Hatch Court Light Industrial Area & Stirling Crescent Precinct – Local Structure Plan

Standard Structure Plan

DYNAMIC PLANNING AND DEVELOPMENTS

Prepared for
City of Kalamunda
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DYNAMIC PLANNING AND DEVELOPMENTS

TABLE OF AMENDMENTS

Amendment No.	Summary of the Amendment	Date Supported by Council	Date approved by WAPC

DYNAMIC PLANNING AND DEVELOPMENTS

LOCAL STRUCTURE PLAN

Executive Summary

The Hatch Court Light Industrial Area and Stirling Crescent Precinct (HCLIA & SCP) – Local Structure Plan (LSP) encompasses approximately 31.882 hectares of land generally bounded by Adelaide Street to the north, Kalamunda Road to the south, Perth Airport-controlled land to the west, and existing residential development to the east. Stirling Crescent connects Kalamunda Road and Adelaide Street, dividing the Structure Plan area into two distinct precincts: the Hatch Court Precinct and the Stirling Crescent Precinct.

The Hatch Court Precinct is zoned 'Light Industry', while the Stirling Crescent Precinct is zoned 'Urban Development' under the City of Kalamunda Local Planning Scheme No. 3 (LPS3).

The Structure Plan provides a detailed planning framework for the orderly subdivision and development of both precincts. Within the Hatch Court Precinct, it implements the existing 'Light Industry' zoning under LPS3 and establishes a comprehensive framework to guide future industrial development. Within the Stirling Crescent Precinct, the Structure Plan provides for residential development at densities of R25 and R30, facilitating a logical transition to the surrounding residential neighbourhood.

A key component of the Structure Plan is the proposed road network, including a new road connection between Hatch Court and Adelaide Street through the Hatch Court Precinct. This connection will replace the existing Hatch Court/Stirling Crescent intersection, which is proposed to be closed. The internal road network has been designed to accommodate RAV4 vehicle movements and improve connectivity to the broader regional road network while minimising industrial traffic on adjoining residential streets.

The Structure Plan also incorporates a new living stream that will connect the two existing Resource Enhancement Wetlands located within the eastern and western portions of the Structure Plan area. A minimum 15-metre buffer is proposed around each wetland to protect and enhance their ecological values while integrating stormwater management with environmental outcomes.

Essential infrastructure and utility services are located in close proximity to the Structure Plan area and can be extended or upgraded to accommodate future subdivision and development. It is noted that the provision of sewer to the Stirling Crescent Precinct will be subject to more detailed design investigation due to the level of fill required (currently estimated at 1-1.5m) to achieve a gravity fed system. Such an amount of fill will be a factor in residential lot design/yield outcome.

The Structure Plan has been prepared in accordance with the requirements of the *Planning and Development (Local Planning Schemes) Regulations 2015*, the provisions of City of Kalamunda Local Planning Scheme No. 3, and the Western Australian Planning Commission's WA Planning Manual – Guidance for Structure Plans (August 2023). It provides the statutory planning framework required to facilitate the coordinated subdivision and development of the land for industrial and residential purposes.

The Structure Plan comprises three parts:

- **Part One – Implementation:** Sets out the statutory planning framework, implementation provisions and subdivision and development requirements applicable to the Structure Plan area. This section also includes the Structure Plan Map (Plan 1).

DYNAMIC PLANNING AND DEVELOPMENTS

- **Part Two – Explanatory Section:** Provides the background information, planning context and technical justification supporting the Structure Plan, drawing upon the findings of the accompanying specialist investigations.
- **Part Three – Technical Appendices:** Contains the specialist technical reports prepared in support of the Structure Plan, including:
    - Bushfire Management Plan;
    - Traffic Impact Assessment;
    - Infrastructure and Servicing Strategy;
    - Local Water Management Strategy;
    - Environmental Assessment Report;
    - Site and Soil Evaluation; and
    - Geotechnical Report.
    - Economic Impact Assessment

A summary of the proposed land uses and key Structure Plan statistics is provided in **Table 1**.

Item		Reference
Total Structure Plan Area	31.882ha	2.2
Area of each land use zone: • Residential • Light Industry	 4.9126ha 21.57ha	 5.2
Area of reserves: • New Road Reserves • Public Open Space/Drainage	 1.4088ha 0.29ha	 5.3 5.5 & 5.6
Area of environmental/drainage features: • Wetlands & Buffer • Living Stream	 3.0591ha 0.6415ha	 5.13 5.6
Estimated lot yield (Residential density of R25/30)	140 lots	5.4
Estimated dwellings	140 dwellings	5.4
Estimated density per site hectare	28.5 dwellings	5.4
Estimated population	350 residents @ 2.5 people per household.	5.4
Primary Schools	None	5.9
High Schools	None	5.9
Total Structure Plan Area	31.882ha	2.2

Table 1 – Land Use Summary

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DYNAMIC PLANNING AND DEVELOPMENTS

Part One - Implementation

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PART ONE – IMPLEMENTATION

1.0 Structure Plan Area and Operation

1.1 Structure Plan Area

This Standard Structure Plan (Structure Plan) applies to the below properties:

Address	Land Area
Hatch Court Precinct	**25.824**
Lot 201 (No. 614) Kalamunda Road, High Wycombe	2.023ha
Lot 200 (No. 584) Kalamunda Road, High Wycombe	8.070ha
Lot 1 (No. 51) Stirling Crescent, High Wycombe	1.118ha
Lot 10 (No. 9) Hatch Court, High Wycombe	1.08ha
Lot 11 (No. 15) Hatch Court, High Wycombe	1.076ha
Lot 12 (No. 19) Hatch Court, High Wycombe	1.241ha
Lot 13 (No. 23) Hatch Court, High Wycombe	1.383ha
Lot 14 (No. 27) Hatch Court, High Wycombe	1.613ha
Lot 15 (No. 24) Hatch Court, High Wycombe	1.011ha
Lot 16 (No. 14) Hatch Court, High Wycombe	1.003ha
Lot 51 (No. 26) Hatch Court, High Wycombe	1.001ha
Lot 52 (No. 30) Hatch Court, High Wycombe	2.165ha
Lot 53 (No. 29) Hatch Court, High Wycombe	1.037ha
Lot 8 (No. 37) Stirling Crescent, High Wycombe	1.001ha
Lot 9 (No. 29) Stirling Crescent, High Wycombe	1.003ha
Stirling Crescent Precinct	**6.058ha**
Lot 1 (No. 62) Stirling Crescent, High Wycombe	0.405ha
Lot 2 (No. 58) Stirling Crescent, High Wycombe	0.405ha
Lot 3 (No. 54) Stirling Crescent, High Wycombe	0.405ha
Lot 4 (No. 50) Stirling Crescent, High Wycombe	0.405ha
Lot 5 (No. 46) Stirling Crescent, High Wycombe	0.405ha
Lot 6 (No. 42) Stirling Crescent, High Wycombe	0.405ha
Lot 7 (No. 38) Stirling Crescent, High Wycombe	0.405ha
Lot 8 (No. 34) Stirling Crescent, High Wycombe	0.405ha
Lot 9 (No. 30) Stirling Crescent, High Wycombe	0.405ha
Lot 10 (No. 26) Stirling Crescent, High Wycombe	0.405ha
Lot 11 (No. 20) Stirling Crescent, High Wycombe	2.008ha

The above properties are the land contained within the inner edge of the line denoting the Structure Plan Boundary on the Structure Plan Map (Refer to Plan 1). The Structure Plan is in effect from the date stated on the cover and for a period of 10 years.

1.2 Structure Plan Content

This Structure Plan comprises the following sections:

- Part One – Implementation. Includes the Structure Plan Map and outlines the requirements that will be applied when assessing land use, subdivision and development applications over the Structure Plan Area.
- Part Two – Explanatory Section. To support the Structure Plan contained in Part One by providing the background and explanatory information used to prepare the Structure Plan.
- Part Three – Technical and specialist reports prepared in support of the Structure Plan

1.3 Structure Plan Operation

In accordance with Schedule 2, Part 4 of the *Planning and Development (Local Planning Schemes) Regulations 2015* (Regulations), this Structure Plan shall come into operation when it is approved by the Western Australian Planning Commission (WAPC) pursuant to Schedule 2, Part 4, Clause 22 of the Regulations.

Pursuant to clause 27(1) of Schedule 2 of the Regulations:

> *A decision-maker for an application for development approval or subdivision approval in an area covered by a structure plan that has been approved by the Commission is to have due regard to, but is not bound by, the structure plan when deciding the application.*

Pursuant to clause 28(1) of Schedule 2 of the Regulations, this Structure Plan will have effect for a period of 10 years, commencing on the day the WAPC approves the plan.

The operation of the Structure Plan shall be in accordance with LPS3 and the Regulations.

2.0 Purpose

The purpose of the Structure Plan is to:

- Provide a planning framework to guide future use, subdivision and development of the land.
- Conserve and enhance the existing environmental features of the land.
- Facilitate high-quality light industrial and residential development that protects the amenity afforded to existing residents in the area.

3.0 Staging

Hatch Court Precinct
Unlike a typical residential area where staging can be more easily defined, the industrial development will have different staging considerations. Accordingly, the staging and future development of the Hatch Court Precinct will be a matter for individual landowners to determine, taking into account prevailing market conditions, demand for industrial lots and lead times for the delivery of any required infrastructure.

Also influencing the development timing within the Hatch Court Precinct will be the funding and means of delivery of the proposed road through Lot 13 which will be addressed separately through appropriate mechanisms and decision(s). The funding associated with this as well as the upgrade of Hatch Court will be addressed by separate decisions. A Special Area Rate model is expected to be necessary.

Stirling Crescent Precinct
Residential development within the Stirling Crescent Precinct is expected to occur in an incremental fashion given the fragmented nature of the precinct. The delivery of common infrastructure (i.e. the road) and necessary service extensions may occur on a landowner by landowner basis or through an alternate funding and delivery model such as a Developer Contribution Plan (DCP).

4.0 Subdivision and Development Requirements

4.1 Land use zones and reserves

Zones
The Structure Plan Map (Plan 1) outlines the land uses, zones and reserves applicable within the Structure Plan area. The zones and reserves designated under this Structure Plan apply to the land within the Structure Plan area as though they were incorporated into LPS3.

Road Reserves
The Structure Plan provides for a new road connection extending from Hatch Court through Lot 13 (No. 23) Hatch Court to Adelaide Street. The proposed road reserve will be 20m wide and constructed to a Restricted Access Vehicle (RAV) 4 standard. The existing Hatch Court road reserve will be retained at a width of 18 m and upgraded to accommodate RAV4 access which will require an increased road seal width of 10m. The proposed road alignment from Adelaide Street to Hatch Court will result in the amalgamation of the existing battle axe access legs into the proposed road reserve with the new road providing access to the impacted properties, although it is possible that this preferred alignment may need to be altered slightly in the event that landowners do not agree.

The existing Hatch Court/Stirling Crescent intersection will be closed to protect the residential amenity of properties along Stirling Crescent. A cul-de-sac will be constructed at the western end of Hatch Court. Construction

of the cul-de-sac will require the affected landowners to cede land free of cost, without entitlement to compensation.

The Structure Plan also proposes a 16m-wide access road through the Stirling Crescent Precinct to facilitate residential development at the proposed R25 and R30 densities. The location where the proposed 16m wide road intersects with Stirling Crescent remains flexible with the final alignment subject to public consultation and additional servicing investigations.

In addition to the proposed road reserves, the Structure Plan identifies access locations for Lot 200 (No. 584) Kalamunda Road. These locations correspond with the existing crossovers. No additional access points to Stirling Crescent or Kalamunda Road will be permitted to minimise industrial vehicle movements and maintain traffic safety on these roads.

A shared access point is also proposed along the common boundary of Lots 11 and 12 Hatch Court to minimise the number of crossings over the proposed living stream. The shared access aligns with the existing easement that currently provides access to these properties.

Wetlands

The Structure Plan includes two Resource Enhancement Wetlands which will be retained in private ownership and managed in accordance with approved Wetland Management Plans provided as part of the subdivision/development application process. These wetlands are recommended to be provided with a 15m buffer in order to protect and enhance the ecological values. There is a minor encroachment into the wetland buffer for the proposed road connecting Hatch Court to Adelaide Street.

Living Stream

The Structure Plan proposes a living stream that connects the two existing wetlands within the Structure Plan area. This is a critical piece of drainage infrastructure and is intended to replace the existing drainage easement that impacts Lots 10, 11, 12, 13, 52 and 53 Hatch Court. It is proposed to realign the living stream/drainage corridor to run parallel to Hatch Court in order to maximise the developable area on Lots 11, 12 and 13. As part of the realignment a section with a reduced width of 15m is proposed to connect the wetland on Lot 11 to the living stream running along Hatch Court which will be a total width of 43m.

It is expected that the living stream will be retained in private ownership with a modified drainage easement to protect this land. As part of developing the impacted lots, it is expected that the living stream will be developed in accordance with the concept plan provided as part of the Local Water Management Report (LWMR).

Public Open Space

The Stirling Crescent Precinct includes a portion of public open space (POS) on 20 Stirling Crescent which is intended to serve a critical drainage function as opposed to an active recreation function. This results in the Structure Plan not providing any creditable public open space which is proposed on the basis of proximity to other high-quality public open spaces areas within the immediate area. It is expected that when subdivision and development occurs within Stirling Crescent Precinct, the 10% POS obligation will be satisfied via a cash in lieu contribution which will contribute to the embellishment and management of POS within the immediate area.

PUBLIC OPEN SPACE SCHEDULE – STIRLING CRESCENT	
Structure Plan Site Area	6.058ha
Less	
- Environmental protection policy areas Wetlands to be ceded	n/a
- Protected bushland site	n/a
- Unrestricted public open space sites not included in public open space contribution	n/a
- Foreshore reserves to be ceded	n/a

Total		0.00 ha	
Net site area			6.058ha
DEDUCTIONS			
Primary School	n/a		
Town Centre and commercial	n/a		
Dedicated drainage reserve	0.29ha		
Transmission corridors	n/a		
Road Widening	n/a		
Gross Subdivisible area			5.768ha
Public open space @ 10 per cent			**0.5768ha**
Public open space contribution			
May comprise:			
- Minimum 80 per cent unrestricted public open space		0.4614ha	
- Minimum 20 per cent restricted use public open space		0.1154ha	
Unrestricted public open space sites			
- POS		0ha	0ha
Restricted use public open space sites			
Total restricted use public open space		0ha	0ha
Public Open Space provision			**0ha (0%)**
Note: Gross subdivisible area includes house lots, access roads, and any land incidental to the subdivision. The gross subdivisible area does not include areas for schools, shopping centres, infrastructure (e.g. land required for sewer pump stations), dedicated drainage sites not having a recreational function and land set aside for arterial roads and other non-residential uses.			

4.2 Density and Development

Density and R-codes

The residential density codes applicable to the Structure Plan shall be in accordance with those shown on the Structure Plan Map (Plan 1). The proposed densities will result in a logical integration with existing development.

The R25 density coding will facilitate a logical subdivision outcome of lots within the Stirling Crescent Precinct whilst facilitating lot sizes that generally integrate with the existing residential development. A portion of R30 development is proposed abutting the public open space reserve in order to capitalise on the additional residential amenity present in this location.

Minimum Lot Sizes

All industrial development within the Hatch Court Precinct will be subject to a minimum lot size of 1ha.

Local Development Plans

The WAPC may require, as a condition of subdivision approval, that a local development plan(s) be prepared in accordance with Part 6 of Schedule 2 of the *Planning and Development (Local Planning Schemes) Regulations 2015*, prior to the creation or development of lots:

i. That are irregularly configured.
ii. Abutting public open space.
iii. Where specific vehicle access and egress control is required.

4.3 Other requirements

Notifications on title

Notifications(s) is / are to be placed on titles of all affected lots to advise:

i. That the lot is located within an area which has been declared bushfire prone and may be subject to a bushfire management plan and additional construction requirements may apply in accordance with Australian standard (AS3959) Construction of buildings in bushfire prone areas (as amended).

A BAL assessment and contour plan will be submitted with subdivision applications.

Restrictive covenant

A restrictive covenant may be required on titles of all affected lots that have been assessed as BAL-40 or BAL-Flame Zone, with notice of this restriction to be included on the diagram or plan of survey (deposited plan) to advise that no habitable buildings are to be built within areas as BAL-40 of BAL-Flame Zone.

Bushfire protection

The Structure Plan is supported by a Bushfire Management Plan (BMP) (Appendix 2). Regardless of whether the land has been formally designated as bushfire prone, any buildings to be erected on land identified as falling within 100 metres of a bushfire hazard shall comply with the requirements of Australian Standard (AS3959) Construction of buildings in bushfire prone areas (as amended).

Local Water Management Report

A Local Water Management Report (LWMR) has been prepared to support the Structure Plan (Appendix 3). The LWMR design objectives seek to deliver best practice outcomes using a water sensitive design approach, including detailed management approaches for:

- Stormwater management that incorporates water sensitive urban design practices;
- Management of stormwater flows prior to discharge;
- Flood protection from localised floods;
- Groundwater resource management;
- Creation of new riparian habitat as part of creating a Living Stream
- Protection and enhancement of wetland ecosystems within the subject land; and
- Sustainable water servicing

The LWMR will be subject to more detailed development in the future through the preparation of an Urban Water Management Plan (UWMP) and Stormwater Management Plans as conditions of subdivision and development approval to be undertaken by landowners and developers. Subdivision and development of land within the Structure Plan area should be in accordance with the principles of the LWMR. It is acknowledged that this detailed design may result in refinement to the final size, location and configuration of identified drainage areas, notwithstanding the principles and modelling of the LWMS are still to be met.

Wastewater Management

Wastewater management for land within the Hatch Court Precinct will be dealt with through onsite treatment and disposal in a manner that avoids detrimental impacts on the environment and water resources. This will undertaken in line with the requirements of State Planning Policy 2.9 – Planning for Water and the submitted Site and Soil Evaluation (Appendix 4).

Within the Stirling Crescent Precinct, it is expected that subdivision and development will occur with access to reticulated sewer.

Infrastructure arrangements

All infrastructure necessary to service the future subdivision and development that will occur within the Structure Plan area shall be upgraded, modified, or extended, where applicable. This shall be considered in detail as part of detailed engineering design, required as a condition of subdivision and development approval.

The submitted Engineering Servicing Report (Appendix 5) details the necessary infrastructure upgrades required to facilitate subdivision and development within the precinct.

Infrastructure Contributions and Responsibilities

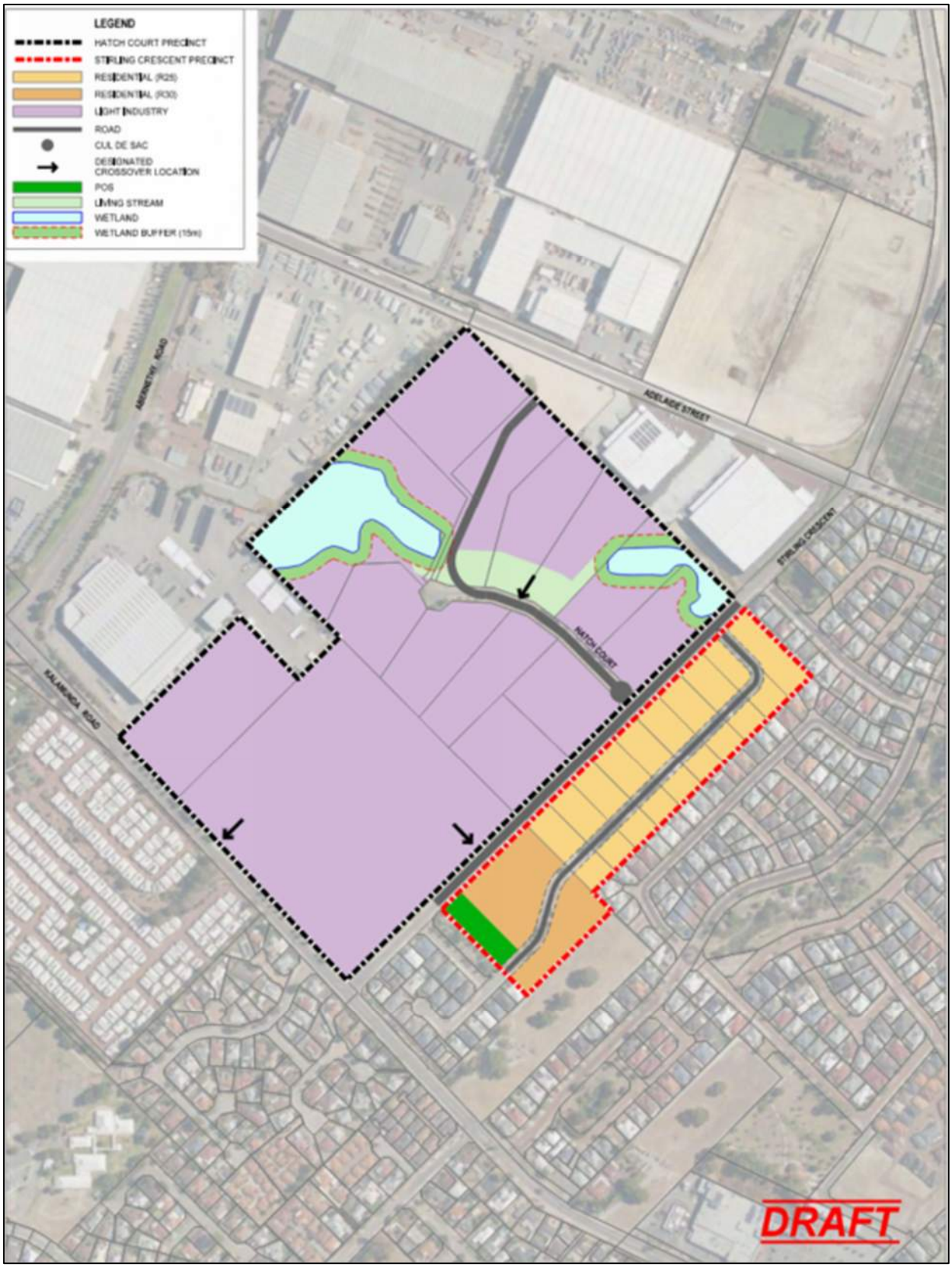
Hatch Court Precinct – Development within the Hatch Court Precinct is dependent on the coordinated delivery of key road infrastructure which includes the delivery of the new 20m wide RAV4 road connection from Hatch Court through the Adelaide Street and also the upgrade of the existing 18m wide Hatch Court road reserve to a RAV4 standard together with the construction of a cul-de-sac at the Stirling Crescent intersection.

Due to the extent of development within this precinct that has already been approved, it is proposed to fund these common infrastructure upgrades via a Special Area Rate (SAR).

Stirling Crescent Precinct – Residential subdivision and development within the Stirling Crescent Precinct is dependent upon the sewer upgrade and extension from the north on Stirling Crescent. The delivery of this road and necessary service extensions may occur on a landowner by landowner basis or through an alternate funding and delivery model such as a Developer Contribution Plan (DCP).

5.0 Additional Details

Additional Information	Approval Stage	Consultation Requirement
Landscape Plan	Development Application	City of Kalamunda
Urban Water Management Plan / Stormwater Management Plan	Subdivision / Development Application	DWER and City of Kalamunda
Bushfire Attack Level Assessment and Plan	Subdivision / Development Application	DFES and City of Kalamunda
Wetland Management Plan	Condition of Subdivision / Development Application	City of Kalamunda and DBCA.
Transport Impact Statement/Assessment	Subdivision / Development Application	DPLH and City of Kalamunda
Living Stream Design Report	Condition of Subdivision / Development Application	City of Kalamunda and DBCA.
Acid Sulphate Soils Investigation / Management Plan	Condition of Subdivision / Development Application	City of Kalamunda



Plan 1 – Structure Plan Map

Part Two – Explanatory Section

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PART TWO – EXPLANATORY SECTION

1.0 Introduction and Purpose

This report has been prepared on behalf of the City of Kalamunda in support of the Local Structure Plan that will satisfy the requirements of Table 4 within Local Planning Scheme No. 3.

The Structure Plan will provide for light industrial development within the Hatch Court Precinct and residential development within the Stirling Crescent Precinct. The Structure Plan aligns with the Metropolitan Region Scheme, City of Kalamunda Local Planning Scheme No. 3, and the Planning and Development (Local Planning Schemes) Regulations 2015. The purpose of the Structure Plan is as follows:

- Provide a planning framework to guide future use, subdivision and development of the land.
- Conserve and enhance the existing environmental features of the land.
- Facilitate high-quality light industrial and residential development that protects the amenity afforded to existing residents in the area.

The project team involved in delivering the Structure Plan includes:

- City of Kalamunda – Project Manager.
- Dynamic Planning and Developments – Town Planning.
- Peritas – Engineering.
- PGV Environmental – Environmental.
- PTG Consulting – Traffic Engineering.
- Galt Geotechnics – Geotechnical Engineering.
- Bushfire Prone Planning – Bushfire.
- Oversby Consulting – Hydrology.
- LK Advisory – Infrastructure Funding

2.0 Site and Context Analysis

2.1 Location

The Structure Plan is located within the suburb of High Wycombe, within the municipality of the City of Kalamunda. The Structure Plan area is located approximately 17 kilometres east north east of the Perth CBD, 6 kilometres south of the Midland Town Centre and abuts Perth Airport land. Services and amenities in the vicinity of the Structure Plan area include:

- High Wycombe Village Shopping Centre on Kalamunda Road (1km).
- High Wycombe Train Station (4km).
- High Wycombe Primary School (1.5km)
- Bus routes on Kalamunda Road.

Figures 3 and 4 below illustrate the Structure Plan in its regional and local context, respectively.

2.2 Area and Land Use

The Structure Plan area includes properties with a total land area of approximately 31.882ha which is broken into two (2) distinct precincts:

1. Hatch Court Precinct – 25.824ha
2. Stirling Crescent Precinct – 6.058ha

The properties within each precinct and their area has been summarised in the below table.

Address	Land Area
Hatch Court Precinct	**25.824ha**
Lot 201 (No. 614) Kalamunda Road, High Wycombe	2.023ha
Lot 200 (No. 584) Kalamunda Road, High Wycombe	8.070ha
Lot 1 (No. 51) Stirling Crescent, High Wycombe	1.118ha
Lot 10 (No. 9) Hatch Court, High Wycombe	1.08ha
Lot 11 (No. 15) Hatch Court, High Wycombe	1.076ha
Lot 12 (No. 19) Hatch Court, High Wycombe	1.241ha
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Lot 51 (No. 26) Hatch Court, High Wycombe	1.001ha
Lot 52 (No. 30) Hatch Court, High Wycombe	2.165ha
Lot 53 (No. 29) Hatch Court, High Wycombe	1.037ha
Lot 8 (No. 37) Stirling Crescent, High Wycombe	1.001ha
Lot 9 (No. 29) Stirling Crescent, High Wycombe	1.003ha
Stirling Crescent Precinct	**6.058ha**
Lot 1 (No. 62) Stirling Crescent, High Wycombe	0.405ha
Lot 2 (No. 58) Stirling Crescent, High Wycombe	0.405ha
Lot 3 (No. 54) Stirling Crescent, High Wycombe	0.405ha
Lot 4 (No. 50) Stirling Crescent, High Wycombe	0.405ha
Lot 5 (No. 46) Stirling Crescent, High Wycombe	0.405ha
Lot 6 (No. 42) Stirling Crescent, High Wycombe	0.405ha
Lot 7 (No. 38) Stirling Crescent, High Wycombe	0.405ha
Lot 8 (No. 34) Stirling Crescent, High Wycombe	0.405ha
Lot 9 (No. 30) Stirling Crescent, High Wycombe	0.405ha
Lot 10 (No. 26) Stirling Crescent, High Wycombe	0.405ha
Lot 11 (No. 20) Stirling Crescent, High Wycombe	2.008ha

At present the structure plan includes primarily existing rural residential properties with some existing light industrial development on Kalamunda Road. It is commented that a number of planning approvals have already been granted for light industrial development within the Hatch Court Precinct which has been summarised below:

1. 29 Stirling Crescent – two (2) warehouses with incidental offices.
2. 37 Stirling Crescent – four (4) warehouses with incidental offices.
3. 14 Hatch Court – seven (7) warehouses with incidental offices.
4. 27 Hatch Court – a warehouse and truck turning area.

To the north of the Structure Plan is the established Hazelmere Industrial Area (within the City of Swan municipality) which is primarily transport and logistics type industrial development with access to key regional roads such as Abernethy Road, Great Eastern Highway Bypass and Roe Highway. To the south and east of the Structure Plan is established single residential development and to the west of the site is the Perth Airport and an existing freight railway line.

In addition to the broader land uses surrounding the Structure Plan, on the southern side of Kalamunda Road is the existing Hillview Lifestyle Village at 597 Kalamunda Road.

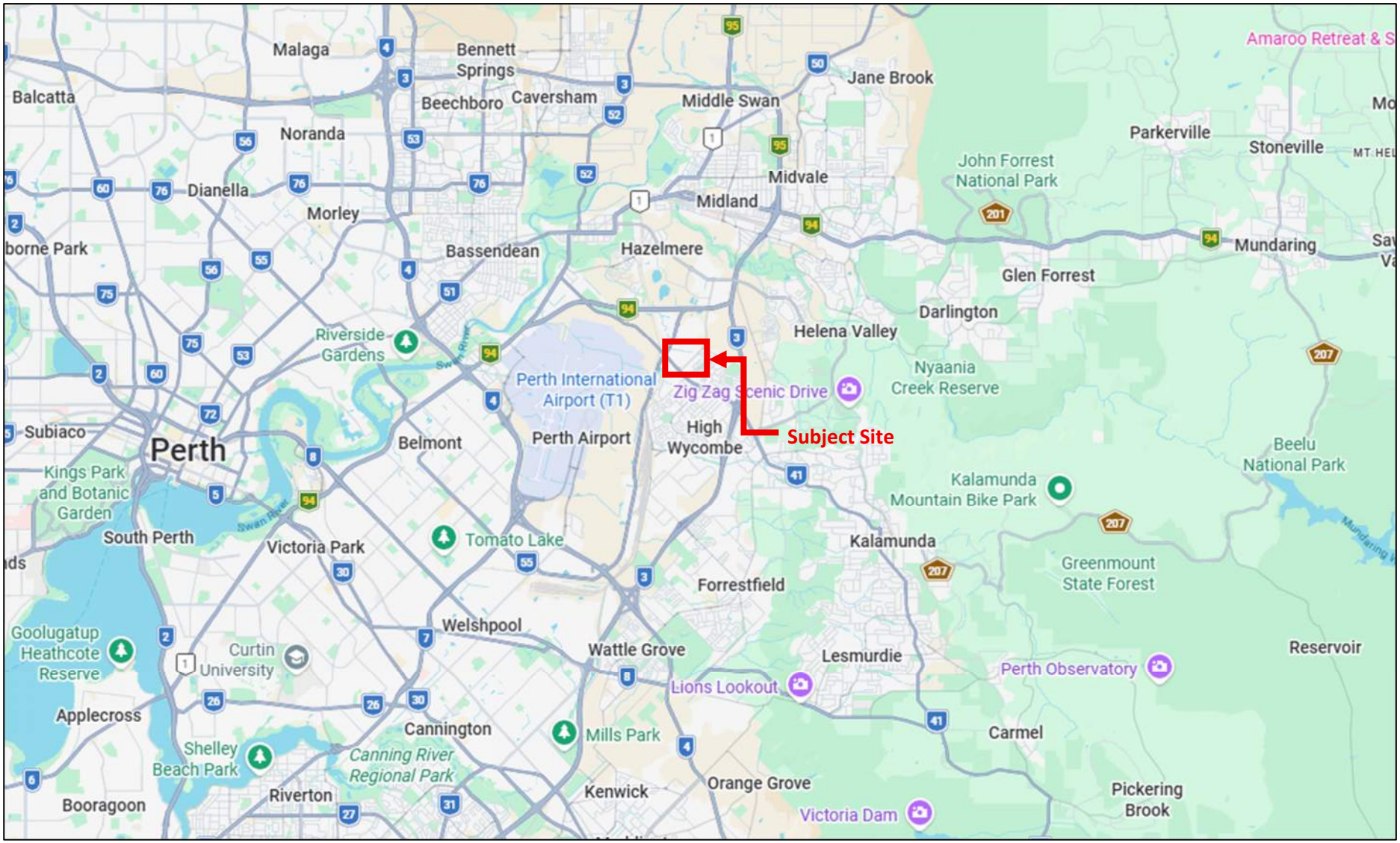


Figure 1 – Regional Context (Source: Google Maps)



Figure 2 – Local Context (Source: MNG Access)

2.3 Legal Description and Land Ownership

The structure plan has a total area of 31.882ha. The Certificate of Title and Property Details are detailed in Table 2 below.

Lot	Street Address	Vol / Folio	Lot Area
201	614 Kalamunda Road	1753/162	2.023ha
200	584 Kalamunda Road	1320/147	8.07ha
1	51 Stirling Crescent	1689/340	1.118ha
10	9 Hatch Court	1746/269	1.08ha
11	15 Hatch Court	1748/115	1.076ha
12	19 Hatch Court	1746/274	1.241ha
13	23 Hatch Court	1746/275	1.384ha
14	27 Hatch Court	1746/273	1.613ha
15	24 Hatch Court	1739/267	1.011ha
16	14 Hatch Court	1739/268	1.003ha
51	26 Hatch Court	2504/940	1.001ha
52	30 Hatch Court	2504/941	2.165ha
53	29 Hatch Court	2504/942	1.037ha
8	37 Stirling Crescent	1689/341	1.001ha
9	29 Stirling Crescent	1689/342	1.003ha
1	62 Stirling Crescent	2011/774	0.405ha
2	58 Stirling Crescent	1329/301	0.405ha
3	54 Stirling Crescent	1328/858	0.405ha
4	50 Stirling Crescent	1328/754	0.405ha
5	46 Stirling Crescent	1328/752	0.405ha
6	42 Stirling Crescent	1328/755	0.405ha
7	38 Stirling Crescent	1328/856	0.405ha
8	34 Stirling Crescent	1328/753	0.405ha
9	30 Stirling Crescent	1328/751	0.405ha
10	26 Stirling Crescent	1328/850	0.405ha
11	20 Stirling Crescent	246/11A	2.008ha

Table 3 – Certificate of Title & Property Details

2.4 City of Kalamunda Local Planning Scheme No. 3

Under the provisions of the City of Kalamunda Local Planning Scheme No. 3 (LPS3), the Structure Plan is zoned partly 'Light Industry' (Hatch Court Precinct) and partly 'Urban Development' (Stirling Crescent Precinct) as illustrated in Figure 3 below.

In accordance with Clause 4.2 of LPS3, the relevant objectives for the Light Industry and Urban Development zones are:

<u>Light Industry</u>

- *To provide for predominantly light industry located in proximity to residential areas.*
- *To ensure that industries are environmentally compatible with surrounding zones and activities.*
- *To ensure that the movement of goods and services in and out of the zone cause minimal impact on residential land in the vicinity.*

<u>Urban Development</u>

- *To provide orderly and proper planning through the preparation and adoption of a Structure Plan setting the overall design principles for the area.*
- *To permit the development of land for residential purposes and for commercial and other uses normally associated with residential development*

In addition to the applicable zone objectives, Clause 5.23 and Table 4 of LPS3 set out additional requirements applicable to the Hatch Court Precinct within the Structure Plan area which specify that:

1. *A structure plan is to be prepared and approved for the land pursuant to Part 4 of the deemed provisions and is to specifically address:*
    a) *Traffic management including:*

- *Provision of future vehicular access to be primarily via Adelaide Street;*
- *Ensuring any vehicular access to Kalamunda Road does not reduce existing levels of access for adjacent properties; and*
- *Access for lots with frontage to Stirling Crescent being provided via an internal road only.*

b) Appropriate interface with existing residential development along Stirling Crescent including setbacks, landscaping, fencing and façade treatment provisions;

c) The identification and protection of environmentally significant areas within the land through the provision of appropriate buffers.

d) The identified bushfire risk in accordance with State Planning Policy 3.7 and Guidelines for Planning in Bushfire Prone Areas.

2. *Subdivision and / or development is to be generally in accordance with the approved structure plan.*

As a requirement for land zoned 'Urban Development' in LPS3 and in accordance with the requirements of Table 4, a Structure Plan has to be prepared prior to Council providing comment on subdivision applications and determining development applications. This Structure Plan will fulfill these scheme requirements and enable subdivision and development in the Structure Plan area.

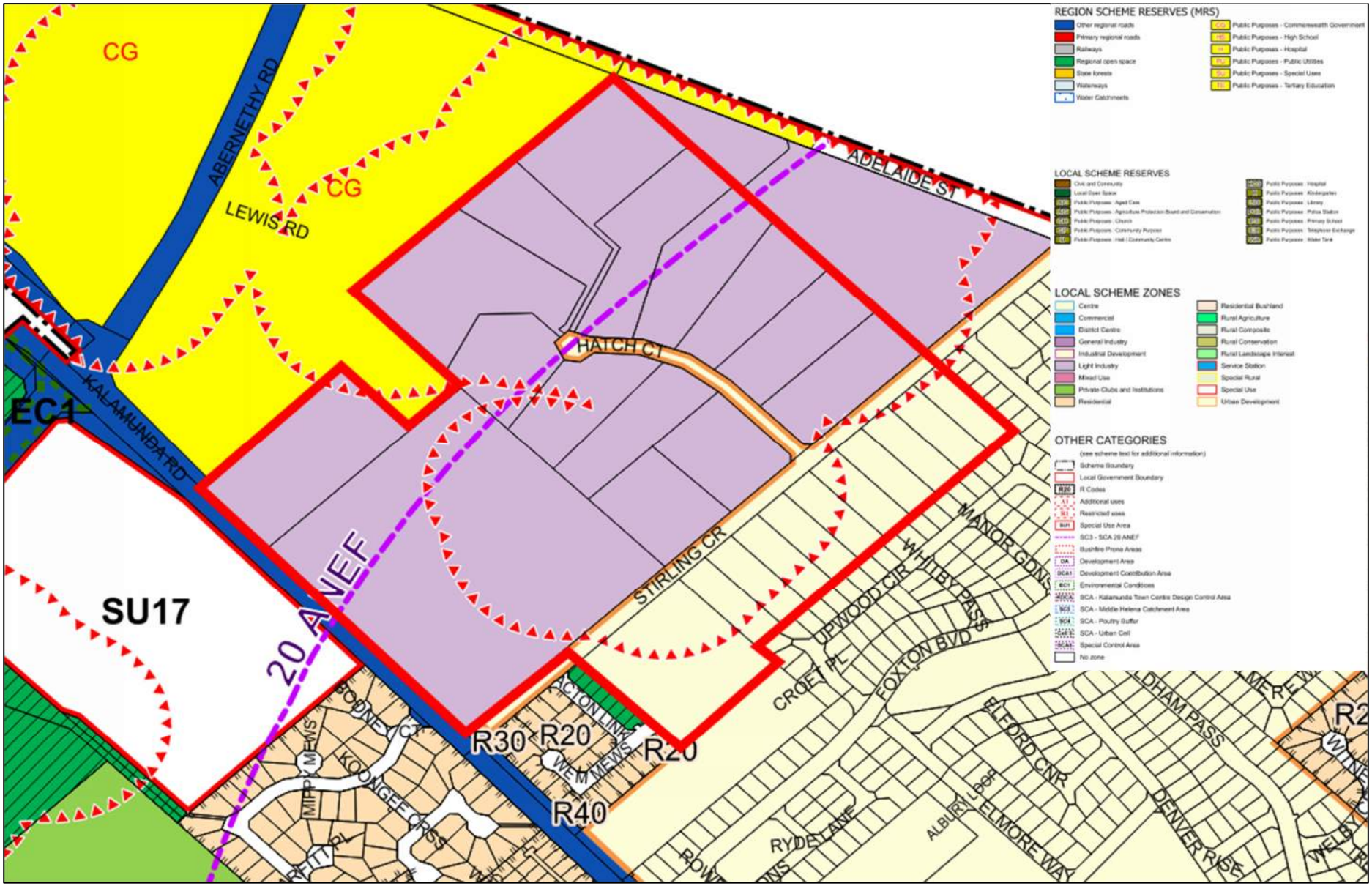


Figure 3 – City of Kalamunda LPS3 Zoning

2.5 State Policies

Liveable Neighbourhoods

Liveable Neighbourhoods is the primary policy used for the design and assessment of structure plans (regional, district and local) and subdivision and development applications for new urban areas. Its primary objective is to promote the design of walkable neighbourhoods, places that support community and a sense of place, mixed use and active streets, accessible and sustainable parking, energy efficient design, and housing choice.

The primary objectives are addressed in eight design elements, which if implemented appropriately are considered to fulfil the overall objectives of Liveable Neighbourhoods. These eight design elements are to be considered at the various levels of planning (structure planning and subdivision) to ensure that development will occur in a thoughtful and sustainable manner.

Liveable Neighbourhoods was at the forefront when establishing the structure plan layout as it relates to the Stirling Crescent Precinct and it is considered that the resultant road network, public open space and proposed density will provide diversity in housing choice and residential development that is integrated seamlessly with the surrounding neighbourhood. A comprehensive justification of how the structure plan meets the requirements of Liveable Neighbourhoods is provided in Section 5.2 to 5.5 of this report.

State Planning Policy 2.9 – Water

State Planning Policy 2.9 – Water is a broad policy that ensures planning and development suitably considers all matters pertaining to water resources. Applicable to the proposed Structure Plan are matters relating to waterways and wetlands, water use and infrastructure, water quality, stormwater and groundwater and wastewater. The objectives of the policy are to:

- *Protect and improve the environmental and the social, cultural and economic values of the state's water resources.*
- *Protect public health and the long-term supply of good quality and affordable drinking water.*
- *Manage the risk of flooding to people, property and infrastructure.*
- *Ensure the secure and sustainable supply, use, disposal and re-use of water resources.*
- *Ensure future development is resilient to the water related impacts of climate change.*
- *Minimise future costs and protect public health by ensuring that appropriate wastewater infrastructure is provided.*

Further detail on the application of State Planning Policy 2.9 – Water is addressed in Section 5.6, 5.7 and 5.13 of the report as it relates to the proposed Local Water Management Report, onsite treatment and disposal effluent within the Hatch Court Precinct and wetland management.

State Planning Policy 3.7 – Planning in Bushfire Prone Areas

State Planning Policy No 3.7 – Planning in Bushfire Prone Areas (SPP 3.7) applies to land identified and designated by the Fire and Emergency Services Commissioner under the *Fire and Emergency Services Act 1998 (as amended).* Such areas are identified on the Map of Bush Fire Prone Areas. Designation of an area as being bushfire prone reflects the potential of bushfire to affect that site.

Under the provisions of SPP 3.7, strategic planning proposals are to be accompanied by the following information:

a) The results of a BHL assessment determining the applicable hazard level(s) across the subject land, in accordance with the methodology set out in the Guidelines. BHL assessments should be prepared by an accredited Bushfire Planning Practitioner; or

b) Where the lot layout of the proposal is known, a BAL Contour Map to determine the indicative acceptable BAL ratings across the structure plan area, in accordance with the Guidelines. The BAL Contour Map should be prepared by an accredited Bushfire Planning Practitioner; and
c) The identification of any bushfire hazard issues arising from the relevant assessment; and
d) Clear demonstration that compliance with the bushfire protection criteria in the Guidelines can be achieved in subsequent planning stages.

Further detail on bushfire planning for the Structure Plan is contained under Section 5.12 of this report.

State Planning Policy 4.1 – Industrial Interface

State Planning Policy 4.1 – Industrial Interface (SPP 4.1) ensures planning decisions consider the locational constraints of land uses, the significant investments represented, and the current and future benefits and costs to communities when assessing proposals where land use conflict may exist or result. The objectives of this policy are to:

- *Ensure the impacts of industrial land uses are considered at all stages of the planning process;*
- *Adequately separate industrial land uses and any resulting off-site impacts and/or safety risks from incompatible land uses to:*
    - *Protect industrial areas to improve long-term operational certainty*
    - *Avoid, mitigate or manage potential impacts on the health and amenity of people and the environment*
    - *Promote co-location of like uses to minimise the impact area; and*
- *Plan the land use transition between industrial land uses/infrastructure facilities and sensitive land uses by providing compatible zones, reserves and land uses.*

Further detail on how State Planning Policy 4.1 – Industrial Interface was considered as part of the design of the Structure Plan is addressed in Section 5.2 & 5.3 of the report, with specific reference to the interface with the Stirling Crescent Precinct and existing residential development south of Kalamunda Road.

State Planning Policy 5.1 – Land use planning in the vicinity of Perth Airport

State Planning Policy 5.1 – Land use planning in the vicinity of Perth Airport provides guidance on land use planning and development density within areas affected by aircraft noise, as identified by the applicable Australian Noise Exposure Forecast (ANEF) contours.

The objectives of the policy are to:

- Protect Perth Airport from unreasonable encroachment by incompatible (noise-sensitive) development, thereby supporting its ongoing operation and future expansion.
- Minimise the impact of aircraft operations on existing and future communities by ensuring that land use planning appropriately considers aircraft noise.

The application of this policy to the proposed residential densities, including consideration of the relevant ANEF contours and associated planning implications, is discussed in further detail in Section 5.4 of this report.

Development Control Policy 5.1 – Regional Roads (Vehicular Access)

Development Control Policy 5.1 – Regional Roads (Vehicular Access) is in place to limit and control access to regional roads within the Perth Metropolitan Region. The objectives of the policy are to:

- *To outline planning principles to be applied in the determination of proposals for vehicle access to regional roads*

- *To ensure that vehicle access to regional roads and the type of abutting developments is controlled and conforms with sound town planning principles.*
- *To improve traffic flow and safety on all regional roads, either new or existing, by minimising the number of junctions or driveways.*

Further detail on how this policy was considered in relation to access to and from Kalamunda Road has been addressed in Section 5.3 of this report.

2.6 Local Government Planning Strategies and Policies

City of Kalamunda Local Planning Strategy

The Local Planning Strategy (LPS) has been prepared to set out the long-term planning directions for the City and to guide land use planning within the City. The Local Planning Strategy was endorsed in 2013 with a new Local Planning Strategy currently being drafted. The objectives of the Local Planning Strategy include:

- *To be a guiding document that provides strategy planning direction to the year 2031.*
- *To set out the direction for economic, social, and environmentally sustainable development based on a comprehensive analysis of State, regional and local planning issues and objectives.*
- *To give direction to the Shire of Kalamunda Council, the Department of Planning, the Western Australian Planning Commission (WAPC) and the Minister for Planning, in the assessment of Scheme amendments, subdivision and development applications and to provide strategic support for this decision making.*
- *To provide the basis for coordinated decision making on future servicing of the Shire by local, State government and servicing agencies.*
- *To provide a rationale for the strategic direction for growth and development to all stakeholders.*
- *To provide the context for coordinated planning and programming of physical and social infrastructure for the Shire.*
- *To identify further studies or investigations required within the Shire to meet objectives for creating good quality environments.*

The Structure Plan area is identified in the Local Planning Strategy as an Urban Expansion area. Development within the Stirling Crescent Precinct would be consistent with the intent of the Local Planning Strategy but industrial development within the Hatch Court Precinct would not. However, given the date of the Local Planning Strategy and the present scheme zoning of 'Light Industry' it is evident the strategic direction for this precinct has changed since the endorsement of the Local Planning Strategy.

Local Planning Policy 32 – Public Open Space

Local Planning Policy 32 – Public Open Space is intended to guide the distribution of public open space within residential areas throughout the City of Kalamunda. The objectives of the policy area to

a) *Guide Council, the City and applicants in considering the planning of POS in new and existing urban areas;*
b) *To ensure POS areas provide a balance of recreational, environmental conservation and sports space;*
c) *To ensure existing and future developments exhibit high levels of amenity;*
d) *To ensure POS design demonstrates environmental sustainability;*
e) *To incorporate water sensitive urban design principles; and,*
f) *To ensure an adequate provision of POS for the community is provided*

This policy has been considered as part of the proposed public open space strategy as it pertains to the Stirling Crescent Precinct. This is addressed in further detail in Section 5.5 of this report.

Local Planning Policy 35 – Hatch Court Light Industrial Area

The intent of Local Planning Policy 35 – Hatch Court Light Industrial Area is to provide a framework for which subdivision and development within the Hatch Court Precinct can occur ahead of the adoption of a Local Structure Plan, Development Contribution Plan and Design Guidelines for the area. The objectives of the policy are to ensure that subdivision and development:

a) *Does not prejudice or preclude the orderly and proper planning of the area via the Structure Plan;*
b) *Does not prejudice or preclude the timely and coordinated delivery of common infrastructure that is reasonably required for and generated by development in the area; and*
c) *Is accompanied by relevant details and technical information to address these requirements; and*
d) *If approved, is subject to a condition requiring satisfactory arrangements to be made with the City for payment of the landowner's development contribution through a developer contribution Plan or alternative rating model option in future, once the preferred infrastructure funding model is adopted.*

The framework for subdivision and development provided by Local Planning Policy No. 35 has been considered in detail as part of preparing the Structure Plan. Adopting the provision contained within the Structure Plan will suitably address the provisions included in Local Planning Policy 35.

3.0 Opportunities and Constraints Analysis

3.1 Bushfire Hazard

A Bushfire Management Plan has been prepared to accompany the Structure Plan in order to address the requirements of SPP3.7 as the subject site is identified as being located within a bushfire prone area. Details on how the Bushfire Management Plan impacts the Structure Plan are addressed in Section 5.12 with the report included in Appendix 2.

3.2 Wetlands

There are two existing Resource Enhancement Wetlands (UFI 16226 and 15940) within the Hatch Court Precinct of the Structure Plan. As part of the Environmental Assessment Report completed to inform the Structure Plan (Appendix 6), a detailed assessment of these wetlands was undertaken to verify their classification and boundary whilst also recommending a 15m buffer in order to protect and enhance the ecological values of the wetlands. Details on how the wetlands and their buffers will be managed as part of the Structure Plan are addressed in Section 5.13.

3.3 Traffic and Access

The Structure Plan has the potential to capitalise on access to an existing RAV network and broader regional road upgrades as part of the Great Eastern Highway Bypass Interchanges Project. As part of this project Abernethy Road will be upgraded to a RAV7 standard with an upgraded intersection at Adelaide Street which is planned to become the one of the primary access points to Abernethy Road and the Great Eastern Highway Bypass with the existing Stirling Crescent and Great Eastern Highway Bypass intersection to be closed.

Separate local road upgrades to Adelaide Street are occurring to enable RAV4 access on Adelaide Street between Stirling Crescent and Abernethy Road which includes a new intersection between Lot 101 and Lot 102 Adelaide Street, High Wycombe which has been constructed and has facilitated the Peak Court road reserve that will connect the Structure Plan to Adelaide Street. It is however relevant to mention that the existing section of Adelaide Street has conditional RAV4 access in place already.

In addition to the broader regional road network, the Structure Plan also has frontage to Stirling Crescent and Kalamunda Road which have predominant residential interfaces. As a result, it is necessary to limit the impact of industrial traffic onto these roads in accordance with the requirements of Table 4 in LPS3 and Development Control Policy 5.1.

Details on how the Structure Plan ties into the existing broader regional road network and limits the impact of industrial traffic on the surrounding residential street interfaces has been addressed in Section 5.3 of this report.

3.4 Acid Sulphate Soils & Contaminated Sites

The Structure Plan area is mapped as having a mixture of low to moderate and moderate to high risk of Acid Sulphate Soils. This was examined as part of the geotechnical investigations that were carried out as part of the Structure Plan (Appendix 7) which confirmed the likely presence of Acid Sulphate Soils. As such, it has been recommended that as a condition of subdivision and development applications, more detailed site specific investigations are carried out with site specific management plans potentially being necessary.

None of the properties within the Structure Plan area are noted as being contaminated sites on the DWER Contaminated Sites Database.

3.5 Ground and Surface Water

Groundwater is at, or close to, the surface around the drainage line, with separation increasing to more than 3m in the higher portion. Flows generally head in a north westerly direction and water quality testing indicated a slightly elevated inherent acidity and high to very high alkalinity concentrations which indicates sufficient self-buffering capacity to maintain an acceptable pH in the event of Acid Sulphate Soils generation.

The subject land's surface water predominantly infiltrates into the sandy soils except during intense heavy rain events. The exception is for those areas of the subject land where the groundwater comes to or close to the surface e.g. within 0.3m of the surface. This means that the runoff is generally greatest during large thunderstorms or in late winter when groundwater is at its highest.

The subject land has multiple catchments where water either discharges off site or is infiltrated within the trapped lows. Furthermore, there are significant upstream catchments that feed into the subject land. Details on how water management is proposed to be addressed as part of the Structure Plan is discussed in Section 5.6.

3.6 Aboriginal and European Heritage

There is part of a listed Aboriginal Cultural Heritage Site mapped on the site, Site ID 3719 Munday Swamp. There are also lodged Aboriginal Cultural Heritage Sites within the Structure Plan which are:

- Place ID 30039, Stirling Crescent Swamp
- Place ID 124, High Wycombe 05.
- Place ID 125, High Wycombe 06.

These sites are illustrated below in Figure 4.

Lodged Aboriginal Cultural Heritage Sites are mapped from information which has been received in relation to an Aboriginal cultural heritage place, but is yet to be assessed under Section 5 of the *Aboriginal Heritage Act 1972.*

3.7 Servicing

All necessary services exist within the vicinity of the Structure Plan area and are able to be upgraded to suitably service future development Lot sizes and development within the Hatch Court Precinct is able to be provided with onsite treatment and disposal of effluent but the provision of reticulated sewer to the Stirling Crescent Precinct will require the extension and upgrade of existing infrastructure. Due to the depth of the existing sewer infrastructure on Stirling Crescent to the north, it is anticipated that a level of fill and retaining (estimated at 1-1.5m) will be necessary in parts of the Stirling Crescent Precinct to facilitate a suitable sewer extension. The extent of the fill and retaining will be determined through a detailed design investigation.

3.8 Design Considerations

In considering the design of the Structure Plan, the following design considerations have informed the proposed industrial development, the location and density of residential development, the location and size of public open space and the road layout.

- Proximity to the existing RAV network along Adelaide Street and ability to extend it into the Hatch Court Precinct which will appeal to a wider array of industrial businesses.
- The need to balance protecting and enhancing the existing Resource Enhancement Wetlands and achieving a suitable industrial development footprint on a number of different landholdings.

- The need for stormwater conveyance through the Hatch Court Precinct and desire to enhance this through the provision of a living stream which also considers the developability of the impacted landholdings.
- The amenity benefits to the eventual employment population of proximity to a proposed living stream.
- The need to protect existing and future residential amenity by limiting industrial traffic onto Stirling Crescent and Kalamunda Road. This ultimately informed the closure of the Stirling Crescent and Hatch Court intersection as well as the access controls imposed on Lot 200 (No. 584) Kalamunda Road.
- Interface with the existing residential development abutting the Stirling Crescent Precinct and ensuring the proposed land use in this precinct achieves a suitable transition and consistent built form outcomes whilst encouraging a slightly denser urban outcome.
- The proximity to existing high-quality public open space within the immediate area which can be relied upon for future residents within the Stirling Crescent Precinct which ultimately supports a reduced provision within the Structure Plan.
- The proximity to an existing water feature/drainage basin that will provide higher amenity for 20 Stirling Crescent and support a higher density coding

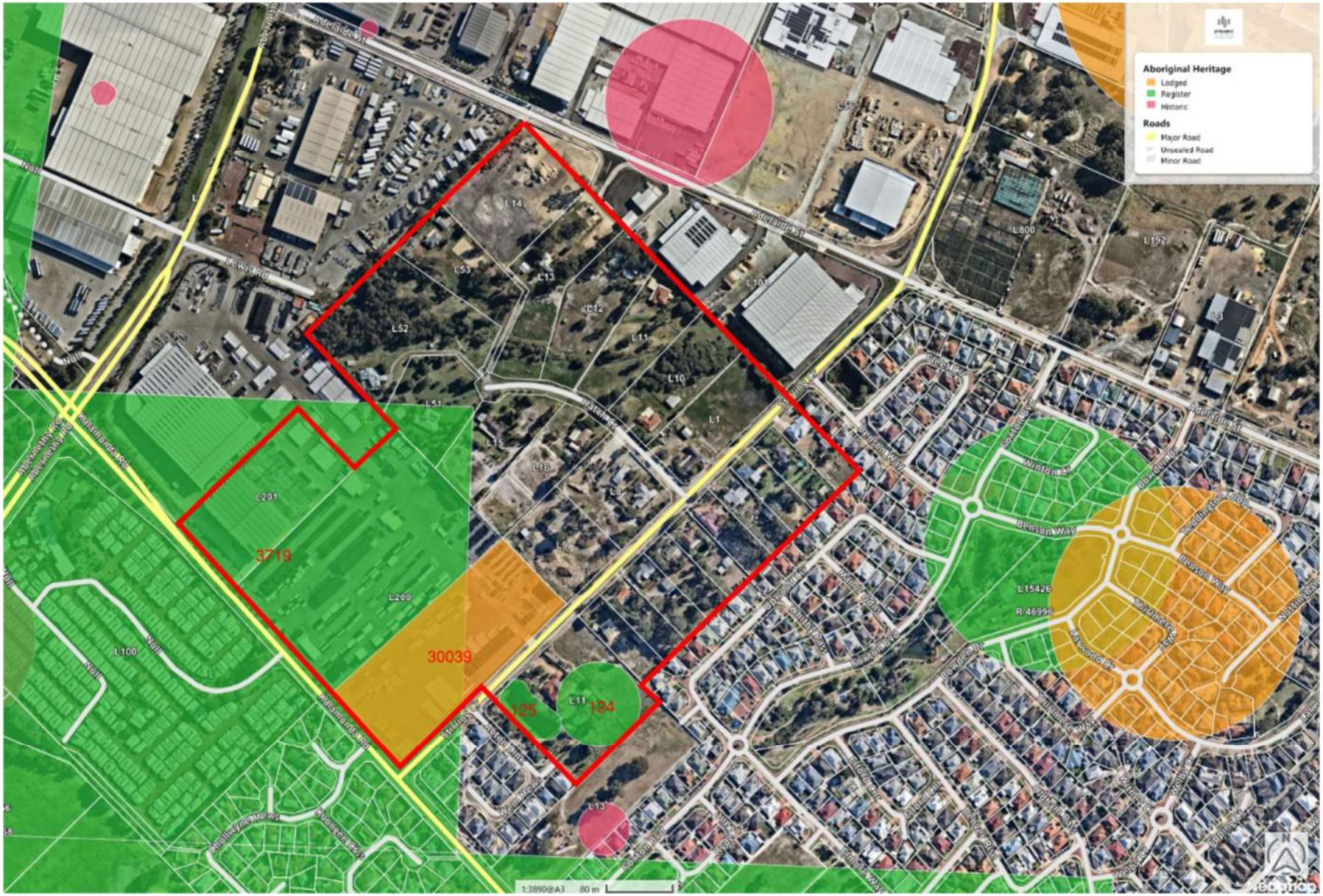


Figure 4 – Aboriginal Heritage Mapping

4.0 Stakeholder and Community Engagement

Prior to formal lodgement of the Structure Plan, a number of preliminary discussions were held between the City of Kalamunda and the appointed project team with respect to assembling all relevant background information and providing input into the final Structure Plan being considered for lodgement. Other pre-lodgement engagement that has occurred included:

- Engagement with landowners within the Structure Plan area and those within the immediate vicinity of the project via letters.
- Direct engagement with landowners within the Structure Plan area via one-on-one meetings.
- Extensive information pertaining to the project being made available to the affected landowners and the broader local community via the City's Engage Page on its social media platform, including fact sheets and a form enabling interested landowners to outline their specific areas of interest to the project.
- Discussions with the Department of Water and Environmental Regulation (DWER) with regard to the proposed living stream.
- Liaison with Water Corporation around the available servicing capacity for the Structure Plan area.
- Correspondence with Main Roads to discuss how the Great Eastern Highway Bypass Interchanges project would impact the proposed Structure Plan.

5.0 Design Response

5.1 Purpose

The purpose of the Structure Plan is as follows:

- Provide a planning framework to guide future use, subdivision and development of the land.
- Conserve and enhance the existing environmental features of the land.
- Facilitate high-quality light industrial and residential development that protects the amenity afforded to existing residents in the area.

5.2 Community Design

The Structure Plan provides a framework for the delivery of light industrial development within the Hatch Court Precinct, consistent with the existing zoning under LPS3, and residential development within the Stirling Crescent Precinct with the land use permissibility to be consistent with the corresponding zones under LPS3. The proposed residential density within the Stirling Crescent Precinct of R25 – R30 is considered to be appropriate considering the existing lot sizes, integration with abutting residential development and proximity to local amenity and public transport. Alternate land use outcomes that were considered for the Stirling Crescent Precinct included:

1. A composite residential / light industrial development outcome with residential land use to the rear abutting the existing residential development and light industrial land use toward Stirling Crescent. This option was not preferred because:
    - Buffer/interface issues with abutting residential development.
    - Access to any residential development was likely to be passed or through industrial land uses.
    - There would be additional industrial traffic onto Stirling Crescent.
    - Similar (hybrid/transitional) zonings had previously been contemplated in the City of Gosnells through the Maddington Kenwick Strategic Employment Area (MKSEA) Structure Planning and their Local Planning Scheme No. 24 (along Maddington Road in Maddington). This was ultimately not supported by the WAPC.
2. A commercial or business development outcome similar to the Special Use 5 area in LPS3 along Abernethy Road in High Wycombe. This option was not preferred because:
    - Buffer/interface issues with abutting residential development. This has occurred along Furniss Road in Darch where larger rear setbacks were imposed for the business development but this ultimately led to poorer outcomes and wasted space at the rear of the business development.
    - There were still likely to be larger vehicles utilising Stirling Crescent which would have a negative amenity impact on existing residential development.

As part of considering the land use outcomes within the Structure Plan, an Economic Impact Assessment was completed to identify quantifiable economic impacts that may arise from development as part of the Structure Plan. A copy of this report is included in Appendix 9 with the key economic benefits summarised below:

- A projected $539.2-$665.1 million of construction output (direct and indirect) to the economy.

- The construction phase is estimated to generate between 335-414 direct construction jobs, plus another 451-556 production-induced indirect FTE jobs and 425-524 consumption-induced indirect FTE jobs elsewhere in the economy.
- Resultant development is likely to be anchored by transport, postal and warehousing, manufacturing and construction, followed by wholesale trade, mining and other services (i.e. repair and maintenance), and supplemented by business services, professional services and other supporting services benchmarking to the current industrial mix in the existing Forrestfield / High Wycombe industrial precinct.
- Once construction is completed, it is anticipated that a total of 2,235-2,792 direct and indirect jobs in the local and regional economy will be generated.
- The ongoing employment from within the Structure Plan will result in $887.2-$1,108.6 million in direct and indirect economic output per annum.
- The Stirling Crescent Precinct has the capacity to generate up to $14.5-$15.8 million in consumption expenditure per year.
- The industrial and residential development within the Structure Plan will generate approximately $1.6-$2.0 million of additional rates revenue per annum.

A copy of the relevant Structure Plan is illustrated in Figure 5 below. An overview of the key elements is provided in Table 3 below.

Item	
Total Structure Plan Area	31.882ha
Area of each land use zones: • Residential • Light Industry	 4.9126ha 21.57ha
Area of reserves: • New Road Reserves • Public Open Space/Drainage	 1.4088ha 0.29ha
Area of environmental/drainage features: • Wetlands & Buffer • Living Stream	 3.0591ha 0.6415ha
Estimated lot yield (Residential R25/30)	140 lots
Estimated dwellings	140 dwellings
Estimated density per site hectare	28.5 dwellings
Estimated population	350 residents @ 2.5 people per household.
Primary Schools	None
High Schools	None
Total Structure Plan Area	31.882ha

Table 3 – Structure Plan Summary

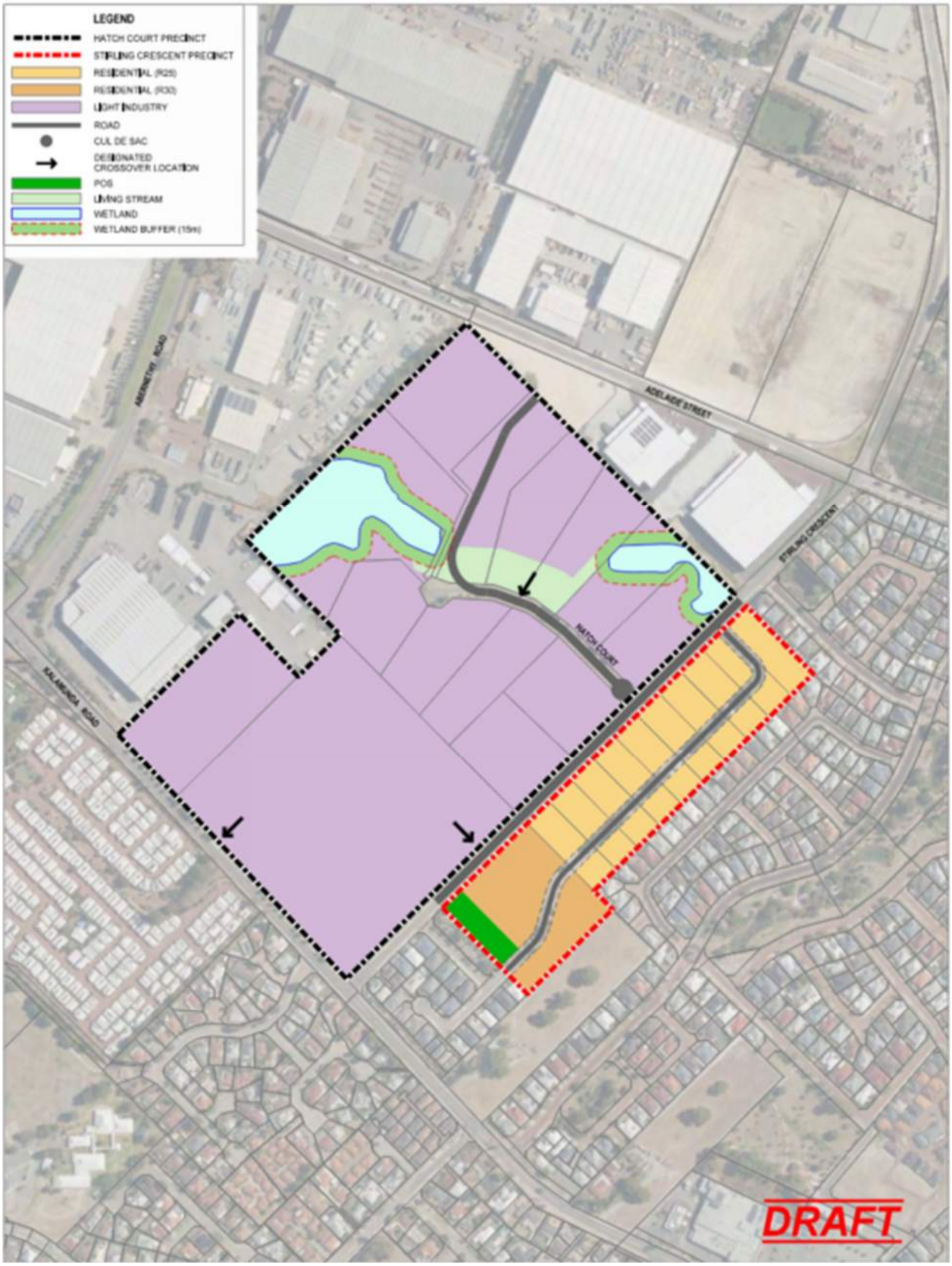


Figure 5 – Structure Plan

5.3 Movement Network

Hatch Court Precinct

The proposed road network within the Hatch Court Precinct includes the construction of a new 20m wide RAV4 road from Hatch Court to Adelaide Street through Lot 13 which is owned by the City of Kalamunda. In addition, the existing Hatch Court road reserve will be retained at 18m wide and the seal width upgraded to accommodate RAV4 traffic with the existing intersection with Stirling Crescent to be closed and replaced with a cul-de-sac in order to limit industrial traffic onto Stirling Crescent in accordance with the requirements of Table 4 of LPS3. The proposed road network followed an extensive review process whereby a range of options were contemplated. These options and various pro's and cons are set out in Table 4 below.

Where the new road connection to Adelaide Street ties in to the existing Hatch Court, there will be surplus land that results. It is undetermined as to what purpose this land will be used for as it will be at the discretion of the City of Kalamunda, one possibility including the creation of a small lot for lease to a telecommunication service to allow a telecommunication monopole.

In addition to the proposed road network, access restrictions are also being imposed as part of the Structure Plan. This is applicable to Lot 200 Kalamunda Road and Lots 11 and 12 Hatch Court. The access restrictions associated with Lot 200 relate to limiting access and egress points to Kalamunda Road and Stirling Crescent to the existing crossover locations in order to:

1. Suitably manage the industrial / residential interface in accordance with State Planning Policy 4.1 and protect the residential amenity of existing properties fronting these roads by limiting the extent of industrial traffic utilising these roads.
2. Comply with the provisions of Table 4 in LPS3 which seeks to avoid direct access to Stirling Crescent.
3. Comply with Development Control Policy 5.1 by limiting and rationalising access to regional roads such as Kalamunda Road.

The access restrictions and requirement for shared access to Hatch Court for Lots 11 and 12 seeks to limit the number of crossings over the living stream. A similar restriction exists currently with an access easement in place across the drainage corridor to facilitate shared access to the two existing dwellings.

Stirling Crescent Precinct

The proposed street network within the Stirling Crescent Precinct has been guided by the provisions of Liveable Neighbourhoods and is considered to provide a permeable road network that will facilitate ease of movement through the precinct and beyond. PTG Consulting were also engaged to prepare a Traffic Impact Assessment (TIA) that examined the proposed road network. The TIA is included in Appendix 8.

The proposed Structure Plan road within the Stirling Crescent Precinct will be consistent with an Access Street D classification in accordance with Liveable Neighbourhoods (see Figure 6 below). It will be an extension of Wem Mews and will provide a priority controlled T-junction intersection with Stirling Crescent. This road will facilitate uniform subdivisional outcomes within the Precinct.

Street type and function	Street name	Projected maximum volume (vehicles per day)	Indicative street reserve width (metres)	Maximum design/ target operating speed (km/hr)	Minimum street pavement width (metres)	Typical residential density
Neighbourhood connectors Streets with mostly residential frontage that typically provide the lower order sub-arterial network. These streets service and link neighbourhoods and activity centres.	**Neighbourhood connector A**	7,000	27.6	50 / 50	2 x 7.3 including parking, on-street bike lane, median plus shared path on one verge and footpath on the other side	R40 to R80
	Neighbourhood connector B	3,000	21.6	50 / 50	11.6 including parking, plus shared path on one verge.	R40 to R80
Access streets Access streets are to accommodate shared pedestrian, bike and vehicular movements. The requirements of adjacent land uses should be supported through street design.	**Access street A –** avenue	3,000	Overall width depends on design and function of central median	50 / 40	2 x 3.5 plus embayment parking.	Varies
	Access street B – wider street	3,000	20.1	50 / 40	10	Up to R40
	Access street C – yield or give way street	3,000	17.2	50 / 30	7.2 typical 7-7.5 range	Up to R35
	Access street D – narrow yield or give way street	1,000	15.5	50-20	5.5 typical 5.5-6 range	Less than R30
Laneways Provide access to the side or rear of lots principally for access to garages.	**Laneway/service lane**	300	6	15	6	Varies

Figure 6 – Access Street Requirements

<table>
<tr><th>Option</th><th>Pros</th><th>Cons</th></tr>
<tr><td>Option 1 – Extension and construction of LSP Road through to Kalamunda Road with Hatch Court becoming a cul-de-sac</td><td>

More even distribution of traffic on the broader road network and less pressure on Adelaide Street intersection.
Improved options for the development/subdivision of Lot 200.
Complies with the planning scheme objectives to keep industrial traffic off Stirling Crescent as much as possible.
Modelling would suggest a level of service shown below for the relevant intersections.

<table>
<tr><td rowspan="2">AM Peak</td><td colspan="2">Option 1</td></tr>
<tr><td>Delay</td><td>LOS</td></tr>
<tr><td>I-1_Adelaide Street/Site Access 1</td><td>6.3</td><td>A</td></tr>
<tr><td>I-2_Stirling Crescent/Adelaide Street</td><td>14.6</td><td>B</td></tr>
<tr><td>I-3_Stirling Crescent/Kalamunda Road</td><td>29.3</td><td>D</td></tr>
<tr><td>I-4_Kalamunda Road/Site Access 2</td><td>21.4</td><td>C</td></tr>
</table>
<table>
<tr><td rowspan="2">PM Peak</td><td colspan="2">Option 1</td></tr>
<tr><td>Delay</td><td>LOS</td></tr>
<tr><td>I-1_Adelaide Street/Site Access 1</td><td>6.3</td><td>A</td></tr>
<tr><td>I-2_Stirling Crescent/Adelaide Street</td><td>17.7</td><td>C</td></tr>
<tr><td>I-3_Stirling Crescent/Kalamunda Road</td><td>136.2</td><td>F</td></tr>
<tr><td>I-4_Kalamunda Road/Site Access 2</td><td>36.7</td><td>E</td></tr>
</table>
</td><td>

Road extension and intersection will require either a signalised intersection or roundabout to RAV4 standard to be supported by MRWA.
Cost of delivery is significant.
Strong preliminary community objection to access/intersection with Kalamunda Road and additional industrial traffic onto Kalamunda Road.
Kalamunda Road east of Abernethy Road is not a designated RAV route.

</td></tr>
<tr><td>Option 2 – Retention and modification of Hatch/Stirling intersection to allow access/egress onto Stirling with restricted industrial access.</td><td>

More even distribution of traffic on the broader road network and less pressure on Adelaide Street intersection.
Cost implications not as significant as other alternatives.
Modelling would suggest a level of service shown below for the relevant intersections.

<table>
<tr><td rowspan="2">AM Peak</td><td colspan="2">Option 2</td></tr>
<tr><td>Delay</td><td>LOS</td></tr>
<tr><td>I-1_Adelaide Street/Site Access 1</td><td>6.2</td><td>A</td></tr>
</table>
</td><td>

Non-compliant with the scheme provisions as it permits industrial traffic (albeit limited) onto Stirling Crescent which is likely to impact the amenity of the residential development on the opposite side of Stirling Crescent.
Doesn’t provide Lot 200 with any additional road access and would infer that existing frontages to

</td></tr>
</table>

Option	Pros	Cons
		Kalamunda and Stirling for this lot will facilitate industrial traffic access for as of right vehicles. • Would conflict with existing DA approvals that have been granted which required a proposed cul-de-sac to be contemplated.

I-2_Stirling Crescent/Adelaide Street	14.5	B
I-3_Stirling Crescent/Kalamunda Road	29.0	D
I-4_Kalamunda Road/Site Access 2	19.8	C
I-5_Stirling Crescent/Hatch Court	6.2	A

PM Peak	Option 2	
	Delay	LOS
I-1_Adelaide Street/Site Access 1	6.3	A
I-2_Stirling Crescent/Adelaide Street	17.8	C
I-3_Stirling Crescent/Kalamunda Road	101.3	F
I-4_Kalamunda Road/Site Access 2	35	E
I-5_Stirling Crescent/Hatch Court	6.4	A

Option	Pros	Cons
Option 3 – Cul-de-sac at Hatch Court and no additional LSP roads through to Lot 200.	• Most cost effective option with respect to facilitating development in the precinct. • Complies with local planning scheme objectives to restrict industrial traffic on Stirling Crescent. • Consistent with DAP decisions in the precinct. • Modelling would suggest a level of service shown below for the relevant intersections.	• Doesn't provide Lot 200 with any additional road access and would infer that existing frontages to Kalamunda and Stirling for this lot will facilitate industrial traffic access for as of right vehicles. • More concentrated distribution of traffic through the Adelaide Street intersection – despite this, modelling indicates a suitable level of performance, noted in the 'pros' column.

AM Peak	Option 3	
	Delay	LOS
I-1_Adelaide Street/Site Access 1	6.4	A
I-2_Stirling Crescent/Adelaide Street	15.2	C
I-3_Stirling Crescent/Kalamunda Road	29.0	D
I-4_Kalamunda Road/Site Access 2	19.8	C

PM Peak	Option 3	
	Delay	LOS
I-1_Adelaide Street/Site Access 1	6.4	A

<table>
<tr><th>Option</th><th>Pros</th><th>Cons</th></tr>
<tr><td></td><td>
<table>
<tr><td>I-2_Stirling Crescent/Adelaide Street</td><td>18.7</td><td>C</td></tr>
<tr><td>I-3_Stirling Crescent/Kalamunda Road</td><td>101.3</td><td>F</td></tr>
<tr><td>I-4_Kalamunda Road/Site Access 2</td><td>35</td><td>E</td></tr>
</table>
</td><td></td></tr>
<tr><td>Option 4 – minor extension of the LSP road through to Lot 200. Retention of cul-de-sac at Hatch.</td><td>

Relative to other contemplated options (except Option 3), the extent of upgrades and associated cost is reduced.
Provides additional access options/outlet for Lot 200 traffic to go back to the Adelaide Street intersection. This is likely to assist in reducing industrial traffic on Kalamunda Road and Stirling Crescent.
Modelling would suggest a level of service shown below for the relevant intersections.

<table>
<tr><td rowspan="2">AM Peak</td><td colspan="2">Option 4</td></tr>
<tr><td>Delay</td><td>LOS</td></tr>
<tr><td>I-1_Adelaide Street/Site Access 1</td><td>7.0</td><td>A</td></tr>
<tr><td>I-2_Stirling Crescent/Adelaide Street</td><td>16.5</td><td>C</td></tr>
<tr><td>I-3_Stirling Crescent/Kalamunda Road</td><td>26.5</td><td>D</td></tr>
</table>
<table>
<tr><td rowspan="2">PM Peak</td><td colspan="2">Option 4</td></tr>
<tr><td>Delay</td><td>LOS</td></tr>
<tr><td>I-1_Adelaide Street/Site Access 1</td><td>6.8</td><td>A</td></tr>
<tr><td>I-2_Stirling Crescent/Adelaide Street</td><td>20.2</td><td>C</td></tr>
<tr><td>I-3_Stirling Crescent/Kalamunda Road</td><td>68.2</td><td>F</td></tr>
</table>
</td><td>

More concentrated distribution of traffic through the Adelaide Street intersection – despite this, modelling indicates a suitable level of performance, noted in the ‘pros’ column.
Lot 200 subdivision and development is still likely to rely on access/egress from Stirling Crescent and Kalamunda Road.
Reduced industrial development potential and places an imposition on 24 Hatch Court and/or 26 Hatch Court.
Benefit of road extension will not be even throughout the precinct which will complicate the infrastructure funding process.
Greater cost than Option 3, which is the most cost effective.

</td></tr>
<tr><td>Option 5 – Extension of LSP road through to Lot 200 and then a subsequent extension to Stirling Crescent.</td><td>

Relative to other contemplated options the extent of upgrades and associated cost is reduced but this assumes cost of road within Lot 200 will be borne entirely by the developer of Lot 200.
More even distribution of traffic on the broader road network and less pressure on Adelaide Street intersection.
Modelling would suggest a level of service shown below for the relevant intersections.

<table>
<tr><td>AM Peak</td><td>Option 5</td></tr>
</table>
</td><td>

Non-compliant with the scheme provisions as it permits industrial traffic (albeit limited) onto Stirling Crescent which is likely to impact the amenity of the residential development on the opposite side of Stirling Crescent.

</td></tr>
</table>

Option	Pros		Cons
			• Timing of delivery is uncertain given the development timeframe for Lot 200 is likely to be protracted. • Reduced industrial development potential and places an imposition on 24 Hatch Court and/or 26 Hatch Court. • Benefit of road extension will not be even throughout the precinct which will complicate the infrastructure funding process.

	Delay	LOS
I-1_Adelaide Street/Site Access 1	6.4	A
I-2_Stirling Crescent/Adelaide Street	15.4	C
I-3_Stirling Crescent/Kalamunda Road	29.4	D
I-6_Stirling Crescent/Site Access 3	4.6	A

PM Peak	Option 5	
	Delay	LOS
I-1_Adelaide Street/Site Access 1	6.4	A
I-2_Stirling Crescent/Adelaide Street	19.2	C
I-3_Stirling Crescent/Kalamunda Road	184.9	F
I-6_Stirling Crescent/Site Access 3	5.4	A

Table 4 – Road Access Options

5.4 Lot Layout

Hatch Court Precinct

The proposed light industrial development within the Hatch Court Precinct is proposed to occur with a minimum 1ha lot size in order to encourage larger industrial uses and businesses that support transport and logistics type operations that will benefit from the RAV4 road network and the proximity and access to the broader regional road network. The 1ha minimum lot size will remove further fragmentation of landholdings within the Precinct and assist in achieving greater consistency in lot size and land use integration with the broader Hazelmere industrial area to the north.

In many instances within the Precinct, the amalgamation and rationalisation of industrial land will also be encouraged in order to assist in achieving more meaningful industrial development. Examples of this might include amalgamation of smaller portions of industrial land with adjoining properties where impacted by wetland areas i.e. Lot 52 Hatch Court or where the proposed structure plan road severs Lot 13 with the western side of this property to be amalgamated with the adjoining Lot 14 Hatch Court.

Light industrial development within the Hatch Court Precinct will be required to comply with the relevant development requirements outlined in LPS3 and any applicable local planning policies. In this regard, it is intended that a separate local planning policy will be prepared to outline design guidelines for the Hatch Court Precinct, similar to Local Planning Policy 19 – MKSEA Design Guidelines and Local Planning Policy 27 – Forrestfield/High Wycombe Industrial Area Design Guidelines. These design guidelines will be established to provide controls around site specific measures such as interface with the wetlands and living stream, protection of residential amenity and built form and landscaping expectations.

Stirling Crescent Precinct

The residential densities currently proposed in the Structure Plan range from R25 through to R30 as it relates to 20 Stirling Crescent. The predominant residential density of R25 is considered to encourage a typical green title subdivision outcome for the predominant 4,000sqm lot that exists within the Stirling Crescent Precinct. The extent of street frontage for each lot and likely built form outcomes and lot sizes will be broadly consistent with the abutting built form, albeit slightly denser to encourage additional housing whilst still enabling double garages that won't dominate the streetscape.

A higher R30 density coding could be contemplated for the proposed R25 lots, subject to additional technical investigations.

The lot design will also be subject to the extent of fill and retaining required to provide a gravity fed system to the precinct. In this regard, rear loaded lots with lane access will comprise part of the lot design outcome.

As 20 Stirling Crescent has a larger lot size with greater frontage to the public road network as well as proximity to an area of POS/drainage reserve, it is considered appropriate to apply a higher R30 density outcome in order to encourage additional housing yield.

The proposed residential densities will ensure the delivery of a lot product that meets current market expectations whilst also existing harmoniously within the existing residential area that abuts the Stirling Crecent Precinct.

It is acknowledged that State Planning Policy 5.1 specifies that where impacted by a 20-25 ANEF noise contour, the residential density should be limited to R20. However, clause 5.3.2 of State Planning Policy 5.1 specifies that a higher density coding can be contemplated where:

- It is desirable to facilitate infill development of an existing residential area; and

- The public benefits of a higher density coding outweigh the negative impacts of exposing additional residents to aircraft noise.

Residential development in the Stirling Crescent Precinct is an infill development of an existing residential area and in relation to the public benefits associated with the higher R25 and R30 density coding, the following is noted:

- The 20-25 ANEF noise contour only impacts a very small section of the precinct, a portion of which is proposed to be an area of public open space.
- The higher density coding will facilitate more consistent built form outcomes within the precinct than if the R20 density coding applied to the small section of the precinct impacted by the 20-25 ANEF noise contour.
- There is a State level strategic priority to increase infill housing and densities in infill areas.

5.5 Public Parkland

Hatch Court Precinct

The Hatch Court Precinct will have no areas of public parkland with the existing Resource Enhancement Wetlands and the associated 15m buffer to be retained in private ownership. This is also consistent with the proposed living stream with the exception being that this will also have an easement over it, similar to the existing drainage corridor, to facilitate City and any relevant servicing agency access, should it be required.

Stirling Crescent Precinct

The proposed public open space reserve within the Stirling Crescent Precinct will only serve a drainage function consistent with the Local Water Management Report, despite this, the basin will have a higher level of amenity that benefits the owners of 20 Stirling Crescent. There will be no active or passive recreation areas within the reserve. As a result, the Structure Plan provides no creditable POS. Table 5 below provides a schedule of POS within the Structure Plan Area.

It is expected that as part of the subdivision and development of lots within the Stirling Crescent Precinct, a 10% POS contribution condition will be imposed which will contribute to the management and embellishment of existing POS areas within the immediate locality.

PUBLIC OPEN SPACE SCHEDULE – STIRLING CRESCENT			
Structure Plan Site Area			6.058ha
Less			
- Environmental protection policy areas Wetlands to be ceded	n/a		
- Protected bushland site	n/a		
- Unrestricted public open space sites not included in public open space contribution	n/a		
- Foreshore reserves to be ceded	n/a		
Total		0.00 ha	
Net site area			6.058ha
DEDUCTIONS			
Primary School	n/a		
Town Centre and commercial	n/a		
Dedicated drainage reserve	0.29ha		
Transmission corridors	n/a		
Road Widening	n/a		
Gross Subdivisible area			5.768ha
Public open space @ 10 per cent			**0.5768ha**
Public open space contribution			
May comprise:			
- Minimum 80 per cent unrestricted public open space		0.4614ha	
- Minimum 20 per cent restricted use public open space		0.1154ha	
Unrestricted public open space sites			
- POS		0ha	0ha

Restricted use public open space sites		
Total restricted use public open space	0ha	0ha
Public Open Space provision		**0ha (0%)**
Note: Gross subdivisible area includes house lots, access roads, and any land incidental to the subdivision. The gross subdivisible area does not include areas for schools, shopping centres, infrastructure (e.g. land required for sewer pump stations), dedicated drainage sites not having a recreational function and land set aside for arterial roads and other non-residential uses.		

Table 5 – Public Open Space Schedule

Whilst it is not typical for Structure Plans to rely solely on a cash in lieu contribution to satisfy the POS obligation, it is appropriate in this instance as:

- The residential development within the Stirling Crescent Precinct will act more as an infill subdivision that completes the abutting residential estate. As a result of this, there is already high-quality public open space in close proximity to the precinct that will meet the passive and active recreation needs of future residents. These areas include:
    - Jacaranda Springs Park (3.5208ha) which is only a short 300m walk away from the Stirling Crescent Precinct at the closest point.
    - Elmore Park (1.496ha) which is only a short 800m walk away at the closest point.
    - Two existing smaller areas of POS immediately abutting the proposed drainage reserve and on the northern side of the Benson Way and Stirling Crescent intersection.
- The City of Kalamunda Local Planning Policy 32 expresses a preference for larger regional, district or neighbourhood open space over the provision of local open space with consolidated areas preferred to smaller and less functional reserves. In this regard areas of POS required to be 4,000sqm or less require a cash in lieu contribution to be paid and areas where the POS will be 4,000-10,000sqm, it is at the discretion of the City as to whether the land is required or a contribution is paid.

In light of the above, the proposed cash in lieu contribution requirement, as opposed to the actual provision of public open space is entirely appropriate.

5.6 Water Management

At present surface water within the Structure Plan generally flows into the existing drainage corridor or into existing road reserves with discharges occurring into the Perth Airport land. Consultation with Perth Airport has confirmed that the total discharge rate into their land needs to be at or below a requirement of 0.041m^3/s/ha.

A detailed analysis of pre-development drainage modelling was undertaken as part of preparing the LWMR (Appendix 3) in order to inform the required water management within the Structure Plan. Two pre-development scenarios were modelled which have been summarised below:

- Scenario 1. The early rural option allows for flows to move through the drainage line with no restrictions downstream of Stirling Crescent, plus no constructed impervious areas outside of road reserves. There are however large areas of impervious surfaces created by areas of winter inundation which contribute discharge directly to the main flow channel.
- Scenario 2. The 1997 land use option incorporates the restriction to flow generated by the driveways and culverts across the open drain, plus an increase in impervious areas due to driveways, houses, etc. It also takes into account filling of some low areas.

In general, the aim of drainage management for the site is to generally manage the water flows so that water treatment is achieved and that the major storms are controlled prior to release. As the Structure Plan's

proposed development contains both industrial and residential areas, the strategies have been designed to accommodate the particular land use within the relevant catchment. Furthermore, the proposed design accommodates the upstream flows that are likely to enter the subject land, while keeping the total discharge rates at or below the Perth Airport stormwater requirement of 0.041m3/s/ha.

The existing wetland and open drain system is also to be enhanced into an eastern and western rehabilitated wetland system and a connecting Living Stream. The Living Stream replaces the existing degraded drainage line that currently connects the two wetland systems. The initial eastern section of the Living Stream is to be composed of a rock lined channel, with planting pockets to direct the flow southward towards Hatch court. At this point the Living Stream will turn in a west North-westerly direction, with the systems sides reducing to a 1:6 slope, planted with native riparian vegetation.

An overview of the key water management strategies for the Structure Plan are set out below with Figure 6 providing a visual overview of the LMWR key elements.

Water Conservation and Servicing

- All lots are to be connected to a potable reticulated water main to provide security of supply.
- All future residential lots are to be connected to mains sewerage.
- All industrial lots are to utilise suitable on-site effluent management including secondary treatment, compliant with the approved Site and Soil Evaluation.
- The Living Stream landscaping is to be primarily irrigated via stormwater and the shallow natural groundwater.

Stormwater Management

- All new residential lots will detain and infiltrate the 5% AEP on site, as per the City of Kalamunda's guidelines.
- All new industrial lots will detain and infiltrate stormwater so that their 1% AEP runoff is in keeping with the requirements of the downstream Perth Airport drainage network.
- Bioretention systems and/or soakwells assist with treatment of stormwater with the new road networks.
- The Living Stream and retained Wetlands assist with treatment and detention of stormwater from the subject land and upstream catchments.
- The Southern POS basin will retain and infiltrate all stormwater discharged into it up to and including the 1% AEP.
- The lot detention, POS basins and Living Stream / Wetland network detain all peak flows to at / below pre development rates as well as meeting the Perth Airport discharge rate.

Flood Management

- All lot levels will be designed to maintain a minimum separation clearance of 300mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels generated on site.
- All lot levels will be designed to maintain a minimum separation clearance of 500mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels of the Living Stream and main POS detention basin.
- The Living Stream and Wetland network allows for 1% AEP flood flows to traverse the subject land site as well as providing safe storage.

Groundwater Management

- Inflow to the groundwater is to be treated in bioretention gardens and Living Stream / Wetland network.
- Where necessary the subject land is to be lifted using clean fill to maintain necessary separation to the groundwater.
- Subsoil systems are to be installed to control groundwater rise in areas with groundwater less than 1.5m from the surface.

- Mains sewerage will remove potential pollutants from the residential lots for treatment off site.
- Secondary treatment of industrial lot wastewater will assist with minimising pollutants moving into the groundwater.
- Removal of stock and large gardens is likely to reduce nutrient loads to the groundwater.

Ecosystem Protection and Enhancement

- The stormwater system will assist with capturing sediments, large debris, nutrients and other pollutants from stormwater runoff, protecting the subject land wetlands.
- New riparian ecosystems creation will be undertaken through converting the current degraded drainage line into a Living Stream.
- Bioretention systems will provide some limited habitat to fauna throughout the subject land.
- The wetlands are to be enhanced through weed control and revegetation as well as being protected in reserves with appropriate buffers

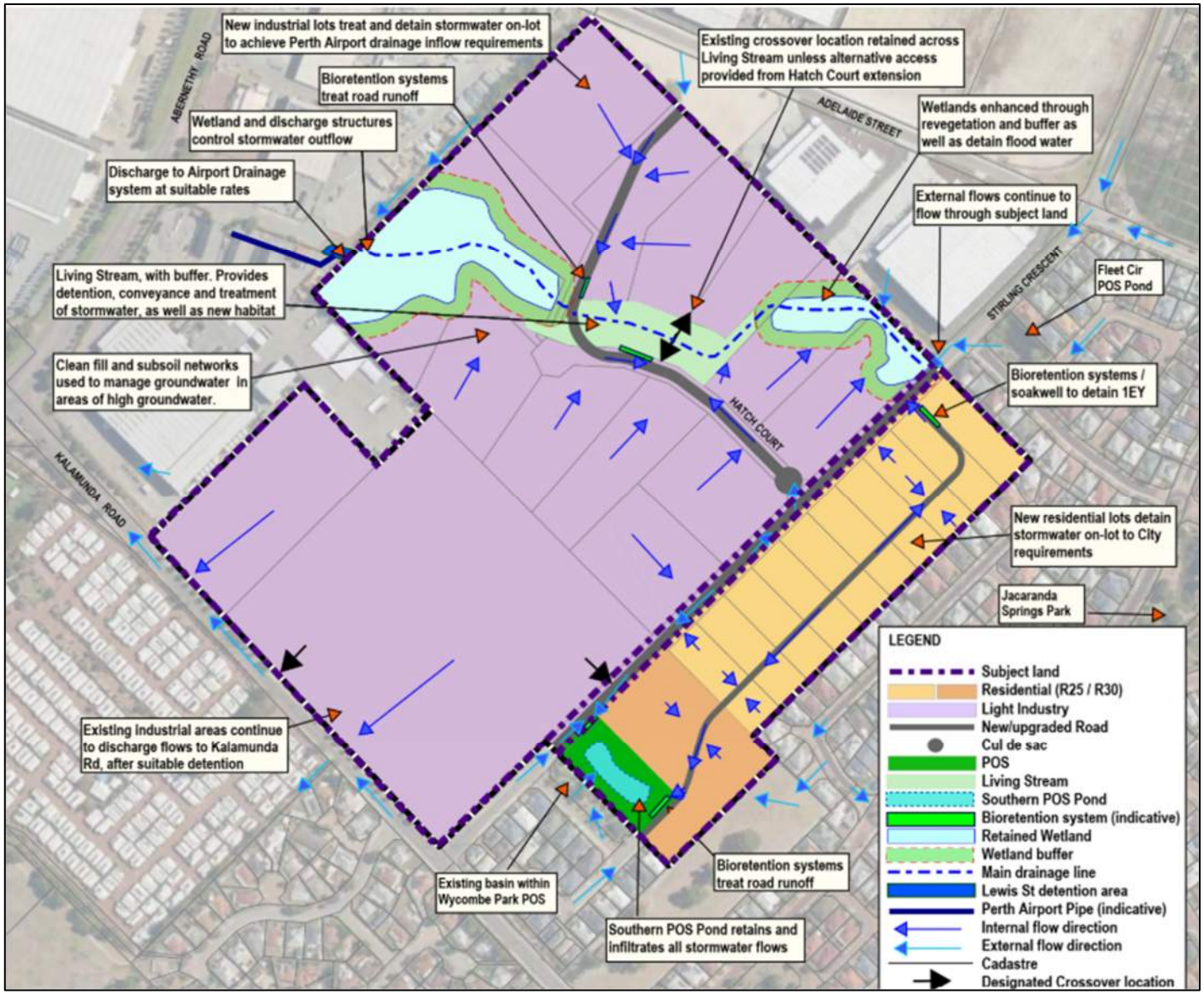


Figure 7 – LWMR Key Elements Plan

The spatial impacts of the proposed water management on the Structure Plan, outside of the pre-determined wetland and wetland buffer areas (as these are dictated by environmental factors) include:

1. The provision of a 43m wide living stream that runs parallel to Hatch Court after being reoriented from the existing Resource Enhancement Wetland in the northeast corner of the Structure Plan via a 15m wide rock lined channel with planting pockets. A cross section of the proposed Living Stream and 15m wide channel is set out in Figure 7 and 8 below. The Living Stream will be retained in private ownership, protected by an easement similar to the existing drainage channel and constructed as part of development occurring on the impacted lots. The detailed design of the Living Stream will be addressed through a Living Stream Design Report which will be undertaken by either the City of Kalamunda or the developer of the first lot through which the Living Stream will be created.
2. The provision of a 2,900sqm drainage basin on 20 Stirling Crescent where the existing pond is located. The size of this drainage basin has been informed by the LWMR modelling which requires a basin of 2,898sqm to accommodate the stormwater flows. This drainage basin is not protected as a Class 2 wetland and as such will be vested to the City for management with the size allowing the retention of the existing dwelling.

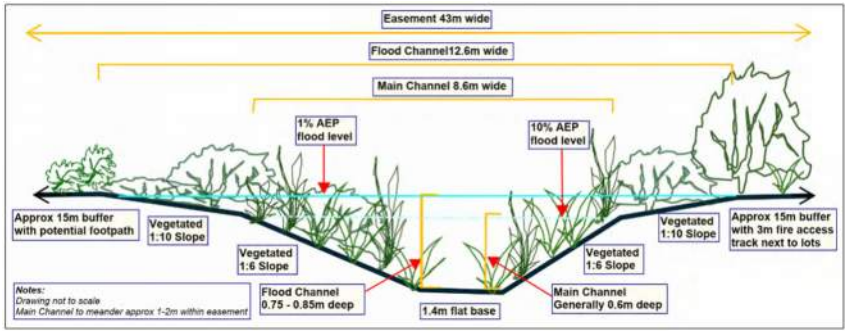


Figure 8 – Living Stream Cross Section

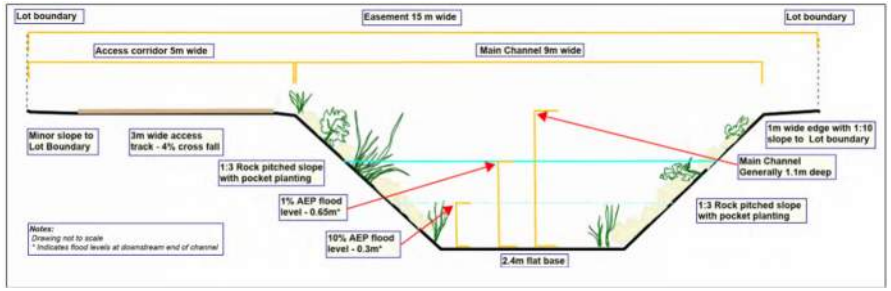


Figure 9 – Rock Lined Channel Cross Section

Further detailed analysis of the proposed stormwater drainage system is detailed in the Local Water Management Report included in Appendix 3.

5.7 Utilities & Infrastructure Servicing

An Engineering Servicing Report has been prepared by Peritas which details that the Structure Plan will have no servicing impediments to the future intended light industrial and with residential development in the Stirling Crescent Precinct to be the subject of further detailed design and consultation with Water Corporation given the level of fill required and potential lack of capacity in the existing sewer network to accommodate a gravity fed reticulated sewer connection. A copy of the Engineering Serving Report is included in Appendix 5 with a summary of the findings below.

Earthworks – site grading and earthworks will be kept to a minimum and be guided by individual servicing requirements (specifically disposal of effluent) in addition to achieving a minimum 0.5m clearance above the 1% AEP flood level of 36m AHD.

Water – all development within the Structure Plan will be serviced by reticulated water. Existing infrastructure will require upgrading to provide the necessary capacity for future development which can be done as part of the subdivision and development process.

Sewer [Hatch Court Precinct] – it is not planned that the Hatch Court Precinct will be provided with a reticulated sewer connection and as such developments will be required to be provided with a secondary treatment system and suitable disposal areas on site for all effluent. The suitability of this was examined in the Site and Soil Evaluation (Appendix 4) which confirmed that onsite treatment and disposal was suitable with the requirements being:

- A land application area of 1000sqm that needs to be setback at least 6m from the Living Stream and wetland areas.
- Disposal can occur via leach drains with flatbed leach drains or concrete leach drains likely to be acceptable.
- Any leach drains should achieve a minimum of 1.5m clearance from groundwater which can be achieved through fill and site specific geotechnical investigations.
- All treatment systems will need to include secondary treatment capabilities.

Sewer [Stirling Crescent Precinct] – the residential development within the Stirling Crescent Precinct is proposed to be connected to reticulated sewer. At present Water Corporation mapping indicates that the Stirling Crescent Precinct is included in a sewer catchment that will gravitate to the regional wastewater pump station located near the corner of Aberneth Road and Worrell Avenue. It is not feasible to connect to this network in the short term with an extension from Abernethy Road via Lewis Road, through the Hatch Court Precinct to Stirling Crescent. As an alternative, connection to and extension of the existing sewer infrastructure in Stirling Crescent (which is located in a separate catchment area) is proposed which will require the filling of the Stirling Crescent Precinct to deliver the sewer at a suitable depth. Preliminary estimates indicate the extent of fill may need to be in the range of 1-1.5m but this will be subject to detailed engineering design as part of the subdivision process. Currently the servicing report refers to sewer as high risk.

Electrical – there is existing overhead and underground power infrastructure within the existing road reserves in the Structure Plan. All lots within the Structure Plan will be served with underground power with the cost of upgrades to be borne by the developer.
Telecommunications – existing telecommunications infrastructure is present with the Hatch Court and Stirling Crescent road reserves with capacity for all lots within the Structure Plan to be service with Telstra telecommunications services.

Gas – existing gas infrastructure exists in both Hatch Court and Stirling Crescent with critical assets within the Stirling Crescent and Kalamunda Road reserves. Works within 15m of these critical assets will require ATCO approval. Given the presence of existing infrastructure reticulated gas services are available to the Structure Plan.

In addition to the availability of services, development within the Structure Plan will require the delivery of a range of common infrastructure which includes:

- **Hatch Court Precinct** – Development within the Hatch Court Precinct is dependent on the coordinated delivery of key road infrastructure which includes the delivery of the new 20m wide RAV4 road connection from Hatch Court through the Adelaide Street and also the upgrade of the existing 18m wide Hatch Court road reserve to a RAV4 standard together with the construction of a cul-de-sac at the Stirling Crescent intersection. Due to the extent of development within this precinct that has already been approved, it is proposed to fund these common infrastructure upgrades via a Special Area Rate (SAR).

- **Stirling Crescent Precinct** – Residential subdivision and development within the Stirling Crescent Precinct is dependent upon the sewer upgrade and extension from the north on Stirling Crescent. The delivery of this road and necessary service extensions may occur on a landowner by landowner

basis or through an alternate funding and delivery model such as a Developer Contribution Plan (DCP).

5.8 Activity Centre and Employment

The Structure Plan does not propose the creation of any new activity centres.

5.9 Schools

The Structure plan does not propose the creation of any new school sites, with the low residential use to be encompassed within existing school catchments.

5.10 Public Transport

The nearest public transport service to the Structure Plan is the 278 bus route which travels between High Wycombe and the Midland Train Station, with bus stops on Kalamunda Road. The other relevant bus route is the 277 bus which also services High Wycombe and the Midland Train Station, the closest stop for this bus route is on Kalamunda Road near Cyrill Road.

5.11 Pedestrian and Cycle Network

There is a 2.4m -wide footpath provided along one side of Adelaide Street, Stirling Crescent and Kalamunda Road. In addition, there is also a 1.8m-wide footpath along Wem Mews and Acton Link. Sealed Shoulders are provided along both sides of Kalamunda Road which connect the Structure Plan to Roe Highway and the Great Eastern Highway Bypass, and both sides of portions of Abernethy Road.

There will be no proposed internal pedestrian/cycle networks within the Hatch Court Precinct since access is mainly by personal vehicles and delivery vehicles. The Stirling Crescent Precinct will provide a 1.8m-wide footpath will be available east of the proposed road, consistent with the existing footpath available along Wem Mews. This will also tie into the existing footpath on Stirling Crescent.

5.12 Bushfire Management

The Bushfire Management Plan (Appendix 2) assessed all vegetation within 150m of the Structure Plan area to determine the applicable bushfire threat on future development. As this is an existing, largely developed, area, the bushfire threat from surrounding areas is limited which is reflected in the post development vegetation classification which is provided in Figure 9 below.

The primary bushfire threat on future development will be the retained vegetation within the two wetland areas and the revegetation/landscaping that will occur within the living stream and the proposed wetland buffers. This contributes to the proposed BAL ratings noted in Figure 10 below with a number of properties being impacted to varying degrees by a BAL-40 and BAL-FZ rating. These lots will ultimately be the subject of a site specific Bushfire Management Plan at the time of subdivision and development which will also be informed by a site specific Wetland Management Plan and Landscaping Plan (associated with the living stream) which will provide clarity on the revegetation outcomes proposed within the wetland buffer and living stream areas.

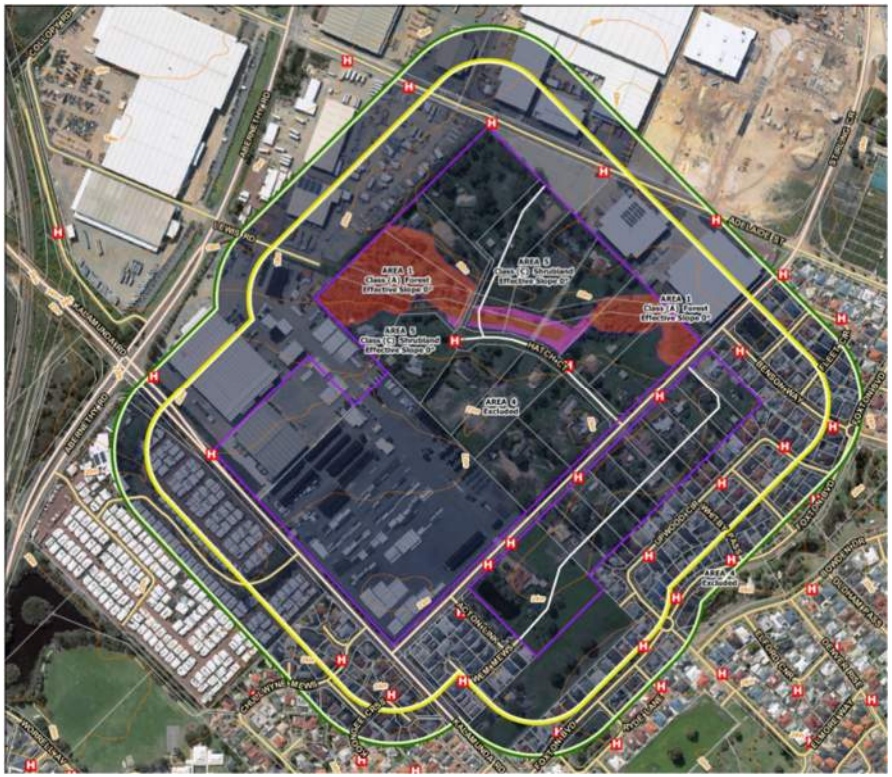


Figure 10 – Post Development Vegetation Classification

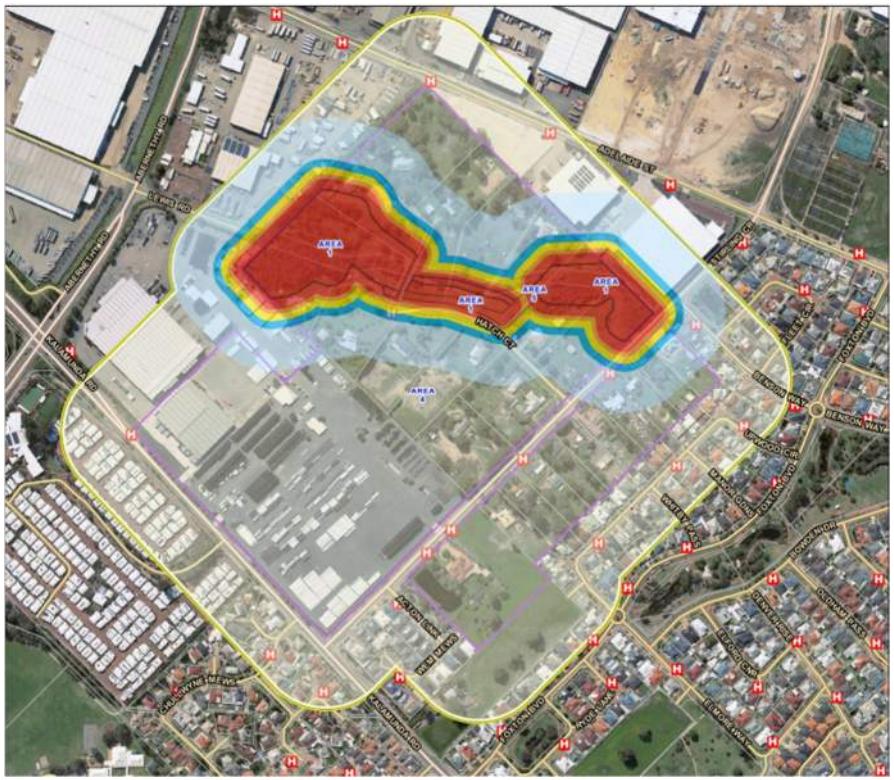


Figure 11 – Post Development BAL Ratings

5.13 Wetland Management

The Structure Plan includes two existing Resource Enhancement Wetlands which were examined in detail as part of the Environmental Assessment Report prepared by PGV (Appendix 6). PGV firstly examined their current classification and mapping and determined that in accordance with the *Wetlands of the Swan Coast Plain Volume 2,* they were suitably classified and the extent of the mapped wetlands was also accurate, which is affirmed by DBCA who recently undertook their own independent assessment of each wetland and modified the mapping to what exists currently.

In accordance with EPA Guidance Statement 33, a generic buffer distance of 50m is recommended for Resource Enhancement Wetlands. However, the Guidance Statement also acknowledges that a site-specific buffer assessment can be undertaken to determine a suitable buffer based on:

- The wetland's values.
- The activities, land uses or development near the wetland, existing and proposed.
- The threats posed by the adjacent activities, land uses or development.

PGV's site specific buffer assessment associated with the two Resource Enhancement Wetlands has determined that a 15m buffer is considered suitable for both wetlands which will result in the following outcomes:

- Reinstatement of natural soils by the removal of fill in the wetland buffers.
- Protection from pollutants to the wetland by retaining the 15mm rainfall event in biogardens and sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities.
- Provision of controlled surface water flows to the wetland to maintain the hydrological regime.
- Reinstatement of native vegetation within the wetland buffer, improving the condition of the wetland.
- Improved fauna habitat values providing a sedgeland for birds, reptiles and amphibians.
- Management of deleterious impacts such as uncontrolled access, rubbish and feral animals.
- Reduced weed vectors to the wetland

There is a minor encroachment proposed into the 15m buffer for the proposed road connecting Hatch Court through to Adelaide Street. However, given the historical use of this land has been for the purposes of a driveway, the proposed road is unlikely to impact the outcomes for the wetland, and the inclusion is considered appropriate.

Due to the classification of the wetlands being 'Resource Enhancement' (as opposed to 'Conservation Category', DBCA is unlikely to assume ownership and management of them and as such a decision on the suitability of the 15m buffer rests with the City of Kalamunda and the WAPC.

A similar situation applies to the tenure of the wetlands which are proposed to be retained in private ownership and integrated into future development within the Hatch Court Precinct. Management of the wetlands will be in accordance with approved Wetland Management Plans which will be a condition of any development or subdivision approval granted for properties impacted by the wetlands.

Further detailed analysis of the existing wetlands and the suitability of the proposed 15m buffer is included in the Environmental Assessment Report in Appendix 6.

5.14 Local Development Plans

It is expected that the WAPC may require, as a condition of subdivision approval, that a local development plan(s) be prepared in accordance with Part 6 of Schedule 2 of the Planning and Development (Local Planning Schemes) Regulations 2015.

The local development plan(s) should address lots:

i. That are irregularly configured.
ii. Abutting public open space.
iii. Where specific vehicle access and egress control is required.

Part Three – Appendices

Prepared for
City of Kalamunda

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PART THREE – APPENDICES

APPENDIX 1

Local Structure Plan



APPENDIX 2

Bushfire Management Plan

Bushfire Management Plan Coversheet

Site address:	Hatch Court High Wycombe						
Site visit / date:	Yes	✓	No		18 July 2025		
Report author or reviewer:	Mike Scott						
Not accredited		Level 1 BAL assessor		Level 2 practitioner		Level 3 practitioner	✓
BPAD accreditation number:	27795	Accreditation expiry – month / year		February	2027		
Bushfire Management Plan - version / date:	V1.0	9 April 2026					

If one or more of the following responses are yes, then these should be automatically referred to DFES.	**Yes**	**No**
Strategic planning is required to address SPP 3.7 and the Guidelines	✓	
The application is a vulnerable land use		✓

If one or more of the following responses are yes, and the decision-maker requires input from DFES, then the application can be referred.	**Yes**	**No**
The BAL rating has been calculated by a method other than Method 1 as prescribed by AS 3959		✓
An outcomes-based approach has been submitted to demonstrate compliance with the bushfire protection criteria		✓

Note: If a subdivision or development application meets all the acceptable solutions and does not otherwise trigger a referral as listed above, seeking advice from DFES on SPP 3.7 or other matters is at the discretion of the decision-maker.

The information provided within this bushfire management plan, to the best of my knowledge, is true and correct:

Dated signature of report author or reviewer:		9 April 2026

BUSHFIRE PRONE PLANNING

Hatch Court Light Industrial Area

Bushfire Management Plan

(PREPARED FOR PLANNING APPLICATION ASSESSMENT PURPOSES)



Compiled in accordance with State Planning Policy 3.7 Bushfire and the Planning for Bushfire Guidelines

Hatch Court
High Wycombe

City of Kalamunda

Structure Plan (lot layout and/or internal road network is known)

9 April 2026

Job Reference No: 250259

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LIMITATIONS AND DISCLAIMER

Management of Risks Associated with Bushfire

For the subject planning proposal, the protection measures to be implemented based on information presented in this Bushfire Management Plan, prepared for land-use planning purposes, are the minimum requirements for management of the relevant risks.

The applied protection measures do not guarantee that during a bushfire event, no buildings or infrastructure will be damaged, persons injured, or fatalities occur - either on the subject site or off the site when evacuating.

This is substantially due to the unpredictable nature of fire weather conditions, bushfire behaviour and the actions of landowners and/or operators – including the correct implementation and ongoing maintenance of required and recommended protection measures (including bushfire resistant construction) and complying with public bushfire warnings and directions from emergency services - over which Bushfire Prone Planning has no control.

Provision of Mapping Data

All maps included herein are indicative in nature and are not to be used for accurate calculations. This data has been prepared for bushfire risk management planning purposes only. All depicted areas, contours and any dimensions shown are subject to survey.

Bushfire Prone Planning does not guarantee that this data is without flaw of any kind and disclaims all liability for any errors, loss or other consequence arising from relying on any information depicted.

When the separate provision of Digital Geographic Data (GIS Files) is an agreed project deliverable, these should be used in conjunction with the relevant information presented in the associated report. Areas and/or Dimensions specified in the report will have priority over digital data transmitted and must correspond to the final 'as-built' location of the applicable buildings, other structures or boundaries.

Bushfire Prone Planning's Liability

All surveys, forecasts, projections and recommendations made in this report, associated with the subject planning proposal, are made in good faith based on information available to Bushfire Prone Planning at the time.

Notwithstanding anything contained therein, Bushfire Prone Planning will not, except as the law may require, be liable for any loss or other consequences whether or not due to the negligence of their consultants, their servants or agents, arising out of the services provided by their consultants.

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STATEMENT OF PURPOSE – THE 'PLANNING' BUSHFIRE MANAGEMENT PLAN

EXPLANATORY INFORMATION

SITE/USE PLANNING

This BMP is produced to present the information necessary for a planning proposal's assessment against the State's bushfire planning requirements. The developed information is to inform and assist decision-making authorities, planners, landowners/proponents and referral agencies in their implementation WA's State Planning Policy 3.7 Bushfire – and where relevant, any supplementary provisions of a local planning scheme or policy.

Policy Document Versions Applied in This BMP	State Planning Policy 3.7 Bushfire (SPP 3.7)	November 2024	Planning for Bushfire Guidelines (supporting SPP 3.7)	November 2024

> The Stated Intent of SPP 3.7 is to *implement effective, risk based land use planning and development which in the first instance avoids bushfire risk, but where unavoidable, manages and/or mitigates the risk to people, property and infrastructure to an acceptable level. The preservation of life and the management of bushfire impact are paramount.*

SITE OPERATIONS

This BMP is not an 'operational' BMP for property and operations management. Such a BMP would apply additional and more specific bushfire protection measures to more comprehensively reduce the level of risks associated with a bushfire event. These being the potential loss of life, injury, or destroyed or damaged assets which results in personal loss and economic loss.

However, this 'planning' BMP does establish certain responsibilities for the implementation and maintenance of the bushfire protection measures that are considered the minimum for bushfire planning decision making.

BUSHFIRE RESISTENT CONSTRUCTION

This 'planning' BMP is not required to consider the requirement to construct certain buildings, in designated bushfire prone areas, to the standard corresponding to the Bushfire Attack Level (BAL) they are subject to. This requirement is dealt with under the State Building Act 2011/Building Regulations 2012 and the referenced Building Code of Australia.

DETERMINED BUSHFIRE ATTACK LEVEL (BAL) RATINGS AND CONSTRUCTION – CAUTION!

For construction purposes a determined (not indicative) BAL rating is required to be known and a BAL Certificate produced for submission with a building application. This establishes the construction design and materials that are to be complied with in accordance with AS 3959 Construction in bushfire prone areas (as amended) and/or NS 300 NASH Standard Steel Framed Construction in Bushfire Areas (as amended).

This 'planning' BMP cannot necessarily determine a BAL rating that will apply to a future building. All variables required for that calculation may not be known at the assessed stage of planning. For example, actual location of a building footprint on a lot and/or any classified vegetation that will remain, at the time of construction, within the lot or on neighbouring lots.

This 'planning' BMP is only required to identify if a viable sized building can be located on a lot and be subject to a BAL rating not exceeding BAL-29, based on certain allowable assumptions. This is a planning requirement not a building requirement and a BAL contour map can be used to illustrate this information as an 'indicative' BAL rating.

Be aware that typically you cannot derive the determined BAL rating for a future building(s) on a specific lot from a BAL contour map (when presented in a BMP prepared for planning approval purposes). This is only possible in limited circumstances.

Planning assessment requirements are different to building assessment requirements. Refer to explanatory information above and Appendix B1 and B2 for additional information.

1 THE PLANNING PROPOSAL

1.1 Details, Plans and Maps

SUBJECT LAND AND PROPONENT (LANDOWNER)		
Address Details	Hatch Court, High Wycombe	
Applicable Local Government	City of Kalamunda	
Proponent	City of Kalamunda	
Entity Commissioning Production of the BMP	Dynamic Planning and Developments	
THE PLANNING PROPOSAL STAGE AND TYPE		
Strategic Planning Document	☐	N/A
Structure Plan	☑	A structure plan, subject to bushfire planning requirements, where the lot layout and/or internal road network is known.
Subdivision Application	☐	N/A
Development Application	☐	N/A
DESCRIPTION		
Proposed Local Structure Plan for the Hatch Court Light Industrial Area (HCLIA) and Stirling Crescent Precinct (SCP). The existing site contains rural residential lots and will be rezoned for light industrial use. Also included are residential (R25) lots along Stirling Crescent.		
Development Type - Establishing the Applicable Bushfire Protection Criteria		
Residential	Construction of, or addition to, a habitable building, including a single house, ancillary dwelling, grouped dwelling, multiple dwelling or mixed used development. Includes an associated Class 10A building or deck (non-habitable) within 6 m of the habitable building. *[Guidelines s6]*	
Commercial and Industrial	Construction of or addition to, a habitable building for commercial or industrial uses. *[Guidelines s7]*	



Figure 1.2

Proposed Structure Plan

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda



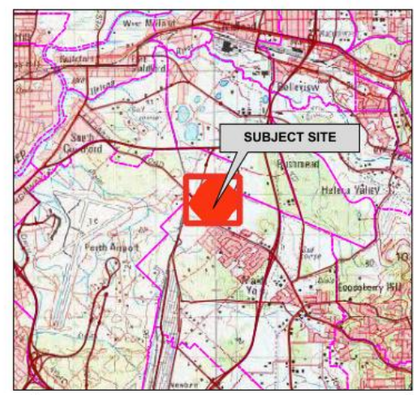
------ LEGEND ------

Subject Site
- Light Industry
- Residential
- Cadastral
- Driveways / Accessways

0 20 40 60 80 100

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 02-04-2026
SCALE (A3): 1 : 4000

BUSHFIRE PRONE PLANNING

Disclaimer and Limitation: This map has been prepared for bushfire management planning purposes only. All depicted areas, contours and any dimensions shown are subject to survey. Bushfire Prone Planning does not guarantee that this map is without flaw of any kind and disclaims all liability for any errors, loss or other consequence which may arise from relying on any information depicted.

Figure 1.3

Location Map

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda

------ LEGEND ------

- Subject Site

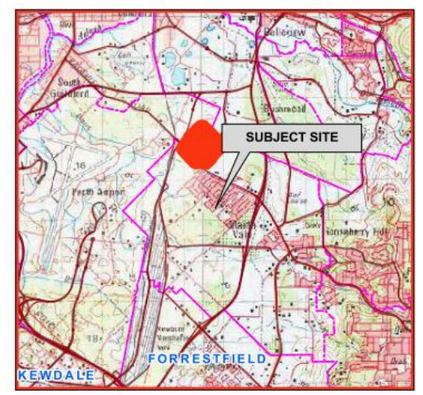
DFES Stations (DFES-023)

- Bush Fire Brigade
- Career Fire Rescue Service
- State Emergency Service Unit
- Volunteer Fire & Emergency Service Unit
- Volunteer Fire & Rescue Service
- Reserves
- Bush Forever Sites

0 1 2 km

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 02-04-2026
SCALE (A3): 1 : 42679

BUSHFIRE PRONE PLANNING

250259 -FIG1.3 LOC Hatch Court Light Industrial Area.qgz

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1.2 The Planning Proposal and its Requirement to Address Bushfire Risk

EXPLANATORY INFORMATION

For the subject planning proposal, the intent of this section is to:

- Identify the relevant statutory bushfire planning provisions that have established its requirement to address bushfire risk;
- Identify the relevant policy/guideline 'triggers' to apply SPP 3.7 Bushfire;
- Identify when a local government, as the decision maker, has established additional 'triggers' to apply defined bushfire planning assessments; and
- Identify the consideration of any relevant exemptions from application of SPP 3.7 Bushfire.

Relevant Terms

Development means the development or use of any land, including (a) any demolition, erection, construction, alteration of or addition to any building or structure on the land (b) the carrying out on the land of any excavation or other works (Planning and Development Act 2005, Part1, s.4; and

Habitable building means a permanent or temporary structure on land that:

(a) is fully or partially enclosed; and

(b) has at least one wall of solid material and a roof of solid material; and

(c) is used for a purpose that involves the use of the interior of the structure by people for living, working, studying or being entertained;

Specified building means a structure of a kind specified in this Scheme as a kind of structure to which this Part applies in addition to its application to habitable buildings.

Development site means that part of a lot on which a building that is the subject of development stands or is to be constructed - Planning and Development (LPS) Regulations 2015, s.78A.

Construction of a building includes the erection, assembly or placement of a building but does not include the renovation, alteration, extension, improvement or repair of a building;

1.2.1 Applied Statutory Bushfire Provisions Requiring a Planning Application

A PLANNING APPLICATION IS TO BE SUBMITTED TO WAPC FOR DETERMINATION	
For the proposed structure plan, WAPC is the decision maker. Determination will be made under the Planning and Development Act 2005, its relevant subsidiary legislation and associated State Planning Policies. As the subject site is wholly or partly within a designated bushfire prone area (Map of Bushfire Prone Areas), due regard must be given to State Planning Policy 3.7 Bushfire.	
A BUILDING OR PLANNING APPLICATION REQUIRES A BAL RATING AND PLANNING APPROVAL The proposed development is for building works subject to the Building Code of Australia and is located in a designated bushfire prone area (Map of Bushfire Prone Areas). One or more of the following applies.: • The local government requires submission of a building permit application under the Building Act 2011 / Building Regulations 2012) including a bushfire attack level (BAL) assessment (and certificate). Applicable when the proposed development is a class of building subject to bushfire construction requirements (i.e. Classes 1, 2, 3 buildings and associated Class 10a, and Class 9 vulnerable use buildings under the Building Code of Australia).	N/A

• The local government has a responsibility under the Planning and Development (LPS) Regulations 2015 to ensure strategic planning proposals, structure plans and development applications address SPP 3.7 and the Guidelines. • The local government, in accordance with its local planning scheme, is responsible to administer the relevant development controls, with due regard to SPP 3.7 and the Guidelines.	
WHERE PRE-DEVELOPMENT BUSHFIRE ATTACK LEVEL (BAL) OF RELEVANT BUILDINGS IS BAL-40 OR BAL-FZ The Deemed Provisions in Schedule 2 of the Planning and Development (Local Planning Schemes) Regulations 2015, Part 10A – Bushfire risk management, establish: 1. If the proposed development is: (a) The construction or use, or construction and use, of a single house or ancillary dwelling on a lot or lots with a total area of 1,100 m^2 or more; or (b) The construction or use, or construction and use, of (i) a habitable building other than a single house or ancillary dwelling; or (ii) a specified building; and (c) Is not the use of a dwelling as hosted or unhosted short-term rental accommodation (STRA) which is specifically excluded; and 2. The development site is wholly or partly within a designated bushfire prone area (Map of Bushfire Prone Areas), requiring the developer to have prepared a BAL assessment for the development site: then 3. Where the pre-development (before the establishment of an APZ), calculated bushfire attack level of the development site is BAL-40 or BAL-FZ, then the developer must have development approval to commence any development on the development site.	N/A
Assessment Supporting Details: The proposed structure plan is within Area 1 of the designated Bushfire Prone Area map.	

1.2.2 Applied Triggers to Apply State Planning Policy 3.7 Bushfire

EXPLANATORY INFORMATION

State Planning Policy 3.7 Bushfire (SPP 3.7) provides broad objectives and high-level guidance for how planning proposals and development applications within bushfire prone areas should be considered. Implementation is supported by more detailed instructions within the *Planning for Bushfire Guidelines*.

The following table identifies the guidance that has resulted in the planning proposal being required to apply SPP 3.7.

Inconsistent Information (as of December 2024):

- There are inconsistences between the provisions of the applicable legislation (Planning and Development (LPS) Regulations 2015), the clauses of the associated policy (SPP 3.7 Bushfire) and its associated guidance (Planning for Bushfire Guidelines Nov. 2024).
- This has resulted in inconsistencies in the establishment of the 'triggers' to lodge proposals, plans and applications for planning approval sourced from these documents.

Until legislation/policy/guideline amendments are completed, the advice from WAPC/DPLH is that the decision maker should apply SPP 3.7 and the Guidelines as they deem necessary. *(Source: Explanatory Note SPP 3.7, DPLH, 25/11/24)*

Bushfire Prone Planning's Current Approach:

- To apply the 'triggers' for application of SPP 3.7/Guidelines in accordance with the current version of the Guidelines (Planning for Bushfire Guidelines, November 2024), in Sections 6, 7 and 8 - as this is best aligned with the current version (3 Nov 2024) of the LPS Regulations 2015; unless
- The relevant decision maker has determined, and confirmed in writing to the proponent, that SPP 3.7/Guidelines is to be applied.

SPP 3.7 AND THE GUIDELINES - ESTABLISHING THE NEED TO GIVE DUE REGARD TO SPP 3.7		APPLICABLE
1	THE LAND SUBJECT TO THE PLANNING PROPOSAL IS:	
	Designated bushfire prone and 'Area 1 (Urban)' on the Map of Bushfire Prone Areas (refer to Figure 1.4); or	Yes
	Designated bushfire prone and 'Area 2' on the Map of Bushfire Prone Areas (refer to Figure 1.4).	No
AND		
2	THE PLANNING PROPOSAL WILL:	
	Result in the intensification of development (or land use); or	Yes
	Result in an increase of visitors, residents or employees; or	Yes
	Adversely impact or increase the bushfire risk to the subject or surrounding site(s).	No
AND		
3	THE PLANNING PROPOSAL IS A:	
	(Source: SPP 3.7, Part 4) A structure plan (where lot layout and/or the internal road network is known), that has or will have the subject site exposed to a Bushfire Attack Level (BAL) rating above BAL-LOW.	

Assessment Supporting Details:

The structure plan is within a built out urban/ suburban area but has classifiable areas of bushfire prone vegetation within its boundaries.

1.2.3 Applied Triggers Established by the Local Government as the Decision Maker

EXPLANATORY INFORMATION

The applicable local government is required to give due regard to the following:

The Deemed Provisions in Schedule 2 of the Planning and Development (Local Planning Schemes) Regulations 2015, where:

- Part 2 cl. 3 provides for the local government to prepare a local planning policy; and
- Part 9 cl. 67(q & r) establishes the local government must give due regard to:
  - The suitability of the land for the development taking into account the possible risk of flooding, tidal inundation, subsidence, landslip, bush fire, soil erosion, land degradation or any other risk.
  - The suitability of the land for the development taking into account the possible risk to human health or safety.

Under these general provisions, in addition to the specific statutory bushfire provisions identified in Section 1.2.1, the local government may have bushfire planning policy/information (under the local planning scheme) which is to be addressed in this BMP. This is identified below as relevant.

ESTABLISHING THE NEED TO APPLY LOCAL GOVERNMENT DEFINED BUSHFIRE PLANNING REQUIREMENTS	
Identification of the Relevant Instrument	No indication of applicability from the local government authority.

1.2.4 Identified Exemptions

EXPLANATORY INFORMATION

The following situations provide for an exemption from the application of SPP 3.7/Guidelines. They are established by the stated sources and are presented below as:

- Evidence they have been considered when relevant; and
- Justification for the application of SPP 3.7/Guidelines despite a relevant exemption applying to part or all of the planning proposal.

EXEMPTION SCENARIOS	APPLICABLE
(Source: LPS Regulations 2015 Part 10A - Bushfire risk management) Does not apply to land where there is no existing local planning scheme or where a local planning scheme has ceased to have legal effect.	N/A
(Source: Guidelines s1.2.1) For a structure plan or subdivision application, for proposed lot(s) that: • Are not designated as bushfire prone; • Or where there is no increase in the development potential and therefore no intensification of land use or bushfire risk, such as a boundary realignment, that does not restrict the ability to establish or maintain an APZ; and • does not restrict vehicular access to any existing or future habitable building.	N/A
(Source: Guidelines s1.2.1) - For incidental non- habitable buildings or structures located not less than six metres from the habitable building, including but not limited to private garages, carports, patios, storage sheds, outbuildings, swimming pools, spa pools and fences.	N/A
(Source: Guidelines s1.2.1) - For a change of use, minor renovations, extensions, alterations, improvements or repair of an existing habitable building where: • The application does not result in an increase of occupants onsite; and/or • There is no increase in the bushfire risk, such as an extension being further away from the bushfire hazard, or the extension does not restrict vehicular access or the provision of water for the development.	N/A

Assessment Supporting Details:

None required.

Figure 1.4

Bushfire Prone Area

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda

SUBJECT

------ LEGEND ------

- Subject Site

Bushfire Prone Area 2024 OBRM_023

- Bushfire Prone Area 1
- Bushfire Prone Area 2

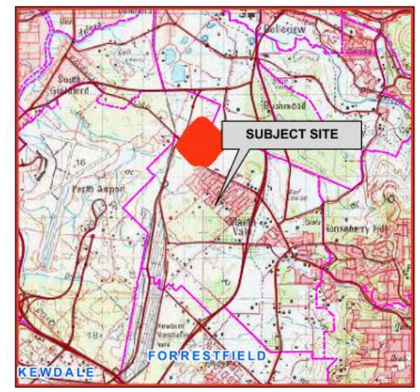
DFES Stations (DFES-023)

- State Emergency Service Unit
- Volunteer Fire & Rescue Service
- Reserves
- Bush Forever Sites

0 1 2 km

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 02-04-2026
SCALE (A3): 1 : 35000

BUSHFIRE PRONE PLANNING

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1.3 Required 'Bushfire Planning' Assessments and Documents

INFORMATION PRESENTED IN THIS 'PLANNING' BMP (OR THE BEP) - PROVIDED TO ACCOMPANY THE PROPONENT'S PLANNING SUBMISSION						
The requirements are established by SPP 3.7 Part 4, Guidelines Section 1.2, 4.4, 5.5, 6.4, 7.2, 8.3 and A1.2. The green highlighted column identifies the required information for the subject planning proposal.		Strategic Planning Document		Structure Plan / Subdivision Application		Development Application
Required Information	Details	Map of Bushfire Prone Areas Designation				
		Area 1 (Urban)	Area 2	Area 1 (Urban)	Area 2	Areas 1 & 2
Environment - Identification of environmental, biodiversity or conservation values on subject site(s)	Presented in the BMP. Identifies how proposal siting and design avoids and/or minimises clearing of native vegetation in applying required bushfire protection measures.	BUSHFIRE PLANNING ASSESSMENTS ARE NOT REQUIRED	✓	✓		✓
BLA - Broader Landscape Assessment (see note below)	Presented in the BMP. Considers subject site suitability based on exposure to bushfire hazards, potential for landscape scale bushfire, road network and suitable evacuation destinations.		✓	-		-
BHL - Bushfire Hazard Level Assessment (pre-development)	Presented in the BMP. Can include detail of treatments required to achieve BHL of moderate and/or low.		✓	-		-
BAL - Bushfire Attack Level Assessment	Presented in the BMP in BAL contour map format as a requirement and in table format as an additional option.		-	✓		-
	Presented in the BMP in table format and/or BAL contour map format – dependant on which is more efficient and effective at presenting the results (e.g. BAL contour map for multiple buildings).		-	-		✓
BPC - Assessment against the relevant Elements (E1 – E4) of the Bushfire Protection Criteria	Presented in the BMP. Strategic planning will necessarily focus on Element 1: Location. Can demonstrate compliance using acceptable solutions and/or an outcomes-based approach.		✓	✓ **Excluding E1**		✓ **Excluding E1**
BEP - Bushfire Emergency Plan	For vulnerable land uses only. Provided as a separate document or an addition / modification to an existing BEP or site Emergency Management Plan.		-	-	-	-
LMP – Landscape Management Plan	For vulnerable land uses only. Provided as a separate document or an addendum to the BMP.					
Note: Where a relevant planning proposal (e.g. subdivision) was previously assessed and approved under the SPP 3.7/Guidelines 2015, it is likely that a BLA will not be required. Also, if an application (e.g. subdivision) is compliant with a structure plan and/or a local planning scheme amendment, which were assessed and approved under the 2015 SPP/Guidelines, it is likely that a BLA will not be required. Confirmation from a relevant DPLH officer may be required (DPLH advice to BPP 20/2/2025).						

1.4 Other Documents Relevant to Preparing the BMP

EXPLANATORY INFORMATION
This section identifies any known assessments, reports or plans that have been conducted and prepared previously, or are being prepared concurrently, and are relevant to the subject planning proposal. They may have implications for the assessment of bushfire hazard threats and the identification and implementation of the bushfire protection measures that are established by this BMP.

RELEVANT DOCUMENTS					
Document	Relevant	Exists	To Be Concurrently Developed	Copy Provided by Proponent / Developer	Title
Structure Plan	No	-	-	-	-
Bushfire Management Plan	No	-	-	-	-
Preliminary bushfire advice (may include a BAL contour map)	No	-	-	-	-
Bushfire Emergency Plan	No	-	-	-	-
Bushfire Risk Report	No	-	-	-	-
Environmental Asset or Vegetation Survey	Yes	-	-	-	-Hatch Court Light Industrial Area Environmental Assessment Report (PGV January 2026)
Refer to Section 2.1 for details.					
Landscape Management Plan	No	-	-	-	-
Revegetation Plan	No	-	-	-	-

2 ENVIRONMENTAL CONSIDERATIONS – NATIVE VEGETATION

EXPLANATORY INFORMATION

Some bushfire prone areas also have high biodiversity values. SPP3.7 objective 5.4 prioritises the retention of native vegetation for biodiversity conservation, environmental protection and landscape amenity.

Clearing or modification of native vegetation for the purpose of land use or development is assessed under **State Planning Policy 2: Environment (SPP 2), State Planning Policy 2.8: Bushland policy for the Perth Metropolitan Region (SPP 2.8)** and relevant environmental legislation. A key objective of these polices is to avoid development that may result in unacceptable environmental damage.

Any 'modification' or 'clearing' of vegetation to reduce bushfire risk is considered 'clearing' under the ***Environmental Protection Act 1986*** (EP Act) and requires a clearing permit under the ***Environmental Protection (Clearing of Native Vegetation) Regulations 2004*** (Clearing Regulations) – unless for an exempt purpose.

Clearing native vegetation is an offence, unless done under a clearing permit or the clearing is for an exempt purpose. Exemptions are contained in the EP Act or are prescribed in the Clearing Regulations (note: these exemptions do not apply in environmentally sensitive areas).

The ***Department of Water and Environmental Regulation*** (DWER) is responsible for issuing 'clearing' permits and the framework for the regulation of clearing. Approvals under other legislation, from other agencies, may also be required, dependent on the type of flora or fauna present.

Local Planning Policy or Local Biodiversity Strategy: Natural areas that are not protected by the above Act and Regulation (or any other National or State Acts) may be protected by a local planning policy or local biodiversity strategy. Permission from the local government will be required for any modification or removal of native vegetation in these Local Natural Areas (LNA's). Refer to the relevant local government for detail.

For further Information refer to Native vegetation clearing permits | Western Australian Government, the Planning for Bushfire Guidelines (as amended) and the Bushfire and Vegetation Factsheet - WAPC, Dec 2021.

2.1 Biodiversity or Conservation Values Identified

EXPLANATORY INFORMATION

The required information, relevant to bushfire planning and informing the production of this BMP, is sourced and presented as indicated below.

Note that where a 'desktop' assessment has been conducted, this should not be considered a replacement for a full Environmental Impact Assessment. It is a summary of potential biodiversity or conservation values at the subject site, inferred from information contained in public available datasets and/or reports, which are only current to the date of last modification.

The information provided in the BMP should be considered indicative where the subject site has not previously been subject to a site-specific environmental assessment by an appropriate professional.

The required information is sourced from the environmental/planning consultant report developed for the subject site and provided to the bushfire consultant (details below when applicable). The information it contains is not repeated in this BMP as it will accompany the planning submission. The implications for the subject planning proposal and this BMP are stated below when relevant.	Yes - Fully
Hatch Court Light Industrial Area, High Wycombe – Environmental Assessment Report (PGV Environmental 09 Jan 2026).	
The required information is sourced by the bushfire consultant as a 'desktop' assessment from publicly available data bases and/or a local government's local biodiversity strategy or local planning strategy. When applicable, this information is presented on the following pages of this BMP.	Yes - Partly

IDENTIFICATION OF RELEVANT BIODIVERSITY OR CONSERVATION VALUES							
Dataset	Relevant to Subject Planning Proposal	Influence on Bushfire Threat Levels and / or Application of Bushfire Protection Measures	Information Source(s) Applied				Further Action Required by Proponent
			WA Govt. Agency Dataset (ID)		Landowner or Developer Statements	Environmental Asset or Vegetation Survey Report	
Department of Biodiversity, Conservation and Attractions (DBCA) Datasets							
Conservation Category Wetlands and Buffer (geomorphic wetlands – relevant area)	Yes	Yes - Significant	☐	DBCA-045	☐	☐	Confirm with relevant agency
RAMSAR Sites (wetlands of international importance)	N/A	-	☐	DBCA-010	☐	☐	None
Threatened and Priority Flora	N/A	-	Restricted Scale of Data Available (security)	DBCA-036	☐	☐	None
Threatened Ecological Communities	N/A	-		DBCA-038	☐	☐	None
Legislated Lands and Waters (national/conservation parks, nature/crown reserves, state forest)	N/A	-	☐	DBCA-011	☐	☐	None
Department of Planning, Lands and Heritage (DPLH) Datasets							
Bush Forever Areas 2000	N/A	-	☐	DPLH-019, 022 and MRS Bush Forever	☐	☐	None
Department of Water and Environmental Resources (DWER) Datasets							
Clearing Regulations – Environmentally Sensitive Areas	N/A	-	☐	DWER-046	☐	☐	None
Swan Bioplan Regionally Significant Natural Areas 2010	N/A	-	☐	DWER-070	☐	☐	None

ADDITIONAL INFORMATION

As per the Figure 1 and the environmental report some remnant wetland is present within the subject plan.

This wetland will have a 15m buffer which will be allowed to revegetate. The living stream will also contain native vegetation which has been Classified as Class A Forest and Class C Shrubland.

Figure 2.1

Environmental Considerations

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda

SUBJECT SITE

GREAT EASTERN HIGHWAY BYPA
Waterhall Park
ABERNETHY RD
KALAMUNDA RD
STIRLING CR
ROE HWY
Robert Hewson Park
Ollie Worrell Reserve
Matthew Gibney Catholic Primary School
Emms Reserve
High Wycombe Village Shopping Centre
Gladys Newton Park
Viv Robinson Park
DUNDAS RD
Newburn Road Shopping Centre
Progress Reserve
Maida Vale Shopping Centre
High Wycombe Primary School
MacKenzie Park

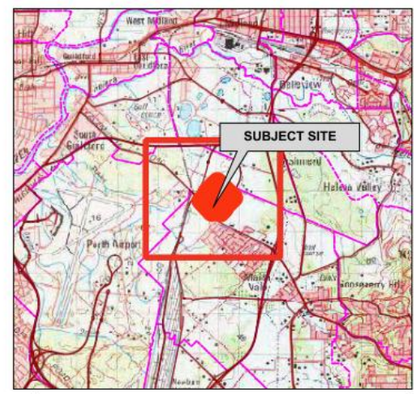
------ LEGEND ------

- Subject Site
- Reserves
- Bush Forever Sites

0 250 500 m

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 09-04-2026
SCALE (A3): 1 : 10000

BUSHFIRE PRONE PLANNING

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2.2 Response of the Planning Proposal to Protection of Native Vegetation

The protection of native vegetation is to be prioritised by avoiding areas that would require clearing or modification of native vegetation, specifically for the purpose of bushfire mitigation (BMP Manual, November 2024 DPLH).

SOLUTIONS APPLIED TO MINIMISE NATIVE VEGETATION REMOVAL / MODIFICATION	
Clearing and/or modification of native vegetation is proposed and necessary.	Likely
Proposed Clearing: To establish future Asset Protection Zones some native vegetation outside the wetland buffer may need to be managed.	
Conservation Response	
The proposal reserves native vegetation for conservation, recreation or environmental protection purpose. These can include ecological linkage, local natural area, waterway, or foreshore area or wetland buffer.	Considered and applied
The proposal will retain the native wetland which will include a 15m buffer.	
Siting / Design / Construction Responses	
Reduction in the proposed intensification of land use or development potential.	N/A
Containing or clustering areas of intensification of land use to reduce clearing requirements.	N/A
Consideration of locating proposed development to have greater initial vegetation separation distances from bushfire hazards by utilising non-vegetated interfaces.	Considered and applied
Assessment Supporting Details: Future development will not be permitted within the 15m wetland buffer.	
Modification or redesign of the proposed areas of intensification of land use to avoid areas with high environmental, biodiversity or conservation values.	Considered and applied
Assessment Supporting Details: Proposed road network does not impact an existing native vegetation.	
The proposal has applied a reduction in the intensification of land use or development potential (e.g. reduced lot yield or smaller building footprints), to ensure the retention of greater areas of native vegetation while achieving the required vegetation separation distances to limit exposure to unacceptable levels of potential bushfire impact.	N/A
The proposal situates required non-vegetated elements (e.g. footpaths, paved areas, roads, parking, open drainage channels, and major services delivery installed in common corridors), between bushfire hazards and elements at risk – to effectively achieve required vegetation separation distances with less vegetation clearing and/or modification.	N/A
The proposal applies building envelopes, and these have located to minimise the requirement to clear and/or modify native vegetation.	N/A

The proposal utilises the clustering habitable buildings to reduce requirements for native vegetation clearing and/or modification.	N/A
The proposal aligns roads and pathways to work around trees and other vegetation, preserving their ecological values.	N/A
The proposal establishes requirements for the construction of building(s) to satisfy the requirements corresponding to higher BAL ratings to ensure a reduced vegetation separation distance requirement.	N/A

3 THE BUSHFIRE HAZARD – POTENTIAL IMPACT - LANDSCAPE AND VEGETATION DATA

3.1 Bushfire Attack Level (BAL) Assessment Summary (Contour Map Format)

EXPLANATORY INFORMATION

Caution! Future building works require a 'determined' BAL rating for building permit applications. When a BAL contour map is being used for planning assessment purposes, (as opposed to a building assessment purpose), the required 'determined' BAL rating typically is not able to be derived from the map (there are only limited scenarios where this is possible).

The BAL ratings identified from the map will more likely be only 'indicative' of what can be achieved – with planning compliance for this factor being achieved when BAL-29 is indicated.

Otherwise, an additional assessment of the site data for building application purposes is required, and potentially approval will need to be obtained for native vegetation modification and/or removal from the relevant authority.

Refer to Appendix B2 for additional information and guidance regarding interpretation of the BAL Contour Map.

3.1.1 BAL Determination Methodology and Location of Data and Results

LOCATION OF DATA & RESULTS					
BAL Determination Methodology		Location of the Site Assessment Data			Location of the Results
AS 3959:2018	Applied to Assessment	Classified Vegetation and Topography Map(s)	Calculation Input Variables		Assessed Bushfire Attack Levels and/or Radiant Heat Levels
			Summary Data	Detailed Data with Explanatory and Supporting Information	
Method 1 (Simplified)	Yes	Figure 3.1	Table 3.2	Appendix A1	Table 3.1 Table 3.3 / BAL Contour Map
Method 2 (Detailed)	No	-	-	-	

3.1.2 BAL Ratings Derived from the Contour Map

Table 3.1: Indicative and determined BAL(s) for future buildings/structures on the proposed lots.

BUSHFIRE ATTACK LEVEL FOR FUTURE BUILDINGS / STRUCTURES ON STATED LOT [1]		
Lot No.	Future Buildings / Structure	
	Indicative BAL [2]	Determined BAL [2]
Light Industrial Area	BAL-29	N/A
Residential Lots	BAL-29	N/A
[1] The assessment data used to derive the BAL ratings is sourced from Table 3.1 and Figure 3.2 'BAL Contour Map'. [2] Refer to the start of Section 3 for an explanation of indicative versus determined BAL ratings.		

3.1.3 Site Assessment Data Applied to Construction of the BAL Contour Map(s)

RELEVANT CLASSIFIED VEGETATION	
Identification of Classified Vegetation that is Relevant to the Production of the BAL Contour Map(s)	Relevant Vegetation Map
The relevant vegetation will be all areas of classified vegetation that exist at the time of the site assessment – both within the subject site (onsite) and external to the subject site (offsite).	Figure No.3.1
The relevant vegetation for the post-development BAL contour map will be any area of classified vegetation - both within the subject site (onsite) and external to the subject site (offsite) - that will remain at the intended end state of the subject development once earthworks, any clearing and/or landscaping and re-vegetation have been completed.	Figure No.3.1.1
Supporting Assessment Details: None required.	

Table 3.2: Calculation inputs applied to deriving the vegetation separation distances corresponding to different levels of potential radiant heat transfer.

DATA APPLIED TO CALCULATE THE SITE SPECIFIC VEGETATION SEPARATION DISTANCES CORRESPONDING TO POTENTIAL RADIANT HEAT TRANSFER LEVELS [1]													
Applied BAL Determination Method		METHOD 1 - SIMPLIFIED PROCEDURE (AS 3959:2018 CLAUSE 2.2)											
The Calculation Input Variables - Corresponding to the Applied BAL Determination Method [2]													
Methods 1 and 2		Method 1			Method 2								
Vegetation Classification		FDI	Effective Slope		Site Slope	FFDI or GFDI	Flame Temp.	Elevation of Receiver	Flame Width	Fireline Intensity	Flame Length	Modified View Factor	
			Applied Range	Measured									
Area	Class		degree range	degrees	degrees		K	metres	metres	kW/m	metres	% Reduction	
1	(A) Forest	80	Upslope or flat 0	flat 0									
2	(B) Woodland	80	Upslope or flat 0	flat 0									
3	(G) Grassland	80	Upslope or flat 0	flat 0									
4	Excluded cl 2.2.3.2(e & f)	N/A	N/A	-									
5	(C) Shrubland	80	Upslope or flat 0	flat 0									

Note 1: The values used to indicate levels of potential radiant heat transfer (from fire in bushfire prone vegetation to exposed elements at risk), will be stated in subsequent tables as either as a bushfire attack level (BAL) and/or as kilowatts per square metre (kW/m2), as relevant to the application of the value and the type and use of the element at risk.

Note 2: All data and information supporting the determination of the classifications and values stated in this table is presented in Appendix A. Where the values are stated as 'default' these are either the values stated in AS 3959:2018, Table B1 or the values calculated as intermediate or final outputs through application of the equations of the AS 3959:2018 BAL determination methodology. They are not values derived by the assessor.

Table 3.3: Vegetation separation distances corresponding to the stated levels of potential radiant heat transfer.

THE CALCULATED (SITE SPECIFIC) VEGETATION SEPARATION DISTANCES CORRESPONDING TO THE STATED LEVEL OF POTENTIAL RADIANT HEAT TRANSFER (METRES) [1]									
Vegetation Classification		Maximum Radiant Heat Transfer (Flux)							
		>40 kW/m^2	40 kW/m^2	29 kW/m^2	19 kW/m^2	12.5 kW/m^2	N/A [2]	10 kW/m^2	2 kW/m^2
		Bushfire Attack Levels							
Area	Class	BAL-FZ	BAL-40	BAL-29	BAL-19	BAL12.5	BAL-LOW		
1	(A) Forest	<16	16-<21	21-<31	31-<42	42-<100	>100		
2	(B) Woodland	<10	10-<14	14-<20	20-<29	29-<100	>100		
3	(G) Grassland	<6	6-<8	8-<12	12-<17	17-<50	>50		
4	Excluded cl 2.2.3.2(e & f)	-	-	-	-	-	-		
5	(C) Shrubland	>7	7-<9	9-<13	13-<19	19-<27	>100		

Note 1: The calculated results are illustrated in Figure 3.2 as a BAL Contour Map and/ or additional defining lines as necessary. All applied calculation input variables are presented in Table 3.2. A copy of the radiant heat calculator output for each area of classified vegetation is presented in Appendix A3.

Note 2: The BAL-LOW rating does not represent a maximum level of radiant heat transfer. The rating is applied when the separation distance is at least 100m from all classified vegetation except Grassland, for which 50m applies.

Figure 3.1

Classified Vegetation & Topography (Existing)

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda

AREA 1
Class (A) Forest
Effective Slope 0°

AREA 2
Class (B) Woodland
Effective Slope 0°

AREA 3
Class (G) Grassland
Effective Slope 0°

AREA 4
Excluded

------ LEGEND ------

- Subject Site
- Cadastral
- Photos and Direction
- Hydrants
- 150m Assessment Area

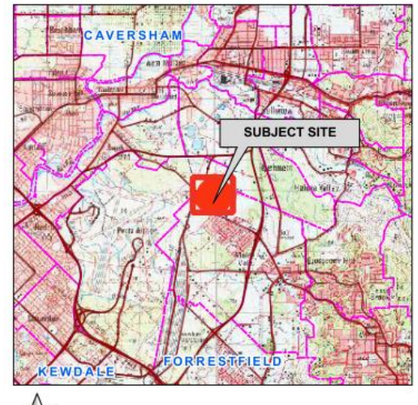
Classified Vegetation

- Forest
- Woodland
- Grassland
- Excluded 2,2,3,2 (e)

0 20 40 60 80 100

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 02-04-2026
SCALE (A3): 1 : 4000

BUSHFIRE PRONE PLANNING

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Figure 3.1.1

Classified Vegetation & Topography (Post Dev)

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda

AREA 1
Class (A) Forest
Effective Slope 0°

AREA 5
Class (C) Shrubland
Effective Slope 0°

AREA 4
Excluded

------ LEGEND ------

- Subject Site
- Cadastral
- Hydrants
- Driveways / Accessways
- 150m Assessment Area
- 100m Assessment Area

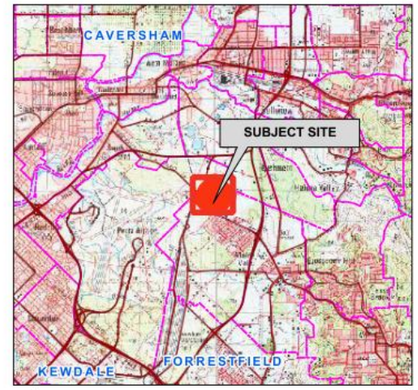
POSTVEG

- Forest
- Shrubland
- Excluded 2,2,3,2 (e)

0 20 40 60 80 100

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 02-04-2026
SCALE (A3): 1 : 4000

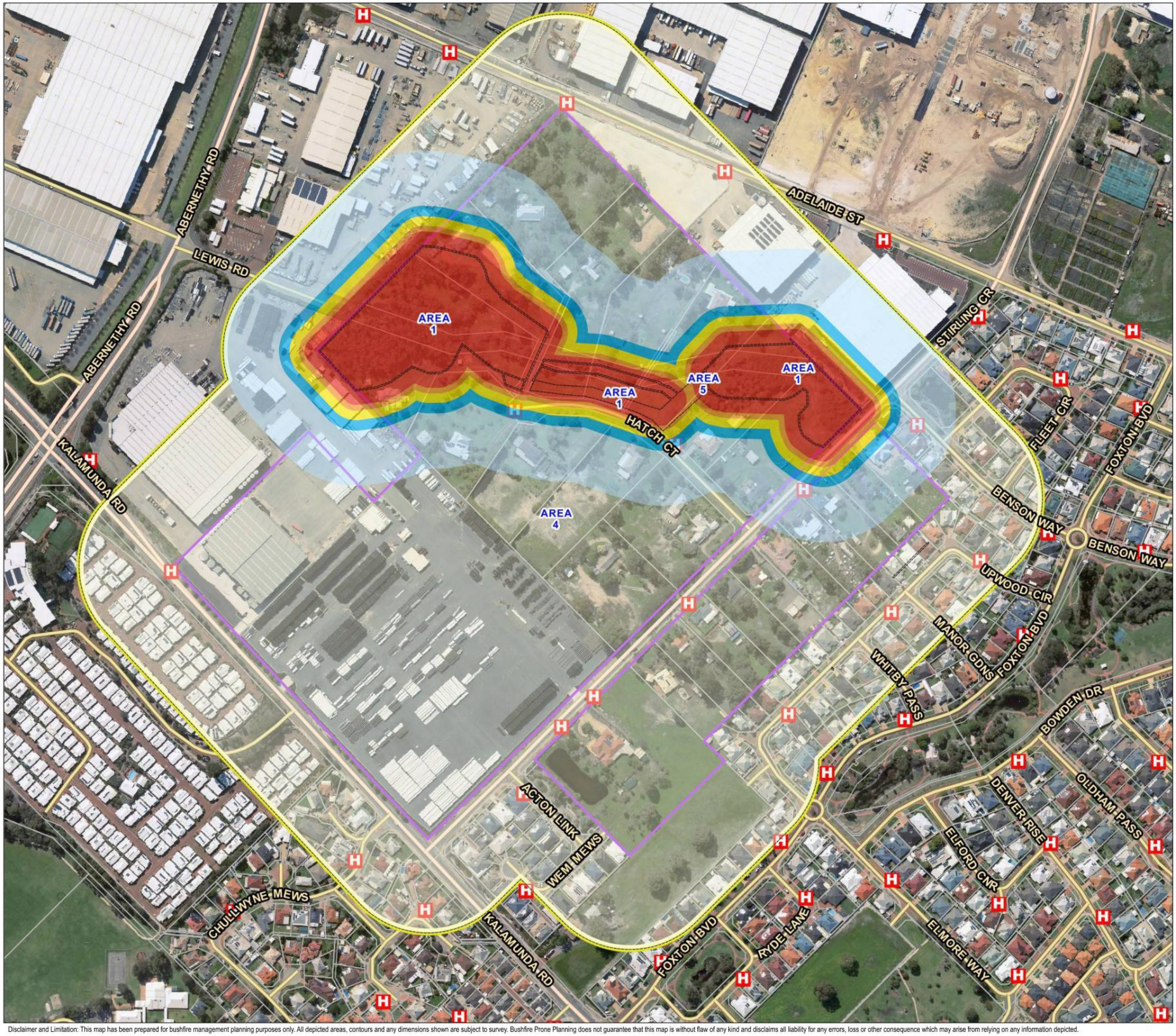
BUSHFIRE PRONE PLANNING

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Figure 3.2

BAL Contour Map

Various Lots
Hatch Court & Stirling Crescent
High Wycombe
City of Kalamunda



------ LEGEND ------

- Subject Site
- Cadastral
- Hydrants
- 100m Assessment Area

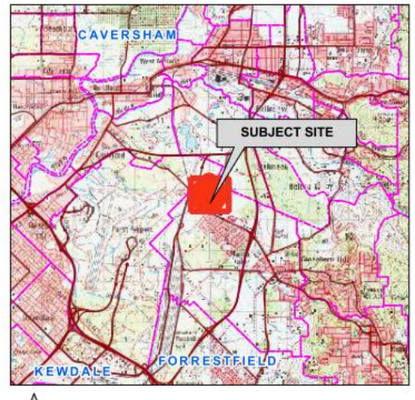
Bushfire Attack Levels

- BAL-FZ
- BAL-40
- BAL-29
- BAL-19
- BAL-12.5
- BAL-LOW
- BAL VEG Edge and Label

0 20 40 60 80 100

Metres

------ LOCALITY ------



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Merctaor Units: Metre
Map by: 02-04-2026
SCALE (A3): 1 : 3750

BUSHFIRE PRONE PLANNING

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4 IDENTIFICATION OF BUSHFIRE HAZARD ISSUES

EXPLANATORY INFORMATION

Section Content Guidance (DPLH/WAPC)

'Bushfire Hazard Issues' is a section of the Bushfire Management Plan (BMP) in accordance with guidance presented in the BMP Manual (DPLH/WAPC, November 2024).

The Manual indicates the intent of applying its guidance with the following statement:

> *"The standardisation of BMP's improves efficiencies in decision making at local and state government level by promoting the clear and succinct presentation of information required under SPP 3.7 and the Guidelines."*

Bushfire Prone Planning's Approach

In complying more broadly with the above efficiency intentions, Bushfire Prone Planning (BPP) will also seek to:

- Improve the efficiency of BMP development by its consultants; and
- Ensure the readability and understanding of the BMP by persons who will need to read the document.

Key to achieving these efficiency and comprehension outcomes is the design and quality of the explanatory and assessment content of the BMP. This includes the effective use of Section 4 by not repeating content and assessment summaries that are presented in other sections of the BMP.

Typically, bushfire hazard issues will be appropriately addressed in Sections 2 and 3 of the BMP which identify:

- The required environmental considerations; and
- The assessment of potential levels of bushfire impact and their justification.

Limitation on Section 4 Content

As a consequence of the above considerations, content in this section will be limited to raising decision maker awareness regarding additional site specific matters that otherwise may not be a component of the standard BMP bushfire hazard assessment.

Additional information is provided on an 'as necessary' basis for the following scenarios:

1. When local governments have provided jurisdiction specific bushfire hazard assessment and/or management guidance that needs to be addressed. How these have been considered by the bushfire consultant in conducting their bushfire hazard assessments will be discussed.
2. When, due to difficult site conditions, additional explanation and justification of the bushfire hazard assessment process undertaken by the bushfire consultant would assist decision making.
3. Matters are identified when they are either not considered or are only partially considered, under the bushfire hazard assessments conducted in accordance with SPP 3.7/Guidelines. These include matters that would potentially reflect poorly on the bushfire consultant's professional integrity if ignored.

For the subject planning proposal, has the bushfire practitioner determined (in accordance with the explanatory information above), that presenting additional information in this section is necessary?	No
Additional bushfire hazard information is provided below for the relevant scenarios.	N/A

5 ASSESSMENT AGAINST THE BUSHFIRE PROTECTION CRITERIA (BPC)

EXPLANATORY INFORMATION

State Planning Policy 3.7 Bushfire (SPP 3.7) establishes policy outcomes (cl. 6) that "specify the role of planning and development in contributing to the overall objectives" of the policy.

The policy outcomes are incorporated into the four elements of the bushfire protection criteria established in the Planning for Bushfire Guidelines (Guidelines).

CONSEQUENTLY, TO SATISFY THE OBJECTIVES AND POLICY OUTCOMES OF SPP 3.7, A PLANNING PROPOSAL IN A DESIGNATED BUSHFIRE PRONE AREA IS REQUIRED TO DEMONSTRATE THAT COMPLIANCE WITH THE BUSHFIRE PROTECTION CRITERIA CAN BE ACHIEVED.

The Guidelines in Section 2.2.1 establish two pathways to demonstrate compliance:

1. The deemed to comply pathway - in which compliance is able to be demonstrated with all relevant acceptable solutions associated with each Element, for a specific planning stage or use; or
2. An alternative pathway when all relevant acceptable solutions cannot be fully achieved, which utilises either:
    (a) The outcomes-based approach (established in SPP 3.7 cl. 6) alone; or
    (b) A combination of the outcomes-based approach and the acceptable solutions.

For the subject planning proposal:

- The assessment applying the deemed to comply pathway assessment is presented in Section 5.3.
- When an assessment applying the alternative pathway is necessary, the required additional information is presented in Section 5.4.

5.1 Local Government Variations to Apply

EXPLANATORY INFORMATION

1. Local governments may add to or modify the acceptable solutions contained within the Guidelines to recognise special local or regional circumstances that reinforce the SPP 3.7 objectives and outcomes. This is achieved through regional or local variations that form part of a local planning strategy and/or local planning scheme via a scheme amendment or special control area.

   This could include acceptable solutions that address topography, vegetation or climate to the satisfaction of the Western Australian Planning Commission (WAPC) that the modifications comply with the corresponding SPP 3.7 objectives and outcomes. (Planning for Bushfire Guidelines, s. 3.4, 2024).
2. Under the relevant state legislation (LPS Regulations 2015), SPP 3.7 does not apply to hosted or unhosted short-term rental accommodation. However, the local government under its Local Planning framework (i.e. Strategy / Scheme and Policy as applicable), may require that certain bushfire protection measures or variations to the measures (the bushfire protection criteria), established by SPP 3.7 and the Guidelines, are to be applied.

Endorsed regional or local variations to the acceptable solutions apply to the assessments against the Bushfire Protection Criteria for the planning proposal?	N/A
The proposed land use for hosted or unhosted short-term rental accommodation, and the local government requires certain bushfire protection measures, contained within the BPC, to be applied, that under the LPS Regulations 2015, would otherwise not be required?	N/A

5.2 Assessment Summary

PATHWAY APPLIED TO DEMONSTRATE ACHIEVING POLICY OUTCOMES OF SPP 3.7 BUSHFIRE [1] INCLUDES SUMMARY OF THE PROPOSAL'S ASSESSMENT AGAINST THE BPC ACCEPTABLE SOLUTIONS			
STRUCTURE PLAN			
The Acceptable Solutions Corresponding to the Policy Outcomes of SPP 3.7 Bushfire as Incorporated into the Elements of the Bushfire Protection Criteria (Guidelines)	Acceptable Solutions Pathway Compliance Status	Alternative Pathway [2] Outcomes-Based Approach Only	Alternative Pathway [2] Combination of Pathways
ELEMENT 1: LOCATION:	Not Applicable	-	-
A1.1a Broader Landscape Type A	Not Applicable		
A1.1b Broader Landscape Type B	Not Applicable		
ELEMENT 2: SITING AND DESIGN:	Fully Compliant	-	-
A2.1 Siting and design	Fully Compliant		
A2.2 Asset Protection Zone (APZ)	Fully Compliant		
A2.3 Clearing of native vegetation	Fully Compliant		
ELEMENT 3: VEHICULAR ACCESS:	Fully Compliant	-	-
A3.1 Public roads	Fully Compliant		
A3.2 Access routes	Fully Compliant		
A3.3a No-through roads	Fully Compliant		
A3.3b No-through roads technical requirements	Fully Compliant		
A3.4 Emergency access way	Not Applicable		
A3.5a Perimeter roads	Not Applicable		
A3.6 Battle-axe legs	Not Applicable		
ELEMENT 4: WATER SUPPLY:	Fully Compliant	-	-
A4.1 Water supply	Fully Compliant		
A4.2 Water supply for subdivision applications	Not Applicable		
A4.3 Water supply for existing habitable building(s)	Fully Compliant		

Note 1: Achieving the objectives and policy outcomes of SPP 3.7 Bushfire can be demonstrated through either the acceptable solutions pathway, the outcomes- based approach only, or a combination of both pathways (refer to Guidelines s 2.2.1).

Note 2: When applied, the required additional assessment details are provided in Section 5.4 of this BMP. The content and comprehensiveness of the assessment will vary dependant on the specific conditions of the broader landscape, the development site, its use and the degree to which any relevant acceptable solutions cannot be complied with.

5.3 BPC 5: Structure Plan - Acceptable Solutions Assessment

5.3.1 Element 1: Location

ELEMENT 1: LOCATION (STRUCTURE PLAN / SUBDIVISION APPLICATION)					
All details of acceptable solution requirements are established in the Planning for Bushfire Guidelines (Guidelines) – WA Department of Planning, Lands and Heritage (DPLH, as amended). When relevant, the 'Bushfire Management Plan Guidance for the Dampier Peninsula' (DPLH, 2021 Rev B), is also referenced.					
O1	**The Outcome of State Planning Policy 3.7 Bushfire (and the BPC) to be Achieved**				
	Avoid broader landscapes that present an unacceptable bushfire risk to people, property and infrastructure (SPP 3.7, 6.1)				
E1	Acceptable Solutions Pathway - Compliance Statement				
	The planning proposal is fully compliant with all applicable acceptable solutions and therefore achieves the required outcomes of this element.				
	Alternative Pathway Applied to Demonstrate Ability to Achieve SPP 3.7 Outcomes				
	N/A				
ACCEPTABLE SOLUTIONS - ASSESSMENT STATEMENTS					
Check Box Legend:	☑ Relevant & met	☒ Relevant & not met	⃠ Not relevant		
E1: Location		Applicable:	Yes	Compliant:	Yes
☑ ☐ ☐	The subject site is within Area 1 (Urban) on the Map of Bushfire Prone Areas and does not require assessment of Element 1: Location.				
Assessment Supporting Details: See Figure 1.4					
A1.1a Broader Landscape Type A		Applicable:	No	Compliant:	-
☐ ☐ ⃠	The subject site is located in an area that is a Broader Landscape Type A.				
Assessment Supporting Details: None required.					
A1.1a Broader Landscape Type B		Applicable:	No	Compliant:	-
☐ ☐ ⃠	The subject site is located in an area that is a Broader Landscape Type B. which presents an unacceptable bushfire risk of a landscape scale bushfire resulting in impacts to people, property and infrastructure. This location does not satisfy the acceptable solution for Element 1: Location. An outcomes-based approach has been prepared to demonstrate (to the decision maker) how Policy Outcome O1 will, or potentially can, be satisfied through appropriate management and/or mitigation of the relevant risks.				
Assessment Supporting Details: None required.					

5.3.2 Element 2: Siting and Design

ELEMENT 2: SITING AND DESIGN (STRUCTURE PLAN / SUBDIVISION APPLICATION)

IMPORTANT INFORMATION REGARDING ADDITIONAL BCA REQUIREMENTS

Be aware of the following when the planning proposal includes the future construction of a Class 9 vulnerable use building that is required to comply with the bushfire resistance and additional requirements of the Building Code of Australia (BCA) contained within the National Construction Code 2022 (NCC 2022).

The Building Code of Australia is applied under the WA Building Act 2011/Building Regulations 2012. The BCA establishes that these buildings must have certain minimum separation distances from bushfire prone vegetation – with site specific conditions determining these distances.

The separation distances are significantly greater than the required minimum distances established by SPP 3.7/Guidelines under the Planning and Development Act 2005.

This BMP as a bushfire planning assessment is not required to determine the additional separation distances that are to apply to the subject planning proposal or its ability to comply with those requirements.

However, in consideration of the relevant provision in the LPS Regulations 2015 (see below), Bushfire Prone Planning is taking the approach of informing decision makers regarding the additional separations distances to be considered.

> *LPS Regulations 2015, Schedule 2, Part 10A – Bushfire risk management, cl. 78E (1) – "In considering an application for development approval for development to which this Part applies, the local government is to have regard to the bushfire resistant construction requirements of the Building Code".*

The separation distances from classified vegetation established by the BCA, when applicable to the subject planning proposal, are presented in this BMP as an addendum. Refer also to information provided in Appendix B3 of this BMP.

EXPLANATORY INFORMATION

Refer to Appendices B1 and B3 of this BMP for additional information and to *the bushfire protection measure implementation checklist in Section 6 for the APZ dimensions applicable to this planning proposal.*

The Planning Assessment and the APZ

This assessment is a 'planning assessment' being conducted for planning approval purposes only. All details of acceptable solution requirements are established in the Planning for Bushfire Guidelines (Guidelines) – WA Department of Planning, Lands and Heritage (DPLH, as amended).

> *Note the assessment is not conducted for building approval purposes. The derivation of 'determined' BAL ratings for building permit applications is not the intended outcome of this planning assessment. However, in limited situations, the presented indicative BAL rating might also be considered as 'determined'.*

To comply with the relevant acceptable solutions contained in the 'Bushfire Planning Guidelines', the subject planning proposal must demonstrate that the required minimum sized asset protection zone (APZ) - subject to location constraints and allowances established by the Guidelines - can be installed surrounding a habitable or specified building.

Approved BMP's and the APZ Dimensions to be Implemented

An approved BMP, unless stated otherwise, is only approving the installation of an APZ comprised of:

- The minimum dimensions that ensure the radiant heat impact of a bushfire (on building works) does not exceed 29 kW/m² (BAL-29); or

- For specific 'vulnerable' land uses, the minimum dimensions that ensures the radiant heat impact of a bushfire (on building works) does not exceed the level of radiant heat exposure stated in the applicable acceptable solution; or
- The specific minimum dimensions that may be applied through the application of an outcomes-based approach.

Consequently, the 'minimum' dimensions of the approved APZ are also the 'maximum' approved dimensions when installation of the APZ will require the modification/removal of native vegetation. Installing a larger dimensioned APZ, to lower the determined BAL rating of specific building works, will need additional approval from the relevant planning authority.

The following bushfire planning policy and guidance potentially limit installed APZ dimensions:

- SPP 3.7 Bushfire, Policy Objectives, cl. 5.5 states – "Prioritise the retention of native vegetation for biodiversity conservation, environmental protection and landscape amenity.
- SPP 3.7 Bushfire, Policy Outcomes, cl. 6.2 - establishes that clearing of native vegetation is to be avoided or minimised in managing or mitigating bushfire risk.
- The Guidelines, Appendix B2, B.2.1 states - "clearing or modification of native vegetation to reduce the radiant heat impact below 29 kW/m^2 is generally not supported."

	The Outcome of State Planning Policy 3.7 Bushfire (and the BPC) to be Achieved
O2	**Ensure siting and design solutions:** • **Manage or mitigate the bushfire risk to people, property and infrastructure; and** • **Avoid, or where unavoidable, minimises the clearing of native vegetation. (SPP 3.7, 6.2)**
E2	Acceptable Solutions Pathway - Compliance Statement
	The planning proposal is fully compliant with all applicable acceptable solutions and therefore achieves the required outcomes of this element.
	Alternative Pathway Applied to Demonstrate Ability to Achieve SPP 3.7 Outcomes
	N/A

ACCEPTABLE SOLUTIONS - ASSESSMENT STATEMENTS

Check Box Legend: ☑ Relevant & met ☒ Relevant & not met ⃠ Not relevant

A2.1 Siting and design	Applicable:	Yes	Compliant:	Yes

☑ ☐ ☐ Ensure that each proposed and existing lot(s) contains a sufficient development site(s) that can achieve a radiant heat impact not exceeding 29 kW/m² (BAL-29).

*Note: In accordance with Planning and Development (LPS) Regulations 2015, s.78A, **'development site'** means that part of a lot on which a building that is the subject of development stands or is to be constructed.*

Assessment Supporting Details: All future developments will be sited in BAL-29 or lower.

A2.2 Asset Protection Zone (APZ)	Applicable:	Yes	Compliant:	Yes

Where a development site (refer to definition above in A2.1) cannot be wholly located within an area with a radiant heat impact not exceeding 29 kW/m² (BAL-29) in its pre-development state, an indicative APZ is to be provided and meet the following requirements for width, location and management:

☑ ☐ ☐ **APZ Width:** The APZ, when measured from the development site, is of sufficient size to ensure the radiant heat impact of a bushfire does not exceed 29 kW/m² (BAL-29) in all circumstances.

☑ ☐ ☐ **APZ Location – Option 1:** The indicative 'Planning BAL-29' APZ can be contained solely within the boundaries of each lot.

☐ ☐ ⃠ **APZ Location – Option 2:** The indicative 'Planning BAL-29' APZ cannot be contained solely within the boundaries of the lot. However, the relevant vegetation on the adjoining land / lot(s) is, and will continue to be, on an ongoing basis in perpetuity, low threat as per:

- Clause 2.2.3.2 of AS 3959 (including non-vegetated land such as a sealed or unsealed road, or a water body); or
- The requirements of the Guidelines Appendix B.2, Table 9 – APZ technical requirements; or
- The alternative standard in the local planning scheme (when it exists); and
- Any required ongoing vegetation management is agreed upon via a substantiated management agreement between the applicable landowners and the local government.

☑ ☐ ☐	**APZ Management:** The APZ can and will be managed in accordance with the requirements established in the Guidelines, Appendix B.2 or the alternative standard in the gazetted local planning scheme (when it exists).
Assessment Supporting Details: The proposed Light Industrial Area will contain areas of BAL-40 or BAL-FZ due to the remnant wetland areas. Ample space exists on site to ensure future industrial developments and workplaces are appropriately setbacks to achieve BAL-29 or lower.	

A2.3 Clearing of native vegetation	Applicable:	Yes	Compliant:	Yes

☑ ☐ ☐	The development avoids, or where unavoidable, minimises the clearing of native vegetation.
Assessment Supporting Details: The proposal will only remove native vegetation where approval has been granted by the local government.	

5.3.3 Element 3: Vehicular Access

ELEMENT 3: VEHICULAR ACCESS (STRUCTURE PLAN / SUBDIVISION APPLICATION)	
All details of acceptable solution requirements are established in the Planning for Bushfire Guidelines (Guidelines) – WA Department of Planning, Lands and Heritage (DPLH, as amended). When relevant, the 'Bushfire Management Plan Guidance for the Dampier Peninsula' (DPLH, 2021 Rev B), is also referenced. The technical construction requirements for access types and components are established in the Guidelines Appendix B.3, Table 10 (certain information is copied and presented in Appendix C of this BMP). The local government will advise the proponent where different requirements are to apply and when any additional specifications such as those for signage and gates are to apply. These are included as an appendix if requested by the local government. ***Note:*** *The following understanding of what constitutes a 'road', and the stated definitions can be important considerations for assessments against an acceptable solution for Element 3.* • *Guidelines Appendix B3: Vehicular Access, identifies a 'road' as being either a public road (that includes a no-through road) or a perimeter road. All other access types (i.e. emergency access ways, fire service access routes, battle-axes and private driveways) are considered a different class of access i.e. they are not 'roads'.* • *SPP 3.7 defines 'no-through road' as "a cul-de-sac or dead end road".* • *SPP 3.7 defines 'two-way access' as "vehicular access from a site in two different directions to at least two different suitable destinations". This allows for required access to potentially be provided by an emergency access way and not just public roads.*	
O3	**The Outcome of State Planning Policy 3.7 Bushfire (and the BPC) to be Achieved**
	Ensure the design and capacity of vehicular access and egress provide: • **For efficient and effective evacuation to a suitable destination(s); and/or** • **As a contingency measure for vulnerable land uses, an on-site shelter, where demonstrated appropriate, as a last resort option. (SPP 3.7, 6.3)**
E3	Acceptable Solutions Pathway - Compliance Statement
	The planning proposal is fully compliant with all applicable acceptable solutions and therefore achieves the required outcomes of this element.
	Alternative Pathway Applied to Demonstrate Ability to Achieve SPP 3.7 Outcomes
	N/A

ACCEPTABLE SOLUTIONS - ASSESSMENT STATEMENTS					
Check Box Legend:	☑ Relevant & met	☒ Relevant & not met	⃠ Not relevant		
A3.1 Public roads			Applicable:	Yes	Compliant: Yes
☑ ☐ ☐	Public roads meet the technical requirements for minimum vertical clearance (4.5 metres) and minimum weight capacity (15 tonnes - includes bridges, culverts).				
☑ ☐ ☐	Public roads meet the technical requirement recommended in the Guidelines in Appendix B3, B3.1 for a minimum horizontal clearance of 6 metres.				

☑ ☐ ☐	Public road technical requirements for minimum horizontal clearance, gradients and curves should be in accordance with the class of road as specified in the Public Works Engineering Australasia (IPWEA) subdivision guidelines, Liveable Neighbourhoods, Austroads Standards, any applicable or relevant Main Roads standards, supplements, policies and any applicable or relevant local government standards or policies. The applicable class(s) of road and their technical requirements have been confirmed with the relevant local government/Main Roads WA. These can and will be complied with.
Assessment Supporting Details: All proposed public roads will be compliant with the Guidelines.	

A3.2 Access routes	Applicable:	Yes	Compliant:	Yes

☑ ☐ ☐	Subject site is in Area 1 (Urban) (Map of BPA). Public road access, with all-weather surfaces, is provided to at least one suitable destination.
☐ ☐ ⊘	Subject site is in Area 2 (Map of BPA). Public road access, with all-weather surfaces, is provided in two different directions, to two different suitable destinations.
Assessment Supporting Details: The subject site is within Bushfire Prone Area 1 and only requires one-way access.	

A3.3a No-through roads	Applicable:	Yes	Compliant:	Yes

☑ ☐ ☐	A3.3a is not applicable to the subject planning proposal because the planning proposal is sited in Area 1 (Urban) (Map of BPA), and there is no limitation on no-through road lengths.
☐ ☐ ⊘	A3.3a is not applicable to the subject planning proposal because access to the subject site is via a private driveway from a public road providing two-way access. Consequently, vehicular access to the subject site does not have a no-through road component.
☐ ☐ ⊘	The subject site is in Area 2 (Map of BPA): Access to the subject site is via a no-through public road that does not exceed the established maximum of 200 metres in length from the subject site boundary to an intersection where two-way access is provided.
☐ ☐ ⊘	The subject site is in Area 2 (Map of BPA): Access to the subject site / lot(s) is via a no-through public road that exceeds the established maximum of 200 metres in length from the proposed lot(s) boundary to an intersection where two-way access is provided. It is demonstrated that there are site constraints and/or that there are no alternative design options to achieve the 200 metre maximum length. Compliant two-way access within 200 metres from the proposed lot(s) boundary will be established through the provision (or existence) of a compliant emergency access way through the application of acceptable solution A3.4: Emergency Access Way.
☑ ☐ ☐	The subject site is in Area 2 (Map of BPA): Access to the subject site / lot(s) is via a no-through public road that exceeds the established maximum of 200 metres in length from the proposed lot(s) boundary to an intersection where two-way access is provided. However, the additional road length can be considered to satisfy the acceptable solution as the following established additional requirements can be met:
☑ ☐ ☐	• It is demonstrated that that an alternative access, including an emergency access way, cannot be provided due to site constraints; and

☑ ☐ ☐	• The no-through road travels towards a suitable destination; and
☑ ☐ ☐	• The balance of the no-through road that is greater than 200 metres from the subject site is: o Wholly within a residential built-out area; or o Wholly within an area designated Area 1 (Urban) on Map of BPA; or o Potentially subject to radiant heat levels from adjacent bushfire prone vegetation not exceeding 12.5 kW/m^2 / BAL-LOW (Guidelines Figure 29).

Assessment Supporting Details: The proposed no through road is wholly within Area 1 (Urban) on the Bushfire Prone area map (see Figure 1.4).

A3.3b No-through roads technical requirements	Applicable:	Yes	Compliant:	Yes

☐ ☐ ⊘	A3.3b is not applicable to the subject planning proposal because the assessment against A3.3a has established that vehicular access to the site does not have a no-through road component.
☑ ☐ ☐	The no-through road meet (or can and will meet) the public road technical requirements for minimum vertical clearance (4.5 metres) and minimum weight capacity (15 tonnes - includes bridges, culverts).
☑ ☐ ☐	The no-through road meet (or can and will meet) the public road technical requirement recommended in the Guidelines in Appendix B3, B3.1 for a minimum horizontal clearance of 6 metres.
☑ ☐ ☐	The no-through road (i.e. public road) technical requirements for minimum horizontal clearance (excluding perimeter road), gradients and curves should be in accordance with the class of road as specified in the Public Works Engineering Australasia (IPWEA) subdivision guidelines, Liveable Neighbourhoods, Austroads Standards, any applicable or relevant Main Roads standards, supplements, policies and any applicable or relevant local government standards or policies. with the relevant local government/Main Roads WA. These can and will be complied with.
☑ ☐ ☐	The turnaround area/head meets (or can and will meet) the design requirements established by the Guidelines, Figure 30.

Assessment Supporting Details: The proposed no-through road will have the turnaround area installed on Hatch Court and be compliant with the standards in the Guidelines.

A3.4 Emergency access way	Applicable:	No	Compliant:	-

☑ ☐ ☐	A3.4 is not applicable to the subject planning proposal because it has been assessed as compliant with A3.2 (and A3.3a and A3.3b when applicable), and an emergency access way is not required.
☐ ☐ ⊘	A3.4 is applicable to the subject planning proposal because an emergency access way currently exists and has been part of the subject planning proposal's ability to comply with A3.2. Consequently, it will apply with regard to meeting (or being able to meet), the specified technical requirements and ongoing management requirements, rather than its installation.
☐ ☐ ⊘	The requirements established for acceptable no-through road access to the subject site / lot(s) in A3.2 and/or A3.3a and/or A3.3b cannot be achieved. An emergency access way (EAW) is provided as the alternative access and can be considered as an acceptable solution, when the following established requirements are met:

☐ ☐ ⊘	It is demonstrated that an alternative design option does not exist and that site constraints prevent the requirements of A3.2 and A3.3 being met; and
Assessment Supporting Details: None required.	

A3.5a Perimeter roads	Applicable:	No	Compliant:	-

☑ ☐ ☐	A3.5a is not applicable to the subject planning proposal because the proposal is for less than 10 lots adjacent to each other (including the cumulative number of lots created as part of a staged subdivision).
☐ ☐ ⊘	A3.5a is not applicable to the subject planning proposal. The assessment justifies the non-applicability due to one or more of the following exclusion factors being relevant (see Supporting Details): • The adjoining classified vegetation is Class G Grassland (AS 3959); • Lots are zoned for rural living or equivalent; • It is demonstrated that it cannot be provided due to site constraints; or • All lots have frontage to an existing public road.
☐ ☐ ⊘	The proposed greenfield development or large scale urban infill adjoins classified vegetation (excluding Class G, AS 3959) and consists of 10 or more lots adjacent to each other (including the cumulative number of lots created as part of a staged subdivision). A perimeter road will be provided to separate the areas of permanent classified vegetation (under AS 3959) from the proposed lot(s) and remove the need for battle-axe lots that back onto areas of classified vegetation.
☐ ☐ ⊘	The perimeter road meets (or can and will meet) the technical requirements (Guidelines Appendix B3, Table 10) for minimum horizontal clearance (Map of BPA Area 1 (Urban) = 8 metres and Area 2 = 12 metres), minimum vertical clearance (4.5 metres) and minimum weight capacity (15 tonnes - includes bridges, culverts).
☐ ☐ ⊘	The perimeter road technical requirements for gradients and inner radius curves should be in accordance with the class of road as specified in the Public Works Engineering Australasia (IPWEA) subdivision guidelines, Liveable Neighbourhoods, Austroads Standards, any applicable or relevant Main Roads standards, supplements, policies and any applicable or relevant local government standards or policies. The applicable class(s) of road and their technical requirements have been confirmed with the relevant local government/Main Roads WA. These can and will be complied with.
Assessment Supporting Details: A perimeter road is not required as the industrial area will have less than 10 lots. All existing and future lots will have frontage to an existing public road.	

A3.5b Fire service access route	Applicable:	No	Compliant:	-

☐ ☐ ⊘	A3.5b is not applicable to the subject planning proposal because a perimeter road is assessed as being required in accordance with A3.5a, therefore a fire service access route is not required.
☑ ☐ ☐	A3.5b is not applicable to the subject planning proposal because: Appropriate firefighter access is currently available to all relevant areas classified vegetation (under AS 3959) that is not Class G Grassland. Consequently, a fire service access route is not required to provide firefighter access to this vegetation, despite otherwise being required when a perimeter road is assessed as not being required (in accordance with A3.5a).

☐ ☐ ⊘	The proposed lots adjoin classified vegetation (classified under AS 3959) that is not Class G Grassland, and a perimeter road is not required in accordance with A3.5a. A fire service access route can and will be provided for firefighter access to the relevant classified vegetation where firefighter access is not currently available. It can and will meet the following established requirements:
☐ ☐ ⊘	• The fire service access route is a through-route with no dead-ends, no further than 500 metres from a public road and will be signposted; and
☐ ☐ ⊘	• The fire service access route meets (or can and will meet) the technical requirements (Guidelines Appendix B3, Table 10) for minimum horizontal clearance (Map of BPA Area 1 (Urban) = 6 metres and Area 2 = 10 metres), minimum vertical clearance (4.5 metres), minimum weight capacity (15 tonnes - includes bridges, culverts) and minimum inner radius of road curves (8.5 metres); and
☐ ☐ ⊘	• The fire service access route meets (or can and will meet) the technical requirements (Guidelines Appendix B3, Table 10) for crossfalls and gradients for different surfaces and dips; and
☐ ☐ ⊘	• When gated, gates will open the whole carriageway width and can be locked by the local government and/or the emergency services, when keys are provided for each gate; and
☐ ☐ ⊘	• The proponent has obtained consent from the local government, that it will accept care, control and management responsibilities for the fire service access route (unless it is a Crown reserve managed by another entity).
Assessment Supporting Details: None required.	

A3.6 Battle-axe legs	Applicable:	No	Compliant:	-

☑ ☐ ☐	A3.6 is not applicable to the subject planning proposal because the subject planning proposal does not contain battle-axe legs.
☐ ☐ ⊘	The subject site is in a reticulated water area and the point where the battle-axe access leg(s) joins the effective area of the battle-axe lot, is less than 50 metres from a public road. No battle-axe leg technical requirements apply.
☐ ☐ ⊘	It is demonstrated that a battle-axe access leg(s) cannot be avoided due to site or design constraints, but they can and will satisfy the following established technical requirements (allowing the battle-axe leg(s) to be considered as an acceptable solution):
☐ ☐ ⊘	• The battle-axe leg meets (or can and will meet) the technical requirements (Guidelines Appendix B3, Table 10) for minimum horizontal clearance (6 metres) or where not required to comply with the Guidelines width, it meets the requirements of the Residential Design Codes and Development Control Policy 2.2 Residential Subdivision; and
☐ ☐ ⊘	• The battle-axe leg meets (or can and will meet) the technical requirements (Guidelines Appendix B3, Table 10) for minimum vertical clearance (4.5 metres), minimum weight capacity (15 tonnes - includes bridges, culverts) and minimum inner radius of road curves (8.5 metres); and
☐ ☐ ⊘	• The battle-axe leg meets (or can and will meet) the technical requirements (Guidelines Appendix B3, Table 10) for the gradients of different surfaces and dips; and
☐ ☐ ⊘	• Passing bays are (or can and will be) installed every 200 metres with a minimum length of 20 metres and a minimum additional carriageway width of 2 metres i.e. the combined carriageway width of the passing bay and constructed private driveway will be a minimum 6 metres; and

☐ ☐ ⊘	• The turnaround area/head meets (or can and will meet) the design requirements established by the Guidelines, Figure 30.
Assessment Supporting Details:	

5.3.4 Element 4: Water Supply

ELEMENT 4: WATER SUPPLY (STRUCTURE PLAN / SUBDIVISION APPLICATION)					
All details of acceptable solution requirements are established in the Planning for Bushfire Guidelines (Guidelines) – WA Department of Planning, Lands and Heritage (DPLH, as amended). When relevant, the 'Bushfire Management Plan Guidance for the Dampier Peninsula' (DPLH, 2021 Rev B), is also referenced.					
O4	**The Outcome of State Planning Policy 3.7 Bushfire (and the BPC) to be Achieved**				
	Ensure that sufficient water is available and accessible for emergency services, to enable people, property and infrastructure to be defended from bushfire. (SPP 3.7, 6.4)				
E4	Acceptable Solutions Pathway - Compliance Statement				
	The planning proposal is fully compliant with all applicable acceptable solutions and therefore achieves the required outcomes of this element.				
	Alternative Pathway Applied to Demonstrate Ability to Achieve SPP 3.7 Outcomes				
	N/A				
ACCEPTABLE SOLUTIONS - ASSESSMENT STATEMENTS					
Check Box Legend:	☑ Relevant & met	☒ Relevant & not met	⃠ Not relevant		
A4.1 Water supply for structure plans		Applicable:	Yes	Compliant:	Yes
☑ ☐ ☐	Evidence is provided that a reticulated water supply, available for firefighting purposes, can be provided at the subdivision and/or development application stage, in accordance with the specifications established by the relevant water supply authority.				
☐ ☐ ⃠	The provision of or the specifications of a reticulated water supply cannot be met. Evidence is provided that a sufficient, sustainable and accessible non-reticulated water supply dedicated to firefighting purposes can be provided at the subdivision and/or development application stage, in accordance with the specifications established in the Guidelines, Appendix B4: Water Supply.				
☐ ☐ ⃠	It has been determined (by the proposed number of lots and/or the local government) that the provision of a strategic water supply tank(s) is required. A suitable area(s) will be identified as a Crown reserve on the structure plan, to the satisfaction of the WAPC on advice from the local government. The land on which the strategic tank is to be located is to be ceded and should occur free of cost, without any payment or compensation by the Crown, as a Crown reserve for 'strategic water supply for firefighting purposes.'				
☐ ☐ ⃠	The structure plan is over land with fragmented ownership, and the local government has determined that a strategic water supply tank is required. The first stage of the development will include the installation of the strategic water supply tank(s) on the identified Crown reserve(s).				
☐ ☐ ⃠	The applicable local planning scheme provisions provide for developer contributions for public infrastructure. The local government is supportive of applying a cash-in-lieu arrangement for the provision of a strategic water tank for firefighting purposes. This arrangement is presented as an Addendum in this BMP.				

☐ ☐ ⊘	Evidence will be provided, at the subsequent relevant planning stage, that the proposed water supply has been installed in accordance with the specifications established by the relevant water supply authority and/or the Guidelines, Appendix B4: Water supply.

Assessment Supporting Details: Existing hydrants are currently surrounding and within the structure plan along Hatch Court and Stirling Crescent.

A4.2 Water supply for subdivision applications	Applicable:	No	Compliant:	-

☐ ☐ ⊘	Evidence is provided that a reticulated water supply, available for firefighting purposes, exists or can be provided. Hydrant connection(s) will be provided in accordance with the specifications established by the relevant water supply authority (refer also to hydrant location information in Appendix D of this BMP).
☐ ☐ ⊘	The provision of or the specifications of a reticulated water supply cannot be met. Evidence is provided that a sufficient, sustainable and accessible non-reticulated water supply, dedicated to firefighting purposes, can and will be provided in accordance with the specifications established in the Guidelines, Appendix B4: Water Supply.
☐ ☐ ⊘	The planning proposal is for the creation of two lots (one additional lot) on which a 10,000 litre water supply tank, dedicated to firefighting purposes, will be installed on each lot.
☐ ☐ ⊘	The planning proposal is for the creation of three to 24 lots and a 10,000 litre water supply tank, dedicated to firefighting purposes, will be installed on each lot.
☐ ☐ ⊘	The planning proposal is for the creation of 25 lots or more. A 10,000 litre water supply tank, dedicated to firefighting purposes, will be installed on each lot, or 50,000 litre strategic water tank(s), dedicated to firefighting purposes, will be installed per 25 lots or part thereof, or a combination of these requirements will be installed - as most appropriate or as instructed by the relevant local government.
☐ ☐ ⊘	It has been determined (by the proposed number of lots and/or the local government) that the provision of a strategic water supply tank(s) is required. A suitable area(s) will be identified as a Crown reserve on the subdivision, to the satisfaction of the WAPC on advice from the local government. The land on which the strategic tank is to be located is to be ceded and should occur free of cost, without any payment or compensation by the Crown, as a Crown reserve for 'strategic water supply for firefighting purposes.'
☐ ☐ ⊘	The proposed subdivision is to be staged, and the local government has determined that a strategic water supply tank is required. The first stage of the subdivision will include the installation of the strategic water supply tank(s) on the identified Crown reserve(s).

Assessment Supporting Details:

None required.

A4.3 Water supply for existing habitable building(s)	Applicable:	Yes	Compliant:	Yes

☑ ☐ ☐	The proposed subdivision includes an existing habitable building(s) that is to be retained. A hydrant connection(s) will be provided in accordance with the specifications established by the relevant water supply authority (refer also to hydrant location information in Appendix D of this BMP).
☐ ☐ ⊘	The provision of or the specifications of a reticulated water supply cannot be met. Evidence is provided that a sufficient, sustainable and accessible non-reticulated water supply, dedicated to firefighting purposes, can and will be provided in accordance with the specifications established in the Guidelines, Appendix B4: Water Supply.

	Details of the applicable specifications that will be met have been presented in the assessment of 'A4.2: Water supply for subdivision application above'.
Assessment Supporting Details: Existing hydrants along Stirling Crescent and Hatch Court service the residential dwellings within the structure plan.	

5.4 Conclusion

5.4.1 Assumptions of Post Development Site Conditions

This Bushfire Management Plan has been prepared based on a series of assumptions regarding the post-development conditions of the subject site. These assumptions have informed the

Preparation of the Post Development Classified Vegetation Map (Figure 3.1.1) and the BAL Contour Map (Figure 3.2). These key assumptions need to be considered as the planning for the site progresses towards subdivision and are as follows:

- Wetlands will be retained with 15m buffers, with future planning stages requiring revegetation plans that ensure alignment with the classified vegetation outlined in this Bushfire Management Plan (BMP) to prevent any increase in BAL ratings or bushfire risk.
- Wetland areas will connect via a linear POS link of likely Forest / Shrubland vegetation as broadly depicted in Figure 3.1.1.
- Road verges throughout the site and adjacent to the site will be managed to a minimal fuel state to reduce fire risk.
- Lots are designed to ensure they are large enough to accommodate habitable building and provide sufficient space to establish an Asset Protection Zone (APZ);
- Any modifications or deviations from the landscape or vegetation assumptions in this BMP may trigger specific or localised bushfire assessments to maintain compliance;
- All future lots are managed in accordance with the City of Kalamunda Firebreak Notice

By adhering to these measures and assumptions, the Structure Plan can effectively balance the objectives of industrial and residential infill while supporting ecological and environmental preservation within the site.

Given the above, no additional Structure Plan provisions are considered necessary or warranted, beyond the application of standard bushfire planning requirements at subdivision stage.

6 RESPONSIBILITY CHECKLISTS

EXPLANATORY INFORMATION

This section of the BMP sets out the responsibilities of the relevant entity or person for:

- The initial implementation of the required bushfire protection measures and their timing; and
- The ongoing maintenance of the required bushfire protection measures to ensure their continued effectiveness.

Note: Protection measures that may be recommended by the bushfire consultant in the BMP section titled "Additional Recommended Bushfire Protection Measures' are not included in the Responsibility Checklists (at least initially).

The reason for this is the additional measure(s) are either:

- Provided as additional risk management advice to the proponent and it is up to them to choose to apply; or
- Part of an outcomes-based approach being applied to satisfy the required outcomes of SPP 3.7. Consequently, the need for their application (which would create a responsibility) is currently subject to assessment and approval by the decision maker.

  When their application is established by planning approval, the responsibility checklists in this BMP will be required to be updated.

6.1 Protection Measure Maintenance Checklists

6.1.1 Landowner Responsibilities

TABLE 6.4 LANDOWNER RESPONSIBILITIES – MAINTENANCE OF BUSHFIRE PROTECTION MEASURES	
No.	MAINTENANCE OF BUSHFIRE PROTECTION MEASURES Measures Established Under SPP 3.7 / Guidelines
1	When the property changes ownership or occupancy, to assist with the ongoing maintenance of the implemented bushfire protection measures, ensure that the relevant person(s) is aware of the BMP, and the responsibilities it contains. Provide access to a copy of the BMP (Note: this BMP may be superseded by a subsequent BMP produced specially for development on a lot).
MAINTENANCE OF BUSHFIRE PROTECTION MEASURES Measures Established by a Local Government's Section 33 Notice Under the Bush Fires Act 1954	
2	Maintain the required firebreaks, providing emergency access within the lot to the stated specifications established by the City of Kalamunda Firebreak Notice. Check the notice annually for any revisions.
MAINTENANCE OF BUSHFIRE PROTECTION MEASURES Measures Established Under the Building Act 2011/ Building Regulations 2012/ Building Code of Australia	
3	Ensure that builders engaged to construct dwellings/additions and/or other relevant structures on the lot, are aware of the existence of this approved Bushfire Management Plan (BMP). The plan identifies that the development site is within a designated bushfire prone area. A BAL assessment report may be required to determine the applicable BAL rating. A BAL certificate will need to be issued to accompany building permit applications. Compliance with the Building Code of Australia (Volumes 1 and 2 of the National Construction Code), will require certain bushfire resistant construction requirements be applied to certain buildings in designated bushfire prone areas (i.e. Class 1, 2 and 3 and Class 9 vulnerable use buildings and associated Class 10a buildings and decks). The deemed to satisfy solutions that will meet the relevant bushfire performance requirements are found in AS 3959 – Construction of Building in Bushfire Prone Areas (as amended) and the NASH Standard - Steel Framed Construction in Bushfire Areas (as amended).
4	Maintain and repair buildings to ensure continuing compliance with the bushfire resistant construction requirements, corresponding to the BAL rating applied to the building, in accordance with AS 3959 – Construction of Building in Bushfire Prone Areas (as amended) and the NASH Standard - Steel Framed Construction in Bushfire Areas (as amended). In particular, ensure the minimisation of gaps and effectiveness of screening is maintained to prevent ember entry to internal spaces and combustible materials.

6.1.2 Local Government Responsibilities

TABLE 6.5 LOCAL GOVERNMENT RESPONSIBILITIES – MAINTENANCE OF BUSHFIRE PROTECTION MEASURES	
No.	MAINTENANCE OF BUSHFIRE PROTECTION MEASURES Measures Established by the Bushfire Management Plan
1	To be aware of the potential consequences of any significant changes in the local government's management of land (including potential re-vegetation), of which they have vested control, that could have an adverse impact on the determined BAL ratings that apply to adjacent existing or future buildings and where: • The applicable 'determined' BAL ratings have been established by an existing BMP or a BAL Assessment; and • The BAL has been correctly determined with appropriate consideration of what could reasonably be expected to potentially change in the future with regards to the composition and structure of the vegetation on the local government controlled land and therefore its correct classification under AS 3959:2018 BAL determination methodology.

APPENDIX A: DETAILED BAL ASSESSMENT DATA AND SUPPORTING INFORMATION

A1: BAL Assessment Inputs Common to the Method 1 and Method 2 Procedures

A1.1: FIRE DANGER INDICES (FDI/FDI/GFDI)

When using Method 1 the relevant FDI value required to be applied for each state and region is established by AS 3959:2018, Table 2.1. Each FDI value applied in Tables 2.4 – 2.7 represents both the Forest Fire Danger Index (FFDI) and a deemed equivalent for the Grassland Fire Danger Index (GFDI), as per Table B2 in Appendix B. When using Method 2, the relevant FFDI and GFDI are applied.

The values may be able to be refined within a jurisdiction, where sufficient climatological data is available and in consultation with the relevant authority.

Relevant Jurisdiction:	WA	Region:	Whole State	Method 1	Applied FDI:	80
				Method 2	Applied FFDI:	N/A
					Applied GFDI:	N/A

A1.2: VEGETATION ASSESSMENT AND CLASSIFICATION

Vegetation Types and Classification

In accordance with AS 3959:2018 Clauses 2.2.3 and C2.2.3.1, all vegetation types within 100 metres of the 'site' (defined as "the part of the allotment of land on which a building stands or is to be erected"), are identified and classified. Any vegetation more than 100 metres from the site that has influenced the classification of vegetation within 100 metres of the site, is identified and noted. The maximum excess distance is established by AS 3959: 2018 Clause 2.2.3.2 and is an additional 100 metres.

Classification is also guided by the Visual Guide for Bushfire Risk Assessment in WA (WA Department of Planning February 2016) and any relevant FPA Australia practice notes.

Modified Vegetation

The vegetation types have been assessed as they will be in their natural mature states, rather than what might be observed on the day. Vegetation destroyed or damaged by a bushfire or other natural disaster has been assessed on its expected re-generated mature state. Modified areas of vegetation can be excluded from classification if they consist of low threat vegetation (refer to Appendix B) and that any required active management can be expected to continue in perpetuity, and this can be adequately justified.

The Influence of Ground Slope

Where significant variation in effective slope exists under a consistent vegetation type, these will be delineated as separate vegetation areas to account for the difference in potential bushfire behaviour, in accordance with AS 3959:2018 Clauses 2.2.5 and C2.2.5.

THE INFLUENCE OF VEGETATION GREATER THAN 100 METRES FROM THE SUBJECT SITE	
Vegetation area(s) within 100m of the site whose classification has been influenced by the existence of bushfire prone vegetation from 100m – 200m from the site:	None
Assessment Statement:	No vegetation types exist close enough, or to a sufficient extent, within the relevant area to influence classification of vegetation within 100 metres of the subject site.

VEGETATION AREA 1						
Classification	**A. FOREST**					
Types Identified	Open forest A-03		N/A			
Exclusion Clause	N/A					
Effective Slope	Measured	flat 0 degrees	Applied Range (Method 1)	Upslope or flat 0 degrees		
Foliage Cover (all layers)	10-30%	Shrub/Heath Height	1-2m	Tree Height	6-8m	
Dominant & Sub-Dominant Layers	Mixed eucalyptus species over tall melaleuca as art of remnant wetland.					
Understorey	Long grasses and juvenile eucalyptus saplings.					
Justification Comments:	Not Required.					
Post Development Assumptions:	Areas of Class A Forest within the wetland buffer to remain unmodified.					



PHOTO ID: 1



PHOTO ID: 2



PHOTO ID: 3



PHOTO ID: 4

VEGETATION AREA 2						
Classification	**B. WOODLAND**					
Types Identified	Woodland B-05					
Exclusion Clause	N/A					
Effective Slope	Measured	flat 0 degrees	Applied Range (Method 1)	Upslope or flat 0 degrees		
Foliage Cover (all layers)	10-30%	Shrub/Heath Height	N/A	Tree Height	6-10m	
Dominant & Sub-Dominant Layers	Mixed endemic and native trees scattered across a rural residential lot.					
Understorey	Long grasses up to 30cm.					
Justification Comments:	Not Required.					
Post Development Assumptions:	Area is outside the wetland buffer and may be managed in future pending local government approval.					



PHOTO ID: 5



PHOTO ID: 6

VEGETATION AREA 3						
Classification	**G. GRASSLAND**					
Types Identified	Open tussock G-23 Open herbfield G-27					
Exclusion Clause	N/A					
Effective Slope	Measured	flat 0 degrees	Applied Range (Method 1)	Upslope or flat 0 degrees		
Foliage Cover (all layers)	N/A	Shrub/Heath Height	N/A	Tree Height	N/A	
Dominant & Sub-Dominant Layers	Long pastural or lawn grasses up to 30cm.					
Justification Comments:	Not Required.					
Post Development Assumptions:	Grasses can be managed to allow for future development. This is shown in Figure 3.1.1.					



PHOTO ID: 7



PHOTO ID: 8



PHOTO ID: 9



PHOTO ID: 10

VEGETATION AREA 4						
Classification	**Excluded**					
Exclusion Clause	2.2.3.2 (e) Non-vegetated areas and (f) Low threat vegetation - minimal fuel condition.					
Effective Slope	Measured	N/A	Applied Range (Method 1)	N/A		
Foliage Cover (all layers)	N/A	Shrub/Heath Height	N/A	Tree Height	N/A	
Justification Comments:	Areas include managed lawns, exotic vegetation, cleared paddocks (Photo 16) and existing Asset Protection Zones.					
Post Development Assumptions:	Areas to remain managed in perpetuity.					



PHOTO ID: 11



PHOTO ID: 12



PHOTO ID: 13



PHOTO ID: 14

	
PHOTO ID: 15	PHOTO ID: 16

A1.3: EFFECTIVE SLOPE

EXPLAINING THE ASSESSMENT METHODOLOGY APPLIED BY BUSHFIRE PRONE PLANNING

DEFINITION: Effective slope is "the slope under that classified vegetation which most influences the bushfire attack" (AS 3959:2018, Clause 1.5.11).

"The effective slope under the classified vegetation is not the same as the average slope for the land surrounding the site of the proposed building. The effective slope is that slope which most significantly influences bushfire behaviour" (AS 3959:2018, Clause CB4).

The slope is described as upslope, flat or downslope when viewed from an exposed element (e.g., building) and looking towards the vegetation. It is measured in degrees.

[Note: Additional relevant guidance provided by AS 3959:2018 and NSW RFS, Planning for Bushfire Protection (2019) is incorporated into the applied assessment methodology and is presented at the end of this explanation.]

COMPOUND SLOPES UNDER VEGETATION AND DETERMINING SLOPE SIGNIFICANCE

Non-Linear Slopes: When the slope of ground under the vegetation out to the distance to be assessed (100 m or further if necessary), is not a straight line or nearly straight line slope, then it is made up of several different slopes i.e., it is a compound slope. The different slope angles and lengths must be factored into the determination of the effective slope value to be applied. Different slopes will potentially influence the bushfire rate of spread and intensity, both increasing and decreasing it.

Significant Slope: The AS 3959:2018 bushfire attack level determination methodology, with default inputs, models a fully developed bushfire. Therefore, a 'significant' slope is one that will significantly influence bushfire behaviour. To be 'significant' the length of the slope must be 'sufficient' to support a fully developed fire on that slope. The angle of a significant slope could be the determined effective slope for the area of classified vegetation if it is the one that 'most influences the bushfire attack'.

Sufficient Slope Length: Is a slope that will, as a minimum, allow the entire flame depth (flaming zone) of a fully developed fire (100m flame width) to exist on that slope.

The expected flame depth of a fully developed bushfire is a function of the length of time the flaming phase will exist on a section of the fuel bed (the 'residence time') and the bushfire's 'rate of spread'. For a given rate of spread, longer residence times result in greater flame depths. Greater flame depths are correlated with greater flame temperatures and greater flows of radiant heat.

The primary factors that will increase the residence time are:

- Heavier fine fuel loads of grass, leaf litter, twigs, bark etc less than 6mm in width and existing within the surface and near surface layers (and elevated fuel layers when contiguous with the base layers); and
- A greater percentage of larger fine fuels within the fuel load.

The primary factors that increase the rate of spread (apart from fire weather factors), include finer fuels, drier fuels, horizonal continuity of fuel and steeper upward ground slope in the direction of fire travel.

Example values:

- Residence Time: Grassfire 5 – 15 seconds, Forest fire 25 -50 seconds.
- Rate of Spread: Grassfires of a few km/hr are considered fast moving, 5-10 km/hr is common and fastest in the order of 25km/hr. Forest fire typically recorded in metres/hour with 1-1.5 km/hr being considered fast moving and fastest in the order of 3–4 km/hr.
- Flame Depth: More typically, a few metres for grasses to tens of metres for forest fires.

An Isolated Slope: For scenarios where there is a single significant slope (based on the above criteria) additional consideration would need to be given to the time and distance consumed by a bushfire still in its 'developing' phase. This will require due consideration be given to how it is potentially ignited i.e., from a single or multiple points, as this will influence the time and distance required to fully develop. For such scenarios, a normally significant slope

may not be sufficiently long. It may be necessary to determine the potential bushfire impact more accurately by justifying the application of a lesser effective slope, or a lower threat vegetation classification, or calculating a reduced head fire width (using short fire run modelling).

Determined Effective Slope: Only a 'significant' slope can potentially be the effective slope by itself. In which case, for a defined area of classified vegetation area, the worst significant slope under that vegetation is to apply.

The table below presents Bushfire Prone Planning's considerations applied to assessing short and/or compound slopes in determining the effective slope.

Slope Length (m)	Considered a Significant Slope	Considerations in Determining the Effective Slope
< 5	No	Where these short slopes exist as part of a compound slope under an area of classified vegetation, they can be ignored as they will not influence the fire behaviour in that vegetation.
5-20	Will Vary	These slopes will have a range of influence on fire behaviour from very little to a degree of influence that must be accounted for to some extent by the effective slope value that is applied (i.e., with a greater length - apply to a greater extent). But the actual slope of these shorter slopes is less likely to be applied as it is not a 'significant' length.
20-30	Possibly - Likely	The same considerations applied to the 5-20m slope lengths should be applied here. However, more justification would need to be presented to support an assessment of not 'significant'. For these slope lengths, consideration must be given more broadly to the potential level of risks associated with a bushfire event in this location. The risk level will be a function of the bushfire hazard threat levels (direct attack mechanisms) within the immediate and broader assessment area as influenced by local topography, vegetation extents and types and the exposure and vulnerability of persons and/or buildings/structures to these threats. Higher consequent risk levels require greater precaution meaning these length slopes should be considered 'significant', and vice versa. Consider the potential for a bushfire on adjoining or nearby land be a source of ignition and/or pre-heating to vegetation on the subject slope. Consider if vegetation on the slope is likely be ignited by a single ignition point or is multipoint ignition possible from bushfire an adjoining slopes or the surrounding area. Single point ignition will require a fire to travel further before being fully developed (DFES considers less than 100m fire runs may be considered a short fire run for forest, woodland and scrub vegetation classifications, RFS NSW applies 150m). Isolated slopes of this length are less likely to be considered significant as compared to when part of a compound slope.
>30	Yes	Likely to always be a significant slope unless isolated (i.e., exists alone) – in which case, justifying the application of a lesser effective slope, or a lower threat vegetation classification, or calculating a reduced head fire width, are approaches that may justifiably be applied.

BPP Approach - Slope Variation Within Areas of Vegetation

When multiple 'significant' slope lengths with large differences in degrees of effective slope (or different applicable slope ranges when AS 3959:2018 Method 1 is applied), exists under a single vegetation classification, these will be delineated as separate vegetation areas of classified vegetation to account for the difference in potential bushfire behaviour and impact, in accordance with AS 3959:2018 clauses 2.2.5 and C2.2.5.

Effective Slope Variation Due to Multiple Development Sites

When the effective slope, under a single area of bushfire prone vegetation, will vary significantly relative to multiple proposed development sites (exposed elements), then the effective slopes corresponding to each of the different locations, are separately identified. The relevant (worst case) effective slope is determined in the direction corresponding to the potential directions of fire spread towards the subject building(s).

AS 3959:2018 EFFECTIVE SLOPE DETERMINATION - GUIDANCE

The Standard presents a broad set of guidance statements that indicate the intent of deriving an effective slope value for use in calculations, rather than detailing the 'in the field' determination process. These include:

- Highlighting the importance of the value by stating "The slope of the land under the classified vegetation has a direct influence on the rate of fire spread, the severity of the fire and the ultimate level of radiant heat flux" (Clause C2.2.5). [Note: A common rule of thumb is that for every 10 degrees of upslope, a fire will double its rate of spread if moving in the direction of the prevailing wind].

- "It may be necessary to consider the slope under the classified vegetation for distances greater than 100 m in order to determine the effective slope for that vegetation classification) … (i.e. the vegetation within 100 m) (Clause C2.2.5).

- "Where there is more than one slope within the classified vegetation, each slope shall be individually assessed, and the worst case Bushfire Attack Level shall apply" (Clause 2.2.5).

NSW RFS 2019, PLANNING FOR BUSHFIRE PROTECTION - APPENDIX A1.5 - ADDITIONAL DETERMINATION GUIDANCE

- "In identifying the effective slope - it may be found that there are a variety of slopes covering different distances within the vegetation. The effective slope is considered to be the slope under the vegetation which will most significantly influence the bushfire behaviour for each aspect. This is usually the steepest slope. In situations where this is not the case, the proposed approach must be justified".

- "Vegetation located closest to an asset may not necessarily be located on the effective slope".

SITE ASSESSMENT DETAILS - EXPLANATION & JUSTIFICATION

The effective slopes determined from the site assessment are recorded in Table 3.2 of this Bushfire Management Plan.

A1.4: SEPARATION DISTANCE

Measuring

The separation distance is the distance in the horizontal plane between the receiver (building/structure or area of land being considered) and the edge of the classified vegetation (AS 3959:2018, clause 2.2.4)

The relevant parts of a building/structure from which the measurement is taken is the nearest part of an external wall or where a wall does not exist, the supporting posts or columns. Certain parts of buildings are excluded including eaves and roof overhangs.

The edge of the vegetation, for forests and woodlands, will be determined by the unmanaged understorey rather than either the canopy (drip line) or the trunk (AS 3959:2018, clause C2.2.5).

Measured Separation Distance as a Calculation Input

If a separation distance can be measured because the location of the building/structure relative to the edge of the relevant classified vegetation is known, this figure can be entered into the BAL calculation. The result is a determined BAL rating.

Assumed Separation Distance as a Calculation Input

When the building/structure location within the lot is not known, an assumed building location may be applied that would establish the closest positioning of the building/structure relative to the relevant area of vegetation.

The assumed location would be based on a factor that puts a restriction on a building location such as:

- An established setback from the boundary of a lot, such as a residential design code setback or a restrictive covenant; or
- Within an established building envelope.

The resultant BAL rating would be indicative and require later confirmation (via a Compliance Report) of the building/structure actual location relative to the vegetation to establish the determined BAL rating.

Separation Distance as a Calculation Output

With the necessary site specific assessment inputs and using the AS 3959:2018 bushfire modelling equations, the range of separation distances that will correspond to each BAL rating (each of which represents a range of radiant heat flux), can be calculated. This has application for bushfire planning scenarios such as:

- When the separation distance cannot be measured because the exact location of the exposed element (i.e., the building, structure or area), relative to classified vegetation, is yet to be determined.

  In this scenario, the required information is the identification of building locations onsite that will correspond to each BAL rating. That is, indicative BAL ratings can be derived for a variety of potential building/structure locations; or

- The separation distance is known for a given building, structure or area (and a determined BAL rating can be derived), but additional information is required regarding the exposure levels (to the transfer of radiant heat from a bushfire), of buildings or persons, that will exist at different points within the subject site.

The calculated range of separation distances corresponding to each BAL rating can be presented in a table and/or illustrated as a BAL Contour Map – whichever is determined to best fit the purpose of the assessment.

For additional information refer to the information boxes in Section 3 'Bushfire Attack Levels (BAL) - Understanding the Results and Section 3.2. 'Interpretation of the BAL Contour Map'.

SITE ASSESSMENT DETAILS - EXPLANATION & JUSTIFICATION

. For the subject development/use the applicable separation distances values are derived from calculations applying the assessed site data. They are an output value, not an input value and therefore are not presented or justified in this appendix.

The derived values are presented in Section 3, Table 3.1 and illustrated as a BAL contour map in Figure 3.2.

APPENDIX B: GUIDANCE – BUSHFIRE ATTACK LEVELS AND ASSET PROTECTION ZONES

B1: Understanding Bushfire Attack Level (BAL) Ratings

BUSHFIRE ATTACK LEVEL

IMPORTANT

It is not the purpose of this 'planning' BMP to derive a 'determined' BAL rating (and associated minimum APZ dimensions), that will apply to an existing or future habitable or specified building, for the purpose of establishing its bushfire resistant construction requirements in accordance with the Building Code of Australia (contained in the NCC).

However, in limited situations a 'determined' BAL can be an incidental outcome of the planning assessment.

BUSHFIRE ATTACK LEVEL (BAL)

The potential transfer (flux/flow) of radiant heat from a bushfire to a receiving object is measured in kW/m^2. The AS 3959:2018 Bushfire Attack Level (BAL) determination methodology establishes the ranges of radiant heat flux that correspond to each bushfire attack level.

These ranges of radiant heat transfer are titled BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40 and BAL-FZ.

For certain classes of building/structure the bushfire performance requirements and the associated deemed to satisfy solutions are established by the Building Code of Australia (Vol. 1 & 2 of the NCC). For most jurisdictions the relevant building classes are 1, 2, 3, 9 and associated 10a.

The assessed BAL rating that applies to a specific building/structure determines the bushfire resistant construction requirements for those works in accordance with AS 3959:2018 - *Construction of buildings in bushfire prone areas,* or for Class 1 buildings, the NASH Standard – *Steel framed construction in bushfire areas (NS 300 2021),* as the recognised deemed to satisfy solutions.

DETERMINED BAL RATINGS

A BAL can only be classed as 'determined' and therefore apply to an existing or future building/structure when:

1. The building/structure final design and position on the lot are known and the stated separation distance from classified bushfire prone vegetation exists and can justifiably be expected to remain in perpetuity; or
2. The building/structure will always remain subject to the same BAL regardless of:
    (a) The retention of all existing classified vegetation either onsite or offsite; and
    (b) Its design or position on the lot - including, as relevant and necessary, accounting for any regulatory or enforceable building setbacks from lot boundaries (i.e. R-codes, restrictive covenants and defined building envelopes).

Consequently, a BAL Certificate may be able to be issued for a BAL stated in the BMP when it can be considered 'determined'. However, this is not the typical outcome but an incidental one.

If the BMP can derive determined BAL(s), the BAL Certificate(s) required for submission with building applications could potentially be provided, using the BMP as the supporting assessment data.

INDICATIVE AND CONDITIONAL BAL RATINGS

An 'Indicative BAL' indicates the highest BAL rating that exists for the applied set of parameters that have been applied to the site's assessment. Because the potential remains for these parameters to be varied, they are unable to be considered a 'determined' BAL.

A 'Conditional BAL' establishes the BAL rating that will be considered as a 'Determined BAL' once the stated requirements (i.e. the conditions), which may require approval by the relevant authority, are implemented and subsequently confirmed as being met.

Relevant conditions that may need to be met include:

- The location of future development sites being identified accurately and/or modified; and/or
- Classified vegetation being modified or removed (after obtaining any required approvals from the relevant authority), to establish the required vegetation separation distances.

A BAL Certificate cannot be issued for an indicative or conditional BAL rating – only for a 'Determined BAL'.

BAL RATINGS FOR BUILDING VERSUS PLANNING PURPOSES – ASSESSMENT & REPORTING REQUIREMENTS ARE DIFFERENT

Building Permit Applications

The relevant requirements are established in accordance with the WA Building Act 2011 and Building Regulations 2012 which reference the application of the Building Code of Australia (within the National Construction Code).

The required BAL rating is a 'determined' BAL rating (stated on a BAL Certificate) and supported by the requisite assessment details. Typically, this will be a Bushfire Attack Level (BAL) Report produced specifically for this purpose.

The required supporting assessment information may be derived from a Bushfire Management Plan (BMP) when a 'determined' BAL can be derived for a planning proposal. This is possible when the specific conditions discussed under 'Determined BAL Ratings' above, can be met, as an incidental outcome.

Planning Proposal Applications

The relevant requirements are established in accordance with the Planning and Development Act 2005, LPS Regulations 2015, SPP 3.7 Bushfire and the associated Guidelines.

To comply with the relevant acceptable solutions contained in the Guidelines, the subject planning proposal must demonstrate that the required minimum sized asset protection zone (APZ) - subject to location constraints and allowances established by the Guidelines - can be installed surrounding a habitable or specified building.

The minimum dimensions are those that ensure the potential radiant heat impact on the relevant buildings does not exceed 29 kW/m^2 from fire in any surrounding types of classified vegetation. This is the upper limit of the range of radiant heat flux corresponding to the BAL-29 rating.

Consequently, the BAL ratings identified in a Bushfire Management Plan (BMP) only need to be 'indicative' - although 'determined' ratings may be derived as an incidental outcome when relevant conditions are met (discussed under 'Determined BAL Ratings' above).

The indicative BAL-29 dimensioned APZ is not necessarily the APZ that will be required to be implemented and maintained surrounding any subject building/structure that exists as per an approved planning proposal. Refer to Appendix B3 in this BMP for additional information.

B2: BAL Contour Map Interpretation

THE BAL CONTOUR MAP

The Bushfire Attack Level (BAL) contour map is a diagrammatic representation of the outcome of the bushfire attack level assessment that has been conducted.

The map presents six shaded radiant heat contours extending out from each area of classified vegetation. Each coloured contour represents a different BAL rating (BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40 and BAL-FZ) and corresponds to a set range of potential radiant heat transfer (kW/m^2), in accordance with AS 3959:2018 BAL determination methodology.

The highest BAL rating contour that an exposed element (building, person or other defined element), is partly or fully located within, is the BAL rating that will apply to that element.

The width of each BAL contour:

- Will vary dependent on the BAL rating it represents; and
- The assessed potential bushfire behaviour that considers site specific vegetation types, fuel loads, ground slopes and fire weather; and
- Represents the minimum and maximum vegetation separation distances corresponding to the BAL rating it represents.

For 'post development' BAL contour maps, the areas of classified vegetation applied to the production of the BAL contours, are those that will remain at the intended end state of the subject development once earthworks, clearing and/or landscaping and/or re-vegetation have been completed.

IMPORTANT

A BAL contour map is typically constructed for planning assessment and application purposes rather than building permit application purposes.

The BAL ratings identified from a BAL contour map will likely only be 'indicative' of what can be achieved – with planning compliance for this factor being satisfied when BAL-29 is indicated.

However, future building works require a 'determined' BAL rating for building permit applications and a BAL Certificate. The required 'determined' BAL rating is not necessarily able to be derived from the BAL contour map. There are only limited scenarios where this is possible. Refer to Appendix B1 and B3 for additional information.

Consequently, a subsequent assessment of the site data and associated report for building application purposes may be required to determine the BAL rating that is to apply for building purposes. Note: If approval from the relevant authority needs to be obtained for native vegetation modification and/or removal this also establishes that a subsequent assessment and report will be required.

B3: The Asset Protection Zone (APZ)

THE APZ – DESCRIPTION, TECHNICAL REQUIREMENTS AND DIMENSIONS

DESCRIPTION AND PURPOSE

An asset protection zone (APZ) is an area surrounding a habitable or specified building that is:

- Not vegetated; and/or
- Supports retained or planted vegetation that can be considered to present a low bushfire threat as a result of;
    - Low flammability and/or higher moisture content characteristics; and/or
    - Minimal fuel loads (either naturally or as a result of continual maintenance).

The primary objectives of establishing an APZ are:

1. To ensure a reduction in the exposure of the building/structure to the bushfire direct attack mechanisms (threats) of flame contact, radiant heat transfer and ember attack, by establishing appropriate separation distances from each identified area of classified vegetation.

   These distances are measured from the nearest part of an external wall and/or the supporting posts of building parts without external walls; and
2. To ensure a reduction in the exposure of the building/structure to bushfire indirect attack mechanisms (threats) by:
    - Preventing surface fire spreading to the building/structure;
    - Minimising the potential for tree strike that can decrease building/structure resilience to bushfire direct attack mechanisms; and
    - Limiting the potential for consequential fires to impact the building/structure by eliminating, reducing, moving away and/or shielding consequential fire fuels.

      These fuels include accumulated debris, stored combustible/flammable items and constructed combustible items. Note that consequential fire, typically ignited by embers, is the primary cause of building loss in a bushfire event; and
3. To provide a defendable space for firefighting activities.

TECHNICAL REQUIREMENTS

Established by the Guidelines

The relevant technical requirements for an APZ are established in the Planning for Bushfire Guidelines (DPLH/WAPC) (as amended), Appendix B2: Siting and design and available online at Planning WA - SPP 3.7 Bushfire

Established by the Relevant Local Government

Certain LGA may state technical requirements to be complied with that vary from and/or are additional to those established by the Guidelines.

Refer to the notice issued annually by the relevant local government under s33 of the Bushfires Act 1954 (e.g. Bushfire Risk Reduction Notice or Firebreak and Hazard Reduction Notice etc). These technical requirements may also be established by their gazetted local planning scheme. Refer to the ratepayer notice and/or the local government's website for the current version.

Information Published by the Bushfire Centre of Excellence (DFES)

The book titled Firewise Gardening in Western Australia (2024), is a good source of relevant information and is available online at https://dfes.wa.gov.au/hazard-information/bushfire/bcoe#bushfire-resources.

DIMENSIONS

The dimensions of the APZ that will be the responsibility of a landowner to implement and/or maintain around a habitable or specified building/structure, are stated as the separation distances between these buildings and each identified area of classified vegetation. These distances will be site specific and dependant on variables which include:

- The potential bushfire behaviour in the identified vegetation which is dependent on factors including vegetation types, fuel loads, ground slopes and fire weather;
- The intended use of the site, with vulnerable uses requiring greater safety margins; and
- The constructed bushfire resistance of the subject building/structure (typically corresponding to a BAL rating or kW/m^2 level of radiant heat exposure).

Dimensions Established by the BAL Rating of the Subject Building/Structure

These minimum separation distances, to be installed and maintained, correspond to a 'determined' BAL rating and align the building's applied level of bushfire resistant construction to its potential level of exposure to flames, radiant heat and embers from the bushfire (note: this will not account for any exposure from significant consequential fires closer to the building).

The dimensions should be stated within a Bushfire Attack Level Report (BAL Report) produced for building application purposes. They may also be identified in an associated Bushfire Management Plan (BMP) produced for planning application purposes.

Dimensions Established by the Guidelines, DPLH/WAPC for an On-site Shelter for a Vulnerable Tourism Land Use

For the stated specific use, the Guidelines specify the maximum level of radiant heat exposure allowed. Consequently, the BMP produced for planning application purposes will state the minimum distances that are to be installed and maintained.

> *Note: Other than for the above use, the Guidelines do not establish the dimensions of the APZ for other buildings/structures that must be installed. They only establish that at least a BAL-29 dimensioned APZ should be the minimum that is installed and ensures that this is possible for the subject planning proposal. Consequently, the BMP can only indicate the separation distances corresponding to different levels of radiant heat exposure. Refer also to Appendix B1 in this BMP.*

Dimensions Established by this BMP

The required dimensions may be identified in this BMP when specific increased separation distances have been applied through the application of an outcomes-based assessment that requires this as an additional protection measure.

Dimensions Established by the BCA (NCC 2022) for Certain Class 9 Vulnerable Use Buildings

These separation distances are stated in the BCA in Specification 43 as either:

- Not less than the minimum distances specified in Table S43C2; or
- Those corresponding to radiant heat flux on exposed building elements not exceeding 10kW/m^2 from a justified design bushfire analysis; or
- Those justified as an outcome of a building performance solution.

The separation distances may be included in the BMP by the bushfire practitioner as additional information to inform proponents and decision makers. They are not addressed by the Guidelines and therefore not a required part of the bushfire assessments presented within a BMP for planning application purposes.

Dimensions Established by a Local Government

To satisfy certain local government requirements, required APZ dimensions may be stated in the notice issued annually by the relevant local government under s.33 of the Bushfires Act 1954. These may be greater than the dimensions applied by the above mechanisms. A maximum APZ dimension could also be applied by the LGA.

These separation distances may be included in the BMP for informative purposes, but they are not a requirement for a BMP submitted for planning application purposes in accordance with the Guidelines.

B4: Vegetation Excluded from Classification – Ensure Continued Low Threat Status

MAINTAINING THE LOW THREAT STATUS OF EXCLUDED VEGETATION

When applying AS 3959:2018 BAL determination methodology, vegetation adjoining or adjacent to the subject site can be excluded from classification based on being a 'low bushfire threat'. To maintain this status, certain requirements must continue to be met in accordance with the below extract from AS3959:2018. Refer to the 'Classified Vegetation and Topography Map' for the relevant low threat areas associated with the subject site.

Determination of 'low threat' vegetation is based on factors such as - proximity to the subject site / small areas of vegetation / low flammability / higher moisture content / low fuel load.

Aside from a naturally occurring low fuel load, vegetation maintained in a minimal fuel condition through active management can be excluded. The associated key requisite is that the active management can be expected to continue in perpetuity, and this can be adequately justified.

Acceptable forms of justification typically involve supportable evidence or the existence of an enforceable mechanism. Examples of enforceable mechanisms include:

- Requirements established by a Section 33 (Bush Fires Act 1954) notice issued by a local government;
- An appropriate and enforceable agreement between relevant parties (which may involve additions to land titles); and
- For public open space or crown land, written evidence that the land manager e.g. local government or a State Government department, agrees to maintain the designated area of land in a low threat state in perpetuity.

2.2.3.2 *Exclusions—Low threat vegetation and non-vegetated areas*

The following vegetation shall be excluded from a BAL assessment:

(a) Vegetation of any type that is more than 100 m from the site.

(b) Single areas of vegetation less than 1 ha in area and not within 100 m of other areas of vegetation being classified vegetation.

(c) Multiple areas of vegetation less than 0.25 ha in area and not within 20 m of the site, or each other or of other areas of vegetation being classified vegetation.

(d) Strips of vegetation less than 20 m in width (measured perpendicular to the elevation exposed to the strip of vegetation) regardless of length and not within 20 m of the site or each other, or other areas of vegetation being classified vegetation.

(e) Non-vegetated areas, that is, areas permanently cleared of vegetation, including waterways, exposed beaches, roads, footpaths, buildings and rocky outcrops.

(f) Vegetation regarded as low threat due to factors such as flammability, moisture content or fuel load. This includes grassland managed in a minimal fuel condition, mangroves and other saline wetlands, maintained lawns, golf courses (such as playing areas and fairways), maintained public reserves and parklands, sporting fields, vineyards, orchards, banana plantations, market gardens (and other non-curing crops), cultivated gardens, commercial nurseries, nature strips and windbreaks.

NOTES:

1 Minimal fuel condition means there is insufficient fuel available to significantly increase the severity of the bushfire attack (recognizable as short-cropped grass for example, to a nominal height of 100 mm).

2 A windbreak is considered a single row of trees used as a screen or to reduce the effect of wind on the leeward side of the trees.

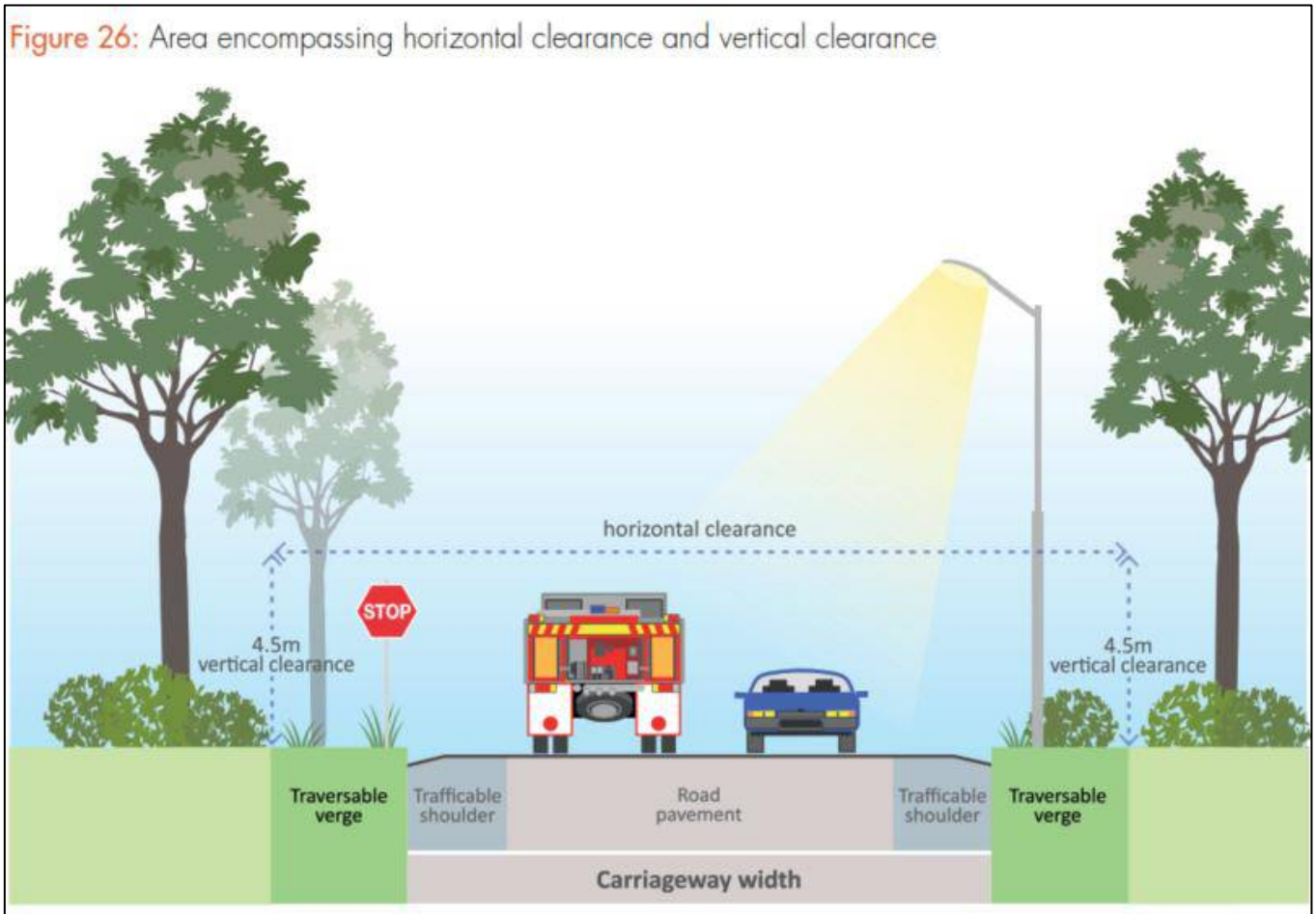
APPENDIX C: GUIDANCE - TECHNICAL REQUIREMENTS FOR VEHICULAR ACCESS

The relevant technical requirements are established in the Planning for Bushfire Guidelines (DPLH/WAPC) (as amended), Appendix B3: Vehicular access and available online at Planning WA - SPP 3.7 Bushfire

The following excerpts are presented here as a quick reference to applicable terminology and design requirements applied in the assessment against the bushfire protection criteria, Element 3: Vehicular access in this BMP.

C1: Road Component Terminology

Figure 26: Area encompassing horizontal clearance and vertical clearance



Horizontal clearance: The carriageway width (including the road pavement and trafficable shoulder) and traversable verge that provides for the movement and parking of vehicles and area required by emergency services to operate. Infrastructure and vegetation within the traversable verge should be frangible, however, non-frangible items can occur providing they do not restrict vehicular movement in the event of an emergency.

C2: Vehicular Access Technical Requirements

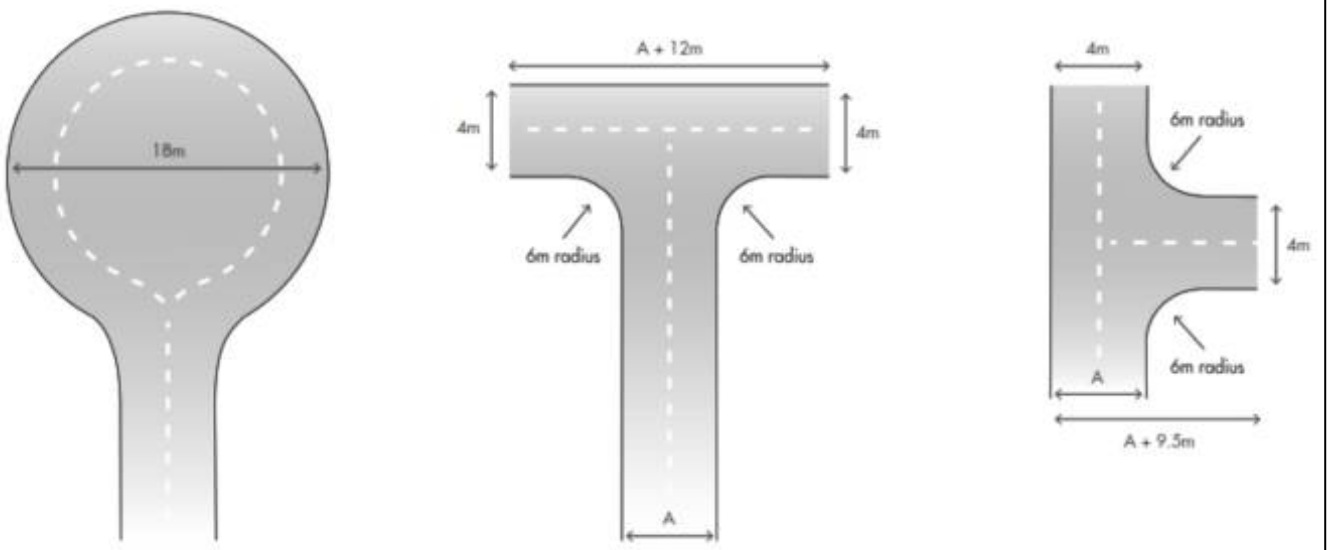
Table 10: Vehicular access technical requirements

	1		2		3		4		5	
TECHNICAL REQUIREMENTS	**PERIMETER ROADS**		**PUBLIC ROADS**		**EMERGENCY ACCESS WAY[3]**		**FIRE SERVICE ACCESS ROUTE[3]**		**BATTLE-AXE & PRIVATE DRIVEWAYS[1]**	
MAP OF BUSH FIRE PRONE AREAS DESIGNATION	**Area 2**	**Area 1**	**Area 2**	**Area 1**	**Area 2**	**Area 1**	**Area 2**	**Area 1**	**Area 2**	**Area 1**
Minimum horizontal clearance (metres)	12	8	See note 5		10	6	10	6	6	
Minimum vertical clearance (metres)	4.5									
Minimum weight capacity (tonnes)	15									
Maximum grade unsealed road[2]	See note 5		See note 5		1:10 (10% or 6°)					
Maximum grade sealed road[2,4]					1:7 (14.3% or 8°)					
Maximum average grade sealed road					1:10 (10% or 6°)					
Minimum inner radius of road curves (metres)					8.5					

Notes:

1. Driveways and battle-axe legs to comply with the Residential Design Codes and Development Control Policy 2.2 Residential Subdivision where not required to comply with the widths in this Appendix or the Guidelines.
2. Dips must have no more than a 1 in 8 (12.5% - 7.1 degrees) entry and exit angle.
3. To have crossfalls between 3 per cent and 6 per cent.
4. For sealed roads only the maximum grade of no more than 1 in 5 (20 per cent) (11.3 degrees) for no more than 50 metres is permissible, except for short constrictions to 3.5 metres for no more than 30 metres in length where an obstruction cannot be reasonably avoided or removed.
5. As outlined in the Institute of **Public Works Engineering Australasia (IPWEA) subdivision guidelines, Liveable Neighbourhoods, Austroads Standards** Main Roads standard, supplement, policy or guideline and/or any applicable or relevant local government standard or policy.

Figure 30: Design requirements for a turn-around area



APPENDIX 3

Local Water Management Report

Hatch Court and Stirling Crescent, High Wycombe

LOCAL WATER MANAGEMENT REPORT

B25016
V2
July 2026

DOCUMENT QUALITY CONTROL

Project Reference		B25016
Ver No.	Purpose	Date
Draft	Client Review	February 2026
V1	Submission for City Review	June 2026
V2	Resubmission (after City comments) for City Review	July 2026

Client: City of Kalamunda

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1 EXECUTIVE SUMMARY

The Hatch Court and Stirling Crescent, High Wycombe Local Water Management Report (LWMR) has been developed to accompany the Local Structure Plan of the precinct to industrial and residential lots.

The subject land is composed of Lots 1, 8 – 16, 51- 53 Hatch Court, Lots 1 – 11 Stirling Crescent and Lots 200 – 201 Kalamunda Road. It also takes into account the Hatch Court and Stirling Crescent Road reserves that front these lots. The subject land, lot boundaries and drainage easements can be seen in Figure 2.

The subject land is bordered by existing commercial/industrial development to the northwest and northeast. To the southeast is predominately existing residential lots, while the southwest borders residential lots and a retirement village. The subject land is noted in Figure 2 with its association to surrounding areas can be seen in Figure 1.

The subject land is currently composed of a mix of land uses. Lots 200-201 Kalamunda Rd are already developed for large laydown industrial activities. The Lots associated with Hatch Court are composed of residential dwellings on 1ha+ lots, with associated lifestyle uses. Stirling Crescent lots are generally residential lots of 4000m2, with one lot of 2ha.

There is a drainage line that traverses the Hatch court portion from east to west, with this also intersecting 2 wetland areas at the eastern and western ends. The drainage line begins within the subject land; however it does receive pipe drainage from the upstream catchments. The end of the drainage line is just outside the subject land in Lewis Road, where it enters an underground drainage network managed by the Perth Airport. There are some excavations that have been dug to a depth that they have open water for at least a portion of the year.

The soil is generally composed of a free draining grey sand (where not previously filled). Groundwater is at/close to the surface around the drainage line, with separation increasing to more than 3m in the higher portion. Further details on the current subject land conditions can be found in Sections 3 – 7.

The objective of this LWMR is to detail the best management practices approach to water management that will be undertaken for this development. This will include managing, protecting and conserving the total water cycle of the local environment and the greater catchment. The practices will involve:

- Stormwater management that incorporates water sensitive urban design practices;
- Management of stormwater flows prior to discharge;
- Flood protection from localised floods;
- Groundwater resource management;
- Creation of new riparian habitat as part of creating a Living Stream
- Protection and enhancement of wetland ecosystems within the subject land; and
- Sustainable water servicing

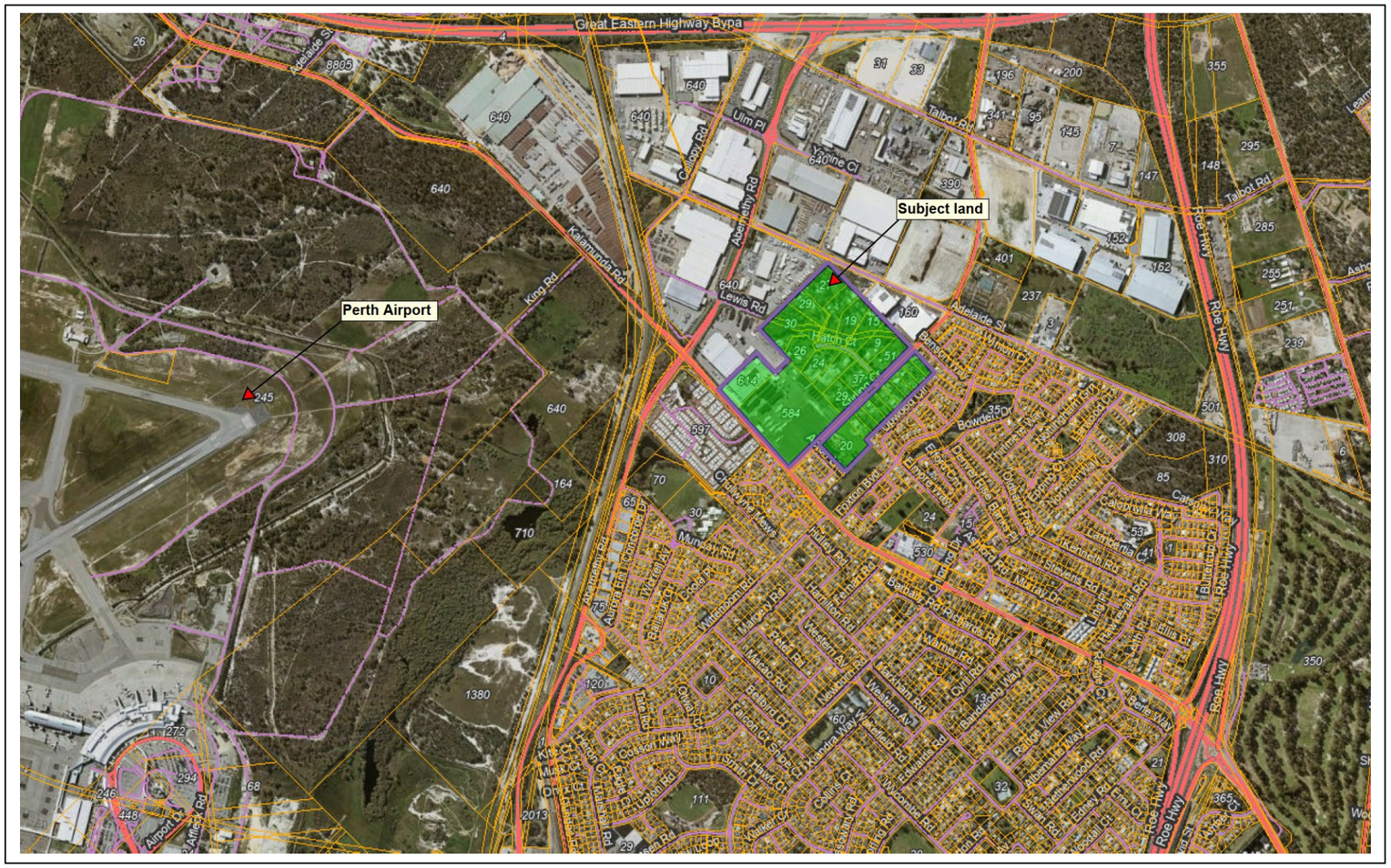


Figure 1 Location Plan

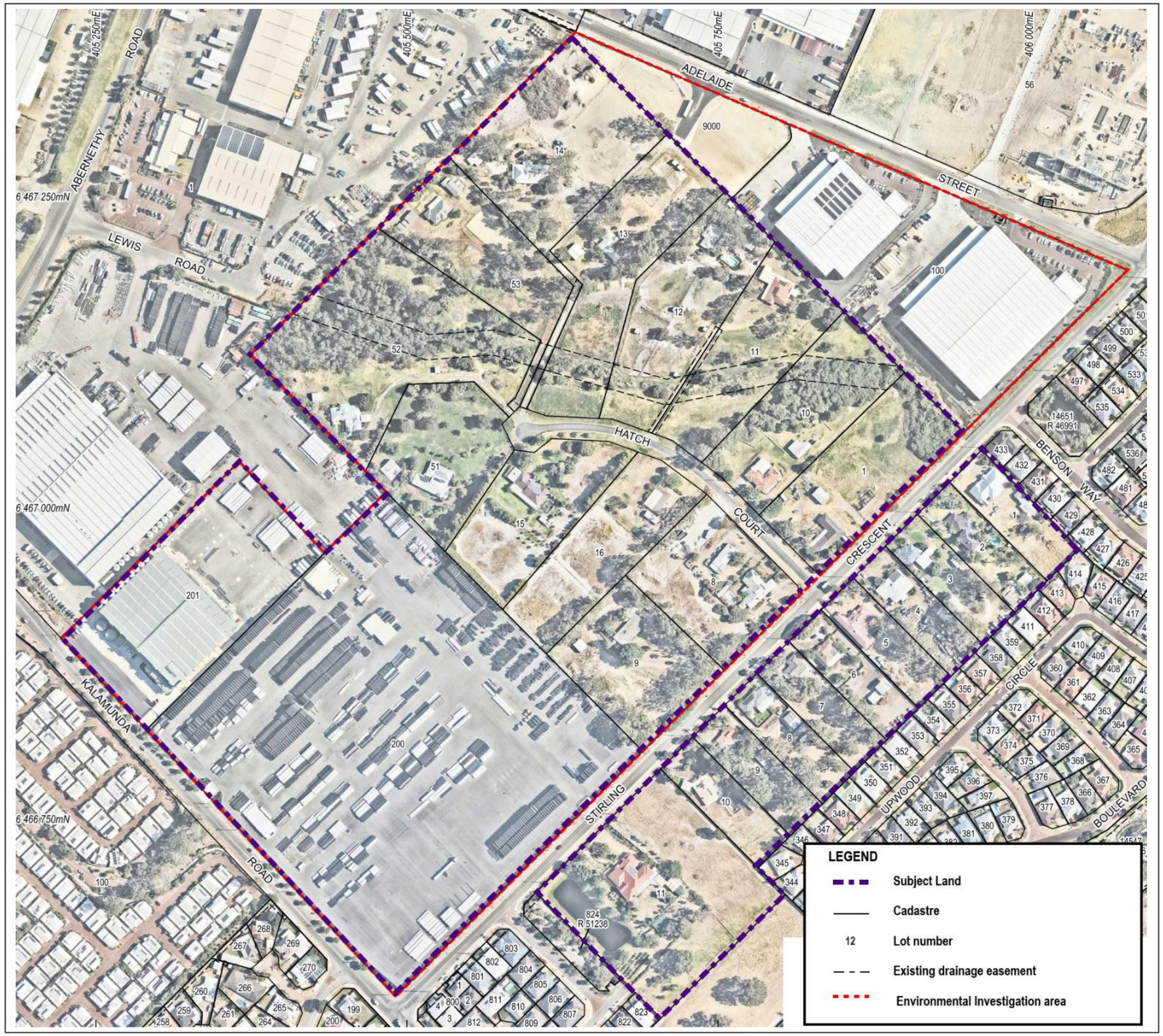
The effectiveness, efficiency and benefits provided by the best management practices require a collaborative effort between the City of Kalamunda (City), land owners/developers and relevant regulatory authorities. The City is committed to consultation on the concepts and outcomes outlined within the LWMR for the subject land. This includes the implementation, monitoring and maintenance of the best management practices for stormwater designed specifically for this site.

1.1 PLANNING SUMMARY

This LWMR has been prepared to accompany the Local Structure Plan. The subject land is to be developed for a combination of industrial lots and R25/R30 residential lots, with these two land uses divided into 2 precincts, either side of Stirling Cres.

A Public Open Space/Drainage reserve or easement is to be created to the south of Stirling Cres that incorporates the current area of open water. The 2 Resource Enhancement wetland areas and Living Stream are to be contained within easements. The layout can be seen in Figure 3.

Figure 2 Subject land



2 KEY ELEMENTS PLAN

Water management strategies for the subject land are based on best practice water sensitive urban designs that integrate sustainability and the provision of attractive communities. The strategies will be achieved through the synthesis of planning and designs to manage, protect and conserve the total water cycle. The plans and designs for the development are appropriate for the subject land's proposed industrial and residential development as well as the local environment and drainage characteristics.

A summary of the WSUD elements that will be implemented within the development to achieve best management practices are outlined below. These are also represented visually in Figure 3.

Water Conservation and Servicing

- All lots are to be connected to a potable reticulated water main to provide security of supply.
- All residential lots are to be connect to mains sewerage.
- All industrial lots are to utilise suitable on-site effluent management including secondary treatment, compliant with the approved Site and Soil Evaluation.
- The Living Stream landscaping is to be primarily irrigated via stormwater and the shallow natural groundwater.
- The residential POS areas may receive irrigation, depending on detailed design.

Stormwater management

- All new residential lots will detain and infiltrate the 5% AEP on site, as per the City of Kalamunda's guidelines.
- All new industrial lots will detain and infiltrate stormwater so that their 1% AEP runoff is in keeping with the requirements of the downstream Perth Airport drainage network.
- Bioretention systems and/or soakwells assist with treatment of stormwater with the new road networks.
- The Living Stream and retained Wetlands assist with treatment and detention of stormwater from the subject land and upstream catchments.
- The Southern POS basin will retain and infiltrate all stormwater discharged into it up to and including the 1% AEP.
- The lot detention, POS basins and Living Stream / Wetland network detain all peak flows to at / below pre development rates as well as meeting the Perth Airport discharge rate.

Flood management

- All lot levels will be designed to maintain a minimum separation clearance of 300mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels generated on site.
- All lot levels will be designed to maintain a minimum separation clearance of 500mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels of the Living Stream and main POS detention basin.
- The Living Stream and Wetland network allows for 1% AEP flood flows to traverse the subject land site as well as providing safe storage.

Groundwater Management

- Inflow to the groundwater is to be treated in bioretention gardens and Living Stream / Wetland network.
- Where necessary the subject land is to be lifted using clean fill to maintain necessary separation to the groundwater.
- Subsoil systems are to be installed to control groundwater rise in areas with groundwater less than 1.5m from the surface.
- Mains sewerage will remove potential pollutants from the residential lots for treatment off site.
- Secondary treatment of industrial lot wastewater will assist with minimising pollutants moving into the groundwater.
- Removal of stock and large gardens is likely to reduce nutrient loads to the groundwater.

Ecosystem Protection and Enhancement

- The stormwater system will assist with capturing sediments, large debris, nutrients and other pollutants from stormwater runoff, protecting the subject land wetlands.
- New riparian ecosystems creation will be undertaken through converting the current degraded drainage line into a Living Stream.
- Bioretention systems will provide some limited habitat to fauna throughout the subject land.
- The wetlands are to be enhanced through weed control and revegetation as well as being protected in reserves with appropriate buffers.

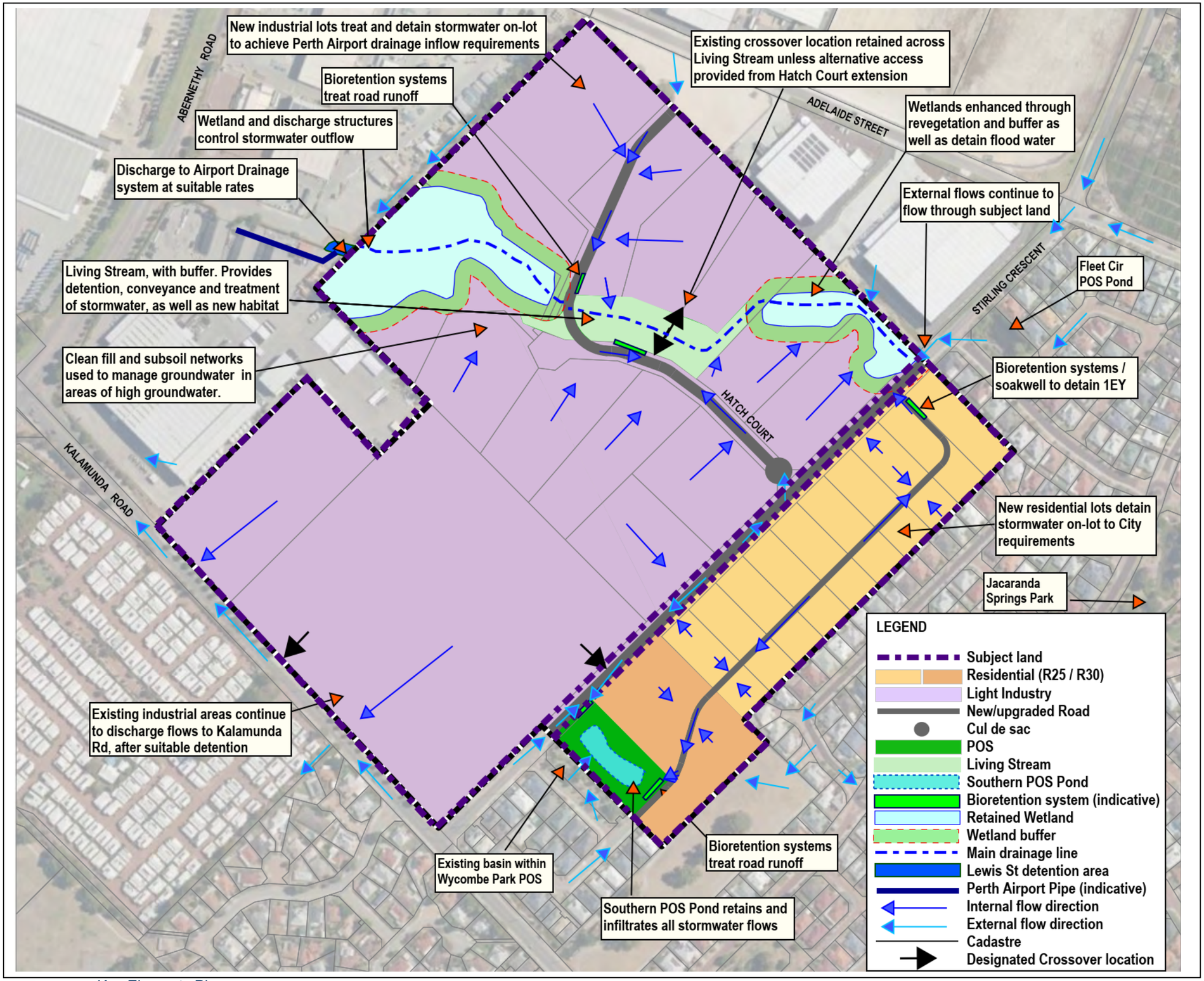


Figure 3 Key Elements Plan

3 LANDFORM

3.1 LANDFORM

The subject area is composed of low undulating Bassendean Sand Dunes, with wetlands between the dunal peaks.

In the current residential portion to the south of Stirling Cres, the land undulates between RL25 and RL 23, with the surface previously earthworked as part of the residential development. There is also an excavation into the groundwater at the south western end of the residential potion. This extends down below RL22, with the exact depth unknown due to being permanently under water. Lots 200 & 201 Kalamunda Rd have been recently filled to create flat pads at approximately RL 24.

The large rural residential lots around Hatch Court generally fall towards the central wetland and drainage system. In the southern portion the ground falls in a general northernly direction from a series of low peaks ranging from RL23.4 to RL 24. In the north, the land falls in a south/south-westerly direction from sand dune peaks ranging from RL21.4 to RL22.7.

The far eastern corner is composed of a seasonally waterlogged wetland at RL 20.7 – RL 21.3. A drain has been created from this wetland, with an invert level of RL20.76, that flows westward across the subject land before entering and traversing another wetland in the western corner. This wetland is also seasonally waterlogged and ranges from approximately RL 19.4 – RL19.9. There are also some excavations within this wetland to create small ponds.

The exception to the area that falls to the central drainage network is an area in the most southern corner, which is composed of a trapped low, at approximately RL 22. A portion has also been excavated into the groundwater. A small catchment area from the subject land and adjoining Stirling Cres Rd feed into this area.

The landforms of the subject land can be seen in Figure 4, with a survey of the key areas in Appendix D. A plan of LiDAR contours can also be seen in Appendix D, noting that some areas have been filled since the LiDAR information was collected.

4 ENVIRONMENTAL CONDITIONS

An Environmental Assessment Report of the subject land was prepared by PGV in May 2026

It assessed and identified vegetation types and condition and the presence of fauna as well as the characteristics of the drainage line and wetlands. The following is a summary of this information as well as site visits by Oversby Consulting.

4.1 WETLANDS

The majority of the subject land has been classified as having wetland characteristics (*DBCA Geomorphic Wetlands of the Swan Coastal Plain)*. The wetlands are predominately classified as Multiple Use (MU) wetland (6 wetlands) with there also being 2 Resource Enhancement (RE) wetlands with the Identifiers 15939 (western wetland) and 15940 (eastern wetland). Some of the areas eg Lots 200 and 201 have been filled, removing their wetland characteristics since the mapping was undertaken. There are no Conservation Category wetlands within 200m of the subject land. The subject land wetlands are predominately Sumpland and Dampland types. The areas that have been excavated below the groundwater provide permanent/semi-permanent open water conditions within the mapped wetland types. A summary of the relevant wetlands can be seen in Table 1. The DBCA wetland mapping can be seen in Figure 7.

Table 1 Subject land wetlands

Wetland Classification	Wetland Type	UFI Number	Location
Resource Enhancement	Sumpland	16226	Western part of the creekline drainage line.
Resource Enhancement	Sumpland	15940	Eastern part of the creekline drainage line.
Multiple Use	Sumpland	16225	To the north of the western REW
Multiple Use	Sumpland	15898	Traverses the centre of the northern part site from east to west along the creekline.
Multiple Use	Dampland	15267	South of the creekline.
Multiple Use	Sumpland	15777	Northern part of Lot 200
Multiple Use	Dampland	15779	Central part of Lot 200
Multiple Use	Sumpland	15780	The southern part of Lot 200.

The two RE wetlands exhibit characteristics consistent with their classification, with both having some native vegetation and a water level that supports general wetland functions.

4.2 WATERWAYS

There are no defined natural waterways remaining within the subject land, although historically there was a natural waterway associated with a wetland chain (now located within MU wetland UFI15898). By 1985 a constructed open drain had been installed through the subject land and downstream. The broader floodplain has also been partially filled, and some small dams are located along it. It is also intersected by a number of driveways and associated culverts, which restrict larger flows.

This open drain is considered a first order stream due to no defined other waterways entering it. The flow is seasonal, with a base flow from groundwater for much of winter and spring.

The open drain is predominately covered in pasture weeds and kikuyu, with some isolated *Melaleuca rhaphiophylla* and *Melaleuca preissiana* on its banks. It is generally considered to be in a Degraded to Completely Degraded condition, with a small area at the eastern end rated as Degraded to Good (the portion within RE Wetland UFI 15940). The surrounding floodplain is also generally Degraded to Completely Degraded. More details can be found in the EAR.

There are also no other natural waterways within 200m of the subject land.

4.3 RIPARIAN FLORA

No Threatened or Priority flora species have been recorded within the subject land and none were recorded during PGV's survey. The native flora recorded on the drainage line and wetland includes:

- *Eucalyptus rudis* (Flooded Gum);
- *Melaleuca rhaphiophylla* (Paperbark);
- *Astartea fascicularis*;
- *Typha orientalis* (Bulrush);
- *Juncus pallidus* (Pale Rush);
- *Hypocalymma angustifolium* (Pink-flowered Myrtle);
- *Lepidosperma longitudinale* and
- *Dielsia stenostachya.*

The majority of the riparian areas were dominated by weed species including

- *Cenchrus clandestinus* (Kikuyu);
- *Zantedeschia aethiopica* (Arum Lily) – a Declared Pest and Weed of National Significance (WoNS);
- *Washingtonia filifera* (Cotton Palm);
- *Gomphocarpus fruticosus* (Cotton Bush), a Declared Pest; and
- *Arundo donax* (False Bamboo).

4.4 VEGETATION

The vegetation within the subject land is part of the Southern River Vegetation Complex (Heddle *et al.,* 1980) and is described as "open woodland of *Corymbia calophylla-Eucalyptus marginata-Banksia* species with fringing woodland of *Eucalyptus rudis -Melaleuca rhaphiophylla* along creek beds". Due to the subject land being predominantly cleared with isolated native and introduced trees over weeds, the subject land's vegetation is too degraded to be a good example of this vegetation complex.

Five vegetation types have been described on the site in 2014 and the 2025. The vegetation previously recorded on Lot 200 Kalamunda Road, Lot 100 and Lot 9000 Adelaide Street has since been cleared from earlier observations. The remaining vegetation types are:

- **Cleared Areas** that contain no, or very few, native plants and are vegetated by exotic species (majority of subject land).
- **ErMr** *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily.
- **Er** *Eucalyptus rudis* Woodland to Low Forest over Pasture.
- **Mr** *Melaleuca rhaphiophylla* Low Woodland over Typha and Arum Lily.
- **MrAf** *Melaleuca rhaphiophylla* / *Astartea fascicularis* Thicket to Low Woodland

All of the remaining vegetation types, that still contain a range of native species, are riparian in nature.

A large area of the site has been cleared for rural purposes or contains only introduced species and is Completely Degraded. The northern area is considered to be Degraded to Completely Degraded and consists of native trees over bare sand and weeds. The small eastern area of remnant vegetation associated with the RE wetland is considered to be in Degraded to Good Condition and consists of a native tree and sedge species with a number of weed species present. The western area of wetland vegetation is considered to be in Degraded Condition with native trees over weeds. The vegetation types and conditions can be seen in Figures 5 and 6.

4.5 FAUNA

There are four fauna habitats within the subject land, which are listed below. The last to are riparian in nature:

- Upland Banksia sp. and *Eucalyptus todtiana* scattered over cleared understorey;
- Cleared paddocks with scattered exotic trees.
- Wetland with *Melaleuca rhaphiophylla* and Eucalyptus rudis over weedy understorey;
- Wetland with weeds

As well as the native vegetation being relatively degraded within the subject land, the quality of the fauna habitat is limited due to it being fragmented from other areas of native vegetation, the closest being Munday Swamp approximately 1km to the south-west. The scattered parkland trees are considered to be Highly Degraded Fauna Habitat due to the cleared understorey.

The wetland areas on the site containing native trees are considered to be Disturbed Fauna Habitat. The understorey consists completely of weeds apart from a small section in the eastern area containing *Lepidosperma longitudinale*. The eastern section has been invaded by Japanese Pepper trees and the western section contains an abundance of Arum Lily. The drainage line with weeds such as False Bamboo and Bulrushes is considered to be Highly Degraded Fauna Habitat due to the absence of any native flora species.

The drainage line is disturbed fauna habitat but provides habitat for some frog and waterbird species and there is anecdotal evidence that it supports a population of Oblong Turtles (*Chelodina oblonga*). It is possible that the subject land could provide some limited habitat for the Rakal or Water Rati (*Hydromys chrysogaster*), which is listed as a Priority 4 species.

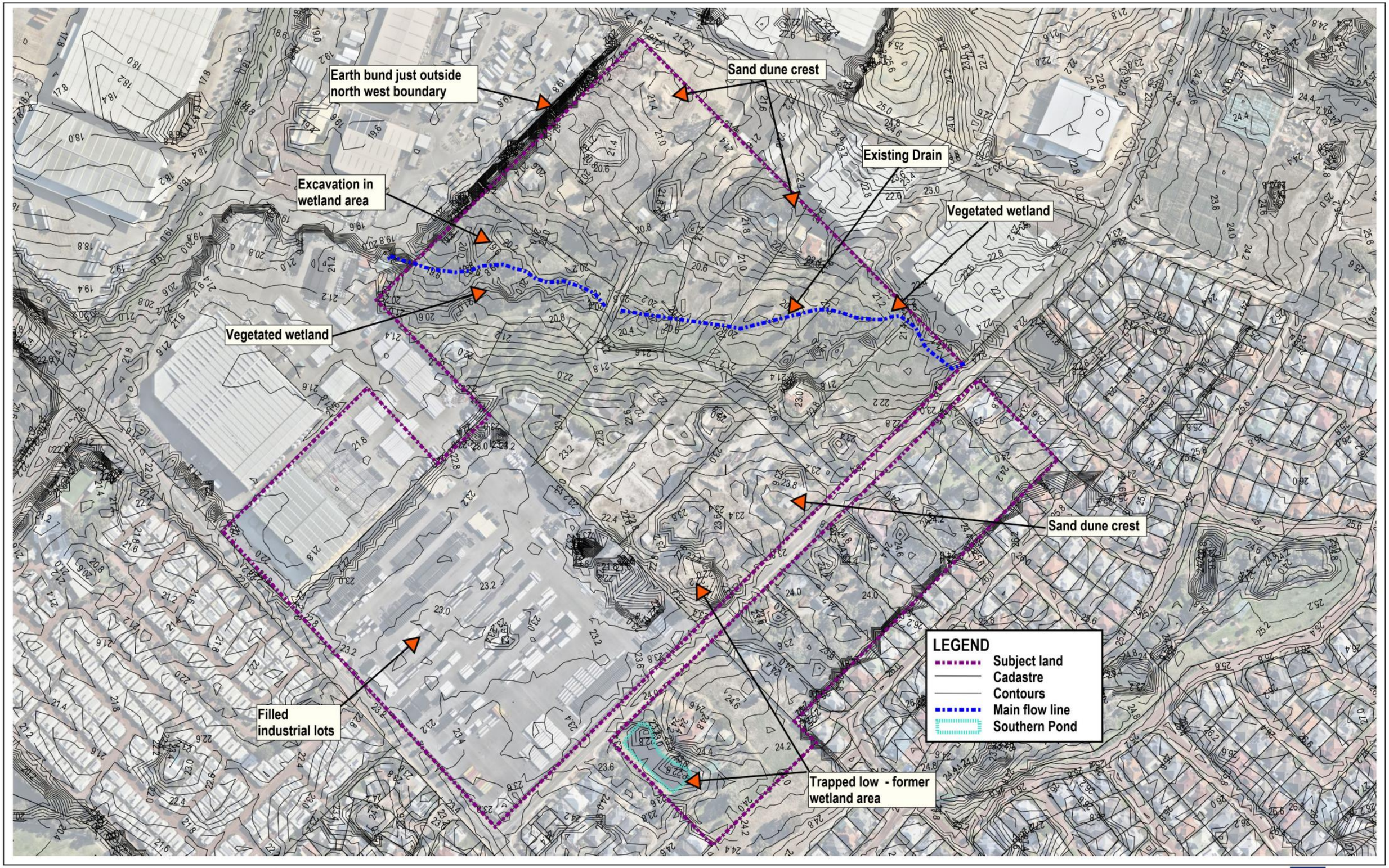


Figure 4 Landform characteristics

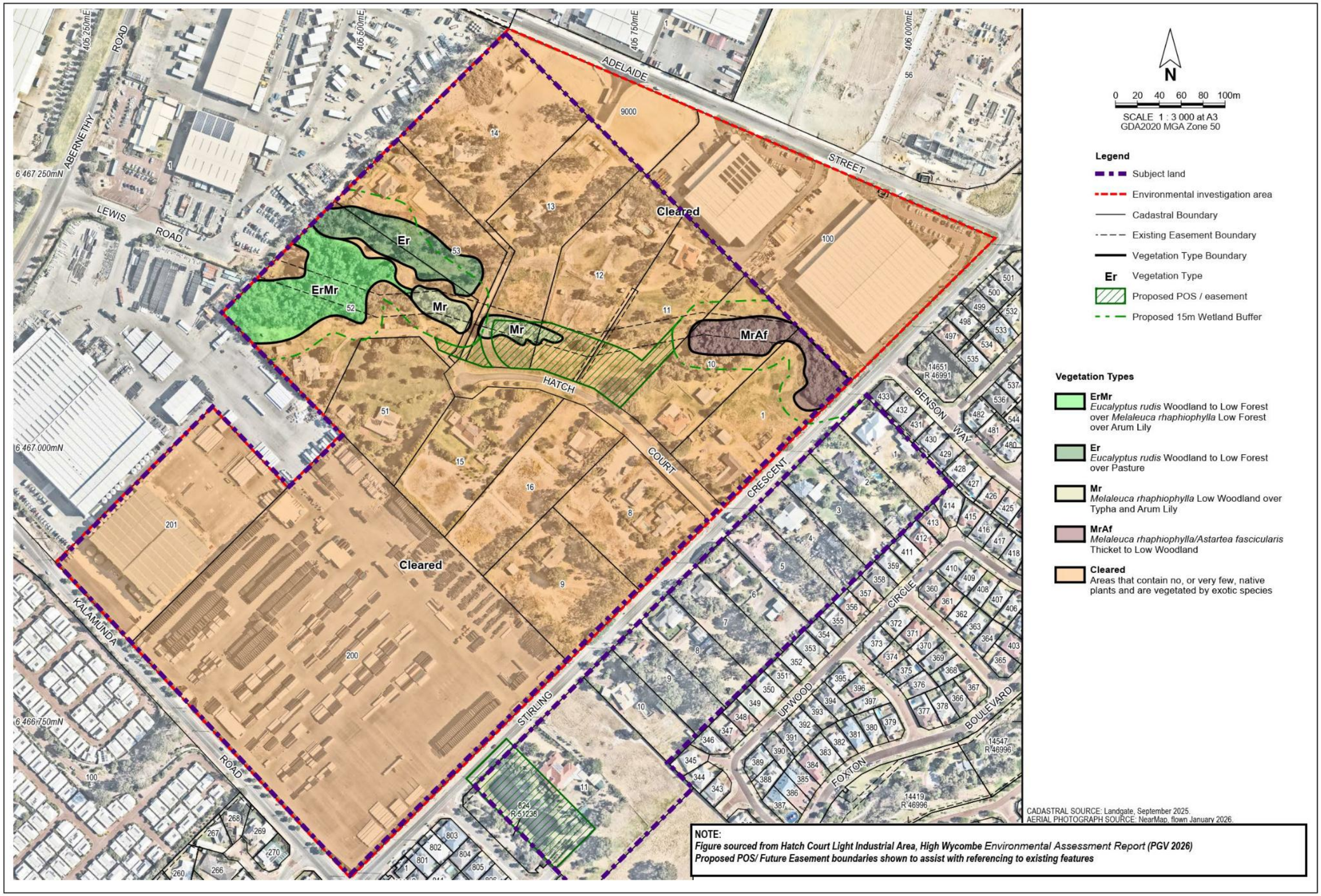


Figure 5 Mapped vegetation types

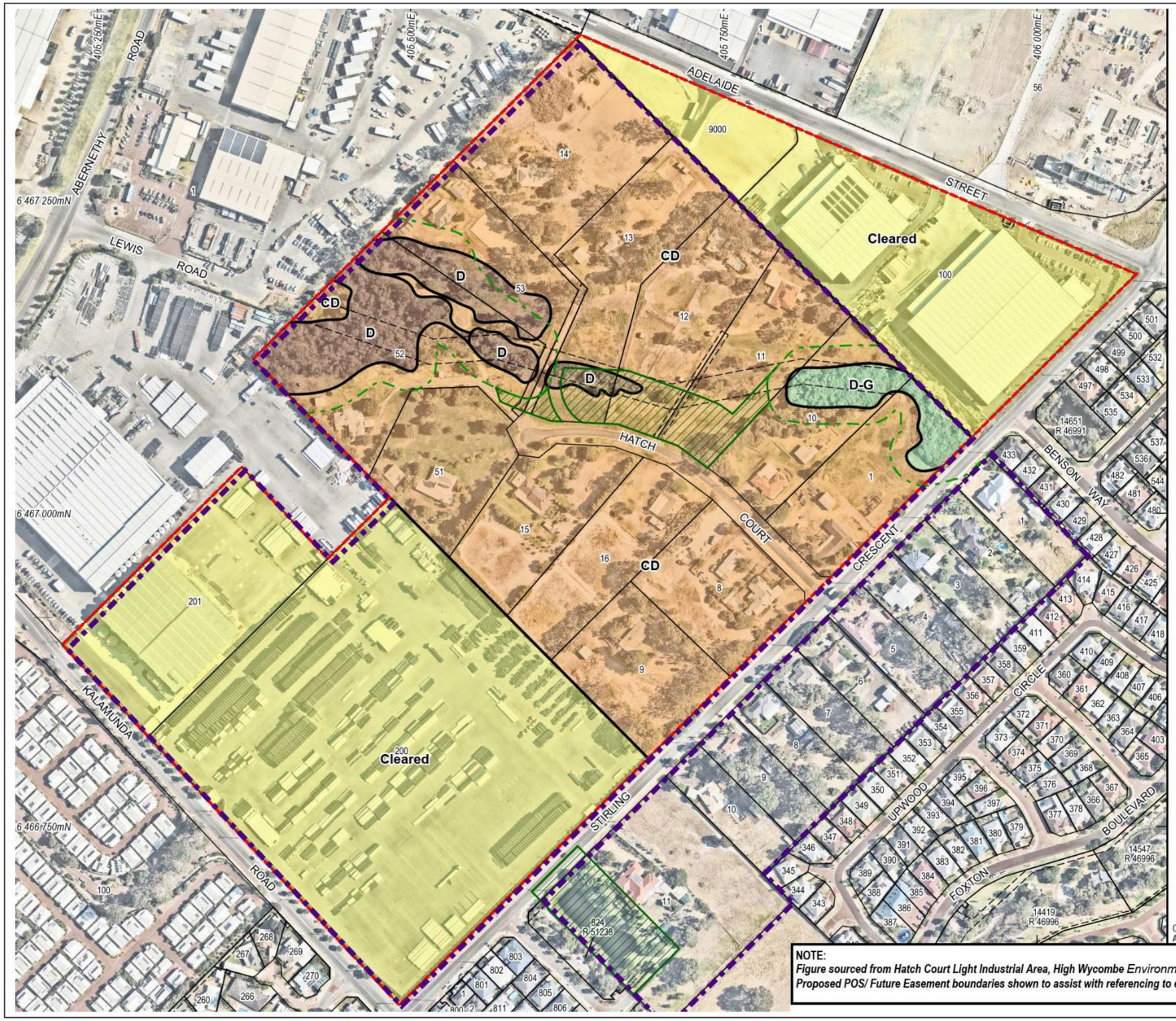


Figure 6 Vegetation condition

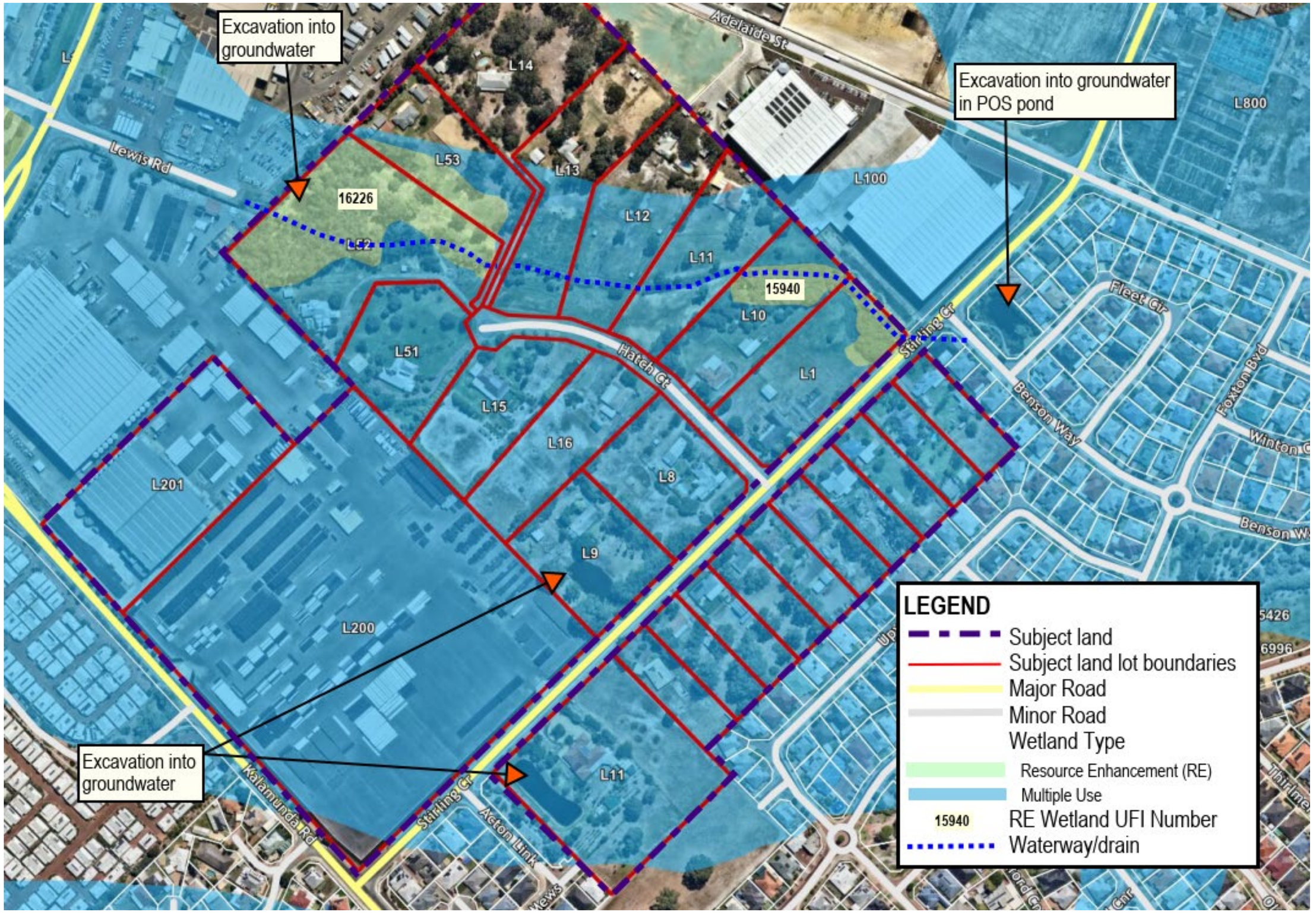


Figure 7 Historical wetland mapping

5 GEOTECHNICAL

Galt Geotechnics undertook a range of geotechnical assessments across the subject land in August and September 2025. They have also undertaken several other historical investigations for sub areas of the subject land. This information was compiled in the report titled *Geotechnical and ASS Study Hatch Court Light Industrial Area and Stirling Crescent Precinct Hatch Court And Stirling Crescent, High Wycombe, WA* (2025). The following is a summary of the information gathered as part of these investigations. The testing locations can also be seen in Figure 8.

5.1 GEOLOGICAL MAPPING

The geological map for the area shows the site to be composed of the following units:

- **Cps**: Peaty CLAY: “dark grey and black with variable sand content of lacustrine origin [Swamp Deposits (Qhw)]”
- **S8**: Bassendean SAND: “very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin”
- **S10**: “Thin Bassendean Sand over Guildford formation”

5.2 SUBSURFACE CONDITION

The following is a description of the soil types found.

Over most of the subject land SAND extending to depths of 2.0 m to over 6.2 m, overlying Guildford Formation (interbedded stiff to hard cohesive soils and medium dense granular soils) at some locations extending beyond investigated depths. The sand is characterised as a medium grained, sub angular to sub rounded, typically grey, typically trace fines, typically loose to depths of about 0.5 m to 2.5 m and then becomes typically medium dense, extending to depths of 2.0m to over 6.2 m. Where encountered, the Guildford Formation was composed of interbedded CLAY / Clayey SAND / Sandy CLAY / SAND Layers (SP/SC/CL-CH) and was typically composed of stiff to hard cohesive layers and medium dense sand layers.

In addition:

- The surficial sand is interbedded with Cemented sand / ‘Coffee Rock’ layers (about 0.3 m to 1.0 m thick) below about 2.0 m to 3.4 m depth. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations.
- Peat / organic soils were encountered within / adjacent the drainage line in the northern part of the subject land and within the wetland area near Lewis Road. Similar zones of organic soils could be present in open water bodies.
- Surficial uncontrolled fill about 1.1 m thick was encountered in the northern corner of subject land

5.3 ACID SULPHATE SOILS (ASS)

According to the DWER online ASS risk database, the subject land is generally mapped as being within an area of ‘moderate to low’ ASS risk (highlighted in yellow in In-line Image 4 below), with part of the site identified as having ‘high to moderate’ risk (highlighted in red in In-line Image 4 below) within the upper 3 m of the soil profile. High risk areas are judged to be associated with potential organic soils mapped in some areas (see Section 5.2).

Based on the findings of the study and previous experience with ASS identification, coffee rock and organic soils at the site are considered to be ASS. It was also noted that the groundwater had mildly elevated inherent acidity along with high to very high alkalinity concentrations at both monitoring locations indicating that groundwater will likely have sufficient self-buffering capacity to maintain an acceptable pH in the event of ASS generation. A summary of the soil pH can be seen in Table 2 and 3.

Table 2 pH of soil samples – all studies

Test Name	pH
Subject Land. August/ September 2025	
BH02	8.4
BH04	4.8
BH06	7.3
G07	7.8
G10	7.7
27 Hatch Court. May 2025	
G01	6.6
G03	6.6
Lots 8 and 16 Stirling Crescent. November 2024	
G01	5.8
BH16	6.2
G02	0.2 to 0.6

Table 3 Summary of Soil field ASS testing

Field pHf range	Field pHfox range	pH change	Laboratory pH range	Maximum Net Acidity (%S)
4.7 – 8.5	2.6 – 6.5	1.0 – 5.8	4.0 – 9.5	<0.02 – 0.14

5.4 PHOSPHORUS RETENTION INDEX

The phosphorus retention index’s values for the site show that the natural soil is generally poorly absorbing near the surface, with a greater ability to absorb phosphorus at depth. The results can be seen in Table 4.

Table 4 Phosphorous Retention Index Results

Test Name	Phosphorus Retention Index
Subject Land. August/ September 2025	
BH02	21
BH04	200
BH06	4.0
G07	0.5
G10	1.5
27 Hatch Court. May 2025	
G01	-0.14
G03	-0.48
Lots 8 and 16 Stirling Crescent. November 2024	
G01	-0.11
BH16	-0.25
Part of Lot 1499 Stirling Crescent. September 2023	
BH04	0.62
G02	1.2

5.5 CONTAMINATED SITES

The DWER contaminated sites database indicates that the site is not registered as a contaminated site. It is noted that the public database only shows sites classified as 'Remediated for restricted use', 'Contaminated – restricted use', 'Contaminated – remediation required'.

During geotechnical fieldwork there were no visual or olfactory indicators of potential contamination. There are some areas of uncontrolled fill in the northern corner of the subject land. This may require investigation if anthropogenic waste is encountered within the material and/or it is proposed to be reused onsite.

5.6 PERMEABILITY

Outside of areas of high groundwater, the permeability of the sand material is moderate to high (3.8m/day – 31.3m/day – Falling head method) (1.6m/day – 25.01m/day) – Constant head method). These results can be seen in Tables 5 and 6 respectively. Permeability may be lower in areas where high groundwater is present, with results in high groundwater areas shown to be between 0.44m/day and 0.94m/day. The sampling locations can be seen in Figures 6.

Table 5 Permeability Test Results – *Falling Head*

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, ksat (m/day)
27 Hatch Court. May 2025			
BH02 / IT01	SAND (SP)	0.84	3.9
BH07 / IT02	SAND (SP)	0.90	3.8
BH08 / IT03	SAND (SP)	0.84	31.3
BH05 / IT04	SAND (SP)	0.84	4.7
Lots 8 and 16 Stirling Crescent. November 2024			
BH07 / IT01	SAND (SP)	0.88	> 15
BH08 / IT02	SAND (SP)	0.86	6.3
BH10 / IT03	SAND (SP)	0.82	3.9
BH16 / IT04	SAND (SP)	0.77	7.1
BH06 / IT06	SAND (SP)	0.77	> 15
Part of Lot 1499 Stirling Crescent. September 2023			
IT01	SAND (SP)	0.95	10.6
IT02	SAND (SP)	1.00	9.4

Table 6 Permeability Test Results – *Constant Head*

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, ksat (m/day)
G01/BH01	SAND (SP)	0.38	25.01
G02/BH02	SAND (SP-SM)	0.42	*0.94 **
G03/BH03	SAND (SP)	0.57	9.05
G05/BH05	SAND (SP)	0.44	*0.44 **
G07/BH15	SAND (SP)	0.53	9.82
G09/BH09	SAND (SP)	0.52	3.94
G10/BH10	SAND (SP)	0.47	3.53
27 Hatch Court in May 2025			
G01	SAND (SP)	0.33	3.56
G02	SAND (SP)	0.41	2.82
G03	SAND (SP)	0.40	3.31
71 Stirling Crescent in March 2023			
IT01	SAND (SP)	0.50	1.6
IT02	SAND (SP)	0.50	2.1
IT03	SAND (SP)	0.55	3.3
IT04	SAND (SP)	0.60	2.8
Lots 8 and 16 Stirling Crescent in November 2024			
G01	SAND (SP)	0.44	5.11
G02	SAND (SP)	0.50	3.17
G03	SAND (SP)	0.39	3.26
G04	SAND (SP)	0.40	10.95
Part of Lot 1499 Stirling Crescent in September 2023			
G01	SAND (SP)	1.00	3.9
G01A	SAND (SP)	0.80	2.3
G01B	SAND (SP)	0.53	> 15
G02	SAND (SP-SM)	0.90	*0.07 #*
G02A	SAND (SP)	0.70	1.74
G02B	SAND (SP)	0.70	1.67
G02C	SAND (SP)	0.50	>15

NOTES: ***1.*** *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS1547 (2012) "On-site domestic wastewater management".*

** = Test results likely to have been influenced by shallow groundwater*

 # = Result considered spurious.

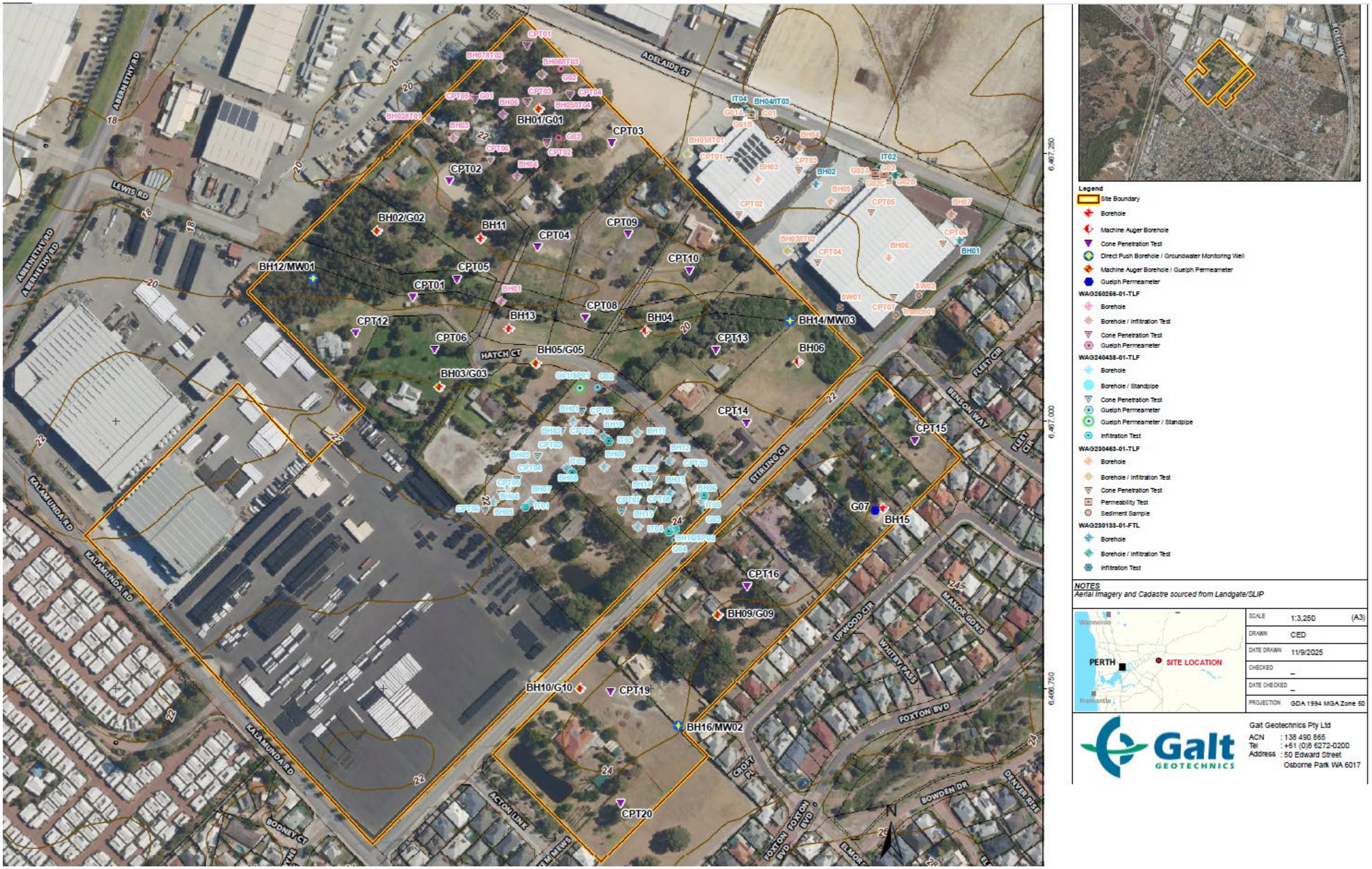


Figure 8 Test pit locations – current and former investigations

6 GROUNDWATER (PRE DEVELOPMENT)

The following is a summary of the current groundwater characteristics of the site, taken from the geotechnical investigations, the DWMS, Perth Airport investigations and online resources.

It is also noted that the site is not within a Public Drinking Water Source Area (PDWSA).

6.1 SUPERFICIAL GROUNDWATER LEVELS

The groundwater levels within the online Perth Groundwater Atlas (DWER) show that groundwater is generally moving in a north westerly direction. The maximum groundwater levels are noted as dropping from approximately 19.9mAHD to 17.2mAHD. These contours can be seen in Figure 9.

A groundwater contour map was also undertaken as part of a broader assessment for the Perth Airport. The levels found are similar to the Perth Groundwater map, with levels dropping across the subject land from 24mAHD to 21mAHD.

Furthermore, a 12-month groundwater monitoring program was undertaken as part of the District Water Management Strategy investigations (ENV, 2009), which covers the subject area. Bores MW1 – MW4 are located within the current subject land, with DWER Bore 4849 to the east. Based on the 12 months of monitoring the average annual maximum groundwater level (AAMGL) was determined, with the results outlined in Table 7 and shown on Figure 10. The general flow, as determined by the broad scale groundwater investigation, was in a northerly direction. Further details of the DWMS monitoring can be seen in Appendix C.

Table 7 DWMS groundwater level results

Bore	Maximum Recorded Groundwater Level (mAHD)	Depth to maximum Recorded Groundwater Level (m)	AAMGL (mAHD)	Depth to AAMGL (m)
MW1	22.273	1.02	22.136	1.157
MW2	21.484	0.248	21.320	0.412
MW3	21.451	1.555	21.314	1.692
MW4	21.173	0.695	21.016	0.852
DoW 4849	14.937	-	14.720	-

Groundwater monitoring was also undertaken as part of the geotechnical investigation (see Section 5). As 2025 had high rainfall during the test period, the groundwater levels are likely to be close to the maximum. Groundwater was also noted to be discharging into the drainage line that traverses the subject land, which effectively controls further rise in levels. The general groundwater characteristics can be seen in Figure 11. This shows that the groundwater is generally shallowest around the wetlands and drainage line. The depth extends to over 2m in the higher sand dunes. There are also some other localised areas where groundwater was noted as being within 1m of the surface during August/September 2025. Groundwater is also noted as being present in the areas of excavation both within the subject land and the adjoining POS pond. Discussions with local lot owners suggests that the groundwater in the most southern open waterbody drops approximately 1 – 1.5m annually.

Based on the levels within the open ponds and geotechnical investigations, a more refined groundwater contour map was developed. From this groundwater falls in a north/north westerly direction from RL23 to RL19. There localised lowering influenced of the drainage line can be seen in Figure 11 and 12. There are also some small areas of mounding associated with areas where the subsurface soils impedes downward flow of groundwater. The localised influences will tend to reduces as the peak groundwater levels drop below the invert of the drainage line, and the mounded groundwater flows off the less impervious areas.

Groundwater monitoring was also undertaken as part of the geotechnical investigation. As 2025 had high rainfall during the test period, the groundwater levels are likely to be close to the maximum. Groundwater was also noted to be discharging into the drainage line that traverses the subject land, which effectively controls further rise in levels.

These levels are in keeping with the levels found as part of the DWMS investigations, while noting the more refined scale of investigations highlights the localised impact of the subject land's drainage line.

6.2 GROUNDWATER QUALITY

Groundwater sampling as part of the geotechnical investigations was undertaken. The results showed indicate a pH ranging from 6.18 – 7.16. Mildly elevated inherent acidity along with high to very high alkalinity concentrations were noted, indicating that groundwater will likely have sufficient self-buffering capacity to maintain an acceptable pH in the event of ASS generation.

Elevated concentrations of aluminium and iron indicate that historical oxidation of ASS may have occurred at the site. The metal concentrations are similar to much of the eastern Swan Coastal Plan. Concentrations of chloride were found to exceed non-potable use of groundwater guidelines in MW01 (330 mg/L). A summary of the results can be seen in Table 8. Further details can be found in the Geotechnical report (Appendix B).

Table 8 Groundwater quality

Test Name	Electric Conductivity (us/cm)	pH
Subject Land. August/ September 2025		
BH02	300	8.4
BH04	1000	4.8
BH06	110	7.3
G07	14	7.8
G10	73	7.7
27 Hatch Court. May 2025		
G01	66	6.6
G03	60	6.6
Lots 8 and 16 Stirling Crescent. November 2024		
G01	32	5.8
BH16	36	6.2

Groundwater quality sampling was also undertaken as part of the DWMS. A summary of these results is as follows:

- Groundwater is generally fresh;
- Groundwater is slightly acidic with typical pH values less than 6.25;
- Total Nitrogen (TN) exceeds the ANZECC (2000) guideline of 1.2 mg/L and the Swan Canning Cleanup Program Long Term Target of 1 mg/L ranging from 1.5 mg/L to 3.2 mg/L; and
- Total Phosphorus (TP) is above and below the ANZECC (2000) guideline of 0.065 mg/L and the Swan Canning Cleanup Program Long Term Target of 0.1 mg/L ranging from 0.05 mg/L to 2.75 mg/L

6.3 AQUIFERS AND ALLOCATIONS

The Water Register indicates the Site lies within the Perth groundwater area (DWER, 2021). Groundwater below the Site is a multilayered system comprised of the following:

- Perth – Superficial Swan Aquifer. Sub area – Shire of Kalamunda
- Perth – Leederville Aquifer. Sub area – Perth South Confined
- Perth – Yarragadee South Aquifer. Sub area – Perth South Confined

As of December 2025, there is allocation available in the Superficial, while the Yarragadee and Leederville Aquifers are fully allocated.

There are no current water licences noted within the subject land, however the City of Kalamunda does have an active licence allocation for the adjoining POS (Licence number 158077, Perth Superficial Swan – 952,475kl).

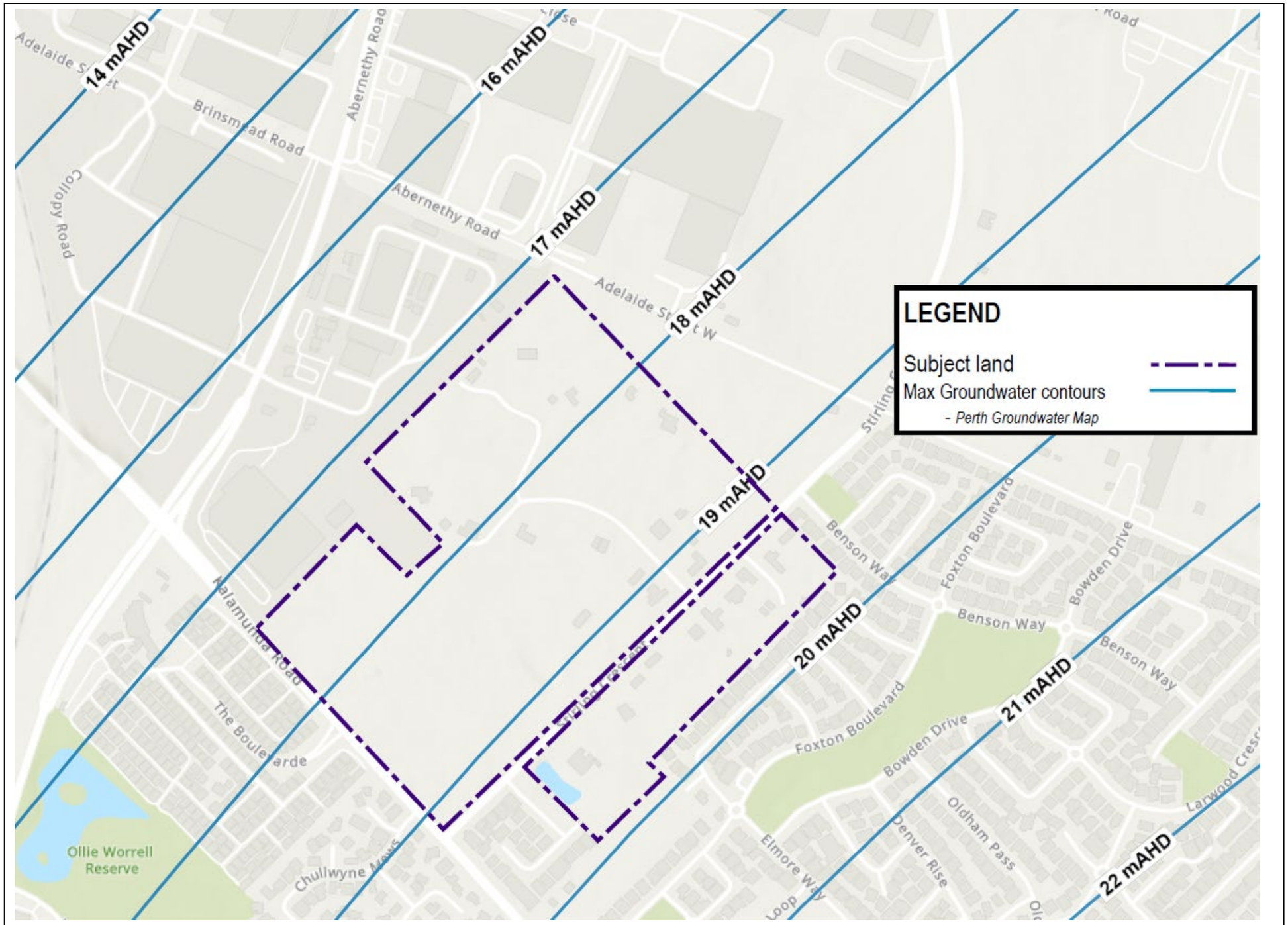
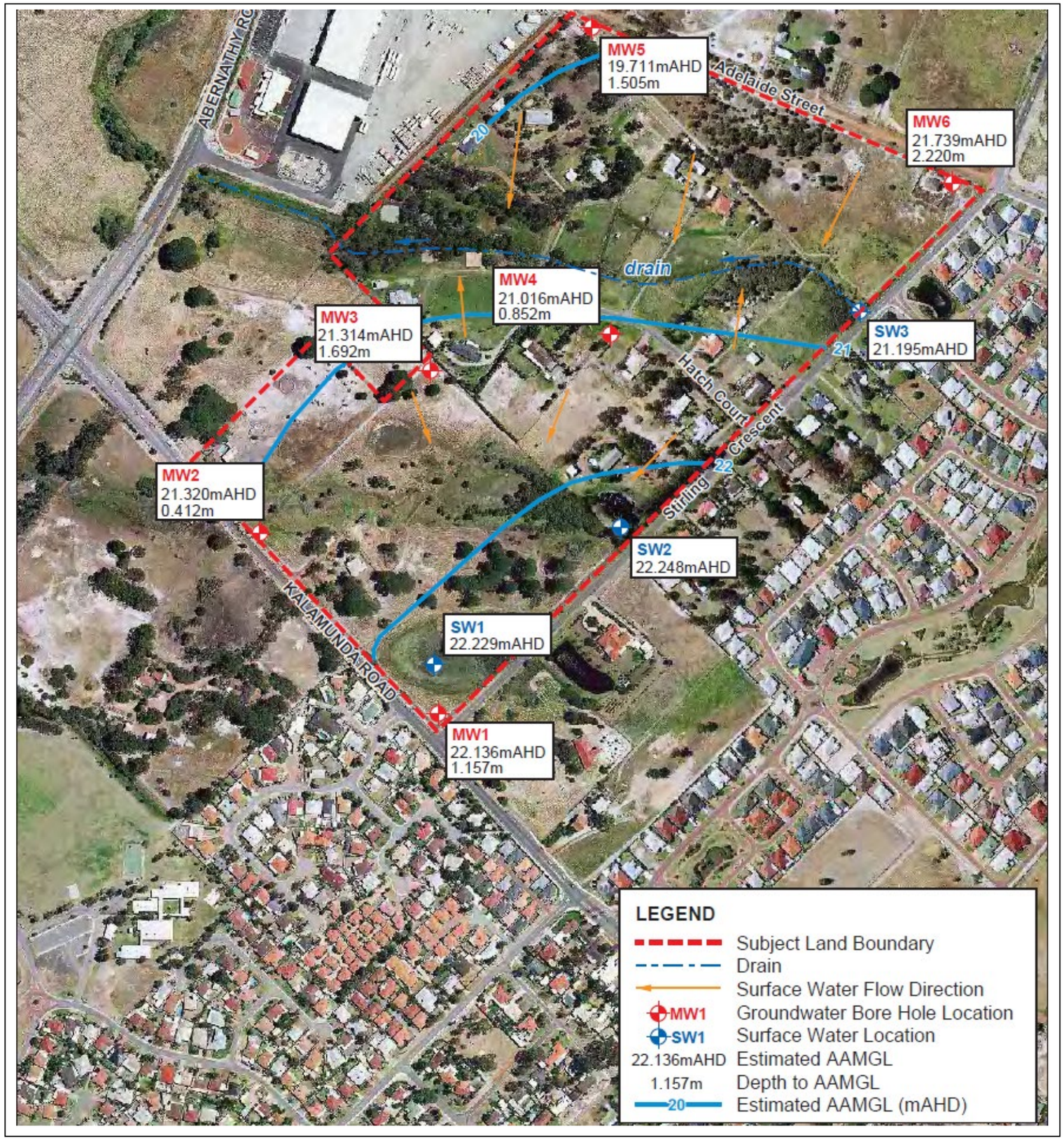


Figure 9 Perth Groundwater Map – 2019 Maximum groundwater levels

Figure 10 DWMS groundwater and surface water monitoring details





Site Boundary
Borehole
Machine Auger Borehole
Cone Penetration Test
Direct Push Borehole / Groundwater Monitoring Well
Machine Auger Borehole / Guelph Permeameter
Guelph Permeameter
Groundwater 1.0m below surface level - boundary
Groundwater 0.6m below surface level - boundary
Drainage line

Bore data from Galt Geotechnics investigations

Figure 11 General groundwater characteristics



Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter
- Drainage Line
- 21.8 Groundwater depth from geotech (RLm)
- Groundwater contour line
- 20 Groundwater contour level(RLm)
- DWMS Groundwater bore
- DWMS Surface water level monitoring point

Bore data from Galt Geotechnics investigations

Figure 12 Pre development groundwater contours

7 PRE DEVELOPMENT SURFACE WATER

7.1 GENERAL

The subject land's surface water predominately infiltrates into the sandy soils except during intense heavy rain events. The exception is for those areas of the subject land where the groundwater comes to or close to the surface eg within 0.3m of the surface. This means that the runoff is generally greatest during large thunderstorms or in late winter when groundwater is highest.

The subject land has multiple catchments where water either discharges off site or is infiltrated within the trapped lows. Furthermore, there are significant upstream catchments that feed into the subject land. The following provides more information on both the internal and external catchments and the corresponding surface water characteristics.

7.1.1 Subject land features and catchments

The following is a summary of the main features and characteristics of the actual subject land. The characteristics can also be seen in Figure 13, which outlines the current landform for comparison to historical characteristics. Figures 14 and 15 shows the subject land and surrounding external catchments in 1995 and 1953 respectively. The catchment delineation for the current site and surrounds was derived from LiDAR contours and site survey. For the historical catchments, historical aerials used to interpret likely catchment boundaries. Due to the uncertainty with the historical catchments, some boundaries have been aligned with the edge of subject land or current external catchments to allow for ease of pre and post comparisons.

Hatch Court Drain Discharge system

The main drain feature of the subject land is the wetland and constructed open drain network that traverses in a west north-westerly direction from Stirling Crescent to Lewis Street. The majority of this flow path is contained within a drainage easement (Lots 10 – 14, 52, 53 – see Figure 2 for easement). At the downstream edge of the subject land, the outflow is controlled by a 375mm pipe set at RL19.02 (also taken as the effective base of wetland water level in winter). Once the capacity of this pipe is exceeded, the water is assumed to fill to the top over point of RL19.4, with an effective overflow width of 5m wide. Both the pipe and weir flow discharge directly into an open drain within the Lewis St road reserve, which contains a wide drain, with an effective base of RL 19.08 (this being the level of the pit into which water leaves this drain). Here the flow is captured by the Perth Airport Drainage network with water discharging into twin 750mm drainage pipes (invert RL 18.04). These pipes are set within a box chamber of approximately 4.5m^2, with a grate over the top (invert RL19.08).

Surface water monitoring through the central drain was undertaken as part of the DWMS. This included bi-monthly recoding of levels for a period of 12 months from July 2008 to May 2009. The maximum recorded level was 21.385m AHD from monitoring point SW3 (See Figure 10).

Due to groundwater rising to the base of the wetland and drainage line during winter and spring, there is a small base flow through this network. This base flow is assumed to fill the wetland network to the invert of the discharge structure (natural ground lip or pipe) downstream of each wetland along the Hatch Court wetland and open drain network.

The internal catchments that feed this network are predominately Int Pre A and Int Pre B, which are assumed to be rural in nature, with some buildings and driveways (in the 1997 scenario modelling – see Section 7.2) It also includes Int Pre G R, which represents the Hatch Court road reserve, with its associated pit and pipe network that discharges to the wetland and open drain network.

The large lot residential area to the south of Stirling Cres (Catchment Int Re E) also feeds through to the Hatch Court wetland and open drain network. This is via sheet flow onto Stirling Cres, which then discharges to the wetland and open drain network (see External catchment below for further information).

The total Internal and external assumed catchment feeding through to the final discharge point (Lewis St) is 42.974ha.

Kalamunda Road Discharging systems

In 1995 and prior, Catchment Int Pre C was characterised by a wetland and broad sheet flow path that discharges to Kalamunda Road. Within this, there is a shallow, pond located just to the north of Stirling Cres.

Catchment Int Pre D also historically contained a wetland system within it. The size of this wetland and its associated storage effectively captured the majority of flows within it. In extreme event the discharge direction was to Kalamunda Rd.

It is noted that most of these 2 catchments have now been filled and are used for industrial purposes.

The total Internal and external assumed catchment feeding through to the final discharge point (Kalamunda Rd) is 11.997ha.

Sump to south of Stirling Cres system

There is a large, constructed pond to the south of Stirling Crescent. This has been labelled as the Southern Stirling Cres pond as part of the pre development analysis. This has been created in a historical trapped low wetland area. As such it acts as a detention and infiltration system. The internal catchment that feeds this (Int Pre F) is mainly open farmland with some buildings.

The total Internal and external assumed catchment feeding through to the infiltration point (Stirling Cres) is 6.859ha.

7.1.2 External features and catchments

The external feeding catchments are predominately located to the east and south. Historically these were areas of low dunes with interdunal wetland depressions that created wetlands and broad shallow flow paths. While the exact detention systems within the upstream areas are unknown, it is assumed that they were similar to the wetland areas evident in the 1995 aerial. The following is a summary of the main catchments and their associated sub catchments.

Hatch Court Drain Discharge system

Catchment Ex AL is farmland that feeds through to the E9R and EX 10R road catchments, which then flowing into the EX 8R road catchment, with the pipe flow from these roads going to the wetland depression created behind the constriction caused by Stirling Cres. Catchment EX BL feeds directly to this wetland depression as well. Flows out of this depression discharge into the Hatch Court wetland and open drain network through an assumed 375mm pipe and overtopping of the road. There is also some assumed discharge directly from the EX8R road catchment to the wetland and open drain network, for flows that are in excess of the road pit and pipe system. EX 7R flows directly to the top of the Hatch Court wetland and open drain network, while EX6R's pipe network flows to Hatch Court.

EX CL, EX FL and EX CL discharge to the Int Pre A catchment directly as sheet flow. These catchments areas have low runoff characteristics in most storm events due to the high porosity of the sandy soils and lack of any wetland features.

Kalamunda Road Discharging systems

The only external catchment feeding through to Kalamunda Rd analysed was the road catchment of EX 5R. This discharges its flow into the Int Pre C catchment sump and wetland system.

Sump to south of Stirling Cres system

To be conservative, it is assumed that Catchment Ex DL and EX EL would have flow through to the Southern Stirling Cres Pond. It is also assumed that the road catchment Ex4R would also have flown to the Stirling Cres Pond.

7.2 DRAINAGE MODELLING

An analysis was undertaken of the pre development situation under 2 scenarios. The first assumed partially cleared paddocks with the existing major roads in place (as requested by the City of Kalamunda). An aerial photograph from 1953 was used as the likely landuse situation as well as areas of likely inundation and flow. This can be seen in Figure 15.

The second is the subject land and relevant feeding catchments as they likely appeared in 1997. This date is the assumed pre development situation for the Perth Airport drainage analysis, into which the subject land ultimately discharges to. This is the pre development situation that the Perth Airport has requested that peak flows are discharged into their drainage network. An aerial of the subject land in 1995 (assumed to be similar to the 1997 landuse) can be seen in Figure 14, which shows that both Hatch Court and Stirling Cres were effectively in their current form with approximately 80% of the current driveways and buildings present. The lots fronting Kalamunda Rd were in a rural residential state. The majority of the upstream catchments were in a rural state of cleared paddocks.

The main difference between the 2 scenarios modelled is summarised as follows;

- Scenario 1. The early rural option allows for flows to move through the drainage line with no restrictions downstream of Stirling Cres, plus no constructed impervious areas outside of road reserves. There are however large areas of effectively impervious surfaces created by areas of winter inundation which contribute discharge directly to the main flow channel. The informal flow path through the Hatch Court area was assumed to be a 4m wide 'V' channel generally 0.2 – 0.3m deep with low vegetation (retardance 0.035 - 0.03). Wetland storage is assumed to be as per Table 20. Assumed catchments can be seen in Table 9.

  The outlet for the Scenario 1 is assumed to have no effective restriction, with flows continuing as an informal 4m wide vegetated flow channel.

- Scenario 2. The 1997 landuse option incorporates the restriction to flow generated by the driveways and culverts across the open drain, plus an increase in impervious areas due to driveways, houses, etc. It also takes into

account filling of some low areas. The main drainage line is assumed to have a flat base of 3.45m, widening to 5m by the last driveway (just upstream of the western wetland). The initial portion of the main channel is also approximately 0.45m deep with 1:3.6 sides, with a further 0.3m of depth when the channel floods to approximately 31m wide. The lower 5m wide portion is modelled with a 0.5m depth for the main channel, with 1:3 sides. The floodplain is assumed to be 25m wide within a total water depth (including the actual main channel of 0.9m wide. The channel is assumed to be vegetated (retardance 0.04 on base and 0.03 on sides). Wetland storage is assumed to be as per Table 20. Assumed catchments can be seen in Table 10.

The outlet at the edge of the subject land for the Scenario 2 is assumed to be as per the current situation surveyed (see Section 7.1.1). This includes a 375mm pipe set at RL19.02 (effective base of wetland water level in winter). Once the capacity of this pipe is exceeded, the water is assumed to fill to the top over point of RL19.4, with an effective overflow width of 5m wide. Both the pipe and weir flow discharge directly into an open drain that would have flow across cleared paddocks.

Previous advice from the Perth Airport also stated that an allowable 1% AEP flow rate of 0.041m³/s/ha was allowed for catchments feeding into their system from the subject land and relevant surrounding catchments. This rate for each of the relevant discharge points can be seen in Table 11 to 13 as a comparison to the modelled pre development rates. The total allowable discharge based on this rate, including all relevant external catchments is 2.533m³/s.

Modelling Assumptions

These 2 scenarios were modelled in DRAINS. The modelling used the following assumptions:

- Horton/ ILSAX drainage modelling method used.
- ARR 2019 methodology and rainfall figures used.
- A soil factor of 1 was applied (High infiltration) to reflect the sandy soil and recorded hydraulic conductivities.
- Antecedent Moisture Condition 3 used (12-25mm of rainfall in preceding 5 days)
- Available storage was based on the current survey and LiDAR with modifications to reflect the likely landforms at the time (from historical aerials).
- Catchments were based on survey, LiDAR and historical photographs. Due to the age and quality of the data, the historical (1997 and farmland) catchments are a best estimate and where there was uncertainty, the catchment has been aligned to current catchments. Catchments are as per Table s 9 and 10 and Figures 14 and 15.
- A retardance coefficient of 0.15 was used to reflect a ground surface of rough grass and tree vegetated areas.
- Areas of inundation were assumed to be effectively impervious. Waterlogged areas were treated as supplementary impervious areas. The areas were based on the recorded groundwater investigations and historical photographs.
- Discharge from the central drainage lines was assumed to be to an open channel of the same dimensions as the drainage channel within the subject land.
- Tail water effects were added for larger storm events (20% AEP and great) to replicate potential restriction to flows due to downstream flooding.
- The main drainage line shape is as per notes above.

The initial storms modelled were the 5min,10min,15min, 20min, 25min, 30min, 45, 1 hr, 1.5hr, 2hr, 3hr, 4.5hr, 6 h, 9hr, and 12hr. Longer events were not modelled as the events peaked at 4.5hr or less. These were modelled for the 1EY, 20% AEP, 10% AEP and 1%AEP.

Table 9 Catchment Details – Farmland conditions (1953)

Catchment	Area (ha)	Final Discharge location	Comments
Internal			
Int Pre Af	13.4055	Hatch Court drainage line / wetland chain	
Int Pre Cf	10.165	Kalamunda Rd	Contains wetland storage
Int Pre Df	2.8346	Kalamunda Rd / None	Contains wetland storage with no overtopping
Int Pre Ef	2.4412	Small wetland south of Stirling Crs	
Int Pre E2f	1.4735	Hatch Court drainage line / wetland chain	Initially drains to wetland in EXBLf south of Stirling Crs
Int Pre Ff	2.1413	Wetland south of Stirling Crs	Contains wetland storage
Existing External Roads			
Pre E4Rf	0.2835	Wetland south of Stirling Crs	Road Pipe and gutter flows assumed to be as per current situation
Pre E5Rf	0.3266	Hatch Court drainage line / wetland chain	
Pre Ex6Rf	0.1431	Hatch Court drainage line / wetland chain	
Pre Ex7Rf	0.2835	Hatch Court drainage line / wetland chain	
Pre E8Rf	0.2772	Hatch Court drainage line / wetland chain	
Pre E9Rf	1.1083	Hatch Court drainage line / wetland chain	
E10Rf	1.6534	Hatch Court drainage line / wetland chain	
External lots			
ExALf	12.5345	Hatch Court drainage line / wetland chain	Initially flows to Stirling Crs
ExBLf	6.6897	Hatch Court drainage line / wetland chain	Contains wetland storage with drain under Stirling Crs
ExCLf	3.5823	Hatch Court drainage line / wetland chain	Overland flow into site
EX DLf	2.6076	Wetland south of Stirling Crs	Overland flow into site
Ex ELf	1.2942	Wetland south of Stirling Crs	Overland flow into site
Ex FLf	0.8704	Hatch Court drainage line / wetland chain	Overland flow into site
Ex GLf	0.6669	Hatch Court drainage line / wetland chain	Overland flow into site

Table 10 Catchment Details - 1997 Conditions (Airport required Pre date)

Catchment	Area (ha)	Final Discharge location	Comments
Internal			
Int Pre A	11.8013	Hatch Court drainage line	
Int Pre B	2.3765	Hatch Court drainage line	
Int Pre C	9.5039	Kalamunda Rd	Contains wetland storage
Int Pre D	2.1667	Kalamunda Rd / None	Contains wetland storage
Int Pre E	3.9587	Hatch Court drainage line	
Int Pre F	2.1083	Pond south of Stirling Crs	Contains wetland storage
Int Pre G Rd	0.6109	Hatch Court drainage line	
Existing External Roads			
Pre E4R	0.2835	Pond south of Stirling Crs	Road Pipe and gutter flows assumed to be as per current situation
Pre E5R	0.3266	Hatch Court drainage line	
Pre Ex6R	0.1431	Hatch Court drainage line	
Pre Ex7R	0.2835	Hatch Court drainage line	
Pre E8R	0.2772	Hatch Court drainage line	
Pre E9R	1.1083	Hatch Court drainage line	
E10R	1.6534	Hatch Court drainage line	
External lots			
ExAL	12.5345	Hatch Court drainage line	Initially flows to Stirling Crs
ExBL	6.6897	Hatch Court drainage line	Contains wetland storage
ExCL	3.5823	Hatch Court drainage line	Overland flow into site
EX DL	2.6076	Pond south of Stirling Crs	Overland flow into site
Ex EL	1.8599	Pond south of Stirling Crs	Overland flow into site
Ex FL	0.8704	Hatch Court drainage line	Overland flow into site
Ex GL	0.6669	Hatch Court drainage line	Overland flow into site

7.3 PREDEVELOPMENT DISCHARGE RESULTS

The modelling has been determined for the 2 pre development scenarios.

The results for both scenarios for the different discharge points can be seen in Tables 11 to 13. It is noted that the introduction of the driveways and associated restrictions imposed has impacted the flow through the Hatch Court Drain, especially in the larger events. This is due to the restricting pipes holding flow back, with the associated additional flood storage provided.

For the other 2 main catchment areas, there was minimal change under the 2 scenarios, with a slight increase in storage levels / discharge rates for flows directed to Kalamunda Road in the 1% AEP due to the increase in impervious areas.

The farmland conditions more closely represent discharge rates in line with the Perth Airport standardised agreed discharge rate. The Allowable rate for all contributing catchments is 2.533m^3/s. The rates for each sub area can be seen in Tables 11 to 13.

7.4 SURFACE WATER QUALITY

No dedicated surface water quality readings have been undertaken for the subject land. Given the historical farmland, nurseries and residential gardens within the contributing catchment the nutrient levels are likely to be elevated. This is also supported by the raised levels found as part of the groundwater monitoring and reported in the DWMS (see Section 6.2). There is also the potential for some industrial pollutants due to more recent industrial activities.

Table 11 Hatch Court Drain Results

Event	Discharge flows		Final West Wetland results		Comments
	Peak flow (m^3/s)	Critical Storm	Storage height (mRL)	Storage depth above low flow (m)	Comments
Scenario 1: Farmland conditions					
1EY	0.033	3hr	19.32	0.02	Assumes 0.1m of storage depth before discharging
20% AEP	0.06	3hr	19.33	0.03	Assumes water at tipping point at start of storm
10% AEP	0.075	3hr	19.34	0.04	Assumes water at tipping point at start of storm
1%AEP	1.17	20min	19.61	0.51	Assumes water at tipping point at start of storm
Scenario 2: 1997 Conditions					
1EY	0.076	1.5hr	19.07	0.05	
20% AEP	0.110	1.5hr	19.09	0.07	
10% AEP	0.134	3hr	19.1	0.08	Drain upstream of last driveway floods to RL19.84
1%AEP	0.741	20min	19.29	0.27	Drain upstream of last driveway floods to RL20.39. **Perth Airport Allowable rate: 1.76m^3/s**

Table 12 Kalamunda Road Drain Results

Event	Catchment Ex DL		Catchment Ex CL		Total	Comments
	Peak flow (m^3/s)	Critical Storm	Peak flow (m^3/s)	Critical Storm		
Scenario 1: Farmland conditions						
1EY	0	12hr	0.005	4.5hr	0.005	No discharge due to significant storage. Cat D Peak relates to maximum storage timing
20% AEP	0	12hr	0.011	3hr	0.011	
10% AEP	0	18hr	0.015	3hr	0.017	
1%AEP	0	4.5hr	0.202	1.5hr	0.202	Low /no outflow for Catchment D is due to significant storage
Scenario 2: 1997 Conditions						
1EY	0	30min	0.003	2hr	0.003	No discharge due to significant storage. Cat D Peak relates to maximum storage timing
20% AEP	0	30min	0.012	1.5hr	0.012	
10% AEP	0	30min	0.017	45min	0.017	
1%AEP	0.002	20 min	0.389	20min	0.341	Low outflow for Catchment D is due to significant storage. **Perth Airport Allowable rate: 0.492m^3/s**

Table 13 Southern Stirling Cres Pond Results

Event	Peak flow (m^3/s)	Critical Storm	Storage height (mRL)	Comments
Scenario 1: Farmland conditions				
1EY	0	1.5hr	22.52	No discharge due to significant storage. Peak relates to maximum storage timing.
20% AEP	0	12hr	22.62	
10% AEP	0	18hr	22.66	
1%AEP	0	4.5hr	23.15	
Scenario 2: 1997 Conditions				
1EY	0	1.5hr	22.52	No discharge due to significant storage. Peak relates to maximum storage timing.
20% AEP	0	3hr	22.54	
10% AEP	0	4.5hr	22.55	**Perth Airport Allowable rate: 0.281m^3/s**
1%AEP	0	2hr	23.13	

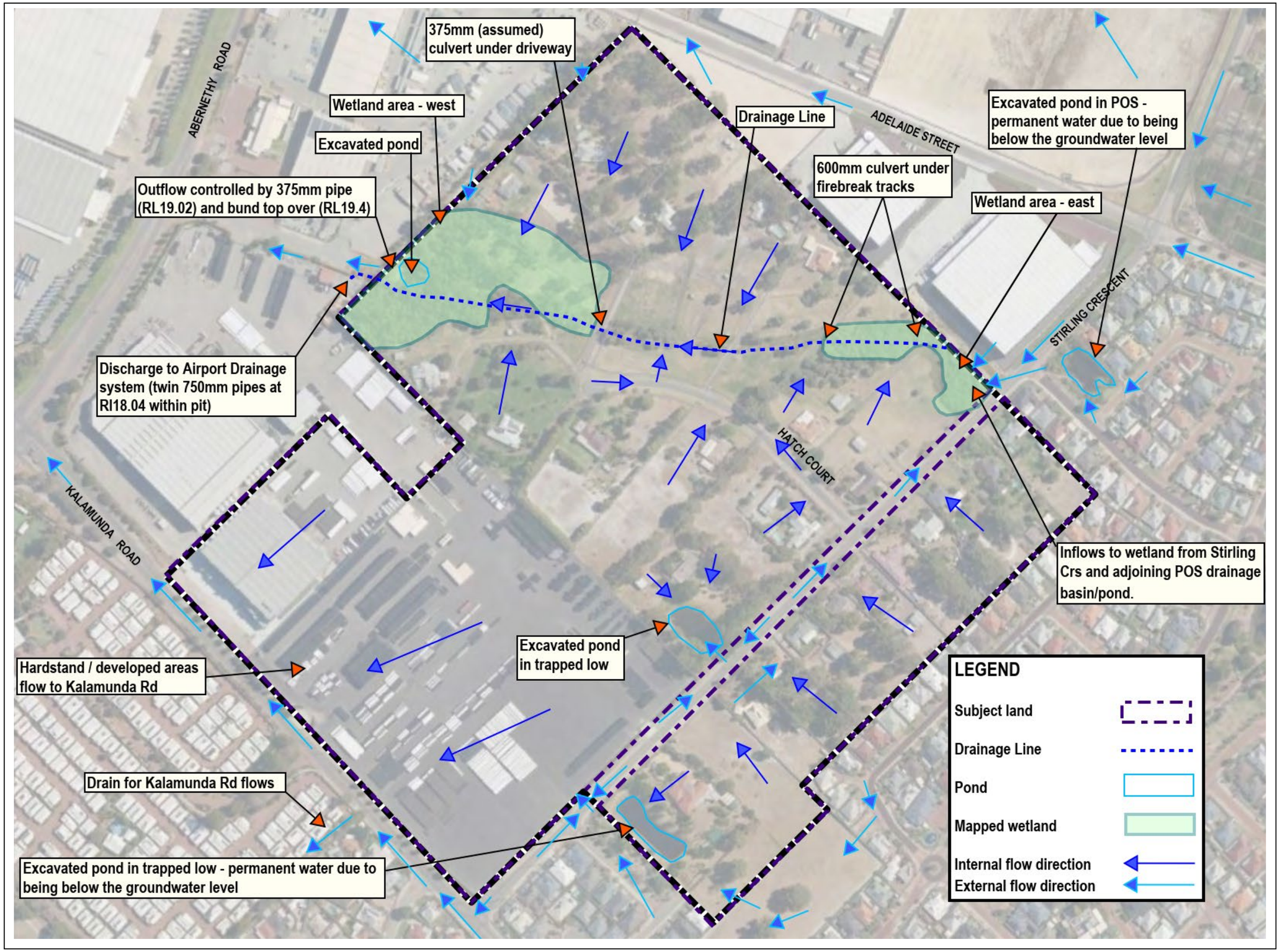


Figure 13 Predevelopment surface water characteristics – current landuse

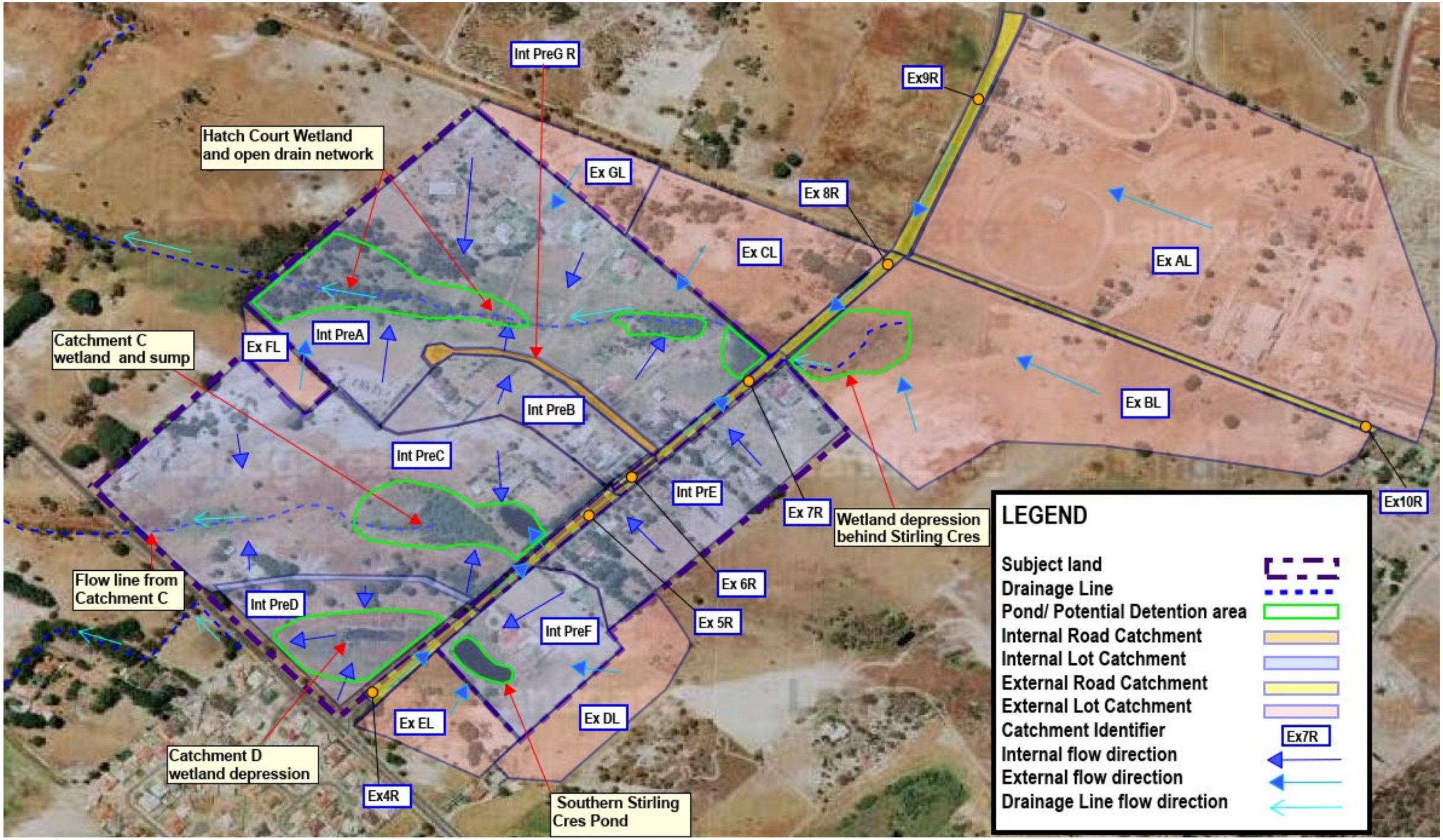


Figure 14 1997 Catchments and general surface water characteristics.

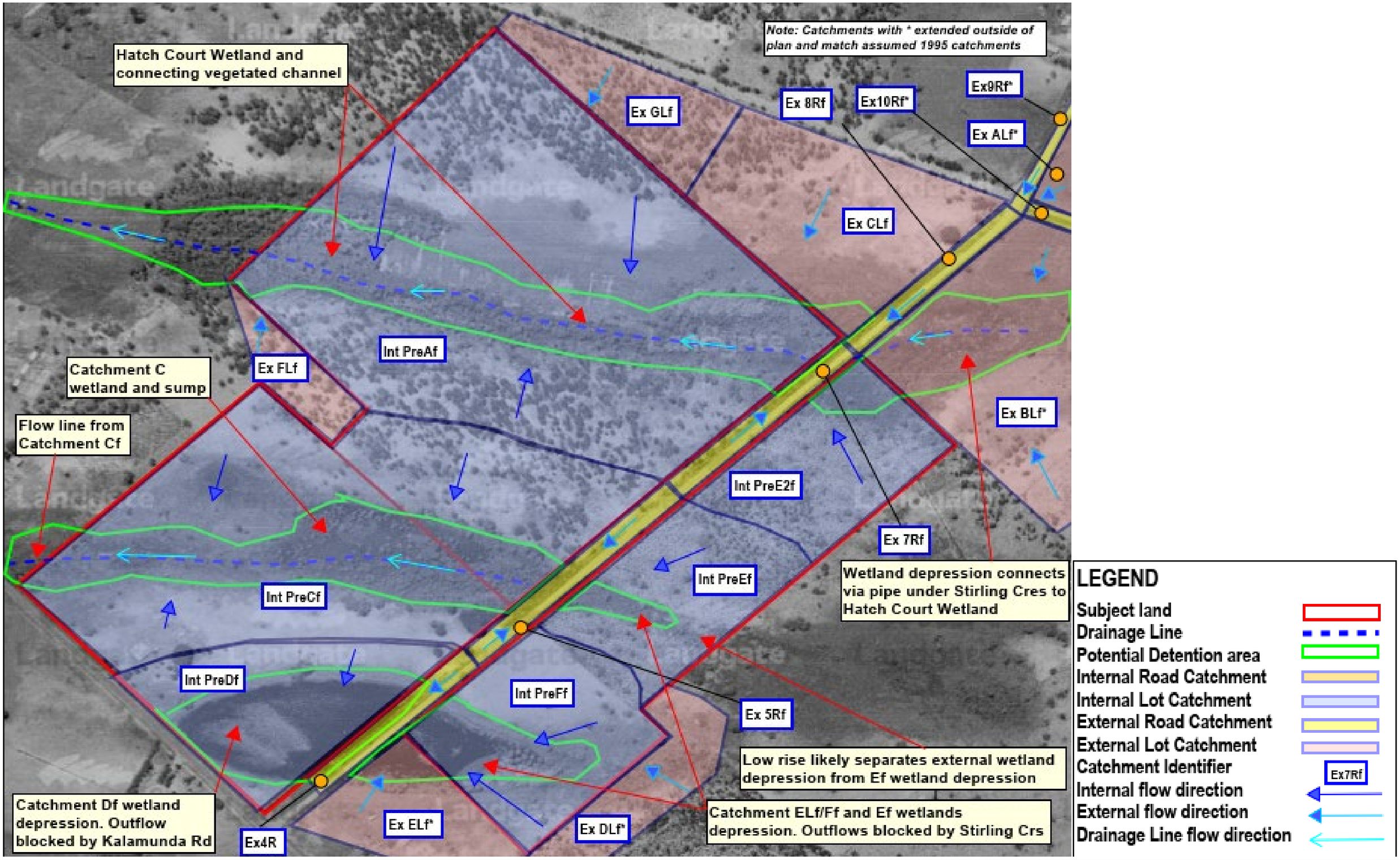


Figure 15 Historical Farmland Catchments and general surface water characteristics (1953 aerial)

8 8 DRAINAGE MANAGEMENT STRATEGY

8.1 OVERVIEW

The aim of drainage management for the site is to generally manage the water flows so that water treatment is achieved and that the major storms are controlled prior to release. As the subject land's proposed development contains both industrial and residential areas, the strategies have been designed to accommodate the particular land use within the relevant catchment. Furthermore, the proposed design accommodates the upstream flows that are likely to enter the subject land, while keeping the total discharge rates at or below the Perth Airport stormwater requirement of 0.041m^3/s/ha.

The existing wetland and open drain system is also to be enhanced into an eastern and western rehabilitated wetland system and a connecting Living Stream. The Living Stream replaces the existing degraded drainage line that currently connects the 2 wetland systems. The initial eastern section of the Living Stream is to be composed of a rock lined channel, with planting pockets to direct the flow southward towards Hatch court. At this point the Living Stream will turn in a west North-westerly direction, with the systems sides reducing to a 1:6 slope, planted with native riparian vegetation. Further information can be found in Section 8.2.1

The following is a summary of how the overall system is to be designed and the outcomes of the drainage modelling is to be achieved. The referenced catchments can be seen in Appendix E, with details on each catchment outlined in Tables 14 and 15.

8.1.1 Hatch Court Industrial zone

Within all proposed industrial lots, all paved and building surface flows up to the 1EY are to be captured, treated and infiltrated. This will assist with removing potential pollutants from the stormwater as it infiltrates through the soil profile. This treatment is to preferentially be undertaken in bioretention gardens or similar for general hard ground surface stormwater runoff. The bioretention gardens are to be landscaped with vegetation suitable for stormwater management systems, including species recommended in the Vegetation guidelines for stormwater biofilters in the south-west of Western Australia (Monash 2014). Where other pollutants may be present, additional treatment systems may be required. This includes but is not limited to sediment forebays, oil separators and gross pollutant traps. Guidance on suitable systems is found in the Stormwater Management Manual for WA (DWER) and DWER's Water Quality Protection Note series. The appropriate treatment system is to be determined as part of the detailed design for each lot, with final approval being granted from the City.

Each industrial lot is to also retain and infiltrate its stormwater so that their 1% AEP flow rate is at or below the Perth Airport requirement (41L/ha/s). This equates to an approximate total storage rate including the 1EY detention of 1m^3 of storage per 25m^2 of total lot area (assuming 90% impervious surfaces within the lot and suitable infiltration system). In doing so the entire 10% AEP is totally infiltrated.

The existing Hatch Court road reserve and the new proposed road through to Adelaide St are assumed to treat the 1EY and reduce the 10% AEP, most likely via a combination of bioretention gardens and soakwells. It is noted that significant storage provided by the proposed Living Stream means that there is not a need for a separate 10% AEP storage within the road reserve. The 1EY is treated and infiltrated in roadside bioretention gardens, to assist with water quality management, prior to the Living Stream. An indicative bioretention garden for the old and new road sections is outlined in Table 20. These are to be refined at detailed design stage.

The proposed Living Stream is designed to replace the degraded current drain, while also providing a significant ecological improvement and landscaping outcome. The Living Stream is to be aligned to swing closer to the existing Hatch Court. It will incorporate a channel as per Section 8.2.1 and Figures 17 - 19. The Living Stream is to also incorporate a buffer from the main channel line. Through the creation of the Living Stream, significant storage is created to accommodate both the internal stormwater and the feeding external catchments. The 2 RE wetlands are to be retained with 15m buffers. These also assist with enhanced ecological improvement and stormwater storage in larger events. The location of the wetlands and their buffers can be seen in Figure 16 and 19. While not specifically designed for water quality treatment of upstream stormwater inflows, the slowing down of the flows and biological processing through vegetation and associated microbial communities within the Living Stream and wetlands, will provide opportunity for treatment.

As can be seen in Figure 16 and the catchments mapping in Appendix E, while the majority of the lots surround Hatch Court are assumed to flow through to the Wetland and Living Stream network (Catchments IN1L – IN5L, IN1P – IN3P), there is a portion which is assumed to discharge through to the Southern POS pond, via Striling Cres (Catchment IN6L). This is due to the current catchments of Stirling Cres, which has the area fronting this portion falling back to the Southern POS pond.

These design strategies will manage the flow going to the Lewis Street pit and pipe network, which is the start of the Perth Airport drainage network.

8.1.2 Southern Stirling Crescent Residential zone

This zone is defined as the lots to the south of Stirling Cres between the existing Wycombe Park POS through to Benson Way. Approximately 40% of this zone is assumed to flow north east through to the Hatch Court Wetland and Living Stream network (Catchments IN9L, IN10L and IN6R). The remainder is assumed to flow south west through to the proposed Southern POS and its associated basin/pond (Catchments IN4P, IN11L - IN13L and IN7R).

For both portions, the residential lots were assumed to detain their stormwater within their own lot for the 5%AEP event. To achieve this, the lots had an assumed storage rate of 1m^3 of storage for every 35m^2 of lot area based on the lot being conservatively 70% impervious. The new residential roads are assumed to have bioretention gardens and / or soakwells to treat the 1EY. These may be located within the road reserve and Southern POS. Kalamunda Road Industrial area

The 2 lots facing Kalamunda Road that have already been converted to industrial uses, are assumed to have been developed to the required standards (discharge rate of 0.041m^3/ha/s), before discharging to Kalamunda Road. They have been modelled with an underground storage system design to achieve this. This area is covered by Catchments IN7L and IN8L.

8.1.3 Kalamunda Road Industrial area

The 2 lots facing Kalamunda Road that have already been converted to industrial uses, are assumed to have been developed to the required standards (discharge rate of 0.041m^3/ha/s), before discharging to Kalamunda Road. They have been modelled with an underground storage system design to achieve this. This area is covered by Catchments IN7L and IN8L.

8.1.4 External feeding catchments

External areas were modelled either as they appear today if already developed, or as they will likely be developed. The following is a summary of the different external areas as included in the post drainage assessment.

Residential catchments discharging to the Hatch Court Wetland and Living Stream network

This area is composed of catchments E11L, E11R, E13L, E13R, E14L, E14R, E15L, E15R, E20L and E20R with the L and R referring to the lot and road portions of each zone.

All existing residential lots were conservatively assumed to detain the 20% AEP event, before discharging to the adjoining road network. The existing pit and pipe network was incorporated into the analysis, as well as overland flow paths along the road reserve. This allowed for routing of flows in excess of the pit and pipe network to the suitable location. While for most of the area, the overland flow route was the same as the pit and pipe network, for Catchment E15R, the pipe network discharges to the external landscaped lake in Jacaranda Springs Park, while the overall flow is directed through to the Fleet Circuit POS pond. From here stormwater then discharge under Striling Crescent to the east wetland of the Hatch Court Wetland and Living Stream network.

Industrial catchments discharging to the Hatch Court Wetland and Living Stream network

The area covered by Catchment E12L is assumed to be developed for future industrial uses, with water detained in line with the Perth Airport inflow requirements. The flow is assumed to discharge to Stirling Cres before flowing south to the top of the Fleet Circuit POS pond.

Catchment E2La is a new industrial development, which detains water to City and Perth Airport guidelines then discharges directly into the Wetland and Living Stream network.

Catchment E2Lb has conservatively been assumed to discharge to the new proposed road connecting Hatch Court to Adelaide St, with the stormwater being directed to the Wetland and Living Stream network. The lot water is to be detained discharged to City and Perth Airport guidelines.

There is also a small linear area (Catchment E1B) associated with the noise bund, directly to the northwest of the subject land, within the current industrial area. It is assumed that post development that the runoff from the bund will migrate through to the depression within Lewis St and therefore contribute to the flow into the Perth Airport drainage network.

Residential catchments discharging to the Southern POS pond

There are some minor external catchments which have been assumed to discharge through to the Southern POS pond until such time as development closes the overland flow path.

Catchment E16C is predominately still paddock and in extreme events will likely discharge water to the Pond. Furthermore, when the pit and pipe network capacity in Catchment E17R is exceeded, water also enters Catchment E16C and will contribute to its overland flow to the pond. It is likely that flow from Catchment E16C will be restricted once development of Catchment I12L is complete, with this water assumed to be detained in external areas, before potentially discharging to either Kalamunda Road or the Jacaranda Springs POS.

The Wycombe Park area has also been included in the drainage assessment. Catchments E18L and E18R (lots and roads) and Catchment E19C (the associated POS with an infiltration basin) is assumed to overflow into the Southern POS Pond during extreme events. Lot storage is assumed to cater for the entire 20% AEP event. Before overtopping to the internal road. The POS basin was sized from visual inspections and aerial photos and assumed to function similar to a bioretention basin, with it effectively containing the entire 20% AEP.

Table 14 Internal catchment Summary

Major Catchment zone	Sub catchment name	Landuse	Discharges to	Area (ha)	Directly connected impervious (%)	Indirectly connected impervious (%)	Pervious (%)
Wetland/ Living Stream	Cat IN3P	Wetland and buffer	Wetland	0.8379	20	20	60
	Cat IN2P	Living Stream	Living Stream	0.636	40	15	45
	Cat IN1P	Wetland and buffer	Wetland	2.1284	25	20	55
	Cat IN1L	Industrial Lot	Lot Storage then road	2.3323	85	5	10
	Cat IN3La	Industrial Lot	Lot Storage then road	0.8482	85	5	10
	Cat IN3Lc	Industrial Lot	Lot Storage then road	0.8482	85	5	10
	Cat IN3Lb	Industrial Lot	Lot Storage then road	0.8482	85	5	10
	Cat IN2L	Industrial Lot	Lot Storage then road	1.6298	85	5	10
	Cat IN4L	Industrial Lot	Lot Storage then road	1.2916	85	5	10
	Cat IN5L	Industrial Lot	Lot Storage then road	2.7893	85	5	10
	Cat IN3R	Existing Road	Bio garden	0.7045	75	5	20
	Cat IN9La	Residential Lot	Lot Storage then road	0.5164	65	5	30
	Cat IN9Lb	Residential Lot	Lot Storage then road	0.5164	65	5	30
	Cat IN10L	Residential Lot	Lot Storage then road	0.8986	65	5	30
	Cat IN6R	New Residential Road	Bio garden	0.5036	75	5	20
	Cat IN1R	New Industrial Road	Bio garden	0.402	75	5	20
Southern POS	Cat 1N4P	POS and basin	Direct to basin	0.5027	45	15	40
	Cat IN6L	Industrial Lot		1.031	85	5	10
	Cat IN11Lb	Residential Lot	Lot Storage then road	0.5273	85	5	10
	Cat IN11La	Residential Lot	Lot Storage then road	0.5273	85	5	10
	Cat IN12L	Residential Lot	Lot Storage then road	0.9982	85	5	10
	Cat IN13L	Residential Lot	Lot Storage then road	0.5065	85	5	10
	Cat INR7	New Residential Road	Bio garden	0.5672	75	5	20
Kalamunda Road	Cat IN8L	Existing Industrial Lot	Lot Storage then road	2.0248	85	5	10
	Cat 1N7L	Existing Industrial Lot	Lot Storage then road	8.0664	85	5	10

Table 15 External catchment Summary

Major Catchment zone	Sub catchment name	Landuse	Discharges to	Area (ha)	Directly connected impervious (%)	Indirectly connected impervious (%)	Pervious (%)
Wetland/ Living Stream	Cat E5R	Stirling Crs Road	Existing pit	0.3266	75	5	20
	Cat E20R	Residential Road	Existing pit	0.855	75	5	20
	Cat E20POS	POS and Pond	POS pond	0.2173	10	5	85
	Cat EXR	Drain and surrounds	Direct to Lewis St drain	0.1153	15	45	40
	Cat E15R	Stirling Crs Road	Existing pit	0.3211	60	10	30
	Cat E14R	Residential Road	Existing pit	0.531	75	5	20
	Cat E13R	Residential Road	Existing pit	0.7254	75	5	20
	Cat E10R	Residential Road	Existing pit	0.397	75	5	20
	Cat E8R	Stirling Crs Road	Existing pit	0.2772	75	5	20
	Cat E4R	Stirling Crs Road	Existing pit	0.2835	75	5	20
	Cat E2La	Existing Industrial Lot	Lot Storage then road	3.5823	85	5	10
	Cat E6R	Stirling Crs Road	Existing pit	0.1431	75	5	20
	Cat E7R	Stirling Crs Road	Existing pit	0.2835	75	5	20
	Cat E9R	Stirling Crs Road	Existing pit	1.1083	75	5	20
	Cat E20 L	Existing Residential Lots	Lot Storage then road	2.3045	50	10	40
	Cat E11L	Existing Residential Lots	Lot Storage then road	0.4484	50	10	40
	Cat E3L	Existing Residential Lots	Lot Storage then road	0.3296	50	10	40
	Cat E13L	Existing Residential Lots	Lot Storage then road	1.3115	50	10	40
	Cat E14L	Existing Residential Lots	Lot Storage then road	1.0127	50	10	40
	Cat E15L	Existing Residential Lots	Lot Storage then road	0.8116	50	10	40
	Cat E12L	Proposed Industrial Lot	Assumed Lot storage then road	12.5345	80	10	10
	Cat E1B	Soil noise bund	Informal flow path to Lewis St	0.3185	0	5	95
	Cat E2Lb	Proposed Industrial Lot	Assumed Lot storage then road	0.6669	85	5	10
Southern POS	Cat E16C	Farm Paddock	Informal overland flow to new road	1.2333	0	0	100
	Cat E17R	Residential Road	Existing pit	0.5636	60	10	30
	Cat E17L	Existing Residential Lots	Lot Storage then road	0.5636	50	10	40
	Cat E18L	Existing Residential Lots	Lot Storage then road	1.2688	50	10	40
	Cat E19R	Residential Road	Existing pit then current POS basin	0.34	75	5	20
	Cat E19P	Existing POS	Direct to current POS basin	0.2511	5	15	80

8.2 MODELLING AND DRAINAGE NETWORK SUMMARY

A detailed stormwater analysis was undertaken using DRAINS modelling software, that takes into account the final layout and storage requirements. The modelling assumed the following:

Lots

- The commercial/industrial developed portions were assumed to be 90% impervious.
- R25 and R30 Residential lots were assumed to be 70% impervious
- The drainage modelling assumed that the entire 10% AEP is fully retained. It also assumes that the discharge from industrial lots in the 1%AEP is suitable to meet the Perth Airport guidelines for discharge to their system. For new industrial/commercial lots, all stormwater is therefore modelled as being stored at a rate of 1m^3 per 25m^2 of total lot area (Modelled as a 1m deep box storage with 2m/day infiltration from side and 1.6m/day from base – actual detention system to be refined for each lot at detailed design. Storage rate determined through modelling until detention met outflow requirements). Alternative storage options may be utilised, provided the discharge rate in the 1%AEP does not exceed the Perth Airport guidelines for the lot area eg 41l/s/ha.
- Existing industrial lots are assumed to detain water as per the provided design or where not available, it was assumed they captured and infiltrated the entire 10% AEP.
- Infiltration from underground systems within lots is assumed to be at 2m/day, based on geotechnical permeability from site testing.
- For new residential lots, the 5% AEP is retained detained (Approximately 1m^3 per 35m^2 of total lot area. Storage rate determined through modelling until detention met City detention requirements).
- Existing residential lots are assumed to have a detention system capable of infiltrating the entire 20% AEP.

Roads

- Roads were assumed to be 80% impervious.
- New residential roads and assumed to initially drain to bioretention systems. Sizing for entire road catchment is modelled as per Table 22. Bio gardens are then assumed to discharge to a standard road pit and pipe network for discharge to either the Southern POS or the existing pipe network within Stirling Crs.
- Entire Hatch Court industrial roads assumed to initially drain to bioretention systems. Sizing for entire road catchment is modelled as per Table 22. Bio gardens are then assumed to discharge to a standard road pit and pipe network for discharge to the Living Stream.
- Infiltration within bioretention gardens assumed from base only at 3.6m/day (conservative bioretention media infiltration rate).

Living Stream and Wetland Network

- The Wetland and Living Stream network was included in the calculations of contributing catchment areas.
- The wetland detention areas were as mapped via LiDAR and/or site feature survey.
- The Living Stream and Wetland Network is as per Figure 17 – 19 and Tables 18 - 20, with the modelling taking into account the storage provided within the channel. Further details also outlined in Section 8.2.1. The Living Stream was modelled as a channel, while the wetland areas were modelled as basins.
- To be conservative no infiltration is assumed from the Wetland and Living Stream systems. The system was also assumed to be full to the invert of the downstream discharging control structure for each portion, due to a groundwater base flow.
- Flows within each section are controlled by outlet pipes and weirs as per Tables 19 - 20.

Stirling Crs / Southern POS Drainage area

- The Stirling Crs / Southern POS basin (for events above the 1EY) is assumed to be constructed as per Table 21.
- No infiltration assumed from base due to being at the water table, with side infiltration of 0.3m/ day assumed. The conservative side infiltration is derived from the Geotechnical investigation, with this rate below all recorded rates.

- The modelled shape approximately matches the current open basin, noting that the final basin location can be moved and shape modified to suit the detailed design of this area. The basin will be constructed entirely within the final designated POS.

General

- Internal and External catchments are logical localised drainage areas as per the catchment layout in Appendix E. External catchments were further divided between lot areas and road areas. This is to allow for storage to be applied to lot areas. A summary of the internal and external catchments can also be seen in Tables 14 and 15.
- Existing external detention systems were included.
- The existing road reserve pit and pipe network was included where data was available, with some simplification within external catchments.
- The configuration of the Perth Airport pipe network inlet was included as twin 750mm pipes, with its associated large pit (based on site survey data).
- Soil factor 1 was used for pervious areas to reflect the likely fill sand infiltration rate (both fill sand and insitu sand).
- The final storms modelled were the 5min,10min,15min, 20min, 25min, 30min, 45min, 1 hr, 1.5hr 2hr, 3hr, 4.5hr, 6hr, 9hr, 12hr 18hr and 24hr. Longer events were not modelled in the final runs as the peak events were all 12hours or less.
- These were modelled for the 1EY, 20% AEP, 10%AEP and 1%AEP, storm events.

8.2.1 Wetland and Living Stream Network

The following is a summary of the Wetland and Living Stream Network at a concept level. The parameters outlined were used to model how stormwater would flow and be stored within this system. Further details are also outlined in Figures 17-19 as well as Tables 16 to 18. The proposed design builds on the current situation where the wetlands and open drain both transport flows through the subject land as well as provide considerable storage and water treatment. The two RE wetlands are to be retained with 15m buffers. The ground surface within the wetland will remain in a similar manner, with weed control and revegetation of the wetland and likely buffer areas.

The degraded open drain is to be partially rerouted to allow for a more efficient overall layout as well as providing a better opportunity to create a drainage line for stormwater management and ecological improvement. By bringing the Living Stream south, the proposed industrial land area to the north is maximised. It also allows for effectively unusable land currently between Hatch Cort and the existing drain to be used for flood storage, stormwater conveyance and ecological enhancement. Earth working the new Living Stream will provide a new weed free channel that can be planted out with riparian species while still allowing flows to move through.

There are 2 main channel types within the Living Stream, with the first section being a rock lined channel, with planting pockets for riparian species. The second portion incorporates a channel 1:6 batters, with flatter slopes above this. Both are to be planted with native riparian vegetation. The actual shape of the channel can be modified as part of detailed design, with the current design allowing for their storage to be included within the drainage modelling. Modifications as part of detailed design may include introducing some minor meanders (current buffer width allows for a approx. 2m swing), rock boulders, pools and riffles. The planting of the channel and buffer will also provide an increase in the riparian vegetation present within the subject land. The channel also provides significant storage for stormwater generated during the 1% AEP, both from within the subject land and from upstream catchments.

To control flows through the network, a series of pipes and bunds/road crossings have been included. The 2 pipes associated with the East Wetland, replicate the current pipes and firebreak track crossings. These may be formalised to include a rocked weir to accommodate the overflow. The pipe at the end of the Living Stream is located in approximately the same location as the final current driveway crossing, which is just upstream of the final Western Wetland. The exact size of this current pipe under the driveway crossing is unknown (as encased in dense weed covering) but is likely to be a 375mm. This is to be upgraded to a 600mm pipe to match the upstream pipes, which will assist with minimising the risk of flooding over the top of the new proposed road.

The final modelled pipe out from the West Wetland is a 375mm, laid at the same invert as the current pipe (RL19.02). Once the capacity of this pipe is exceeded, the water is assumed to fill to the top over point of RL19.7, with an effective overflow width of 5m wide. Both the pipe and weir flow discharge directly into an open drain within the Lewis St road reserve, which contains a wide drain, with an effective base of RL 19.08 (this being the level of the pit into which water leaves this drain). Here the flow is captured by the Perth Airport Drainage network with water discharging into twin 750mm drainage pipes (invert RL 18.04). These pipes are set within a box chamber of approximately 4.5m^2, with a grate over the top (invert RL19.08).

In combination with the bund and weir plus the significant storage area of the current wetland, this detains flows back to rates similar to pre development flows and in keeping with the Perth Airport requirements for the peak 1% AEP flow rate. Further details can be seen in Table 20.

The Eastern lot access crossing alignments (for Lots 11 and 12) will be effectively retained across the Living Stream, noting that the modelling has assumed twin 600mm pipes, so they have minimal effect on water detention (in case the crossing is ultimately not installed). Should future detailed design of these lots allow for access to the northwest and onto the proposed Hatch Court extension, then these cross-overs will be removed/not installed (depending on timing).

The current western cross-over that services Lots 13-15 will effectively be replaced by the proposed extension to the Hatch Court road reserve.

As part of modifying the existing flow path, the new channel is to be fully constructed and stabilised before the existing flow path is removed. The existing flow path will have all organic material removed, then backfilled with suitable free draining soil material. This work should be undertaken after the seasonal base flow has ceased, where possible and outside of the June to October winter flow period. This is to minimise potential flooding or scouring issues. Compared to the current pre development situation, the base of the vegetated section Living Stream will generally be narrower (1.4m vs 5m) but the side are flatter (1:6 vs 1:3), and the depth has increased from 0.5m to 0.6m. In the Rock lined portion, the width has decreased from 3.45m to 2.4m, while the depth has increased from 0.45m to 1.1m. The side slopes are similar to the pre development scenario.

Piping was reviewed as an option to connect the 2 wetlands. This was ultimately not chosen due to:

- Would still need to provide an easement for 1%AEP flooding, if pipe blocked, effectively minimising the useability of the land within the easement
- Reduces the overall environmental outcome compared to the current situation and significantly reduces the environmental outcome compared to the proposed Living Stream.
- Would likely result in increased flood levels upstream of the piped section and a need for additional flood storage within other portions of the subject land to counter the storage provided within the proposed Living Stream.

Table 16 Living Stream design parameters – cross section: Rock lined

Main Channel			
Base width (m)	**Depth (m)**	**Top Width (m)**	**Side slope**
2.4	1.1m	9	1 in 3

Note: Depth of actual channel in upper portions may be lowered as part of detailed design
No Infiltration from sides or base assumed

Table 17 Living Stream design parameters – cross section: Vegetated sloped

Main Channel				Flood Channel		
Base width (m)	**Depth (m)**	**Top Width (m)**	**Side slope**	**Depth (m)**	**Top Width (m)**	**Side slope**
1.4	0.6m	8.6	1 in 6	0.2m	12.6m approx.	1:10

Note: Actual shape may vary along length to accommodate final development layout and detailed design items. Allowance for approximately 2m meander width within overall Living Stream easement.
No Infiltration from sides or base assumed

Table 18 Living Stream design parameters – long section: Rock lined

Longitudinal Length (m)	Upstream invert (mRL)	Downstream invert (mRL)	Discharges to:
91.9	20	19.55	1:6 sloped vegetated Living Stream

Table 19 Living Stream design parameters – long section: Vegetated Slope

Sub Section	Longitudinal Length (m)	Upstream invert (mRL)	Downstream invert (mRL)	Discharging pipe size (mm)	Pipe overtopping height (RL / m *from base*)	Comments
VS 1	41.9	19.55	19.45	Twin 600	20.65 / 1.2	Discharges through crossing to lots 11 & 12
VS 2 & 3	101	19.43	19.3	600	20.6 / 1.3	Inflow from Hatch Crt road at Chainage 29.1

Table 20 Hatch Court wetland details – for modelling

Wetland	Effective base *		Discharge pipe size (mm)**	Weir overtopping height (mRL) / width (m)	Area of inundation at overtopping (m^2)	Comments
	Height (RL)	Area (m^2)				
East	20.77	10	600	21.5 / 5	2520	East wetland area assumed to be partially split into 2 sections by pipe, as per current conditions. No infiltration assumed.
East - Mid	20.07	30	600	20.8 / 3	1450	
West	19.02	10	375	19.7 / 5	3790	No infiltration assumed.

** Effective base is taken as the height of the outlet invert. Likely to be some water below this level due to groundwater.*

***Pipe invert is assumed to be at RL of Effective base*

Table 21 Southern POS basin

Basin Level	Rl (m)	Length (m)	Width (m)	Area (m^2)	Total Depth (m)	Total Volume (m^3)	Slope
Assumed base	22.5	72	22.5	1620	NA	NA	NA
Assumed top	23.5	84	34.5	2898	1	2228.2	1:6 from RL 22.5

Note: RL is assumed based on LiDAR but basin not well represented. Base is assumed to be maximum groundwater level
No Infiltration from base and 0.3m/day from sides assumed

Table 22 Road runoff Bioretention garden details

Biogarden	Catchment	Base area (m^2)	Depth to overflow pit (m)	Volume to outlet pit (m^3)	Depth to top (m)	Volume to top over (m^3)
Residential south	IN7R	113.44	0.3	34.032	0.4	45.376
Residential north	IN6R	100.72	0.3	30.216	0.4	40.288
Existing Hatch Crt Rd	IN3R	122.18	0.5	61.09	0.6	73.308
New Hatch Crt extension	IN1R	80.68	0.3	24.204	0.4	32.272

Note: No Infiltration from sides and 3.6m/day from base assumed

8.3 EASEMENTS AND RESERVES FOR FUTURE DRAINAGE MANAGEMENT

It is proposed that the future flow channel and storage areas associated with the Hatch Court industrial area development are protected under drainage easements. The easement areas are to include the full width of the Living Stream and the entire Resource Enhancement wetland areas as well as the associated buffers. The indicative easement boundary can be seen in Figure 16.

The current drainage easement across Lots 10 – 14, 52 and 53 Hatch Court is to remain in place until the new drainage easements are in place as well as the appropriate flow channel being fully constructed.

The drainage basin associated with the Stirling Crs residential area will be contained within the proposed POS reserve. The basin could potentially be located within the footprint of the current pond, or an alternative location within the POS. As a temporary measure, the pond could also be used for drainage under an easement, until such time as a suitable land area for a POS/Drainage Reserve is acquired by the City.

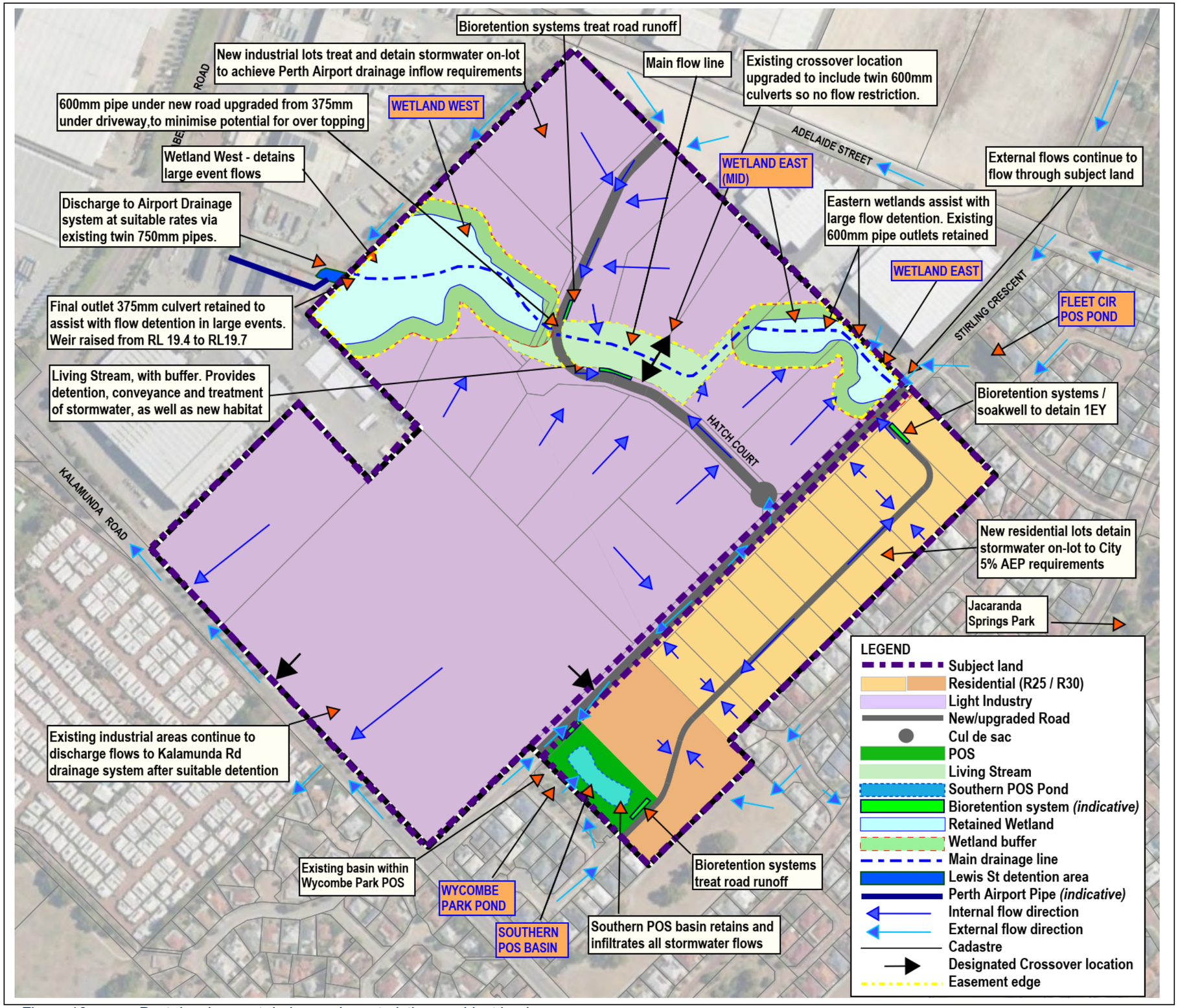


Figure 16 .Post development drainage characteristics – subject land

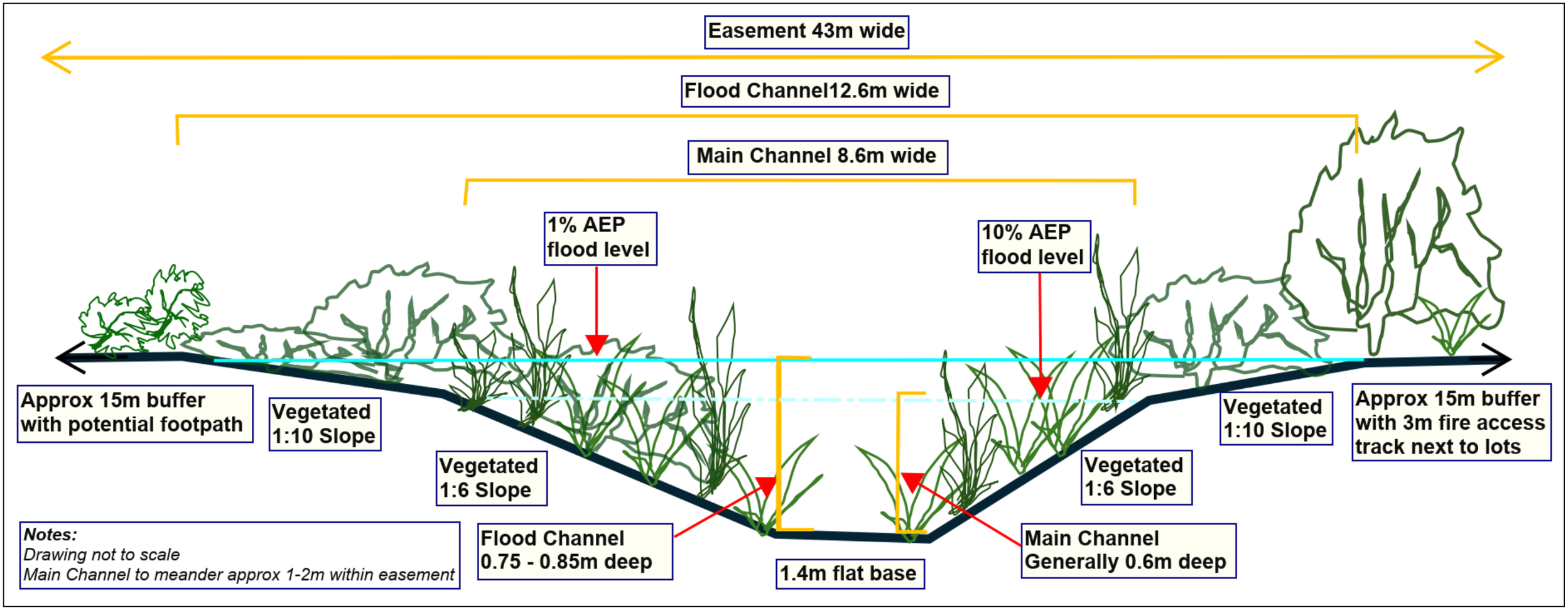


Figure 17 Living Stream cross section concept - Sloped vegetated portion

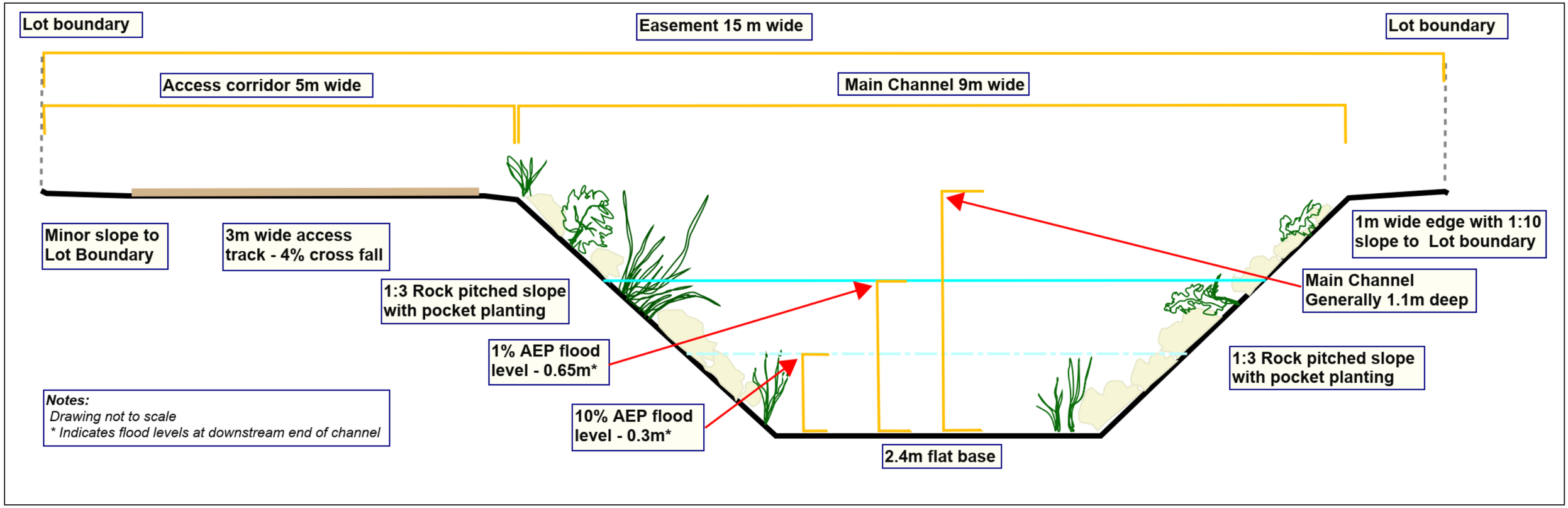


Figure 18 Living Stream cross section concept – Rock pitched portion

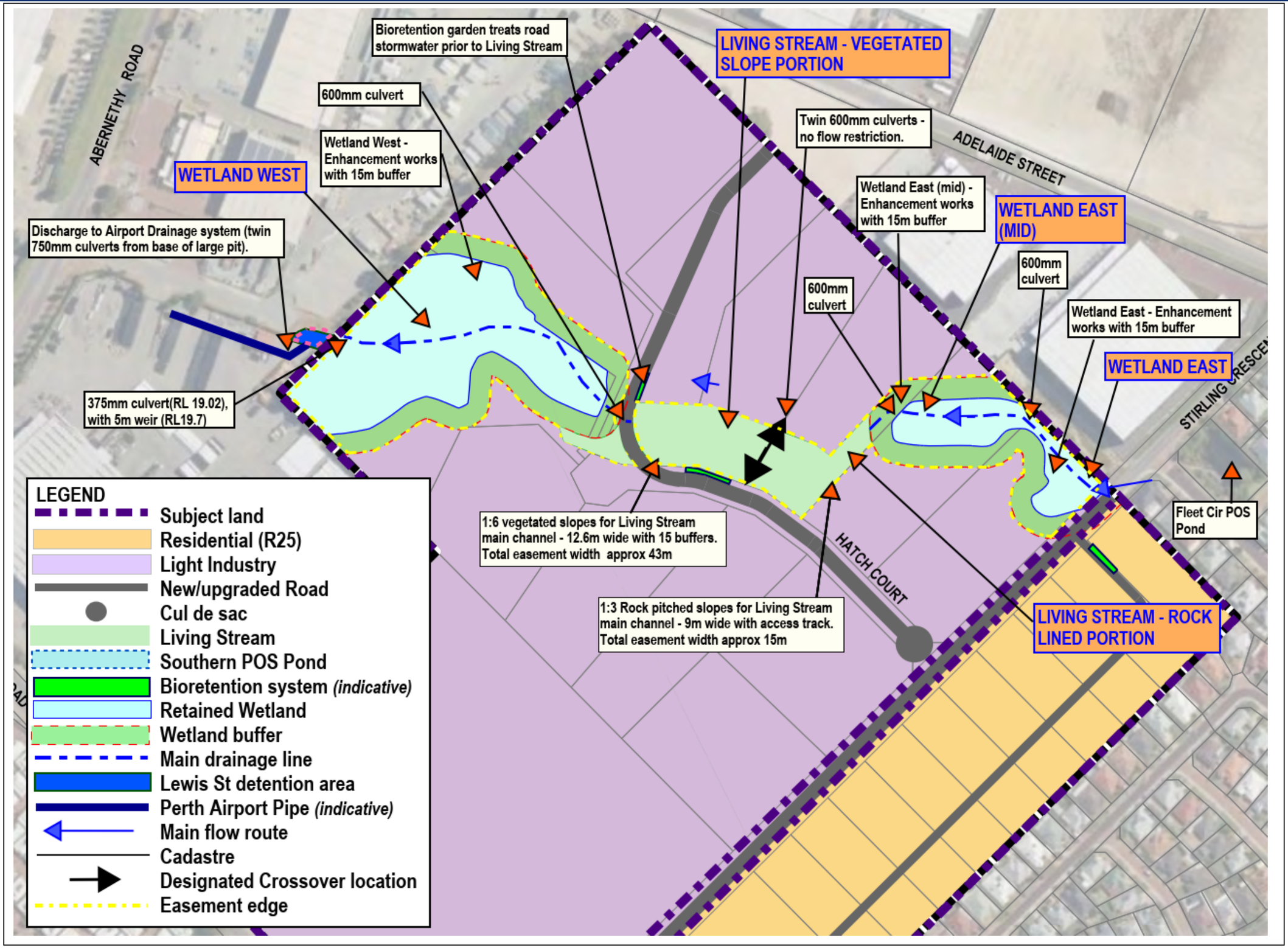


Figure 19 Wetland and Living Stream layout

8.4 1EY/SMALL STORM EVENT AND WATER QUALITY

The drainage management system for the subject land has been designed to capture and provide treatment up to the 1 Exceedance per year event (1EY), which effectively captures approximately 95% of all stormwater flow. The designs will also provide protection of the ecological functions for all receiving natural environments post development.

All stormwater generated within the lot during a 1EY event is to be treated and infiltrated (see Section 8.1.1). Roadside and /or POS bioretention systems that can infiltrate the entire 1EY event for the industrial area are also encouraged, with indicative locations noted on Figure 16. For the residential areas, the road runoff will be treated in bioretention gardens for flows heading towards the Stirling St POS. Flows directed to the Living Stream and Wetland network may discharge into bioretention gardens where possible. Where this cannot be achieved, roadside soakwells or similar are to be utilised to infiltrate the majority of the 1EY.

The Wetland and Living Stream network will provide additional treatment for flows generated from upstream areas. This is achieved through the planting of the network with suitable native riparian species. Further details on this can be seen in Section 8.1.1 and 8.2.1.

The surface discharge from the subject land in the 1EY/Small event is limited to the flow into the Lewis Street Pipe network, with much of this water coming from external upstream catchment areas. During periods of seasonal high groundwater, there is also likely to be a trickle outflow due to discharging groundwater, generated by the internal and external stormwater infiltration. The 1EY post development discharge rates can be seen in Table 23 - 27 with a comparison to the pre development outline in Table 28 and 29.

8.5 20% AEP / MINOR DRAINAGE MANAGEMENT PLAN

Due to the significant on-lot storage as outlined in the City's guidelines of full 5%AEP retention, there is limited discharge in the 20% AEP from the actual subject land. The generated flows are primarily due to upstream road flows and the residential road flows. The results for the 20% AEP can be seen in Table 21 - 25 with a comparison to the pre development outline in Table 28 and 29.

There is no overtopping of the Southern POS Pond and the flows within the Wetland and Living Stream network are all contained within the main channel and main wetland areas.

8.6 10% AEP / MINOR DRAINAGE MANAGEMENT PLAN

Due to the significant on-lot storage to achieve the 1% AEP discharge rates for the discharge to the Perth Airport network (eg1m^3 of storage per 25m^2 of surface area), there is limited discharge in the 10% AEP from the actual subject land. The generated flows are primarily due to upstream road flows and the minor road flows, alongside the overtopping of external residential lot storage. The results for the 10% AEP can be seen in Table 23 - 27 with a comparison to the pre development outline in Table 28 and 29. There is also no overtopping of the Southern POS Pond and the flows within the Wetland and Living Stream network are all contained within the main channel and main wetland areas.

8.7 1% AEP / MAJOR DRAINAGE MANAGEMENT PLAN

The Subject area has been designed to safely manage the 1%AEP flood event so that impacts on the subject land, downstream infrastructure and the environment are minimised while maintaining people's safety.

The Wetland and Living Stream network will work in conjunction with the other onsite infiltration systems to detain flows throughout the development. This results in management of the final flow rates leaving the subject land to below pre development rates and below the Perth Airports requirement of 1.76m^3/s. The flows to the Southern POS Pond also match the pre development situation, with no discharge.

The discharge to Kalamunda Rd exceeds the pre development flow, based on the available information and corresponding assumptions. There may potentially be additional detention within these developed lots over and above what has been assumed in the drainage modelling. The City may wish to review the drainage design for these already established lots to determine the final detention and if the actual discharge is suitable to the Kalamunda Road drainage system. It is noted however that the total discharge from the entire subject land is still below the total pre development peak flow rate and the requirements of the Perth Airport.

The post development discharge for each area can be seen in Tables 17 – 19, while the comparisons to pre development can be seen in Table 20.

The peak flood levels along the Wetland and Living Stream Network can be seen in Table 23 - 25 and Figure 20. These have been extracted from long sections of the DRAINS modelled channels and basin depths. All finished floor levels should be a minimum of 500mm above the level adjoining each lot. The flow rate and flood hazard analysis can be seen in Table 30. All flood waters are held within the Living Stream easement and the assumed wetland /wetland buffer areas. As such there is no modelled overtopping of the new road, assuming the pipe network is not blocked.

The discharge at the end of the Wetland and Living Stream Network in the 1% AEP is predominately via weir overflow.

The indicative flood level for the Southern POS Pond can be seen in Table 27 and Figure 20. All relevant buildings around the Southern POS pond should also be a minimum of 500mm, given it is a trapped low. These flood depths are taken from the modelled basins within the DRAINS model peak event.

Table 23 Post development drainage summary – Wetland and Living Stream network discharge to Lewis St

Event	Peak outflow pipe / weir (m^3/s)	Peak flow total (m^3/s)	Critical Storm	Comments
1EY	0.129 / 0	0.129	1hr	Outflow due to pipe discharge
20% AEP	0.176 / 0	0.190	1.5hr	Outflow predominately due to pipe discharge
10% AEP	0.191 / 0	0.191	1.5hr	Outflow predominately due to pipe discharge
1%AEP	0.212 / 0.398	0.61	6hr	Outflow due to pipe and weir discharge

Table 24 Post development drainage summary –Living Stream details

Event	Living Stream - vegetated 1:6 portion		Join point between rock and vegetated portions	Living Stream - rock lined portion		Total volume (m^3)
	Downstream water level (mRL/ m from base)	Volume (m^3)*	Water level (mRL / m from base)	Upstream water level (mRL / m from base)	Volume (m^3)*	
1EY	19.66 / 0.36	358	19.76 / 0.23	20.12 / 0.12	46	404
20% AEP	19.74 / 0.44	940	19.82 / 0.27	20.14 / 0.14	74	1014
10% AEP	19.78 / 0.53	1179	19.84 / 0.29	20.15 / 0.15	92	1271
1%AEP	20.13 / 0.83	3244	20.20 / 0.65	20.28 / 0.28	423	3667

*Note: * Volumes based on averaged depths within Living Stream Channel*

Table 25 Post development drainage summary – Wetland details

Event	West Wetland		East Mid Wetland*		East Wetland		Total Volume (m3)
	Water level (mRL)	Volume (m^3)	Water level (mRL)	Volume (m^3)	Water level (mRL)	Volume (m^3)	
1EY	19.41	80	20.43	32	21.13	182	294
20% AEP	19.57	216	20.5	42	21.2	263	521
10% AEP	19.64	327	20.53	47	21.23	301	675
1%AEP	19.83	970	20.87	293	21.54	931	2194

Table 26 Post development drainage summary – Kalamunda Road (assumed)

Event	IN7L Peak flow (m^3/s)	Critical Storm	IN8LPeak flow (m^3/s)	Critical Storm	Total Peak flow (m^3/s)	Comments
1EY	0		0		0	All flows infiltrated within lots
20% AEP	0		0		0	All flows infiltrated within lots
10% AEP	0.007	6hr	0	NA	0.007	Minor flow out in 6hr event, after main Kalamunda Rd flows past.
1%AEP	0.564	1.5hr	0.087	2 +hr	0.651	Direct overflow from lots

Note: Based on assumed standard industrial lot detention

Table 27 Post development drainage summary – Southern POS Pond

Event	Peak inflow (m^3/s)	Peak outflow (m^3/s)	Critical Storm	Water level (mRL)	Water level from base (m)	Volume (m^3)*	Comments
1EY	0.032	0	3hr	22.54	0.04	63	Assumes groundwater at RL 22.5 if using current pond.
20% AEP	0.076	0	3hr	22.6	0.1	165	
10% AEP	0.097	0	4.5hr	22.64	0.15	240	
1%AEP	0.563	0	9hr	23.5	1	2217	Assumes groundwater already at RL 22.8 in 1% AEP event (eg wet year)

Table 28 Comparison of pre and post development flow rate – entire catchment

Location	Event (m^3/s)												Allowable Perth Airport discharge (m^3/s)
	1EY			20% AEP			10% AEP			1% AEP			
	Pre 1997	Pre Farm	Post	Pre 1997	Pre Farm	Post	Pre 1997	Pre Farm	Post	Pre 1997	Pre Farm	Post	
Lewis St (Hatch Court Drain)	0.085	0.033	0.129	0.127	0.06	0.176	0.149	0.075	0.191	0.564	1.71	0.61	1.76
Kalamunda Rd	0.01	0.005	0	0.024	0.011	0	0.035	0.017	0.007	0.341	0.202	0.651	0.492
Southern POS Pond	0	0	0	0	0	0	0	0	0	0	0	0	0.281
Total	*0.095*	*0.038*	*0.129*	*0.151*	*0.071*	*0.176*	*0.184*	*0.092*	*0.198*	*0.905*	*1.912*	*1.261*	2.533

Note: *Flow increase in 20% and 10% AEP is primarily due to external catchment modifications. See Table 29 for change within actually within subject land.*

Table 29 Comparison of pre 1997 and post development flow rate – generated within subject land

Precinct	1EY Peak flow (m3/s)		20% AEP Peak flow (m3/s)		10% AEP Peak flow (m3/s)		1% AEP Peak flow (m3/s)	
	Pre 1997	Post	Pre 1997	Post	Pre 1997	Post	Pre 1997	Post
Residential	0.02	0.033	0.037	0.072	0.056	0.091	0.453	0.151
Industrial	0.067	0.022	0.151	0.095	0.202	0.148	1.965	0.212
Total	0.087	0.055	0.188	0.167	0.258	0.239	2.418	0.363

Note: *Analysis if for areas discharging to The Living Stream and Wetland network.*

Excludes flows to Stirling St Pond, as no discharge generated in any scenarios.

Excludes flows to Kalamunda Rd, as area already developed.

8.8 FLOOD HAZARD

A flood hazard analysis was undertaken for the road system and for the Wetland and Living Stream Network. As all road flow depths are generally 0.3m or lower, the road flood risks are considered to generally be within the H1 category (*generally safe for people, vehicles and buildings*) as detailed in the ARR 2019 Rainfall and Runoff guidelines. This includes the likely tip over point from the external catchments across Stirling Crs into the Eastern Wetland. As part of detailed design more detailed 2D flood modelling may be required to check this, while noting that the flood risk posed is primarily due to flows generated outside of the subject land.

An analysis of the flood risk for Wetland and Living Stream network showed that the highest risks are generally in the H3 category (*Unsafe for vehicles, children and elderly*) Given this is an industrial area and is not being used for pedestrian or vehicle movement, this risk is considered to be acceptable for the location. Further details can be seen in Table 30. Assuming no blockage of the culverts under the new road, there is no overtopping of this road. As such there is no flood hazard risk at the road point as it crosses the Living Stream.

Table 30 Flood Hazard Analysis for Wetland and Living Stream

Section	Maximum Depth (m)	Maximum Velocity (m/s)	Flood Hazard Rating	Comments
Living Stream 1 Rock lined	0.65	0.63	H3	1:3 rock lined slope with pocket plants
Living Stream 2 - Vegetated	0.74	0.19	H3	1:6 soil slopes with dense planting
Living Stream 3 -Vegetated	0.74	0.15	H3	
Living Stream 4 - Vegetated	0.83	0.14	H3	
Western Wetland	0.83	0.5	H3	Assumed maximum average flow rate near entry and exit points. Depth does not include any potential current excavations, which are assumed to be removed)
Mid Eastern Wetland	0.86	0.5	H3	
Eastern Wetland	0.84	0.5	H3	

8.9 OUTLET SYSTEM STRATEGY AND COMPARISON

To assist with review of future designs for the Wetland and Living Stream outlet the following provides a summary of both the existing system and proposed modifications.

8.9.1 Existing Outlet Situation

At the downstream edge of the subject land, the outflow is controlled by a 375mm pipe set at RL19.02 (also taken as the effective base of wetland water level in winter). Once the capacity of this pipe is exceeded, the water is assumed to fill to the top over point of RL19.4, with an effective overflow width of 5m wide. Both the pipe and weir flow discharge directly into an open drain within the Lewis St road reserve, which contains a wide drain, with an effective base of RL 19.08 (eg level of the discharging pit). Here the flow is captured by the Perth Airport Drainage network with water discharging into twin 750mm drainage pipes (invert RL 18.04). These pipes are set within a grated 4.5m^2 box chamber (invert RL19.08).

8.9.2 Proposed Outlet System

The final modelled pipe out from the West Wetland is to be kept as a 375mm, laid at the same invert as the current pipe (RL19.02). Once the capacity of this pipe is exceeded, the water is assumed to fill to the top over point of RL19.7, with a 5m wide rock pitch weir to control the outflow. Both the pipe and weir flow discharge directly are to discharge into the existing open drain within the Lewis St road reserve. Here the flow will continue to discharge into the Perth Airport Drainage network via the existing twin 750mm drainage pipes (invert RL 18.04), which are contained within the existing 4.5m^2 pit(invert RL19.08). The outlet information is summarised in Table 31.

Table 31 Wetland and Living Stream Outlet system comparison

Scenario	Pipe size (mm)	Invert (RLm)	Weir height (RLm)	Weir width (m)
Current	375	19.02	19.4	5
Proposed	375	19.02	19.7	5

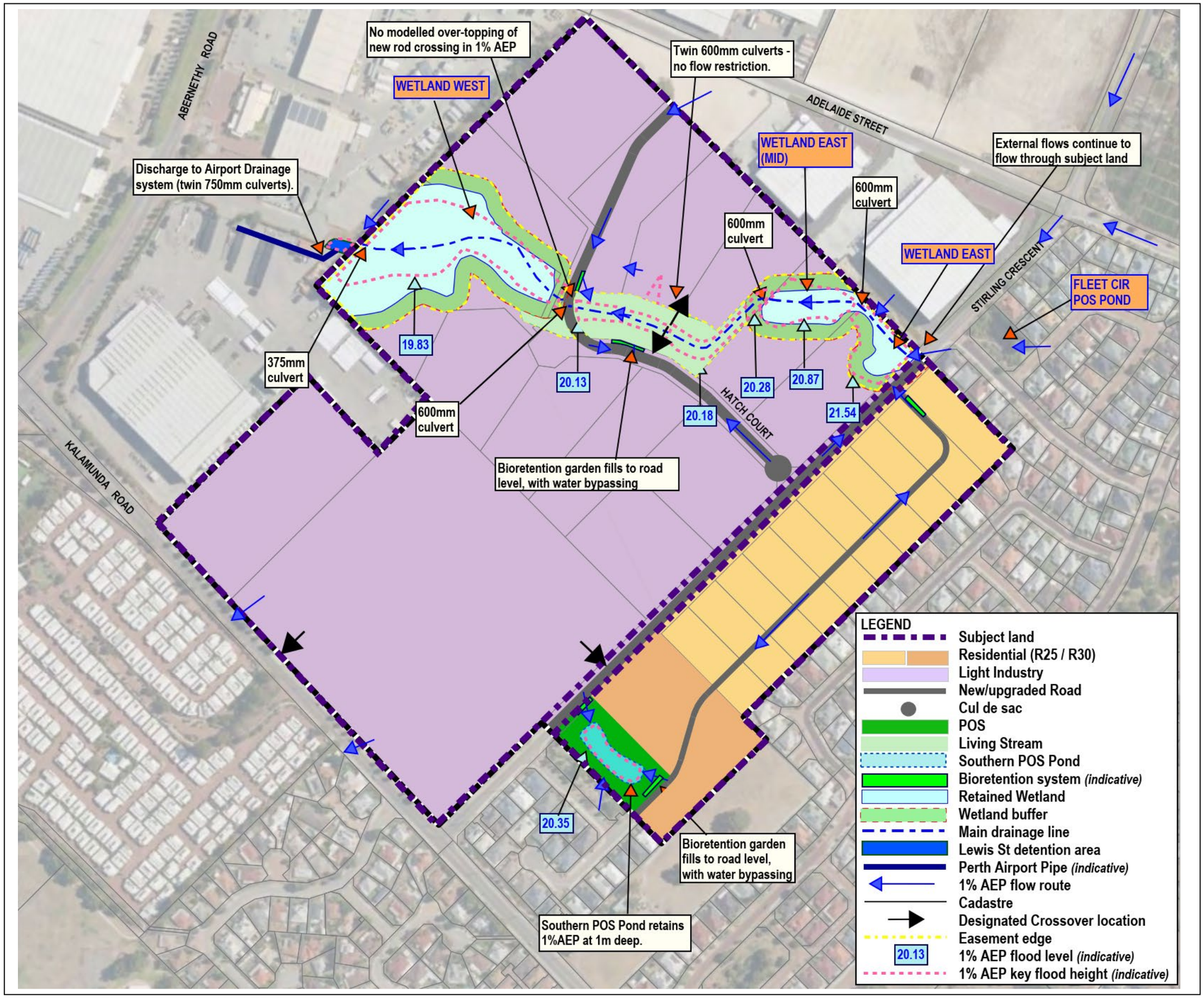


Figure 20 1% AEP flood plan

9 GROUNDWATER MANAGEMENT STRATEGY

The focus of groundwater management for the subject land is to control groundwater to the existing groundwater levels. Groundwater will also be managed to achieve a suitable water quality, via treatment of water entering the groundwater. Furthermore, groundwater discharging into the Wetland and Living Stream network will receive additional treatment prior to flowing out of the subject land. The following provides further details on the management of groundwater.

9.1 INFRASTRUCTURE SEPARATION

A vertical separation between significant infrastructure and the Controlled Groundwater Level (CGL) is to be implemented. In general, a separation of 1.5m from the CGL to the finished lot surface should be achieved. This separation will be achieved through:

- the importation of clean sand fill that allows for infiltrating stormwater to be dispersed into the fill layer
- locating subsoil pipes near infiltration devices to reduce localised mounding from stormwater infiltration
- additional subsoil networks to reduce groundwater mounding along roads and industrial lots within areas of potentially high groundwater\
- providing free draining outlets for the subsoil pipes to the Wetland and Living Stream network
- maintaining a minimum of 0.3m from the base of any infiltration device to groundwater

As part of the detailed design for each area, the groundwater levels should be reviewed so that the final fill levels and subsoil pipes levels are appropriately set. These levels, and the associated design to achieve the above criteria are to be included as part of detailed design submissions.

9.2 QUALITY MANAGEMENT

Industrial lot water will be directed to the lot-based infiltration systems, with bioretention systems preferentially to be used. Bioretention systems within the road network will also filter stormwater runoff. The infiltration of water through the bioretention systems, lot drainage systems and soil profile will remove all coarse sediments and litter as well as minimising nutrients and other contaminants from entering the groundwater.

Street sweeping is also to be used to remove potential pollutants from the paved surfaces before they are washed through to the infiltrating structures.

Groundwater discharged to the Wetland and Living Stream network will receive treatment as it slowly flows through the vegetation and its associated biofilms. This provides additional groundwater treatment prior to it flowing off the subject land as surface flow.

Lot purchasers are to also be provided with information on management of their on-lot groundwater and stormwater system so that the risk of potential contaminants being added to these systems is reduced.

To minimise nutrient migration to the groundwater or stormwater network, the landscaping is to implement nutrient wise practices. This includes:

- soil amelioration with material to hold nutrients within the soil profile,
- use of predominately native plants that are able to grow well with minimal fertiliser and additional watering,
- use of slow-release nutrients suitable to sandy soils, with minimal amounts used to assist with early establishment,
- irrigation control that doesn't result in surface water runoff or excess leaching of water into the groundwater and removal of excess plant material from the site, with its subsequent effect of removing nutrients from the system.

As part of any significant excavations, suitable detailed acid sulphate soil testing and remediation works are also to be undertaken. This is to be in line with geotechnical assessment recommendations for the specific area being developed and will likely include minimisation of disturbance of acidic potential acidic soils as well as liming of trenches and materials as required.

10 WATER DEPENDENT ECOSYSTEMS MANAGEMENT STRATEGY

The focus for water management in relation to water dependent ecosystems (WDE) is threefold:

- to manage the water quality and flow rates so that off site, down gradient (groundwater) and downstream (surface water) ecosystems are protected
- enhance and protect the on-site wetlands
- create new WDE within the subject land

The following is a summary of how each is to be managed.

10.1 OFF-SITE WDE

While there is little in the way of high-quality water dependent ecosystems (WDE) directly adjacent to or within 200m of the subject land, the water quality and flow management strategies outlined in Sections 8 and 9, will assist with protecting downstream/down gradient WDE. These strategies will reduce the potential contaminants entering these WDE and control flows so that the WDE's hydro regime remains similar to its current characteristics.

Furthermore, the enhancement of the WDEs within the subject land will provide additional habitat for fauna that already existing in the surrounding WDE. This is outline further below.

10.2 EXISTING WDE ENHANCEMENT

The onsite existing WDE's are generally degraded. As such there is limited ecological functioning within these systems. To improve this the following works are proposed:

- Retention of the mapped RE wetland
- Inclusion of 15m buffers around the RE wetlands
- Removal of major weeds from the wetland and buffers
- Revegetation with appropriate riparian flora within the wetland and buffers
- Retaining similar hydro regimes to the wetlands
- Treatment of stormwater quality prior to entering the wetlands.

The retained wetlands and buffers can be seen in Figure 19. As part of the detailed design process, a Wetland Management Plan should be produced based on the above items as well as considering the final layout and landuses of the development. Further details can also be found in the Environmental Assessment Report (See Appendix F).

10.3 CREATING NEW WDE

BIORETENTION GARDENS

The bioretention gardens within the roads and industrial lots will provide some limited habitat to generalist wetland and dryland fauna. This is due to the native plant species used within them and their water regime mimicking ephemeral wetlands. They will also assist with fauna movement between higher quality habitats. The locations seen in Figure 16.

LIVING STREAM

The creation of the Living Stream to replace the completely degraded open drain will allow for a significant area of new WDE to be created. It will also link the 2 RE wetlands, which will assist with further enhancing the ecological functioning of these systems. The Living Stream is to utilise a low flow channel and flood plain design, similar to a natural system, where area allows. This can be seen indicatively in Figures 17 - 19. Native riparian plants suited to the different zones created by this configuration are to be planted accordingly. Furthermore, the 15m buffers to the main channel for the widened portion, will also be landscaped and planted, allowing for an effective ecological linkage, as well as protection of the created waterway.

It is recommended that as part of detailed design that the following aspects are considered and incorporated into the Living Stream, to enhance the ecological functioning and provide long-term stability.

- Rock boulders on outer bends for habitat and erosion control
- Minor meanders and pools to increase habitat diversity
- Rock riffles on straights to create aeration and reduce erosion
- Dense sedge and rush planting on the channel toe and sides
- Inclusion of shrubs and trees on sides and within the floodplain
- Careful selection of vegetation alongside industrial lots to manage bushfire risks
- Potential path network for residence recreation and to facilitate maintenance.
- A maintenance access tracks within the easement, along the lot edge

As part of the detailed design process, a Living Stream Design Report should be produced based on the above items that also takes into account the final layout and landuses. The Report may be undertaken by either:

- the developer of the first lot through which the Living Stream will be created
- a joint Report from multiple lot developers through which the Living Stream is to be located
- the City as a representative of the entire precinct
- other entity as determined as part of detailed design

The City will have the ultimate approval of the Living Stream design, to make sure that it is compliant with both the required drainage and ecological functions it is to provide.

SOUTHERN POS POND

The current pond in the proposed Southern POS is effectively a grassed depression with permanent water. As part of the creation of the proposed POS, the pond is to be landscaped to both enhance its ecological functioning and to make it safe for public interaction. The future design should consider the following:

- Battering back of the bank to 1:6 slopes
- Planting the sides and shallow inundated areas with native riparian species
- Keeping grass and other weeds separate from the pond through a path or similar barrier
- Potentially raising the base of the pond so that it is dry by mid spring.
- Minimising fertiliser use near the pond to reduce nutrient entering the waterbody.

10.4 MOSQUITO MANAGEMENT

The design of the proposed stormwater network should not increase the current areas of open water during warmer months. As part of detailed design, a mosquito management plan should be produced to assist with minimising the risk of mosquito breeding and the migration of mosquitos to areas frequented by humans. All on lot and roadside infiltration systems should also be designed to fully drain within 72 hours so that these structures do not provide breeding habitat.

11 WATER SERVICING AND SUSTAINABLE USAGE STRATEGY

11.1 POTABLE WATER

The site is to be connected to the Water Corporations' potable water supply. The proposed water reticulation network is outlined in the civil engineering report (See Appendix A). It is noted that upgrades will be required to service the area as the current scheme is only suitable for the current rural residential density.

11.2 WASTEWATER MANAGEMENT

The residential areas are to be connected to the Water Corporation's wastewater system. The proposed internal sewer network and connection points is outlined in the civil engineering report (See Appendix A). It is noted that upgrades will be required to services all of the residential portion

The industrial lots are proposed to be serviced from on-site wastewater treatment systems. The existing surrounding sewer network is too high to allow for connection via gravity. The implementation of the onsite systems is to be in line with the General Site and Soil Evaluation Hatch Court Light Industrial Area and Stirling Crescent Precinct Hatch Court and Stirling Crescent, High Wycombe, WA (Galt 2025). As a general summary, all systems are to be set a minimum of 100m from the Wetland and Living Stream network. Variations to the separation may be made on a case-by-case basis and subject to approval by DWER and the Department of Health. Each system is also to maintain a 1.5m separation from the CGL and the base of the disposal field. A 200mm depth of soil media below the disposal areas is to also have a PRI of at least 20.

The systems are also to be monitored on at least a 3-year period to make sure that they continue to operate as required.

11.3 LANDSCAPING WATER USAGE

The POS areas are generally to only receive irrigation during the first 2 years of establishment. The Southern POS may have some irrigated areas, subject to future detailed design. The irrigation source is to be determined as part of the Landscaping Plan for the POS. It is note that there is currently allocation available within the Superficial Aquifer and that the City already has groundwater licenses for other nearby POS areas.

11.4 FIREFIGHTING WATER SUPPLY

Fire hydrants will be provided throughout, as per the relevant regulations.

12 MONITORING & MAINTENANCE

12.1 PREDEVELOPMENT

12.1.1 Groundwater

The predevelopment groundwater monitoring for levels and quality already undertaken is considered suitable for the subject land. It shows that groundwater rises to the surface and discharged out of the Hatch Court wetland and open drain network. Outside of the areas near this system, the majority of the subject land has a separation in excess of 1m. As such there is limited value in further long-term groundwater level monitoring. There may potentially be value in checking groundwater depths for specific land application areas as part of future detailed design, so that minimum separation levels can be determined.

The groundwater quality is unlikely to have significantly changed since the original quality monitoring was undertaken, given the landuses within the subject land have remained similar, except for some dry industrial land uses. The surrounding landuses have also remained similar over the last 20 years. For this reason, there is likely limited value in additional groundwater quality monitoring, as the results are unlikely to of changed significantly, and there is no proposed use of the superficial groundwater for sensitive uses.

Potentially, base line groundwater quality assessments may be required for particular industrial landuses. This would be for landuses that have the potential to contaminate the groundwater system eg fuel depot. The need for this specific monitoring is to be determined as part of the detailed design for the industrial area.

12.1.2 Surface water

There has been some preliminary surface water system level monitoring as reported in the DWMS. As the subject land that feeds the 2 main proposed stormwater management systems (Hatch Court Wetland and Living Stream / Stirling Crs Basin) has remained the same since this monitoring there is limited value in additional level monitoring.

Event based monitoring may be undertaken if there are particular instances where extreme floods occur, allowing for correlation to modelling data. Should this take place, then this information should be incorporated into the future detailed design of the subject land.

As noted in Section 8,3 the surface water quality is likely highly correlated to the groundwater, for which there is existing pre development monitoring. There is likely to be limited value in undertaking surface water quality testing due to the current quality data and the fact that the ecological systems being retained are already being exposed to the type of surface water quality that is likely to be present post development. Furthermore, main that the effects of development of the subject land on surface water is unlikely to be able to be separated from the impact on already developed areas, unless there is dedicated monitoring of the discharge water from individual lots or pipes across the subject land.

Surface water quality monitoring may be undertaken if there are particular concern from current internal or surrounding landuses, which are yet to be identified. Also monitoring may be required for particular industrial landuses that have the potential to contaminate the surface water system eg truck wash. Should this take place, then this information should be incorporated into the future detailed design of the subject land.

12.2 CONSTRUCTION PHASE

Installation of sediment and stormwater control structures is to be undertaken ahead of the construction phase of the subdivision development where required. This will include the use of water sensitive urban design techniques such as sediment curtains, hydromulching and temporary detention basins to maintain the quality of the water potentially leaving the development area during construction. The full drainage network will be monitored for any damage, including sediment build up and litter accumulation during, and at the completion of, construction to ensure their effectiveness is not diminished post-development. Further details are outlined in Table 31.

12.3 POST-DEVELOPMENT

The post development monitoring and maintenance will be undertaken initially by the developer, with lot owners undertaking the long-term works and responsibilities.

Routine monitoring will focus on the functionality of the relevant elements compared to their specified design requirements. The vegetated WSUD elements are to be monitored by personnel with floristic knowledge and/or qualifications, as they will be capable of identifying evasive species within the natively vegetated WSUD systems. Furthermore, personnel in charge of monitoring will have a good understanding of principles and the functional design of the WSUD elements and the treatment system.

Maintenance inspections are to be scheduled to be conducted after a significant storm event as well as through seasonal periods of higher groundwater. Further details are outlined below and in Table 32.

Stormwater

The stormwater monitoring and maintenance works by the developer initially and ongoing by the lot owner are to ensure that:

- the inlet and outlet structures are kept free of debris;
- sediment build up is not impeding functionality, with any excess sediment removed;
- any erosion is halted and repairs undertaken;
- bioretention systems are not compacted, with remediation works undertaken as required;
- litter is removed;
- the underground infiltration systems are draining as designed
- excessive hydrocarbons, nutrients or other contaminants are not present in the system and that removal is undertaken if found.
- there is no standing water in the network (noting a base groundwater flow in designated areas is required).
- the drainage network vegetation is healthy and providing suitable levels of water quality treatment
- weeds are suitably controlled within all drainage systems
- the Wetland and Living Stream network is free draining, with no clogging or extended ponding

Groundwater

The groundwater monitoring and maintenance works are to ensure that:

- the subsoil outlet structures are free of debris, plants or sediment, with removal undertaken as required;
- the subsoil network is clean and free flowing;
- the groundwater base flow through the perimeter wetland system is not obstructed;
- there is no excessive mounding of groundwater causing issue within infiltrating devices.

Table 32 Proposed Monitoring and Maintenance Schedule

Function/System	Item to Monitor	Details Monitored	Trigger for Immediate Action	Maintenance Action Required	Proposed Monitoring Frequency	Responsible Authority (Timeline)
CONSTRUCTION PHASE						
Design implementation	Structural Design	Systems are constructed to engineer detailed design specification	Systems constructed differs to design specifications.	Remedial work to rectify systems to meet design specifications.	As part of civil construction inspections	Developer (Until PC achieved))
	Structural Effectiveness (inlets, traps and outlets)	Inspection for debris, litter and sediments surrounding structural components	Debris, litter or sediments causing blockages or impairing functions.	Remove any debris or blockages. Inspect systems for any erosion related issues.	Monthly	Developer (Until PC achieved))
POST-DEVELOPMENT						
Drainage Management Systems (includes traditional and WSUD systems)	Erosion	Inspection for erosion.	Presence of severe erosion or erosion impairing functions.	Investigate, identify and rectify the cause of the erosion. Replace eroded material as required.	Monthly for first 2 years then after high rainfall events	Lot owners (ongoing)
	Sediment Build Up	Inspection for sediment accumulation within pits, on the surface of bioretention systems and within basins.	Accumulation of large volumes of sediments and/or silts in pits or on the surface (according to Local Government standards).	Investigate, identify and stabilise cause of sediment source. Remove accumulated sediments and replace filter media or plants removed.	3 Monthly for first 2 years then after high rainfall events	Lot owners (ongoing)
	Compaction	Inspection of filter media for compaction, could include being driven on.	Water remains ponding longer than designed in bioretention system after a storm event.	Investigate cause of compaction. If localised, remove top 100mm of filter media, break up the filter and then return to system without any compaction. If extensive seek expert advice.	Monthly for first 2 years then after high rainfall events	Lot owners (ongoing)
	Rubbish/Litter	Inspection for the presence of litter.	Litter is blocking structures or detracting from the visual appearance of the system.	Identify source of litter and undertake appropriate responses. Remove litter.	Every 3 months	Lot owners (ongoing)
	Vegetation health	Density of plants, mix of plants and general health.	Area of 5m^2 bare, monoculture establishing, many plants appear in poor health	Determine source of issue and rectify via replanting with appropriate species	Every 3 months	Lot owners (ongoing)
	Oil/Hydrocarbons	Inspection for the occurrence of oil on surface.	Oil coverage persists for more than 2 weeks and is thick.	Notify the relevant entities of the spill and clean up requirements.	Every 3 months	Lot owners (ongoing)
	Weeds	Weed encroachment causing obstruction or impacting native plant growth	Weeds cover of more than 5%. Weeds blocking drainage pipes or flow path.	Undertake weed control via herbicide and, where required, physical removal.	Every 3 months	Lot owners (ongoing)
	Road sediment and litter	Determine level of sediment and litter build up on roads.	Visible litter and sediment that is in quantities that could have a detrimental impact on downstream WSUD systems	Sweeping of roads to remove sediment and litter	As required.	Lot owners (ongoing)
	Obstructions	Item/plants blocking flow path	Blockage likely to cause/is causing ponding or flooding	Remove blockage	Every 3 months and as required	Lot owners (ongoing)
	Permeability	Bioretention systems free draining/ no standing water after 72hr	Water present after 72 hrs or draining significantly slower then designed	Determine potential cause including surface contamination with fines or subsoil network not working	Every 3 months and after significant rain events	Lot owners (ongoing)
Groundwater Management	Groundwater levels - infiltration system	Presence of groundwater in bioretention gardens	Groundwater above the floor for more than 1 week.	Install subsoil network to control groundwater rise or lift the floor level and provide additional storage higher up.	Monthly June to October	Lot owners (ongoing)
	Subsoils	Subsoils free draining	Groundwater not outflowing but groundwater is rising within built up portion of development.	Clean out relevant areas of subsoil network	Monthly June to October	Lot owners (ongoing)

13 IMPLEMENTATION PLAN

The developers of the subject land will be responsible for undertaking the majority of the initial water management strategies outlined in this report, with other entities assisting and supporting the works, especially over the longer term. The following details the actions and works to be undertaken by the developer and relevant authorities as part of the development of the subject land.

COMMITMENTS BY DEVELOPER

- Production of Subdivision and Development Water Management Reports (SDWMR) or similar as part of each portion of development
- Production of engineering drawings in line with the LWMR and subsequent SDWMR's. Includes suitable crossing structures and configurations of the Wetland and Living Stream Network.
- Water sensitive urban design techniques such as sediment curtains, hydro-mulching and temporary detention basins will be used to maintain the quality of the water leaving the development area during construction as required.
- Construction of stormwater drainage systems and infrastructure.
- Protection and enhancement of the RE wetlands including initial maintenance
- Creation of suitable easements for the Wetland and Living Stream network.
- Construction and initial maintenance of the Living Stream system
- Construction of groundwater control systems.
- Appropriate earthworks employed across the site.
- Produce and implement Construction Management Plans.
- Implement all servicing and drainage infrastructure in accordance with the LWMR/SDWMR and relevant design reports.
- Utilise nutrient wise and water wise landscaping within the POS areas.
- Undertake post-development monitoring as required.
- Provision of material to lot purchasers on their drainage implementation and ongoing management requirements.

COMMITMENTS BY THE CITY OF KALAMUNDA

- Review and advise on the LWMR
- Review and approval of future SDWMR's and similar guiding documents
- Approval of drainage design and other water management works.
- Management of the drainage network after handover.
- Approval of on-lot stormwater detention systems as part of the individual building licenses.
- Review and approval of on-lot wastewater management systems.
- Suitable management of POS areas after handover
- Suitable management of the Wetland and Living Stream system in conjunction with lot owners

COMMITMENTS BY DEPARTMENT OF WATER AND ENVIRONMENTAL REGULATION

- Review and approval of the LWMR
- Provision of advice to assist with approvals of the SDWMR as requested by the City.

COMMITMENTS BY THE WATER CORPORATION

- Review and approval of residential wastewater servicing designs.
- Manage the residential wastewater servicing for the development post handover.
- Review and approval of water servicing designs.
- Manage the potable water service to the development post handover.

COMMITMENTS BY THE LOT OWNERS

- Implementation of on-lot storage, in line with the LWMR and subsequent building licenses.
- Ongoing management of the on-lot storage.
- Management of relevant portions of Living Stream and Wetland Network in line with approved management plan

14 REFERENCES

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Appendix A ENGINEERING DRAWINGS

Report Name: HATCH COURT AND STIRLING CRESCENT LIGHT INDUSTRIAL AREA SERVICING REPORT

Project No: PC25100

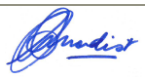
Project Title: Engineering Services Report



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Revision	Description	Author	Checked	Approved	Date
A	First issue	DR	EBF	EBF	20/02/2026
B	Second issue	DR	EBF	EBF	01/05/2026
C	Third issue	DR	EBF	EBF	12/06/2026
D	Fourth issue	DR	EBF	EBF	10/07/2026
E	Fifth issue	DR	EBF	EBF	15/07/2026

Recipients are responsible for eliminating all superseded documents in their possession.

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EXECUTIVE SUMMARY

Key constraints and recommendations of this report are summarised as follows:

Risk Matrix

Consequence Likelihood	Insignificant	Minor	Moderate	Major	Severe
Remote	Insignificant	Insignificant	Low	Low	Medium
Unlikely	Insignificant	Low	Low	Medium	Medium
Possible	Low	Low	Medium	Medium	High
Likely	Low	Medium	Medium	High	High
Almost Certain	Medium	Medium	High	High	Extreme

Qualitative Measures of Likelihood or Frequency

Scale	Criteria to be used to establish rating
Almost Certain	Will occur. Circumstances or situations are likely to arise often throughout the planning / project period which provide the opportunity for crystallization of risk. Expect frequent, regular occurrences.
Likely	Likely to occur more than once in the planning period but not an 'everyday' occurrence. Preconditions will arise at times throughout the period.
Possible	Likely to occur at least once but not expected to occur much more than this in the planning period.
Unlikely	Not likely to occur in the planning period. A small, but remote chance of occurrence due to circumstances/situations that could arise.
Remote	Would only occur in highly exceptional circumstances that are unlikely to exist in any planning period. Extremely remote chance of occurrence in planning period. 'Once in a lifetime' event.

Qualitative Measures of Impact – Consequence Severity

Impact	Consequence Criteria
Severe	Near impossible to develop subject site and expected development viability is very low. E.g., Significant Habitat, Major floodway within site etc. Requires comprehensive development viability analysis and specialist input.
Major	Very difficult to develop subject site and expected development viability is low, will involve significant investigations, very expensive major service relocations, many significant trees of excellent health etc. Requires development viability analysis and specialist input as required.
Moderate	Challenging to develop subject site, expected development viability is adequate, will involve further investigations, costly service relocations, many registered trees of excellent health etc. Specialist input as required.

Minor	Relatively simple challenges to develop site, expected development viability is good. Minor upgrades to existing services are required to develop site.
Insignificant	No challenges or risk to program in developing site.

Degree of Risk

Risk Rating	Definition of Risk Rating
Insignificant	Certain development prospect, no foreseeable challenges.
Low	Site is developable with only minor works or investigations required. It is advised to progress to continue the development process.
Medium	Site is developable with significant works or investigations required. It is advised to progress to continue the development process.
High	Site is developable with major works or investigations required. No further investigation recommended without cost benefit analysis first being undertaken.
Extreme	Site or component is undevelopable or unviable without significant changes.

Key Site Risks

Below summarises key site risks with associated risk ratings and high-level recommendations to improve clarity for planning and approvals:

VEHICULAR ACCESS

Risk Description: The subject site currently obtains vehicular access from Stirling Crescent, Adelaide Street and Kalamunda Road. Construction of the internal shared road network for the development, together with the site's reliance on the surrounding road network, will require coordination with any broader regional road upgrades planned by MRWA. In particular, future upgrades affecting Stirling Crescent, Kalamunda Road and adjoining intersections may influence the ultimate access arrangements, intersection treatments, staging of works and timing of development within the Hatch Court Light Industrial Area. Failure to appropriately integrate the proposed development with the regional road improvement program may result in additional infrastructure contributions, redesign requirements, increased construction costs and potential delays in obtaining subdivision and development approvals.

Risk: MEDIUM

Recommendation: Ongoing consultation should be undertaken with the City of Kalamunda, MRWA and the project traffic engineers to monitor the status and timing of regional road upgrade projects and confirm their implications for the HCLIA. Detailed traffic impact assessments should be updated as the proposal progresses to ensure that the internal road network and access arrangements remain compatible with the ultimate regional road configuration. Where necessary, road infrastructure upgrades and associated contributions should be identified early and incorporated into the development staging strategy to minimise approval risks and facilitate the orderly delivery of the subdivision.

Refer to **Section 5.1** for further information.

BUSHFIRE

Risk Description: The current online bushfire mapping listed on the Department of Fire & Emergency Services (DFES) website demonstrates that the subject site is within a Bushfire Prone Area. Additional planning and building requirements will likely apply to the proposed development.

Risk: MEDIUM

Recommendation: Additional planning and building requirements may apply to the proposed subdivisional development in accordance with Schedule 2 Part 10A of the Planning and Development (Local Planning Schemes) Regulations 2015, State Planning Policy 3.7, WA Guidelines for planning in Bushfire Prone Areas, and the Building Code of Australia.

Refer to **Section 2.6** for further information.

SITE GRADING AND EARTHWORKS

Risk Description: Site grading will generally be determined by the proposed building pads, servicing requirements and environmental and geotechnical constraints of the site to ensure a sustainable as well as economic development. Bulk Earthworks will be dictated by building pads and vehicle access point. The stormwater strategy will need to be confirmed; however, it is likely that stormwater for major storm events will be directed naturally towards the closest watercourse. To accurately assess stormwater requirements further information is required in regard to the site's geotechnical properties. These requirements may incur additional costs and result in potential delays in timeframe for the proposed development.

Risk: MEDIUM

Recommendation: The subject site earthworks will mainly be determined by the drainage requirements and the building pads as per the proposed LSP development plan. The general topography of the subject sites is mild sloping from east to west at approximately 1 in 50 to 1 in 100 slopes across the site. The highest point is at the intersection of Hatch Court and Stirling Crescent at approximately 24m AHD and the lowest point is over the subject site at approximately 20m AHD at the western boundary of the site. Shallow groundwater was encountered across the southern half of the site at depths of approximately 0.6 m to 0.8 m below existing ground level and may potentially have an adverse effect on stormwater infrastructure or proposed development, however it is recommended that a geotechnical assessment be undertaken to accurately assess the site.

Refer to **Section 3** for further information.

SEWER

Risk Description: Development to date within the Hatch Court Light Industrial Area has proceeded with onsite effluent disposal, as the site is not currently connected to a reticulated sewer network, with the nearest existing sewer infrastructure within the planned catchment for the landholdings, located a significant distance from the subject land. Each development site will be required to assess its needs with regards to wastewater disposal and make due applications to the regulatory health authorities for on-site treatment and disposal.

Advice from the Water Corporation is that the subject site is dependent on the sewers to the north heading across the bypass, where the current sewer catchment planning shows sewerage from the area is required to discharge. There are existing sewers located to the south west at the intersection of Striling Crescent and Acton Link and Wem Mews and to the north east at the intersection of Benson Way /Stirling Crescent, however, connection to these existing sewers can only be achieved provided a suitable depth to the sewer is established as part of the extension works.

Risk: HIGH

Recommendation: Confirm proposed layout of the development and assess the impact on the existing sewer. Provide Water Corporation with additional information detailing the residential subdivision levels to confirm whether Water Corporation will entertain connecting either all or a portion of the proposed residential area within the LSP area. Current advice is that the area will require servicing

to the north/northwest through landholdings outside of the LSP area.

Water Corporation will also be required to confirm serviceability of the site based on the ultimate design of the development.

Refer to **Section 6** for further information.

POTABLE WATER

Risk Description: The subject site is currently serviced by existing potable water mains located along Stirling Crescent and the Hatch Court cul-de-sac, which primarily provide residential connections. These existing assets offer potential connection points for the proposed water reticulation network; however, the suitability of these connections will depend on the ultimate water demand generated by the development.

A detailed assessment of potable water requirements will be necessary to determine whether upgrades or additional water reticulation infrastructure will be required to adequately service the development. This assessment should consider peak demand, fire flow requirements, staging, and the capacity of surrounding network assets.

All internal potable water reticulation infrastructure is to be designed and constructed in accordance with the relevant Australian Standards and the Water Corporation of Western Australia's design, construction, and servicing requirements to ensure compliance, service reliability, and long-term operational performance.

Risk: **MEDIUM**

Recommendation: Confirm the existing potable water infrastructure's connection, alignment, and size. Correspondence with Water Corporation has confirmed that the current existing water infrastructure will require upgrades. All internal potable water reticulation pipework is to be designed and constructed to the standards and requirements of the Water Corporation of Western Australia. Standard Water Corporation water headwork charges will apply. Verification with the Water Corporation will also be required to confirm serviceability of the site based on the ultimate design of the development.

Refer to **Section 6** for further information.

STORMWATER DRAINAGE

Risk Description: An existing double-side entry stormwater pit is located on Hatch Court with a 300mm pipe connection through to the existing drainage easement on the subject site. The majority of the stormwater on hatch court flows to the side entry pit, however stormwater from the cul-de-sac head flows back onto adjoining private property. Construction of on-site stormwater drainage infrastructure will be required for the proposed development which may incur additional costs and potential delays in timeframe. There are also potential risks involved with clashes between the drainage corridors and other services that will traverse the local road network, as well as safety issues surrounding the drainage corridor depths.

Risk: **HIGH**

Recommendation: Drainage should be constructed in accordance with the Hatch Court Local Water Management Strategy (LWMS) and subsequent Urban Water Management Plans. MRWA safety guidelines should be adhered to for depth and swale slope steepness, the slope must not be greater 1 in 4 and the height must not exceed 0.9m.

Refer to **Section 6** for further information.

SUBSOIL DRAINAGE

Risk Description: The subject site will require subsoil drainage after development due to the close proximity of the finished ground levels to the groundwater table.

Risk: HIGH

Recommendation:. Subsoil drains are to be installed within the verge to manage groundwater levels, as recommended by the hydrological consultant. The subsoil drainage pipes should be designed to convey groundwater to the nearby waterway.

Refer to **Section 6** for further information.

GAS

Risk Description: DBYD information and review of the Atco gas network coverage map shows that there is reticulated gas services available in the immediate surrounding area. A 63 PE 1.5 PEHP 70kPa polyethylene high pressure gas main runs along Hatch Court. A Critical Asset Warning applies to this area. No works within 15 metres of the critical assets are permitted without prior written approval from ATCO Gas Australia. Hand exposure via pothole method is mandatory prior to any excavation in the vicinity of these assets. The project team must contact ATCO Gas Australia directly before commencing any works.

Risk: HIGH

Recommendation: Confirm the existing gas service infrastructure's connection, alignment and size.

Refer to **Section 6** for further information.

PEDESTRIAN ACCESS

Risk Description: There is currently no existing Pedestrian Path located in the general vicinity of the subject site. The provision of pedestrian infrastructure upgrades or modifications if required may incur additional costs for the development, however, is likely to be shared over the total development.

Risk: LOW

Recommendation: Peritas recommend undertaking a condition report of the existing bus stops surrounding the site prior to award of the contract to the builder. Any damage during the construction to be rectified by the builder.

ENVIRONMENTAL CONTAMINATION

Risk Description: A contaminated land search on the DWER website indicates the site is not within known contaminated sites. No further actions from an environmental contamination perspective are required for the proposed development site. There is high to moderate risk and moderate to low risk (<3m from the surface) Acid Sulfate Soils (ASS) in the subject site, however additional testing may be required to be undertaken.

Risk: LOW

Recommendation: Further actions from an environmental contamination perspective may be required for the proposed development site. Future development plans, including the depth of excavation and any dewatering for sewer installation, would determine whether further investigation and ASS management is required.

Refer to **Section 2.4 and 2.7** for further information.

ELECTRICAL AND STREETLIGHTING

Risk Description: The proposed development currently has overhead HV and LV infrastructure in the subject site vicinity. Existing overhead High Voltage distribution lines (1 kV – 33 kV) and a Transmission line (33 kV – 330 kV) are present within and adjacent to the precinct, along with Low Voltage overhead lines (< 1 kV) serving existing lots. Underground HV/LV cables, street light circuits, pillars and terminations are also present within the local road network including along Stirling Crescent. All works in proximity to these assets must comply with Western Power clearance requirements.

Risk: HIGH

Recommendation: Confirm the existing electrical service infrastructure's connection, alignment, and size. An EPR/LFI assessment is required when a transformer/switchgear is installed as part of the subdivision. An application to the Western Power Transmission team is required for an assessment to determine the easement width. Western power assessment is required before carrying out any work in the vicinity

Refer to Section 6.5 for further information.

FLOOD.

Risk Description: DWER confirms they have no information on flooding or flood levels at this location.

Risk: Low

Recommendation: A minimum habitable floor level of 0.5 metre above the adjacent 1% AEP flood level is recommended to ensure adequate flood protection.

Refer to **Section 2.8** for further information.

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1. INTRODUCTION

Peritas Group was commissioned by Dynamic Planning and Developments on behalf of the City of Kalamunda to review the engineering constraints and servicing requirements associated with the Development of the subject site.

The subject site comprises of a light industry area and several residential lots to a total of approximately 33.6 hectares as shown in **Figure 1** below. The subject site is located approximately 14kms northeast of the Perth CBD and 6km from the Perth International airport. The High Wycombe Train station is located approximately 4km from the subject site. The site is located in close proximity to major road links, including Roe Highway, Kalamunda Road and Abernethy Road.



Figure 1 Aerial View

The majority of the site is clear of significant vegetation with minimum existing structures, which will need to be considered in the relevant development stages.

In summary, this report highlights:

- The subject land is capable of sustaining development in keeping with the proposed light industrial and residential development.
- The land is capable of being connected to and provided with all essential services to sustain residential development (based on current and future service authority planning).
- The proponent's strategy for the subject land will complement the natural landform by careful design of the bulk excavation, site grading and landscaping.

This report has been compiled based on the following terms of reference:

- Briefing discussions and meetings with the client.
- Site inspection and site walkover.
- Numerous discussions with Local Government Agencies.
- Site data and documents included on this report.
- Servicing concepts and Regional Strategic Infrastructure planning by the regulatory authorities.

The majority of the subject site is zoned as Light Industrial and partially residential as shown in MNG Maps in **Figure 2** below:

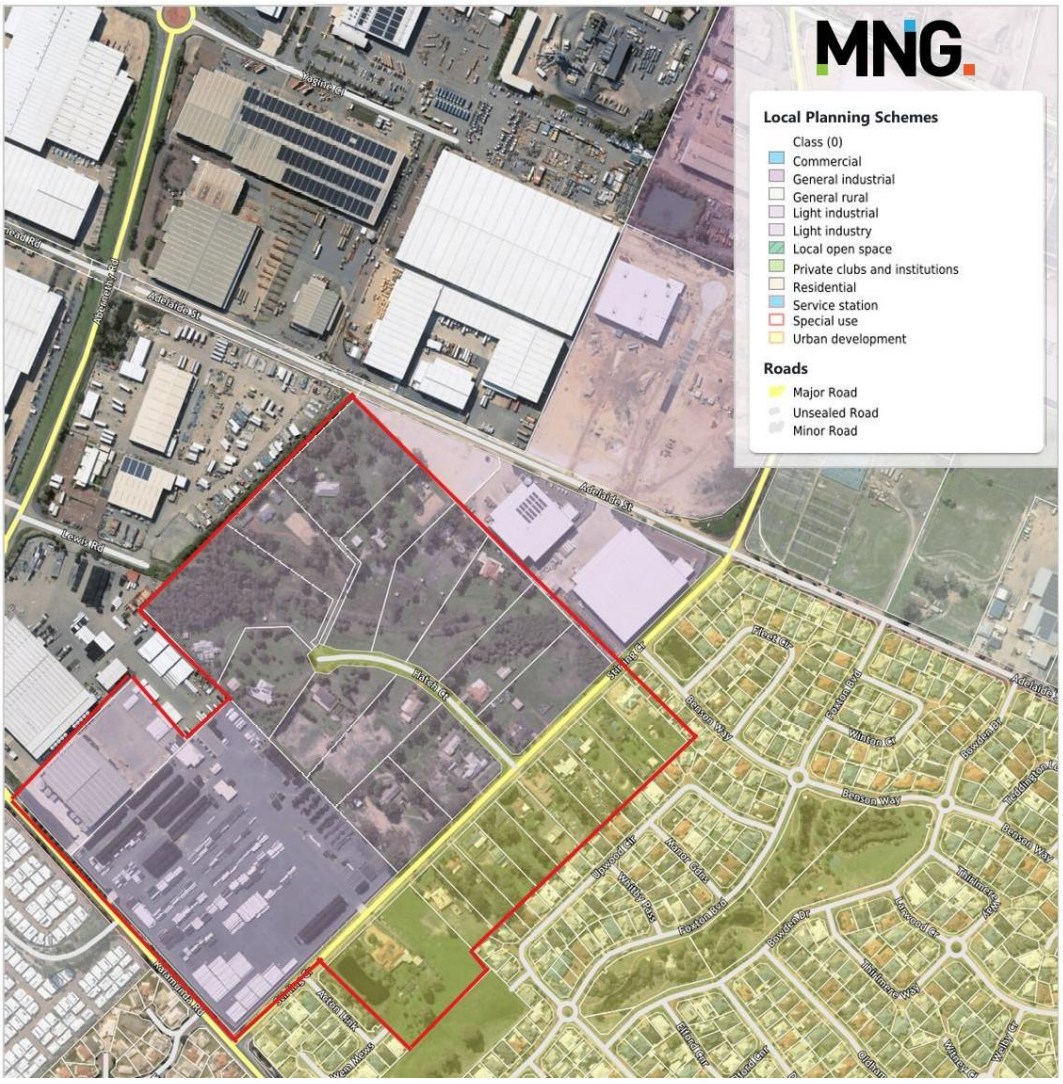


Figure 2 Town Planning Map (MNG)

1.1 Proposed Development

The proposed development is yet to be confirmed in more detail, however, at the time of this report the subject site comprises of the following approximate land usages:

Table 1 Summary of land use areas

Total Structure Plan Area	31.882ha
Area of each land use zones: • **Residential** **Light Industry**	 4.9126ha 21.57ha
Area of reserves: • **New Road Reserves** • **Public Open Space/Drainage** • **Wetlands & Buffer** **Living Stream**	 1.4088ha 0.29ha 3.0591ha 0.6415ha
Estimated lot yield (Residential)	140 lots
Estimated dwellings	140 dwellings
Estimated density per site hectare	28.5 dwellings
Estimated population	350 residents @ 2.5 people per household.
Primary Schools	None
High Schools	None
Total Structure Plan Area	31.882ha
Estimated population	350 residents @ 2.5 people per household.

The proposed structure plan layout for the subject site can be found in Figure 3 below.

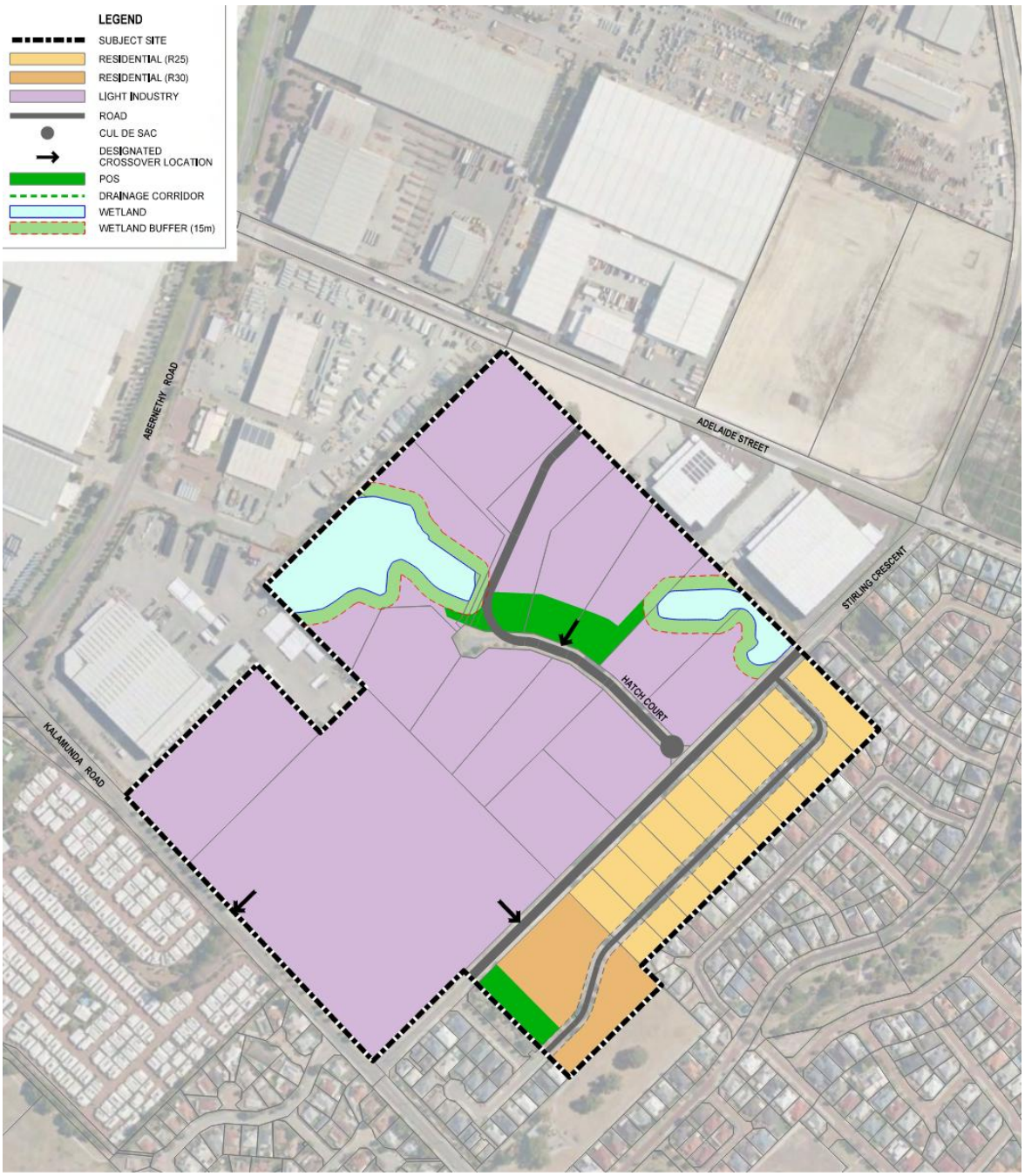


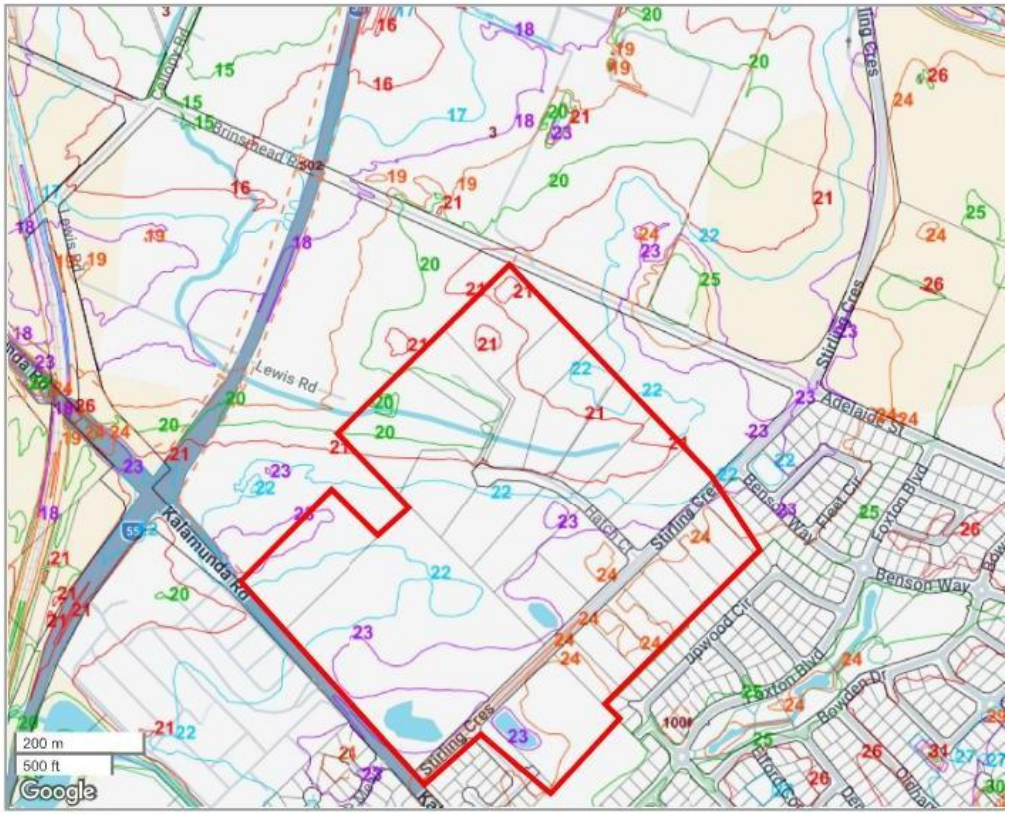
Figure 3 Draft Structure Plan Layout

2. SITE EVALUATION

2.1 General

Within this section, a detailed summary of the existing services and constraints information has been compiled and summarized for the subject site. The detailed analysis includes a review of Dial Before You Dig (DBYD) information, aerial photography, review of DWER and DPLH Databases, Water Corporation records, and correspondence obtained from service authorities.

The general topography of the subject sites is mild sloping from east to west at approximately 1 in 50 slopes across the site. The highest point is at the intersection of Hatch Court and Stirling Crescent at approximately 24m AHD and the lowest point is over the subject site at approximately 20m AHD at the western boundary of the subject site as seen in **Figure 4** below.



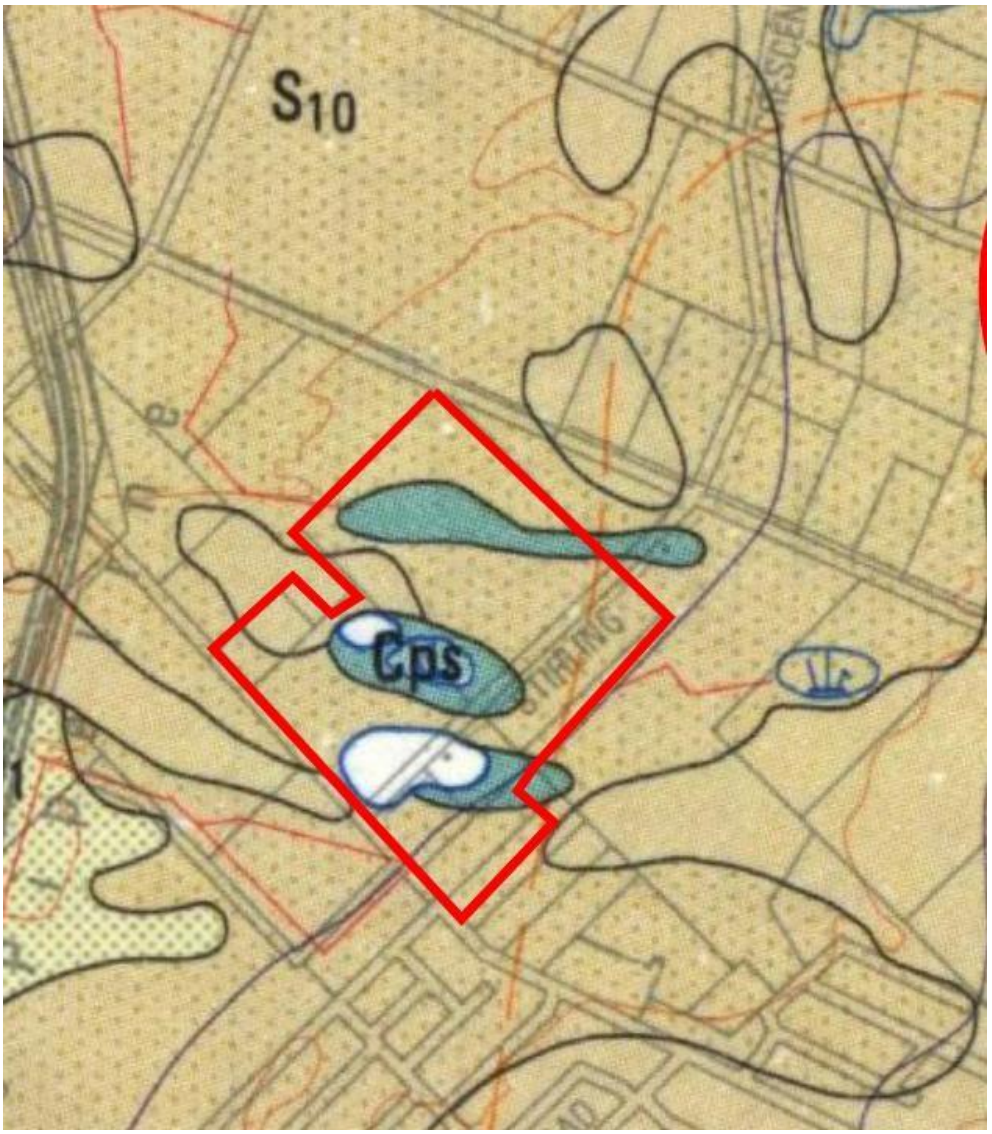
© Copyright 2005 Water Corporation

Figure 4 Natural Surface Level Contours (Water Corporation ESInet 22)

Subject to final development layout, the land might require bulk earthworks to be completed to regrade the site to suit the building footprint.

2.2 Site Geology

The subject site geology can be seen in **Figure 5** below, which shows that the majority of the site is underlain by sandy soils. Within the vicinity of the existing creek corridor, a layer of organic silty sand approximately 0.8 m thick overlies the underlying sand profile. In the northern portion of the site, iron-indurated sand (commonly referred to as *coffee rock*) has been encountered at an approximate depth of 2.0 m below existing ground.



Map Unit [1]		Description
Unconsolidated Material [2]	Rock [2]	
Cps		PEATY CLAY – dark grey and black [3] with variable sand content of lacustrine origin
M_1		SILT – grey mottled yellowish brown, blocky, firm, variable clay content
P		PEAT – black, clayey in part, saturated fibrous organic soil
Sp		PEATY SAND – greyish brown, medium-grained quartz, moderately well sorted, variable organic content, of lacustrine origin

Figure 5 Site Soil Classification (Geological Survey of Western Australia)

Table 2 Summary of Geological Mapping

Map Sheet	Map Scale	Mapped soils	Site findings
Perth	1:50000	Northern portion of site underlain by a thin layer of Bassendean Sand overlying Guildford Formation Southern portion of site underlain by Swamp Deposits (Peaty Clay)	SAND (SP) overlying Coffee Rock in the northern half of site; and Organic Silty SAND (OL) overlying SAND (SP) in the southern half of site

The subject site will require further investigation during specific development phases with due regard to the proposed building pads and drainage requirements.

2.3 Previous Geotechnical Investigations

A geotechnical investigation was also undertaken by Galt Geotechnics in 2025. The key findings from the investigation reinforce the ASS study and the geotechnical study and show they are generally consistent with the geological mapping. The summary of the geotechnical assessment is specified in the table below.

Table 3 Summary of Geotechnical Assessment

Type	Clause	Parameter	Comment
Site Suitability	-	-	We consider both sites to be geotechnically suitable for the proposed development with appropriate site preparation measures. Standard site preparation measures will apply for most of the site.
Site Classification (AS2870)	GDR5	A / P	Class A for most of each site. Class P in drainage lines, wetland areas and lakes. The site classification in these areas could be improved if organics soils are removed and replaced
Site Preparation	GDR6	Ce	For most of the site: preparation will comprise GDR6.2.1 Common Measures followed by GDR6.2.2 Sand Sites. Surficial uncontrolled fill in the northern part of the site must be remediated. We anticipate raising of the site above shallow groundwater levels by importation and compaction of sand fill

			(Permeable Sand) however this is subject to civil design. In drainage lines, wetland areas and lakes. If these areas are to be developed, organic soils present in these areas will need to be removed and replaced with approved fill. Dewatering and treatment of water / soil for acid sulfates will also be required.
Footing Preparation and Testing	GDR6.4	-	We expect the base of footings at this site to be entirely within sand. We refer you to GDR6.4.1. A PSP may be used to verify compaction in footing excavations as discussed below.
Topsoil Strip	GDR6.2.1	Thickness = 100 mm	Expected thickness of topsoil strip (average).
Compaction Control	GDR7	-	Requirements for "Sand" as per GDR7 Compaction control at this site may be done using a Perth sand penetrometer (PSP). The target blow counts for "Bassendean Sand" are applicable as per GDR7.4 Perth Sand Penetrometer.
Approved Fill	GDR8	Permeable Sand or General Sand	Approved fill at this site is to comprise Permeable Sand (where stormwater disposal is required) or General Sand (where stormwater disposal is not required) as per GDR8 Approved Fill and Conformance Testing. The insitu sand is suitable for reuse as General Sand and is likely to have an unsaturated hydraulic conductivity of approximately 3 m/day when compacted. Further permeability testing of recompacted insitu sand is required to derive a design hydraulic conductivity value.
Excavations, batters and slopes	GDR12	1V:2H (temporary) 1V:3H (permanent)	Excavations in sand should be readily achievable to 2 m with 15 ton excavator or similar. The batter angles given are for slopes up to 2 m high and above groundwater. Refer to GDR12 Excavations, Batters and Slopes for more information. Dewatering will be required for excavations in lower lying areas of shallow groundwater.
Unsaturated Hydraulic Conductivity	GDR13	kunsat = 3 m/day for isolated soakwells, and kunsat = 5	k_{unsat} values apply where disposing into natural grey sand, minimum 0.5 m above the groundwater table, coffee rock layers (or overlying perched water) or black / brown sand layers near the groundwater table as per GDR13.4.

		m/day for interconnected soakwells.	
Pavement Subgrades	GDR16	CBR = 10%	For subgrades of granular pavements comprising compacted approved fill / insitu sand.
Acid Sulphate Soils	**-**		Management of acid sulphate soils is likely to be required during construction.

The soil field testing results are summarized in table 3 below.

Table 4 Summary of Field-testing results

Field pHf range	Field pHfox range	pH change	Laboratory pH range	Maximum Net Acidity
4.7 – 8.5	2.6 – 6.5	1.0 – 5.8	4.0 – 9.5	<0.02 – 0.14

2.4 Ground Water

As outlined in the Local Water Management Strategy prepared by Oversby Consulting, the following groundwater management measures are recommended for the Hatch Court Light Industrial Area:

- Surface water inflows to groundwater are to be treated via bioretention gardens and the proposed living stream / wetland network.
- Where required, development areas are to be raised using clean engineered fill to maintain adequate vertical separation from groundwater levels.
- Subsoil drainage systems are to be installed in areas where groundwater is less than 1.5 m below finished surface levels to manage seasonal groundwater rise.
- Connection to reticulated sewerage will remove potential wastewater pollutants from developed lots for off-site treatment.
- The removal of existing stock access and extensive garden areas is expected to reduce nutrient loading to the groundwater system.

Review of the Perth Groundwater Atlas (DWER) indicates that regional groundwater flow is generally in a north-westerly direction, with interpreted maximum groundwater levels reducing across the site from approximately RL 19.9 mAHD to RL 17.2 mAHD.

In addition, a 12-month groundwater monitoring program undertaken as part of the broader District Water Management Strategy investigations (ENV, 2009) included bores MW1 to MW4 located within the subject land, together with DoW Bore 4849 to the east. Based on the monitoring results, the Average Annual Maximum Groundwater Level (AAMGL) was established, with results summarised in Table 4. The broader groundwater assessment identified a general northerly groundwater flow direction.

Table 5 DWMS groundwater level results

Bore	Maximum Recorded Groundwater Level (mAHD)	Depth to maximum Recorded Groundwater Level (m)	AAMGL (mAHD)	Depth to AAMGL (m)
MW1	22.273	1.02	22.136	1.157
MW2	21.484	0.248	21.32	0.412
MW3	21.451	1.555	21.314	1.692
MW4	21.173	0.695	21.016	0.852
DoW 4849	14.937	-	14.72	-

Given the above-average rainfall experienced during 2025, groundwater levels recorded during the recent investigation period are considered likely to be representative of near-maximum seasonal conditions. Groundwater discharge was also observed into the drainage line traversing the site, which assists in limiting further groundwater rise during peak periods.

Groundwater depths are generally shallowest in proximity to the existing wetlands and drainage corridor, while depths increase to greater than 2.0 m within the elevated sand dune areas. Localised zones were also identified where groundwater was within 1.0 m of the natural surface during August / September 2025. Groundwater was additionally encountered within excavated areas on the subject land and within the adjoining POS basin. Discussions with nearby landowners indicate that groundwater levels within the southern open waterbody may fluctuate by approximately 1.0 to 1.5 m annually.

Based on observed pond water levels and available geotechnical investigation data, a refined groundwater contour assessment has been developed. This indicates groundwater levels generally fall in a north to north-westerly direction, from approximately RL 23 mAHD to RL 19 mAHD across the locality. Some minor localised groundwater mounding is also evident in areas where less permeable subsurface soils restrict vertical infiltration. These local influences are expected to diminish as seasonal groundwater levels recede below the invert level of the drainage line, allowing perched or mounded groundwater to dissipate into surrounding more permeable areas.

Groundwater quality

Groundwater sampling was undertaken as part of the geotechnical investigation program to assess baseline groundwater quality conditions across the site.

Laboratory results indicated groundwater pH values ranging from 6.18 to 7.16, which is considered slightly acidic to neutral. Mildly elevated inherent acidity was identified, together with high to very high alkalinity concentrations, suggesting the groundwater possesses adequate natural buffering capacity to maintain an acceptable pH balance in the event of Acid Sulfate Soil (ASS) disturbance or oxidation.

Elevated concentrations of aluminium and iron were also recorded, which may indicate that some degree of historical ASS oxidation has previously occurred within the site or surrounding locality. Notwithstanding this, the detected metal concentrations are generally consistent with groundwater conditions commonly observed throughout the eastern Swan Coastal Plain.

Chloride concentrations were found to exceed the applicable non-potable groundwater use guideline within monitoring bore MW01, where a concentration of 330 mg/L was recorded. This elevated chloride level may reflect local hydrogeological influences, historical land use activities, or natural saline trends within the regional groundwater system.

Overall, the groundwater quality results indicate conditions typical of the surrounding area, with no unusual anomalies identified beyond those commonly associated with seasonal groundwater fluctuations and local soil chemistry.

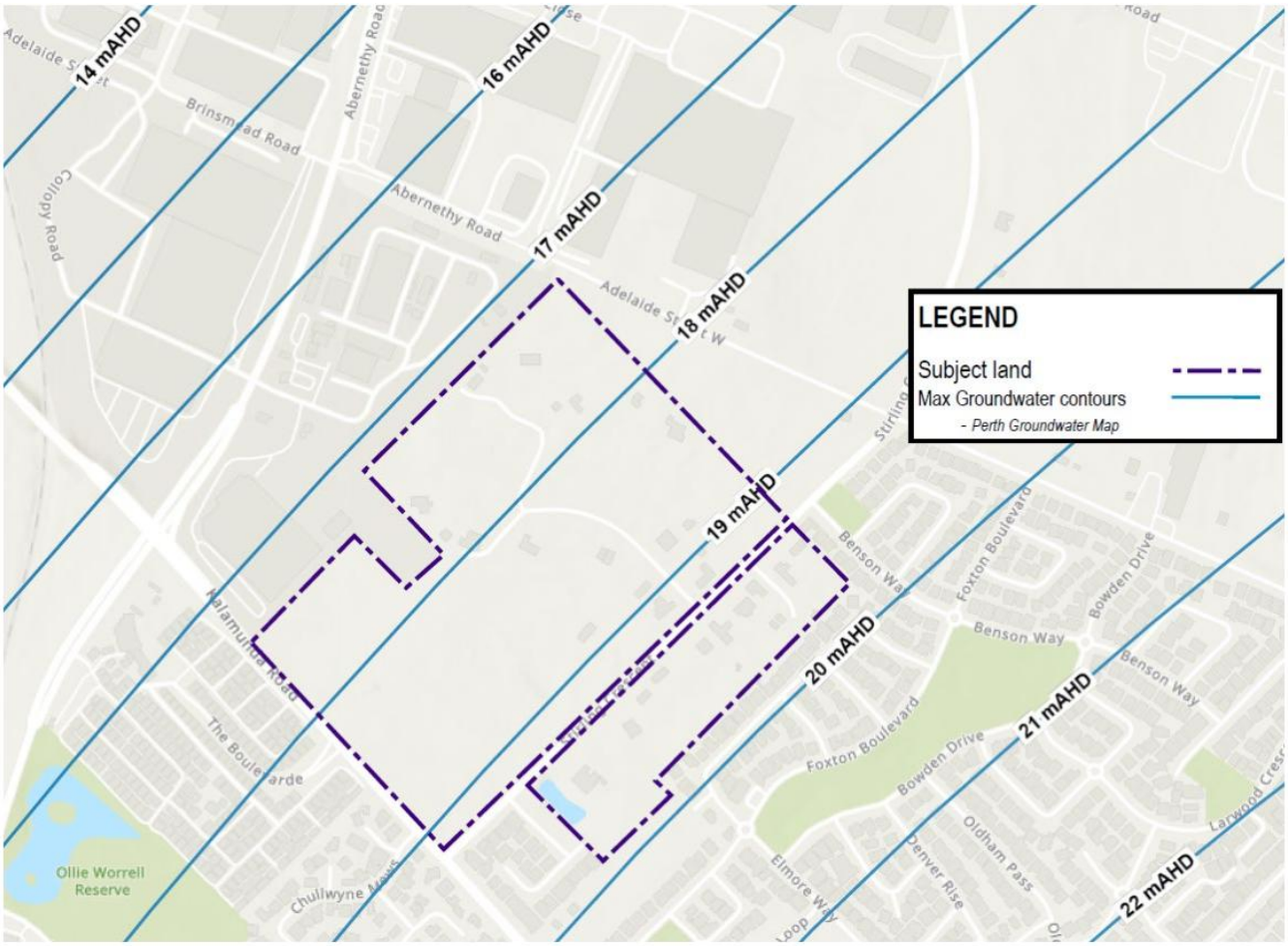


Figure 8 Predevelopment Groundwater Conditions (Perth Groundwater Map -2019)

2.5 Acid Sulphate Soils

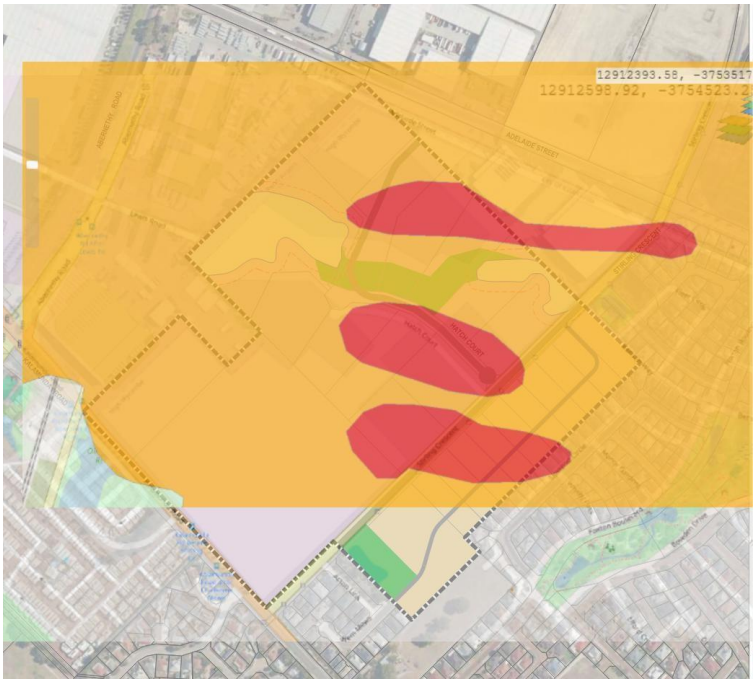


Figure 9 DWER Acid Sulfate Soils

Based on the information from DWER groundwater database shown in below there is High to moderate and moderate to low risk Acid Sulfate Soils (ASS) in the subject site, therefore additional testing is recommended to be undertaken.

To avoid construction delays or compliance issues, early-stage acid sulfate soil testing is recommended prior to any dewatering, excavation, or detailed design finalization.

2.6 Bushfire

The current online bushfire mapping listed on the Department of Fire & Emergency Services (DFES) website demonstrates that the subject site is within a Bushfire Prone Area, as shown in **Figure 10** below. Additional planning and building requirements may apply to the proposed subdivisional development in accordance with Schedule 2 Part 10A of the Planning and Development (Local Planning Schemes) Regulations 2015, State Planning Policy 3.7, WA Guidelines for planning in Bushfire Prone Areas, and the Building Code of Australia.



Figure 10 DFES Bushfire Prone Map 2024

2.7 Environmental and Contamination

A contaminated land search on the DWER website indicates the site is not within known contaminated sites. No further actions from an environmental contamination perspective are required for the proposed development site.

2.8 Flood

Based on advice provided by the Department of Water and Environmental Regulation (DWER), the subject site at Hatch Court is not located within a mapped floodplain and is not subject to riverine or regional flood risk. DWER has confirmed that the area is not affected by major flooding associated with surrounding catchments and waterways.

Accordingly, no floodplain management measures or development restrictions associated with 1% Annual Exceedance Probability (AEP) flooding are applicable to the site. The proposed development can therefore proceed without the need for floodplain-specific mitigation measures, subject to compliance with standard stormwater management requirements and detailed drainage design to address local runoff and minor storm events.

This assessment relates to major flooding only and does not preclude the need for appropriate stormwater drainage infrastructure to manage local rainfall events in accordance with relevant authority standards.

The following advice was provided by DWER:

''We have no information on flooding or flood levels at this location. The Lots are located more than 2.6 km away from our nearest mapped watercourse, the Helena River. The proposed development is outside of the Helena River floodplain.

Please read the Better Urban Water Management guidelines with regards to stormwater design.

Better urban water management

You can also contact our Swan Avon Region for other planning advice on water and environmental matters.

Swanavon.landuse@dwer.wa.gov.au

It should be noted that this advice is related to major flooding only and other planning issues such as environmental and ecological considerations may also need to be addressed.''

3. SITE GRADING & BULK EARTHWORK

Site grading and remodelling will be kept to minimum limits wherever possible but will be required to form roadworks, building pads for future development, and associated works within the following parameters:

- Creation of the building pads for the proposed development.
- Contouring of land to suit servicing requirements for development, sewerage and stormwater drainage requirements.
- Clearing of trees and vegetation.
- Possible 1% AEP flood protection requirements based on final proposed development layout.

Site grading will generally be determined by the proposed building pads, servicing requirements and environmental and geotechnical constraints of the site to ensure a sustainable as well as economic development.

Peritas anticipate that the bulk earthwork operations will be partly completed using material available from the area. If importation of sand is required, it will be sourced from existing sand mining operations within the locality.

Preparatory works prior to earth working should be limited to the following:

- Removal of existing trees and vegetation
- Demolition and disposal of existing building
- Removal of fencing and other improvements as necessary.
- Stripping and grubbing of areas to be earth worked to the depth 700mm below existing ground level.
- Strip and disposal of topsoil.
- Cut to fill operations and imported fill to selected areas to suit design layout.
- Stabilisation of any areas to be landscaped or where topsoil has not been respread on verges and embankments.
- Site levels shall be set in accordance with the following parameters:
- Geotechnical and soil parameters to ensure that the site is capable of development.
- Fill levels to provide clearance to groundwater (AAMGL and as prescribed by authority approvals). Not likely to be an issue for this site however further investigations are required.
- Finished building pad levels are to be 0.5m above 1% AEP flood levels.
- If required, finished transformer site pad levels are to be set at least 1.0m above 100-year flood event.

Upon completion of bulk earthworks, any disturbed areas shall be stabilised either by respreading the stockpiled topsoil from the bulk earthwork operations or via hydro mulching stabilisation as appropriate or in accordance with the requirements of the local authority.

Estimated cut-and-fill quantities should be calculated during detailed design to optimize earthworks balance and minimize import/export costs. Additionally, site grading must be designed to ensure all finished building pads meet or exceed the minimum 0.5 m clearance above the 1% AEP flood level.

4. LAND STABILISATION AND DUST SUPPRESSION

Prior to construction taking place, a construction water supply will be established to provide water for dust suppression, temporary sand stabilisation and irrigation during the construction phases. Water trucks and spray equipment will be on site throughout the construction programme to damp down exposed sand surfaces until the surface is physically stabilised. In the event that adjacent occupied homes or trafficked roads are affected by sand drift, a sand-trapping fence will be constructed fronting the affected section of the development.

All dust suppression activities should comply with the City of Kalamunda's dust control regulations. Daily monitoring of dust emissions should be implemented during earthworks to ensure adherence to local environmental health requirements.

In the event of strong winds blowing towards adjacent properties that cause blown sand to reach those properties, earthworks, including the stripping or respreading of topsoil, will be temporarily suspended and dust suppression measures immediately implemented.

Stabilisation of the soil surface will be carried out, as required, immediately following topsoil re-spreading and minor regrading. Soil stabilisation will be maintained until such time as the building construction commences.

5. ROAD NETWORK & TRAFFIC CONSIDERATIONS

5.1 Vehicular and Pedestrian Access

The subject site is accessed via Hatch Court, which connects to the wider local and regional road network through Stirling Crescent. The existing Hatch Court road is a 6.0 m sealed carriageway constructed within an 18 m road reserve.

The site is located in close proximity to key regional transport corridors, including the Great Eastern Highway Bypass, Roe Highway, Kalamunda Road and Abernethy Road, which together provide strategic connectivity to the broader metropolitan and industrial road network.

The construction of a proposed 20 m road reserve linking Hatch Court to Adelaide Street will provide a direct connection between the Hatch Court Light Industrial Area (HCLIA) and the regional road network. This new link will enable industrial Restricted Access Vehicle (RAV) movements from Hatch Court to Abernethy Road via Adelaide Street. To support this function, the existing bitumen seal along Hatch Court will require widening to approximately 9.0 m and may require pavement upgrades to accommodate increased traffic volumes and heavier industrial vehicle loading.

The State Government, through Main Roads Western Australia, is proposing major road infrastructure upgrades that will significantly enhance industrial vehicle access to the HCLIA. These works include the Great Eastern Highway Bypass Interchange Project, which will upgrade the interchanges at Roe Highway and Abernethy Road, as well as the extension of Adelaide Street through to Abernethy Road.

In addition, the City of Swan proposes to construct a new roundabout at the intersection of Stirling Crescent and Adelaide Street, with the intent of directing industrial vehicle movements from the

Hazelmere Industrial Area to Abernethy Road via Adelaide Street. This will reduce reliance on Kalamunda Road for industrial traffic accessed via Stirling Crescent.

Collectively, the proposed transport infrastructure upgrades are expected to significantly improve industrial access, efficiency and safety for the subject site and the broader HCLIA.

The existing road network is shown in **Figure 11** below.



Figure 11 Existing Local Road Network

A formal Traffic Impact Assessment (TIA) has been prepared to support the Local Structure Plan which details the relevant road network upgrade needs and confirm access arrangements.

5.2 STORMWATER DRAINAGE

An existing double side-entry stormwater pit is located along Hatch Court and is connected via a 300 mm diameter pipe to the existing drainage easement within the subject site. The majority of stormwater runoff from Hatch Court is conveyed to this side-entry pit. However, runoff generated from the cul-de-sac head currently flows back onto adjoining private property.

No additional stormwater drainage infrastructure has been identified within Hatch Court.

Stormwater Management Approach

Preliminary hydrologic and hydraulic modelling was undertaken by Brendan Oversby to inform the LSP planning and ensure post-development compliance with drainage and floodplain requirements set by DWER.

Key elements include:

- Surface water is managed through vegetated swales, park avenues, and living streams.
- Detention storage will be utilized throughout the site to ensure post-development peak discharges are reduced or maintained relative to pre-development.
- All modelling and strategy development to align with:
    - Stormwater Management Manual for Western Australia (DWER)
    - Decision Process for Stormwater Management in WA (DWER, 2017)
    - Peak discharge and storage targets based on DWER floodplain benchmarks.

Design of drainage swales and open channels within or adjacent to road reserves must comply with DWER & Council guidelines to ensure both hydraulic performance and vehicle safety. The key safety considerations relate to swale depth, batter slopes, and the risk of vehicle rollover or occupant drowning in the event of an accident.

Considerations include:

- Water depth not to exceed 0.6 m, or
- Side slopes are steeper than 1:4, or
- Both criteria are combined and present rollover or submersion risk

5.3 SUBSOIL DRAINAGE

Based on predevelopment groundwater levels, Peritas recommends the installation of subsoil drainage to manage potential groundwater rise associated with post-development lot fill.

Subsoil drains are proposed beneath the road reserves, designed with a minimum longitudinal grade of 1:500 to ensure gravity flow and effective groundwater control. To maintain system performance and constructability, road levels must be designed with at least 1.2 meters of clearance above the invert level of the subsoil drainage pipes.

Subsoil discharge will connect into the main drainage conduits within the adjacent swales, which ultimately outfall to the nearest waterway.

Final pipe sizing and configuration for the slotted subsoil drains will be confirmed during detailed design, in consultation with the hydraulic consultant, and will be based on site-specific groundwater conditions and expected seasonal flows.

5.4 WASTEWATER DISPOSAL

Development to date within the Hatch Court Local Infrastructure Area has proceeded with onsite effluent disposal, as the site is not currently connected to a reticulated sewer network, with the nearest existing sewer infrastructure located a significant distance from the site. Existing Water Corporation sewer reticulation in the subject site vicinity can be found in **Figure 12.**

Existing Infrastructure and Proposed Extensions

The nearest sewer infrastructure is a DN150/225 reticulation sewers near the intersection of Acton Link & Stirling Crescent, Wim Mews and is also available at Benson Way / Stirling Crescent, however this infrastructure is too high to serve the subject site by gravity.

Ultimately the subject land is part of a sewer catchment that gravitates to the regional wastewater pump station located near the corner of Abernethy Road and Worrell Avenue.

A DN225 gravity main is planned along Abernethy Road heading north to Lewis Road and then eastwards into the subject site.

The internal gravity network within the LSP/Subject area is expected to include reticulation mains of DN225, depending on location and topography. These mains will be sized to accommodate flows from future development areas including the residential zone south of Stirling Crescent.

The delivery of the external sewer extension to the site will be expensive and may only be developed based on development demand downstream or by owners within the LSP catchment contributing to the sewer extensions to the area (Unlikely that this cooperation will occur).

A pump station and rising main were also considered as an alternative to the gravity extension, however, this option was found to be cost prohibitive when compared to the gravity sewer extension, factoring in both capital costs and the ongoing operational and maintenance costs associated with pump station infrastructure. As such, extension of the gravity network remains the preferred approach, subject to development demand and/or catchment owner contribution as noted above.

Interim Infrastructure Considerations

There may be an opportunity to service a portion of the residential portion of the site but Water Corporation has previously advised that this is outside of the approved catchment to the south and would not be considered at this time. More formal approaches to Water Corporation will be required in the future to secure the appropriate approvals which we believe are technically possible.

In order to service the residential portion of the LSP area a significant position of the proposed residential area will require fill to prove the necessary cover to an extend sewerage network discharging to the north east (Benson Way) and south west (Stirling Crescent / Acton Link). A more detailed assessment together with relevant planning layout changes to accommodate lot orientation to suit the sewers routes will be required. Lots will not be able to front onto Stirling Crescent as they would need to be elevated above the road by up to 1-1.5m.

This could be accommodated with a conforming fencing arrangement as provided in other major residential estates. Appropriate design of the wall and potentially landscaping would reduce the impact of the structure required along the Striling Crescent interface that would have the rear of the lots along that boundary.

The industrial/commercial portion of the site will most likely be developed as a dry industry and wastewater treated on site utilizing proprietary ATU technology and associated soakage field disposal.

Delivery Strategy and Developer Requirements

Subject to development staging and regional demand will be dependent on:

- Negotiation with adjacent landowners
- Creation of sewer easements where required
- Development approvals over third-party land

Ongoing engagement with Water Corporation will be essential to confirm:

- Preferred alignment
- Servicing timeframes
- Staging of infrastructure delivery

Early liaison is strongly encouraged at the structure planning or preliminary subdivision design stage to ensure servicing requirements and land access arrangements are well understood.

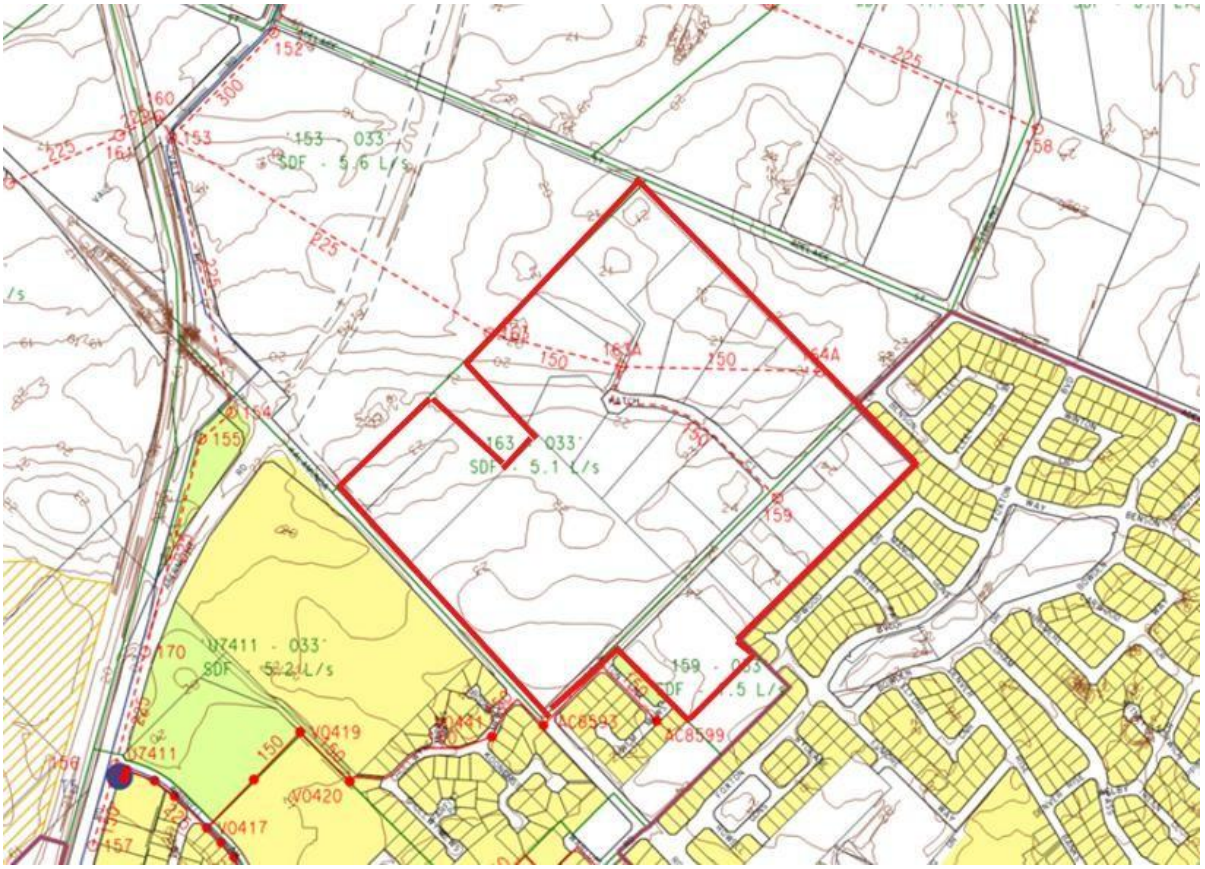


Figure 12 – Existing Water Corporation Wastewater Planning

5.5 POTABLE WATER SUPPLY

The following advice was provided at a meeting with Water Corporation in regard to potable water reticulation:

Whilst the current area is serviced by reticulated water supply, the mains are sized for the current zoning which is predominately rural and therefore would require upgrading.

When the area is developed, upgrading of water mains will be required to provide the required capacity to the developed lots (both residential and industrial).

Please note the extract below from the current ESINET planning (Refer **Figure 13** below). The mains will be required to be constructed as part of the subdivision process of this or other proposed developments in the surrounding area.

The plans confirm the presence of existing Water Corporation reticulation and distribution mains throughout the Hatch Court light industrial precinct and surrounding road network.

The existing water supply infrastructure servicing the Hatch Court and Stirling Crescent area is not expected to present any significant constraints to the proposed upgrade works within Hatch Court. A 100 mm cast iron (100CI) water main currently runs along the Hatch Court alignment, providing reticulation to the existing lots, with individual property service connections evident from aerial imagery. The presence of this asset will need to be considered during detailed design and construction planning to avoid service disruptions; however, its location is known and can be managed through standard construction practices and utility protection measures.

While the existing network configuration suggests that there is capacity available to accommodate further industrial development, the extent of any spare capacity cannot be quantified based solely on asset size and location. Confirmation of the available capacity, and the ultimate servicing requirements of the proposed industrial development, would require consultation with Water Corporation and/or a hydraulic network assessment to verify that the existing system can support the anticipated development demand.

Along the Stirling Crescent corridor, a 100mm cast iron (100CI) reticulation main is present, consistent with the distribution network serving the established residential and light industrial lots fronting this road. Larger transmission and distribution mains in the vicinity include a 250mm P-12 main and a 100mm P-12 main running generally northwest–southeast along the Stirling Crescent and Fleet Crescent alignments, serving the broader precinct.

In the broader area around Kalamunda Road, significant Water Corporation infrastructure is present including a 225mm cast iron (255CI) main, a 150mm P-12 main, and a 100mm steel (100S) main running within or adjacent to the road reserve. These represent part of the trunk distribution network for the area.

Also notable within the wider study area is a 250mm P-12 main along the Adelaide Street / Hatch Court interface, and an 180mm MDPE main in the northern portion of the precinct.

All main water extensions for the subject area must be laid within the existing and proposed road reserves, on the correct alignment and in accordance with the Utility Providers' Code of Practice.

Existing water mains are located within the subject area. (Please note plan of existing assets attached) water mains should not be located in private land and should be in and protected by reserves (i.e. road reserves).

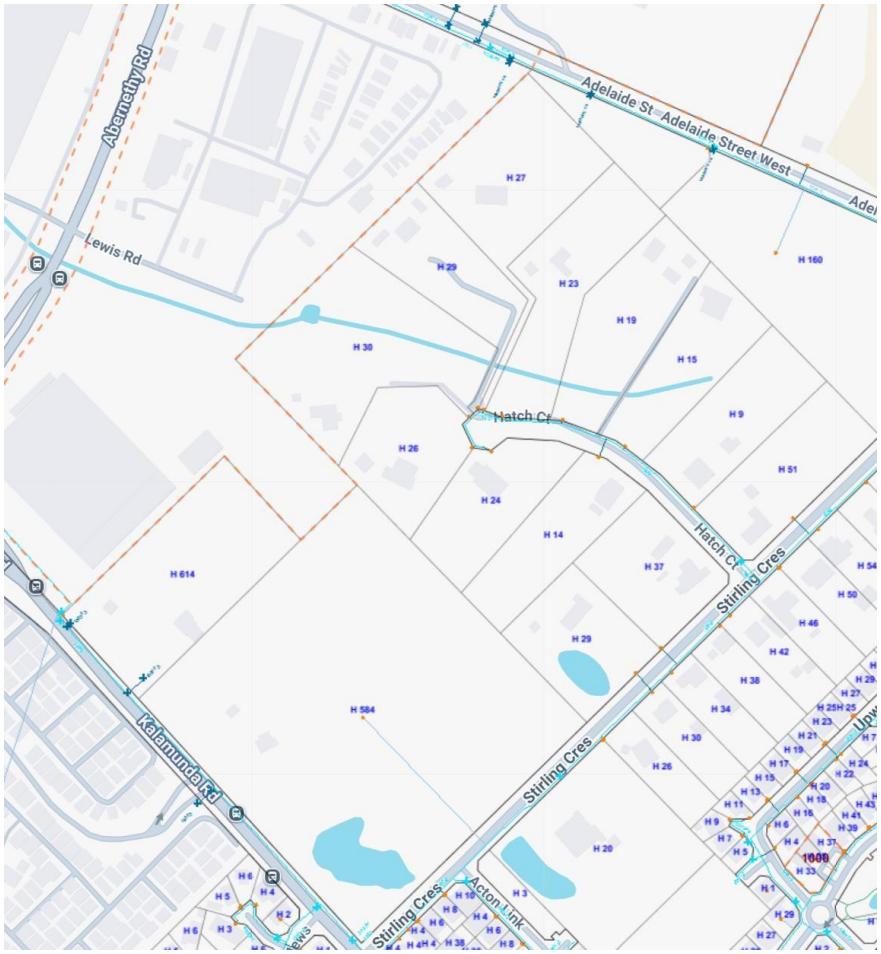


Figure 13 – ESINET Water

5.6 POWER, TELECOMMUNICATION & GAS

5.6.1 Western Power

A Western Power overhead and underground asset search was undertaken for the subject area. The plans identify existing overhead powerlines within and adjacent to the Hatch Court precinct, including High Voltage distribution lines (1 kV – 33 kV) running along Stirling Crescent, and a Transmission line (33 kV – 330 kV) traversing the broader area in a northwest–southeast alignment. Low Voltage overhead lines (< 1 kV) are also present servicing existing lots.

The underground HV/LV plan confirms the presence of underground High Voltage cables (1 kV – 33 kV), Low Voltage cables (< 1 kV), street light circuits, and associated pillars and terminations within the local road network, including along Stirling Crescent and adjacent streets.

A proposed Design Area is indicated near the Adelaide Street / Stirling Crescent intersection, suggesting active or planned Western Power works in this vicinity. Prior to any excavation or construction works, hand exposure via pothole method is mandatory in the vicinity of underground assets.

It is anticipated that all lots within the proposed development will be served with underground power. The cost of this work will need to be met in full by the developer. Western Power requirements will apply.

It is likely that a number of pad mount sites will be required throughout the development, however, due to the range of sizes of lots proposed within the development, it is not envisaged that there will be a problem in providing the sites strategically located to meet both Western Power design requirements and the requirements of the developer.

The street lighting throughout the development shall provide effective illumination for both pedestrian and vehicles.

5.6.2 Telecommunication Services

At Hatch Court, the plans confirm in-service/constructed NBN™ conduit running along the Hatch Court Road reserve, with multiple pit structures present at lot frontages providing individual property connections. The conduit appears to service the existing lots within the court, with pits distributed at regular intervals along the alignment.

Along Stirling Crescent, NBN™ conduit infrastructure is present with pits and direct-buried cables distributed along the road reserve. Multiple conduit runs are visible, consistent with both the existing Telstra-owned (PO) PVC conduit and NBN-owned (P40) 40mm PVC conduit running in the same corridor. Pit spacings are generally 20–25 m apart. A pillar (orange symbol) is also shown near the Stirling Crescent / Winton Crescent intersection, indicating a network aggregation point for the surrounding residential area.

Along the Kalamunda Road corridor, the plans show NBN™ conduit and pit infrastructure running generally parallel to the road reserve, with conduit connections branching to service the surrounding lots. This is consistent with the established network serving the residential and light industrial subdivision in the area.

Information from Telstra indicates there is a service network within the area. It is anticipated that all lots within the proposed development will be served with Telstra Telecommunication services.

Telstra will design (developer to pay) and provide details for the installation of a pit and pipe network at the cost of the developer the new telecommunication network facilities to the proposed lots. Alternatively, where cable routes match power underground supply routes, Telstra will wherever possible use the Western Power trenches in lieu of the developer providing additional trenching.

Telstra or other communications providers will cable the development once development has commenced in the area and applications are made by the land owners for communications services to their development. Headwork charges for Telstra services extensions are anticipated.

5.6.3 Gas Supply

At Hatch Court, a 50mm PVC distribution main (MAOP 70 kPa, natural gas) is present, with individual service connections to existing lots.

Along Stirling Crescent, multiple gas assets are present in close proximity, including a 155mm PVC distribution main (MAOP 70 kPa, NG) and a CRITICAL high-pressure 150mm steel transmission pipeline (MAOP 1,900 kPa, NG). The critical asset is noted to be approximately 0.9 m deep at a deviation point, and 1.5 m deep either side of the deviation. A 155mm PVC main (MAOP 70 kPa) is also present. Individual service connections serve adjoining lots along this alignment.

Along Kalamunda Road, a 160mm PE distribution main (MAOP 70 kPa, NG) is present, along with a CRITICAL 160mm PE pipeline (MAOP 700 kPa, NG) and a CRITICAL 150mm steel pipeline (MAOP 1,900 kPa, NG).

A Critical Asset Warning applies to this area. No works within 15 metres of the critical assets are permitted without prior written approval from ATCO Gas Australia. Hand exposure via pothole method is mandatory prior to any excavation in the vicinity of these assets. The project team must contact ATCO Gas Australia directly before commencing any works.

ATCO Gas has advised that reticulated gas services are available in the surrounding area.

ATCO Gas may provide road crossing conduits for future use; however, this is subject to cost allocations and budgets being approved by the gas authorities.

Please refer to the attached plans in **Appendix C** for further information regarding gas assets.

6. CONCLUSIONS & RECOMMENDATIONS

All essential infrastructure services—water, drainage, power, and gas—can feasibly be extended to service the site. However, given the site's position at the edge of the current servicing envelope, careful coordination and early planning will be required, particularly where upgrades or infrastructure extensions are necessary.

Peritas does not identify any immediate critical barriers to development. However, we recommend ongoing liaison with the relevant authorities to address infrastructure delivery, land access, and network capacity issues early in the planning process. This is especially important for a stand-alone development, where cost apportionment and timing of broader infrastructure upgrades may pose constraints if not addressed proactively.

Further Investigations and Key Next Steps

The recommendations listed below are intended to identify the additional work streams that may be required to facilitate the orderly progression of the Local Structure Plan (LSP) through the statutory planning process and subsequent subdivision and development stages. They are not necessarily all prerequisites to Council's consideration of whether the LSP should be advertised.

At this stage, the servicing report has been prepared to provide a high-level assessment of the site's servicing opportunities and constraints to inform the LSP. The recommendations identify matters that may require further investigation or confirmation as the planning and development process advances.

1. Liaise further with Water Corporation regarding water and sewer connection strategies, including potential temporary solutions based on staging and coordination with neighbouring developments.
2. Consult Western Power to identify suitable connection points and determine the need for Earth Potential Rise (EPR) or Low Frequency Induction (LFI) assessments.
3. Coordinate with the Western Power transmission team to confirm easement requirements under high-voltage lines.

Since preparation of the servicing report, preliminary consultation has been undertaken with relevant servicing authorities to identify the presence of existing infrastructure and any obvious constraints affecting the site. The outcomes of these investigations have informed the conclusions of the report, namely that the site is capable of being serviced; however, further detailed assessment and confirmation by the respective authorities will be required as the proposal progresses through later planning and development stages.

Accordingly, the recommendations should be viewed as a roadmap for the next phase of investigations rather than as outstanding matters that prevent Council from considering the LSP for advertising. Any requirements identified through agency referrals during the advertising process can be addressed prior to final adoption of the LSP or as conditions of subsequent subdivision approvals, as appropriate.

Priority Recommendations:

Post-LSP Progression
Finalize servicing alignments.
Acid sulfate soil (ASS) testing & Management Plan as part of subdivision development.
Asset relocation and protection coordination.

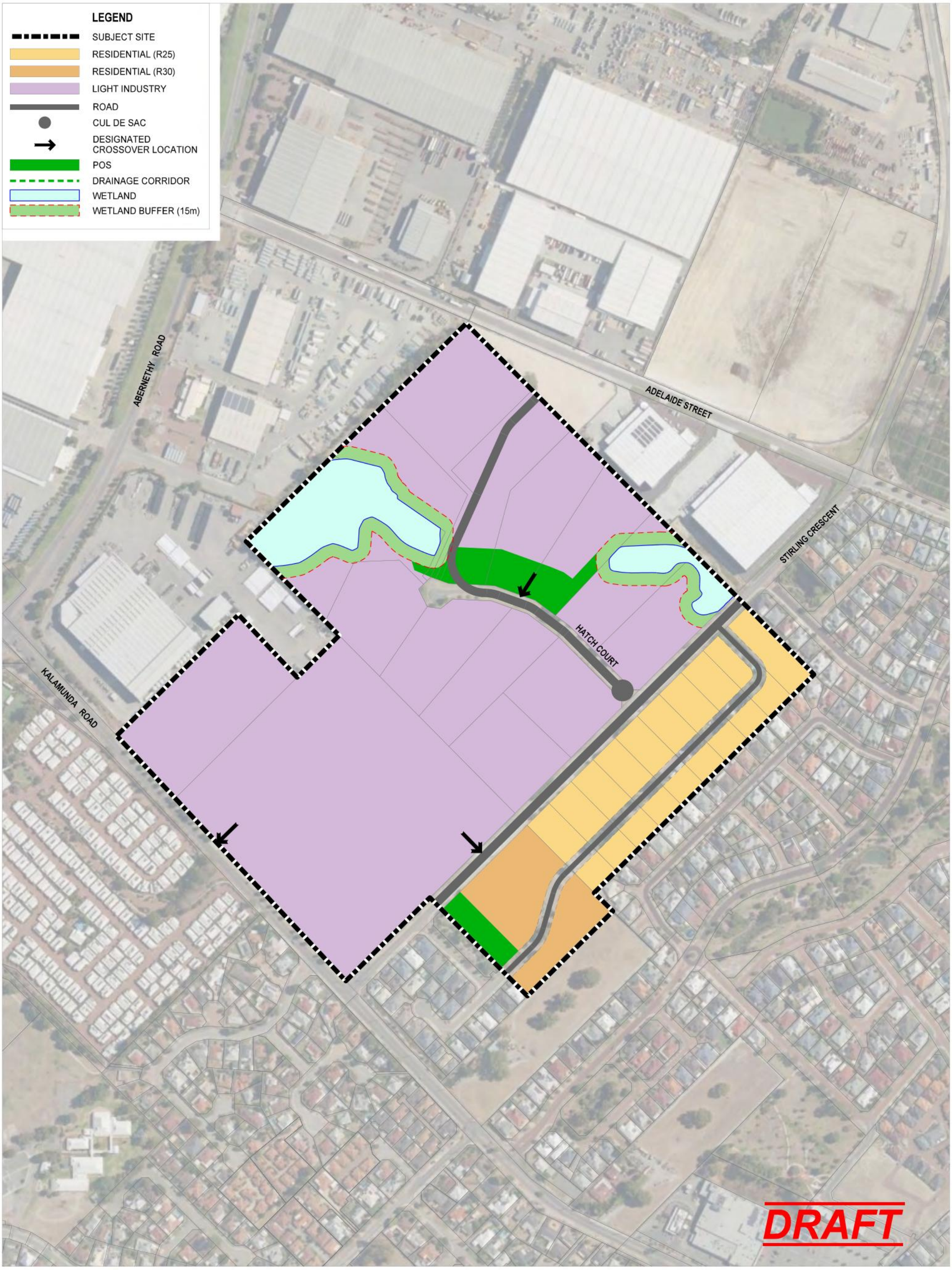
Early and proactive engagement with major service authorities is recommended to confirm detailed requirements for:

- Confirm servicing capacities and connection strategies
- Clarify potential infrastructure upgrades

- Enable coordinated forward works planning and budgeting

In summary, the subject site presents a viable and serviceable urban development opportunity. With further detailed investigation and ongoing stakeholder collaboration, the site can be delivered as a high-quality, fully serviced development precinct.

APPENDIX A– LOCAL STRUCTURE PLAN & LAYOUT



0 50 100 150 200
metres

COPYRIGHT RESERVED BASE PLAN COURTESY OF LANDGATE

LOCAL STRUCTURE PLAN

CITY OF KALAMUNDA

VARIOUS LOTS - STIRLING CRESCENT / HATCH COURT

SCALE: 1:4,000 @ A3

DATE: 18 June 2026

FILE: 2490-2-001J

DRAW: - BL

CHECKED: -

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APPENDIX B – GEOTECHNICAL REPORT

Galt GEOTECHNICS

Report on:

GEOTECHNICAL STUDY
PROPOSED ROAD FROM HATCH COURT TO ADELAIDE STREET
LOT 13 HATCH COURT, HIGH WYCOMBE

WAG240007-01 003 R Rev2

Submitted to:

McDowall Affleck
69 Great Northern Highway
Midland WA 6056

19 March 2024

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Figure 1: Site and Location Plan

Appendix A: Supplied Drawing
Appendix B: Site Photographs
Appendix C: Borehole and Pavement Dipping Reports
Appendix D: Geotechnical Laboratory Test Results
Appendix E: Chemical Laboratory Test Results

Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

1. INTRODUCTION

This report presents the outcomes of Galt Geotechnics' (Galt's) geotechnical study for the proposed road between Hatch Court and Adelaide Street, High Wycombe ("the site").

This report is to be read in conjunction with the appended "Geotechnical Definitions, Recommendations, Requirements and Limitations", 'Clause GDR1', etc. at the back of this report.

2. KEY FINDINGS

The site is geotechnically suitable for the proposed road.

The majority of the site is underlain by sand. In the area of the existing creek, there is a 0.8 m thick layer of organic silty sand over the sand.

In the northern part, there is a layer of iron indurated sand (coffee rock) at a depth of about 2 m.

The southern half of the site lies within a registered "sumpland" area. Seasonal shallow groundwater and surface water is expected during winter. Shallow groundwater was encountered in the southern half of site at depths of between 0.6 to 0.8 m (we expect the groundwater will rise over winter).

The proposed drainage basin in the southeast corner of site will not be very effective for on-site disposal of stormwater due to the shallow groundwater in this area.

The northern part of site may be more suitable for the proposed drainage, provided that the base of the basin is at least 0.5 m above the groundwater.

Soakwells may be used if the surface is raised with permeable sand such that is at least 0.5 m above the design groundwater elevation (to be confirmed by a hydrologist).

3. SITE DESCRIPTION

A description of the site currently and historically is presented below in Table 1.

Table 1: Summary of Site

Item	Comment
Site Extent	Refer Figure 1
Site Area	Total site area is about 1.3 ha, with approximately 5,000 m^2 for the road reserve.
Current Site Surface Levels[1]	Around RL 20 m AHD to RL 22 m AHD
Vegetation	Mature trees present along proposed road reserve
Current Land Use	Semi-rural residential
Existing Infrastructure	Existing dwellings
Site History[2]	1953 to 1985: Bushland/pasture. 1985 to 1989: Construction of houses, sheds and driveways within and adjacent to site 1995- to present: Largely unchanged.

NOTES: ***1.*** *Site levels based on publicly available data (Landgate)*

2. *Site history based on aerial imagery (Landgate)*

4. PROPOSED DEVELOPMENT

Table 2: Summary of Proposed Development

Item	Comment
Proposed Development	Proposed road connecting Adelaide Street to Hatch Court.
Proposed Finished Level	Unknown
Cut/Fill	Minimal or as required to facilitate road and drain levels. Fill may be required to tie in proposed road with existing Hatch Court road.
Assumed Retaining Walls	Minimal or as required to facilitate road and drain levels.
Assumed Stormwater Disposal	Via drainage basin in southeastern corner of site (note shallow groundwater in this area)

NOTES: ***1.*** *Proposed development details based on supplied information presented in Appendix A.*

5. PROJECT OBJECTIVES

The objectives of the study were to:

- assess subsurface soil and groundwater conditions along the proposed road across Lot 13;
- recommend site preparation procedures including compaction criteria;
- assess the permeability of the soils at the proposed drainage basin;
- provide a subgrade California bearing ratio (CBR) value for pavement design of the new road; and
- assess the existing pavement along Hatch Court for the proposed widening.

6. FIELDWORK

Fieldwork was carried out by a representative from Galt on 22 February 2024. The work is summarised below.

Table 3: Summary of Field Data

Type	Results Appendix	Summary	GDR Clause	Equipment Used	No. Tests	Depth Range (m)
Site Plan	Figure 1	-	-	Hand held GPS[1]	-	-
Photographs	B	-	-	-	-	-
Machine Auger Boreholes (BH)	C	Section 9	GDR3.3	EVH Scout on utility	8	1.0 – 3.0
Dynamic Cone Penetrometer (DCP)	C	N/A	GDR3.4	Hand operated DCP	8	0.7 – 1.0
Infiltration Tests (I)[3]	-	-	GDR3.7	Inverse auger hole	-	-

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *DCP tests carried out adjacent to boreholes.*

3. *Infiltration testing was not carried out within the proposed drainage basin due to the presence of shallow groundwater and low permeability soils (organic silty SAND)*

7. LABORATORY TESTING

Table 4: Summary of Laboratory Testing Undertaken

Type	No. Tests	Results Summary	Results Appendix
Particle Size Distribution	6	Attached Table 1	D
Atterberg limits and linear shrinkage	2		
Organic Content[1]	1		
Emerson Class	1		
Calcium Carbonate Content	1		
Modified Maximum Dry Density	2		
California bearing ratio (CBR)	2		
Phosphorus Retention Index	2	Attached Table 2	E
pH	2		

8. SITE CONDITIONS

8.1. Geology

Table 5: Summary of Geology Mapping

Map Sheet	Map Scale	Mapped Soils	Site Findings
Perth	1:50,000	Northern portion of site underlain by a thin layer of Bassendean Sand overlying Guildford Formation Southern portion of site underlain by Swamp Deposits (Peaty Clay)	SAND (SP) overlying Coffee Rock in the northern half of site; and Organic Silty SAND (OL) overlying SAND (SP) in the southern half of site

8.2. Groundwater

Table 6: Summary of Groundwater Levels

Item	Date	Depth Range (m)	Elevation Range (m AHD)	Comment
Perth Groundwater Atlas[1]	2004	6 - 9	13 - 14	
Site observations[2]	2024	0.6 – 1.8	20 - 22	Groundwater was not encountered within the northern portion of site (BH01 and BH02) to a depth of about 2.0 m.

NOTES: ***1.*** *Perth Groundwater Atlas (2004) shows typical seasonal minimum groundwater elevations*
2. *Investigation carried out in summer 2024. We expect groundwater to rise over winter*

The southern half of the site lies within a registered “sumpland” area. Seasonal shallow groundwater and surface water is expected during winter.

8.3. Defect Survey

The pavement condition and defects noted in the vicinity of boreholes carried out along Hatch Court may be summarised as follows:

- Significant delamination of the spray seal, particularly near the cul-de-sac. Degree of delamination reduces towards the east along Hatch Court.
- Moderate crocodile cracking observed in the vicinity of the cul-de-sac.
- No significant pavement deformation noted along the road alignment.

8.4. Pavement and Subgrade Profile

The exposed pavement and subgrade profiles are summarised in Table 7.

Table 7: Summary of Pavement and Subgrade Profile

Location	BH06	BH07
Pavement Layer	**Description/Thickness (mm)**	
Wearing Surface	Spray Seal 20 mm	Spray Seal 10 mm
Basecourse	FILL: Sandy GRAVEL (GP-GM) Crushed Granite 100 mm	FILL: Sandy GRAVEL (GP-GM) Crushed Granite 70 mm
Subbase	FILL SAND (SP-SM) Crushed Limestone 150 mm	FILL SAND (SP-SM) Crushed Limestone 150 mm
Subgrade	FILL SAND (SP) to a depth of up to 1 m	

Notes:
1. The terms wearing surface, basecourse and subbase are used to describe the pavement stratigraphy and do not imply a certain material quality, strength and/or specification compliant fill material.
2. Detailed descriptions according to AS1726 (2017) are presented on the pavement dipping reports in Appendix C.

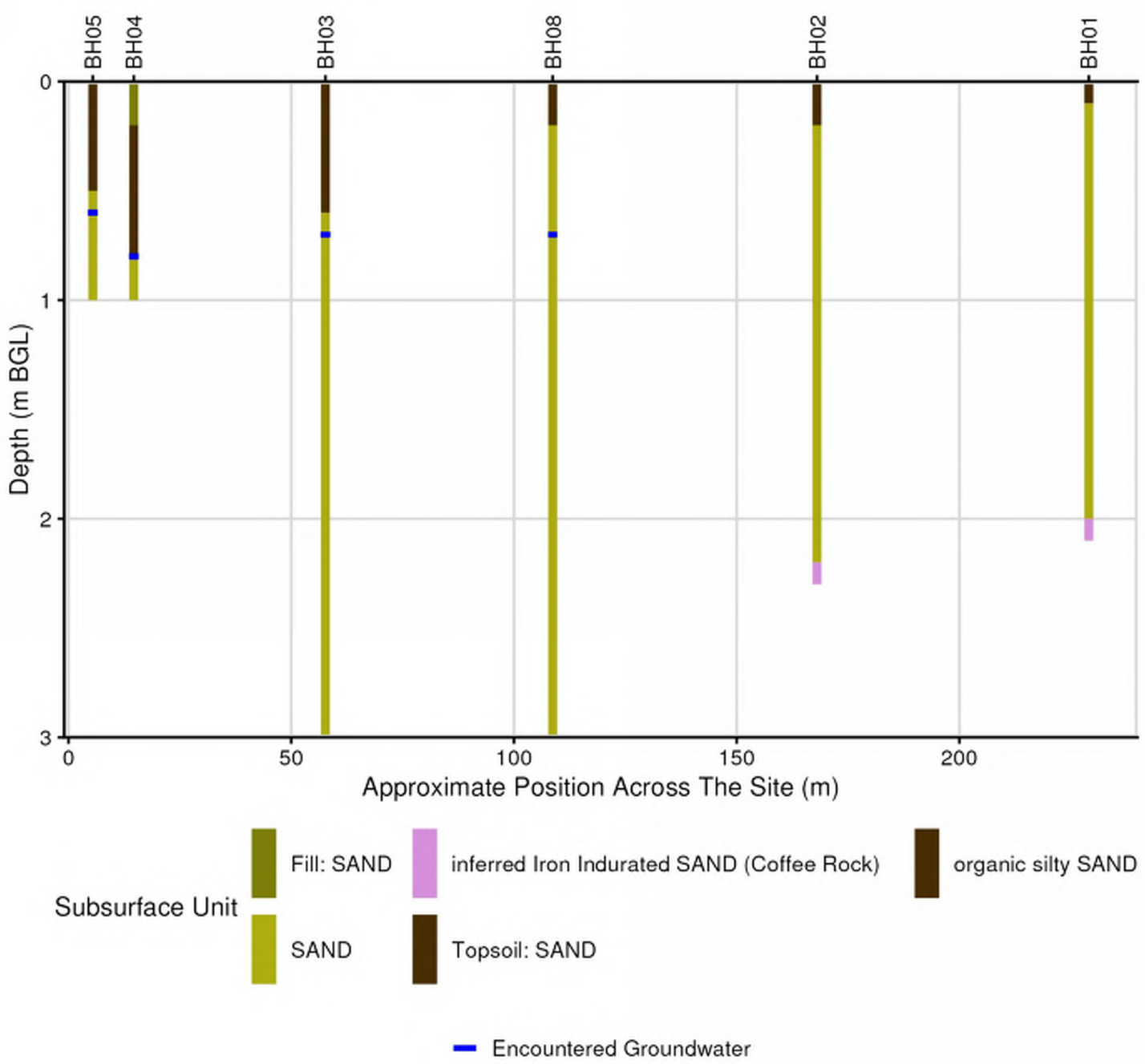
Preliminary calculations indicate that the existing road (Hatch Court) would be suitable for a lifetime traffic load of 2.5 x 10^5 ESA. This is based on a minimum pavement thickness of 220 mm and design CBR subgrade of 10%.

We can provide advice on suitable options and pavement recommendations if required. We would require design traffic loads for this.

9. GROUND MODEL

The subsurface conditions are generalised in the inline image and table below. The generalised subsurface units are described in Table 8 with geotechnical design parameters.

Inline Image 1 – Idealised cross section of soil conditions.



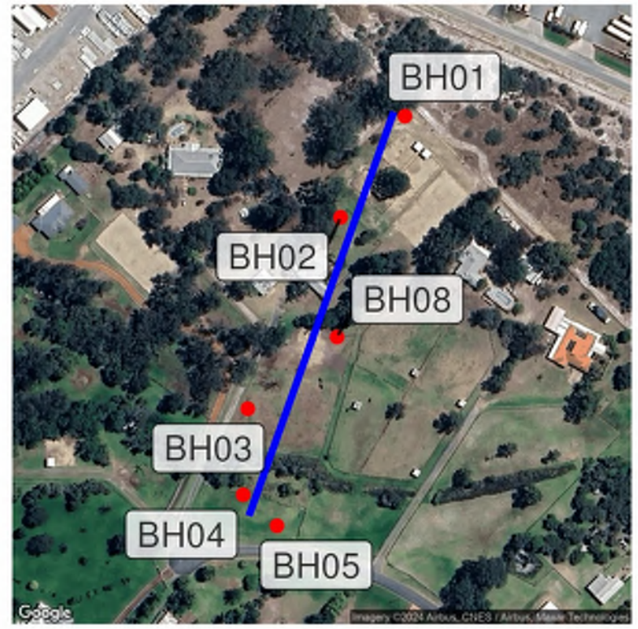


Table 8: Geotechnical Model Units and Design Parameters

Unit Name	Material Type	Where Found	Description	Comment	γ_{bulk} (kN/m^3)	ϕ' (°)	c' (kPa)	S_u (kPa)	E_v (MPa)	ν	k_0	Wall Friction=0		Wall Friction=0.5ϕ	
												k_a	k_p	k_a	k_p
A	SAND	Near surface to maximum investigated depth of 3 m (most of the site)	Fine to medium grained, sub-angular to sub-rounded, grey/white, brown, trace fines	Typically medium dense	17	34	-	-	25	0.3	0.39	0.28	3.54	0.25	6.47
B	Organic silty SAND	Southern part of site from surface to about 0.8 m	Organic silty sand, black, 10-25% non-plastic fines	Loose becoming medium dense	16	30	-	-	10	0.4	0.42	0.33	3.00	0.29	4.40

NOTES:

1. *These units are a generalization of results from individual tests, which should be referred to for more information.*
2. *Topsoil is not included as a discrete unit.*
3. *For all earth pressure coefficients (retaining wall design) refer to clause GDR11.2 for more detail and interpretation. Unit weights for retaining structure design should be as per GDR11.2 or 1 kN/m^3 greater than the values in the table above.*

γ_{bulk} – bulk unit weight
ϕ' – effective friction angle
S_u – undrained shear strength
c'– effective cohesion
E_v – vertical elastic modulus
ν – Poisson's Ratio
k_a – coefficient of active earth pressure (Coulomb – AS4678-2002, Appendix E)
k_p – coefficient of passive earth pressure (Coulomb – AS4678-2002, Appendix E)
k_0 – coefficient of at-rest earth pressure (Jaky)

10. GEOTECHNICAL ASSESSMENT

10.1. Summary

Table 9: Summary of Geotechnical Assessment

Type	Clause	Parameter	Comment
Site Suitability	-	-	We consider the site to be geotechnically suitable for the proposed road. Layer of organic silty sand to be removed and replaced with engineered fill.
Site Preparation	GDR6	-	**GDR6.2.1 Common Measures** followed by **GDR6.2.2 Sand Sites**. We note the presence of shallow groundwater and organic silty soils (locally present in the southern part of site) Refer to Section 10.2 for additional site preparation measures recommended as part of remediation.
Approved Fill	GDR8		**Approved Fill** for this site is to comprise **General Sand**. All natural and existing fill sands may be assumed to be **General Sand** except the organic silty soils (black) noted within the top 0.8 m in the southern portion of site. If additional fill is required, imported **General Sand** will be needed.
Compaction Control	GDR7	-	A PSP may be used for compaction control on site-derived **General Sand.** Deemed to comply values for 'Bassendean Sand' in GDR7.4 are applicable.
Unsaturated Hydraulic Conductivity	GDR13	N/A	Infiltration tests were not carried out within the proposed drainage basin due to presence of shallow groundwater and low permeability, organic soils. If a drainage basin is required, we recommend it is positioned in the northern portion of site (if possible). Additional testing is recommended to confirm the suitability of any new proposed locations.
Pavement Subgrade CBR	GDR16	CBR = 10%	Design CBR value is applicable where natural sand is exposed or at least 1 m of sand fill is present above organic soils.

10.2. Additional Site Preparation Measures

The site preparation measures outlined below are to be completed in the southern part of the alignment (area underlain by organic silty sand).

- Strip vegetation within the proposed road footprint area.
- Remove all organic silty soils (as encountered) to expose underlying sand (typically around 0.6 m to 0.8 m below ground surface).
- Proof roll in-situ sand.
- Backfill with approved fill as per **GDR6.2.1 Common Measures** followed by **GDR6.2.2 Sand Sites**

We note that groundwater was encountered at depths ranging from 0.6 m to 0.8 m in the southern half of site. When groundwater is present within 1 m of a compacted surface it is often difficult to achieve the required density. This can be remedied by:

- dewatering to lower the groundwater to at least 1 m below the compacted surface; or
- a coarse pioneer layer (say 0.3 m thick of 19 mm crushed igneous rock) and compacting using a heavy smooth drum roller in static mode.

11. CLOSURE

GALT GEOTECHNICS





Timothy Dunton
Engineering Geologist

Rick Piovesan CPEng
Geotechnical Engineer

https://galtgeo.sharepoint.com/sites/wag240007/shared documents/01 porter si hatch ct/03 correspondence/wag240007-01 003 r rev0.docx

Attached Table 1: Summary of Geotechnical Index Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Gravel (%)	Sand (%)	Fines (%)	Emerson Class	LL (%)	PI (%)	LS (%)	Org %	MMDD (t/m^3)	OMC (%)	CBR (%)	CBR Swell (%)	$CaCO_3$
BH01	0.1 – 0.5	SAND (SP)	0	97	3	-	-	-	-	-	1.78	12.5	25	0	-
BH02	0.2 – 0.4	SAND (SP)	1	97	2	-	-	-	-	-	1.76	12.5	19	0	-
BH03	0 – 0.5	Organic Silty SAND (SM / OL)	0	68	32	-	40	12	3.0	7.4	-	-	-	-	-
BH03	0.7 – 1.1	Silty SAND (SM)	0	85	15	5	-	-	-	-	-	-	-	-	-
BH06	0.01 – 0.1	GRAVEL (GP-GM)	66	27	7	-	NO	NP	1.5	-	-	-	-	-	-
BH06	0.1 – 0.25	SAND (SP-SM)	22	65	13	-	-	-	-	-	-	-	-	-	58.2

Notes

1. *Particle size distribution (by mass)*
   Gravel: 2.36 mm – 63 mm *Sand: 0.075 mm – 2.36 mm* *Fines: <0.075 mm*
2. *Atterberg Limits*
   LL: Liquid limit *PI: Plasticity index* *LS: Linear shrinkage*
3. *Org: Organic content (by mass)*
4. *Modified compaction*
   MMDD: Modified maximum dry density *OMC: Optimum moisture content*
5. *CBR: California bearing ratio*
   Remoulding dry density ratio: 95% MMDD *Surcharge: 4.5 kg* *Soaking: 4-day soaked*
6. *$CaCO_3$: Calcium carbonate*

Attached Table 2: Summary of Chemical Test Results

Location	Sample Depth (m)	Soil Description	Soil Condition	pH	PRI
BH01	0.1 – 0.5	SAND (SP)	B	7.1	0.74
BH03	0.7 – 1.1	SAND / Silty SAND (SP/SM)	A	5.4	7.60

NOTES: ***1.*** *Soil condition*

A – high permeability soils (sands and gravels) which are below water table. *B – Low permeability soils (silts and clays) and all soils above water table*

2. *PRI – Phosphorous Retention Index*

Figures





Legend

- Site Boundary
- Borehole
- Pavement Dipping

N

0 20 40 60 80 100

Meters

NOTES

Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:1,250	(A3)
DRAWN	CED	
DATE DRAWN	14/3/2024	
CHECKED	RP	
DATE CHECKED	17/3/2024	
PROJECTION	GDA 1994 MGA Zone 50	

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CLIENT	**MAPL**
PROJECT	PROPOSED ROAD
LOCATION	23 HATCH COURT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN

Job No	Fig No	Rev
WAG240007 -01	FIGURE 1	**A**

Appendices

Appendix A: Supplied Drawing

Proposed new 18m Road Reserve

20m Road Reserve

Culvert over Creek

Lot 13 Total Area = 13837 m2

Remnant Area = 1101+7669=8770 m2

Road Reserve with drainage= 5967 m2

LAND ACQUISITION

Lot 14= 672 m2

Lot 1= 182 m2

Lot 8= 160 m2

Total = 1014 m2

20m Road Reserve Lot 160

18m Road Reserve to suit RAV5-27.5m

ADELAIDE STREET

Lot 14

Area 1 = 1231.7368 m2

Lot 13

Lot 53

Area 2 = 7669 m2

Road over lot 13 = 7672 m2

Culvert over the creek

Lot 101

Hesperia Site

Lot 11

1) Geotech investigation needed for proposed new road (bound in red). Geotech findings to inform road design, pavement design (CBR), bearing capacity to support culvert structure by the creek.

Lot 52

2) Geotech investigation needed to inform drainage basin design.
ie, soil type/characteristics, 2x permeability

Drainage Area=991m2

Volume 1140 m3

Area991m2, depth 1.2m

Lot 10

Existing Hatch Court 18m Road Reserve with 6m pavement

Lot 51

Lot 15

Lot 16

3) Geotech investigation to undertake edge of existing pavement dippings to confirm the existing pavement profile thickness, subgrade CBR, permeability of the soil in the verge. 4x pavement dippings and 4x permeability test of verge.

Lot 1

HATCH COURT

15m Radius Cul-de-sac with 3m verge

Lot 8

Proposed new 18m Road Reserve

20m Road Reserve

Culvert over Creek

Lot 13 Total Area = 13837 m2

Remnant Area = 1101+7669=8770 m2

Road Reserve with drainage= 5067 m2

LAND ACQUISITION

Lot 14= 672 m2

Lot 1= 182 m2

Lot 8= 160 m2

Total = 1014 m2

20m Road Reserve Lot 160

18m Road Reserve to suit RAV5-27.5m

Existing Hatch Court 18m Road Reserve with 6m pavement

15m Radius Cul-de-sac with 3m verge

Lot 14

Lot 13

Lot 53

Lot 12

Lot 160

Hesperia Site

Lot 11

Lot 52

Culvert over the creek

Drainage Area=991m2

volume 1140 m3

Area991m2, depth 1.2m

Lot 10

Lot 51

Lot 15

Lot 16

Lot 1

Lot 8

Area 1 = 1231.7368 m2

Area 2 = 7669 m2

Road over lot 13 = 7672 m2

90.3

14.14

40m

14.14

64.1

35.6

20m

43.6

79.6 m

76.4

18 m

36.4 m

31.3

31.7

28.9

289.0

106.9

93.2

20.0

22.6

53.6

33.4

17.5

30

23.0

16.0

18.0

45.5

25.5

20.0

20.0

45.5

42.6

18.0m

81.8

40.6

11.6

9.3

11.5

8.7

9.3

13.4

Appendix B: Site Photographs

Photograph 1:Looking south at creek from near BH03



Photograph 2: View of creek



Photograph 3: Looking south from near BH01



Photograph 4: Looking east from near BH01



Photograph 5: Looking west from near BH04



Photograph 6: Delamination noted near cul-de-sac along Hatch Court



Photograph 7: Crocodile cracking noted near cul-de-sac along Hatch Court



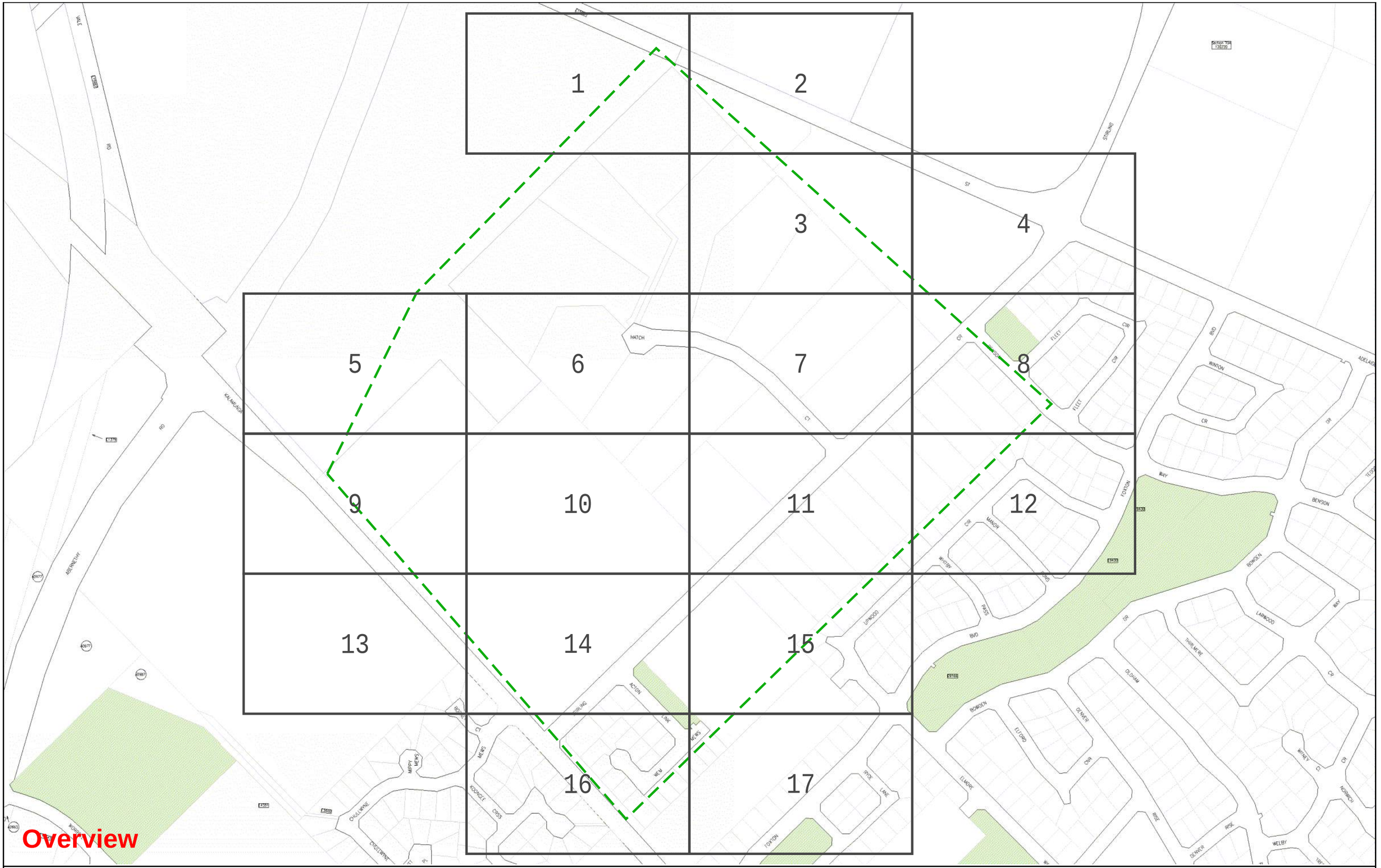
Photograph 8: Looking east from BH07 – minor delamination patches noted



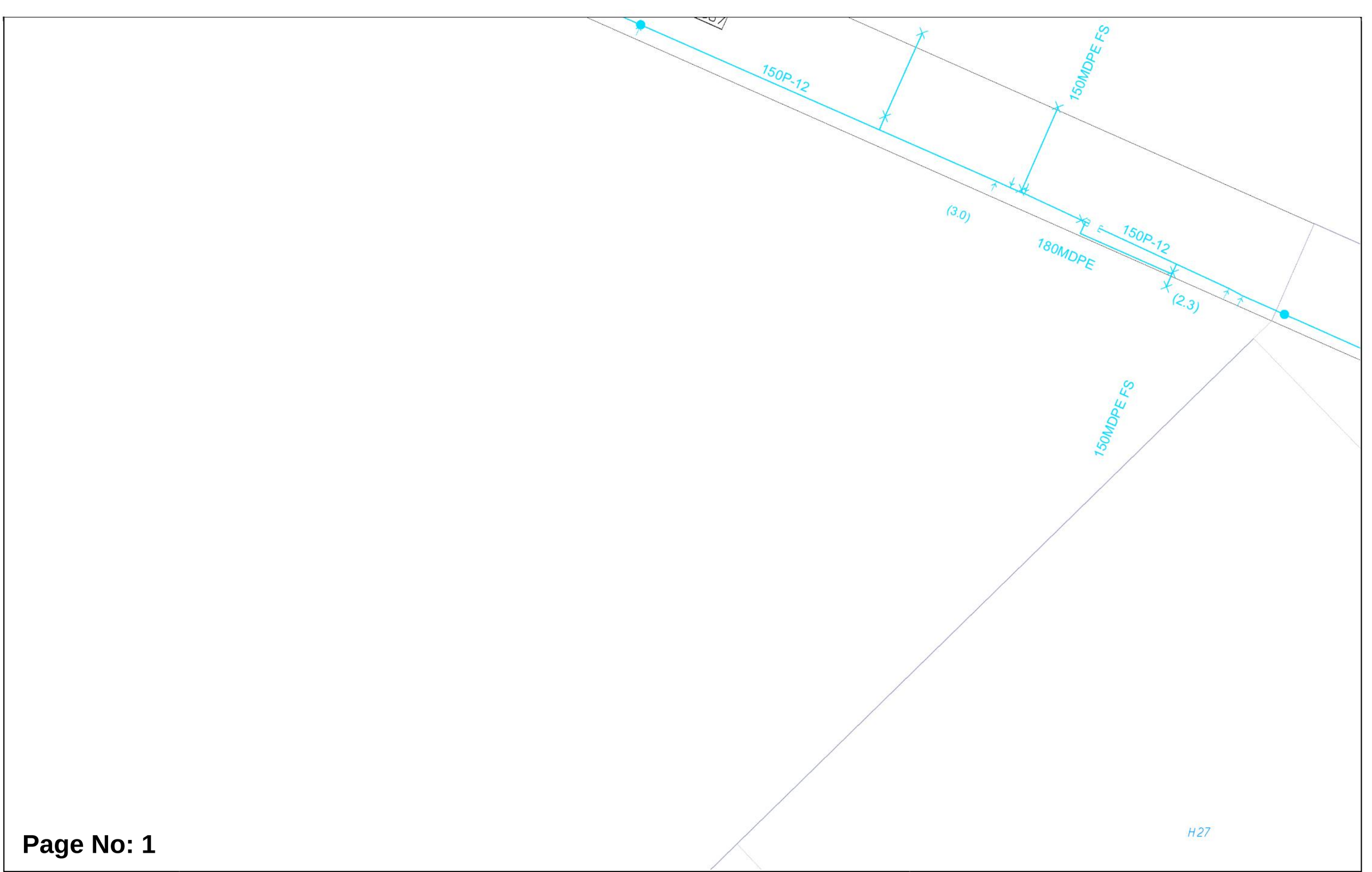
Photograph 9:Looking west from near BH07



APPENDIX C – DBYD SERVICES



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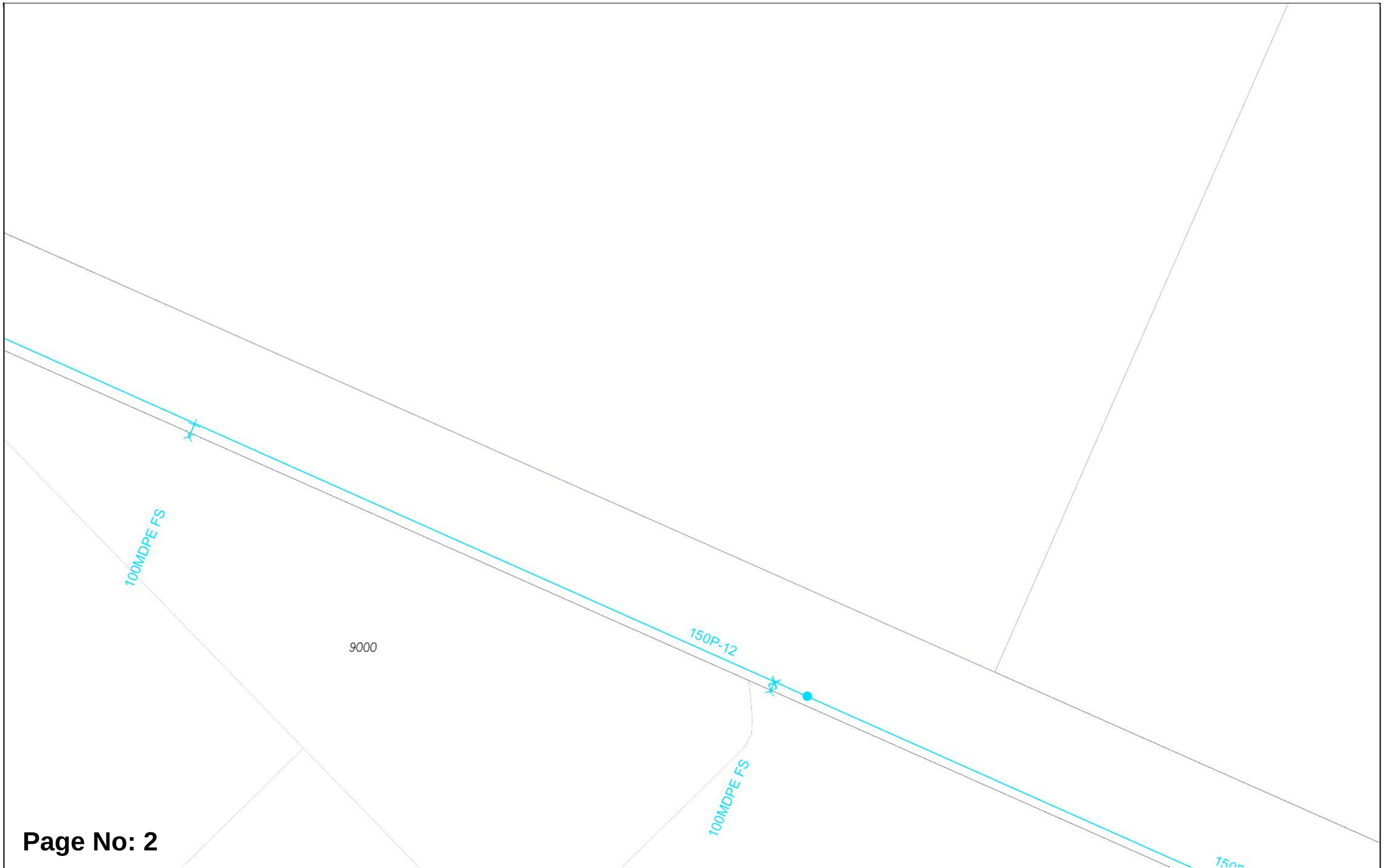
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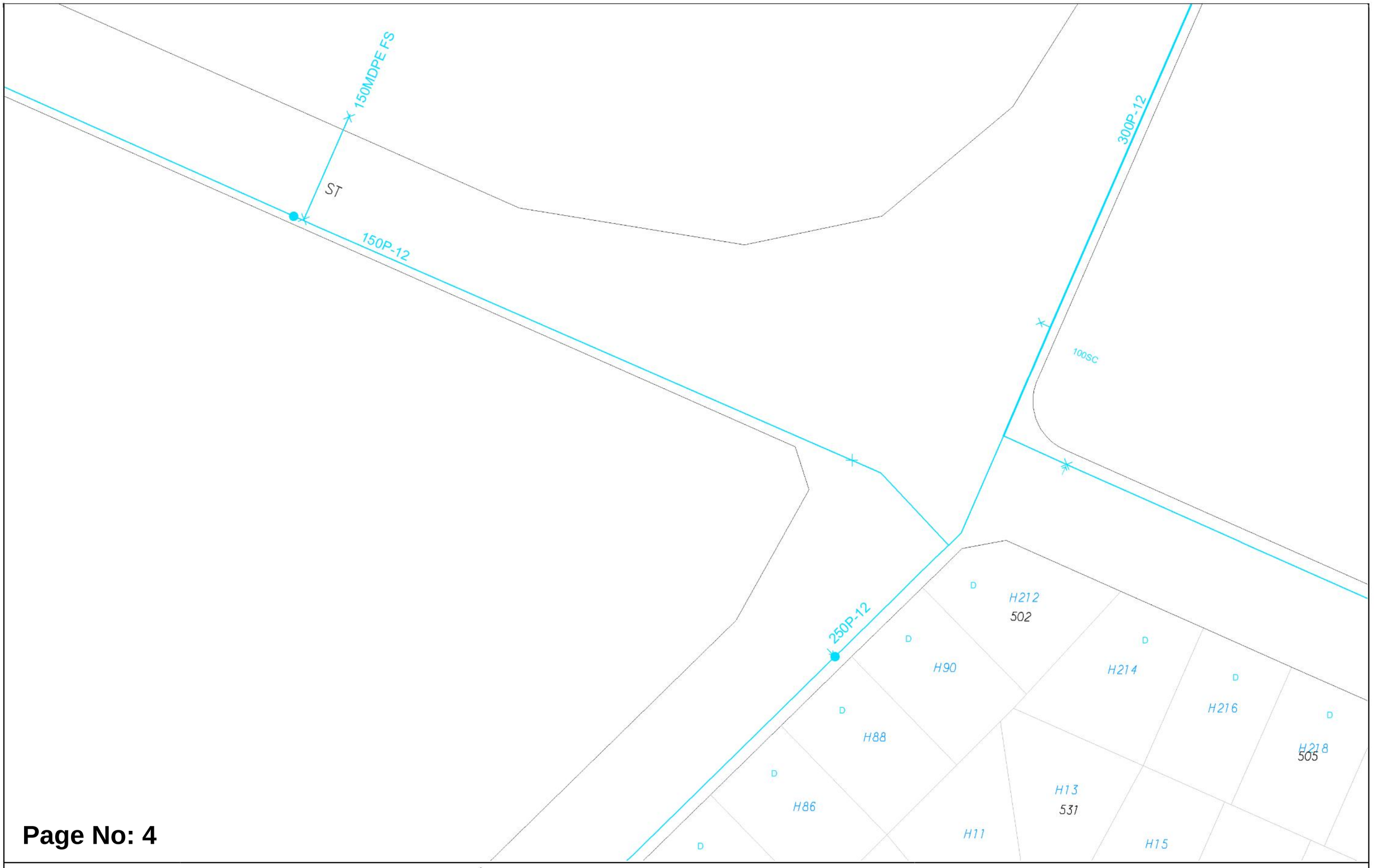


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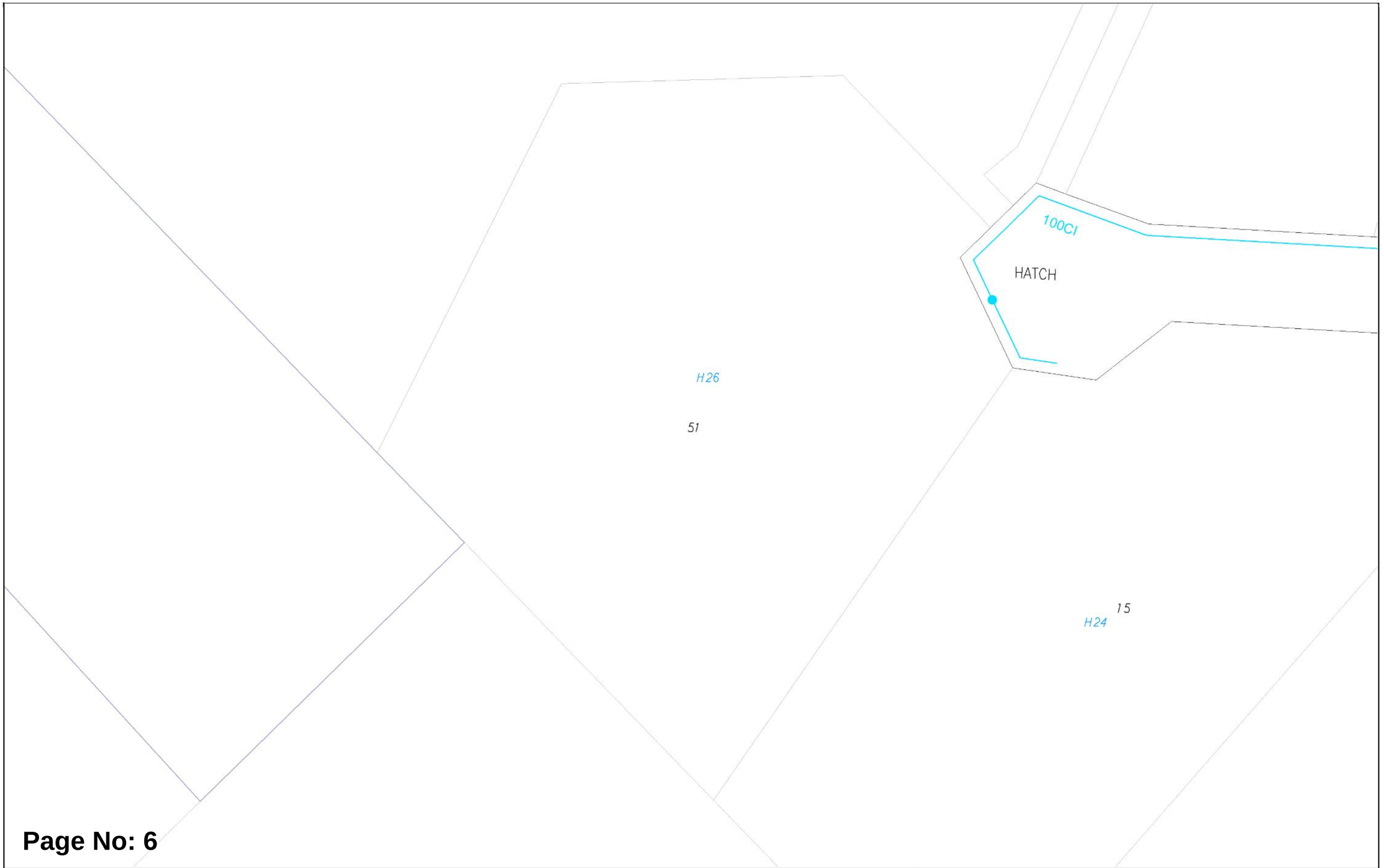
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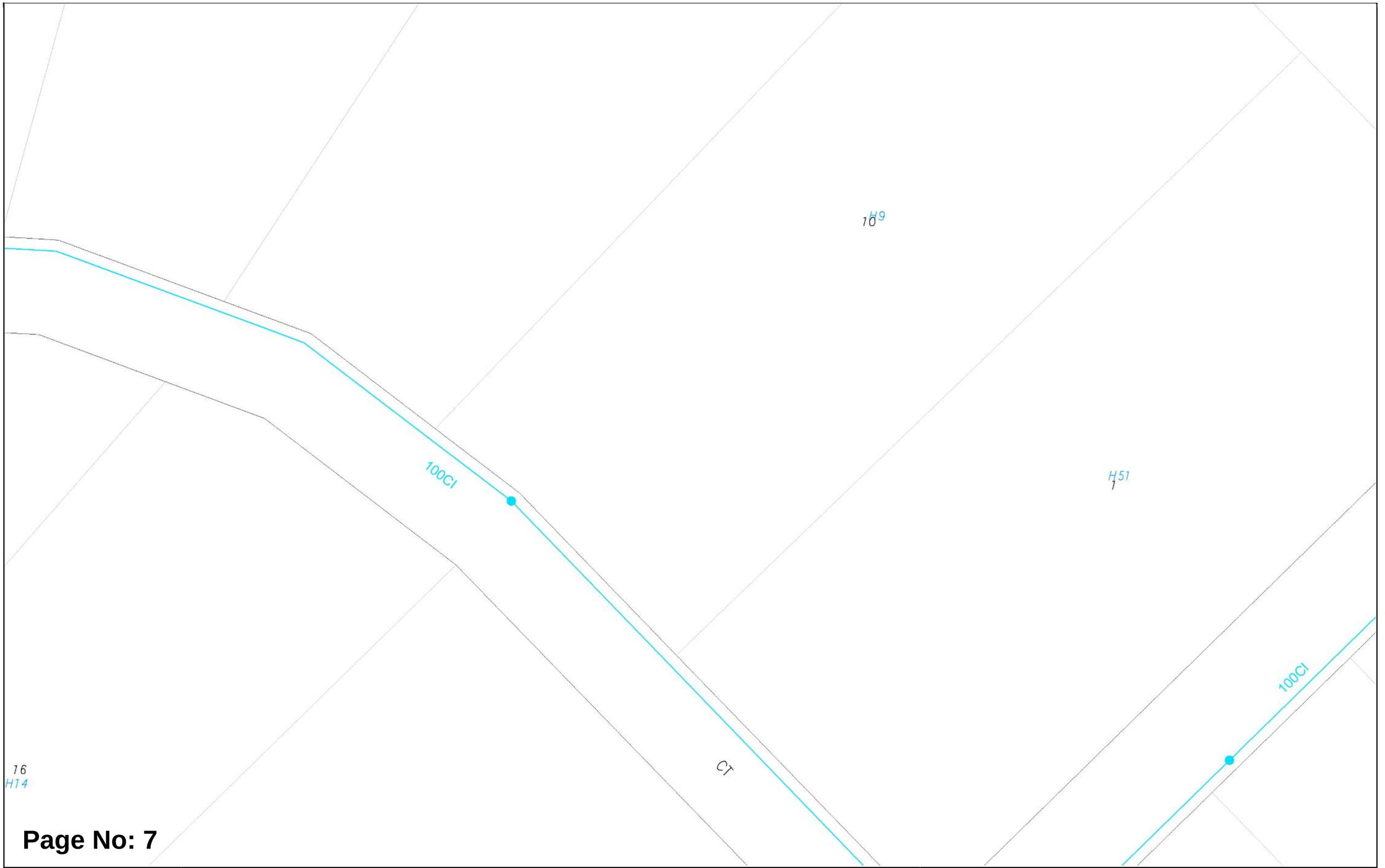
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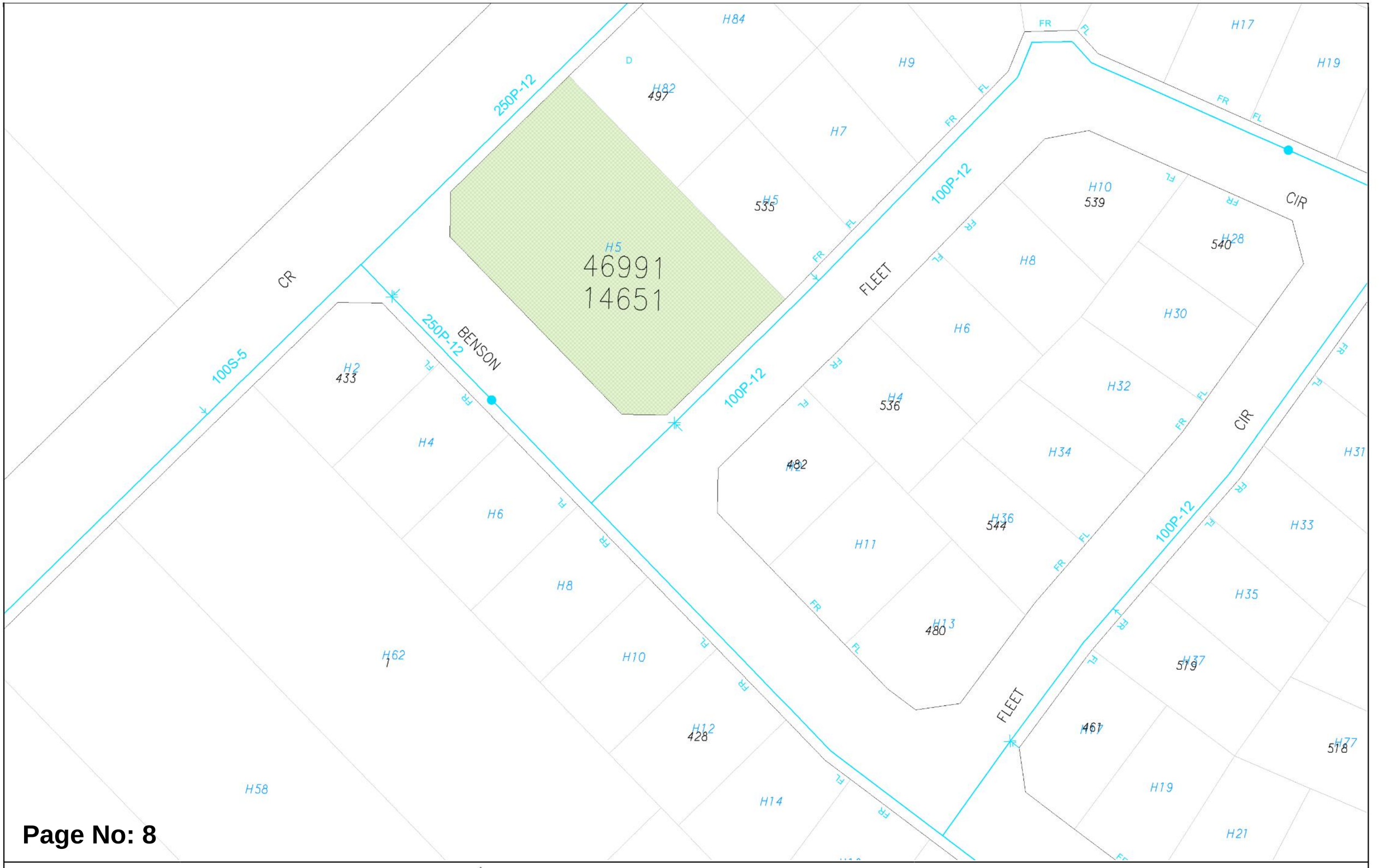
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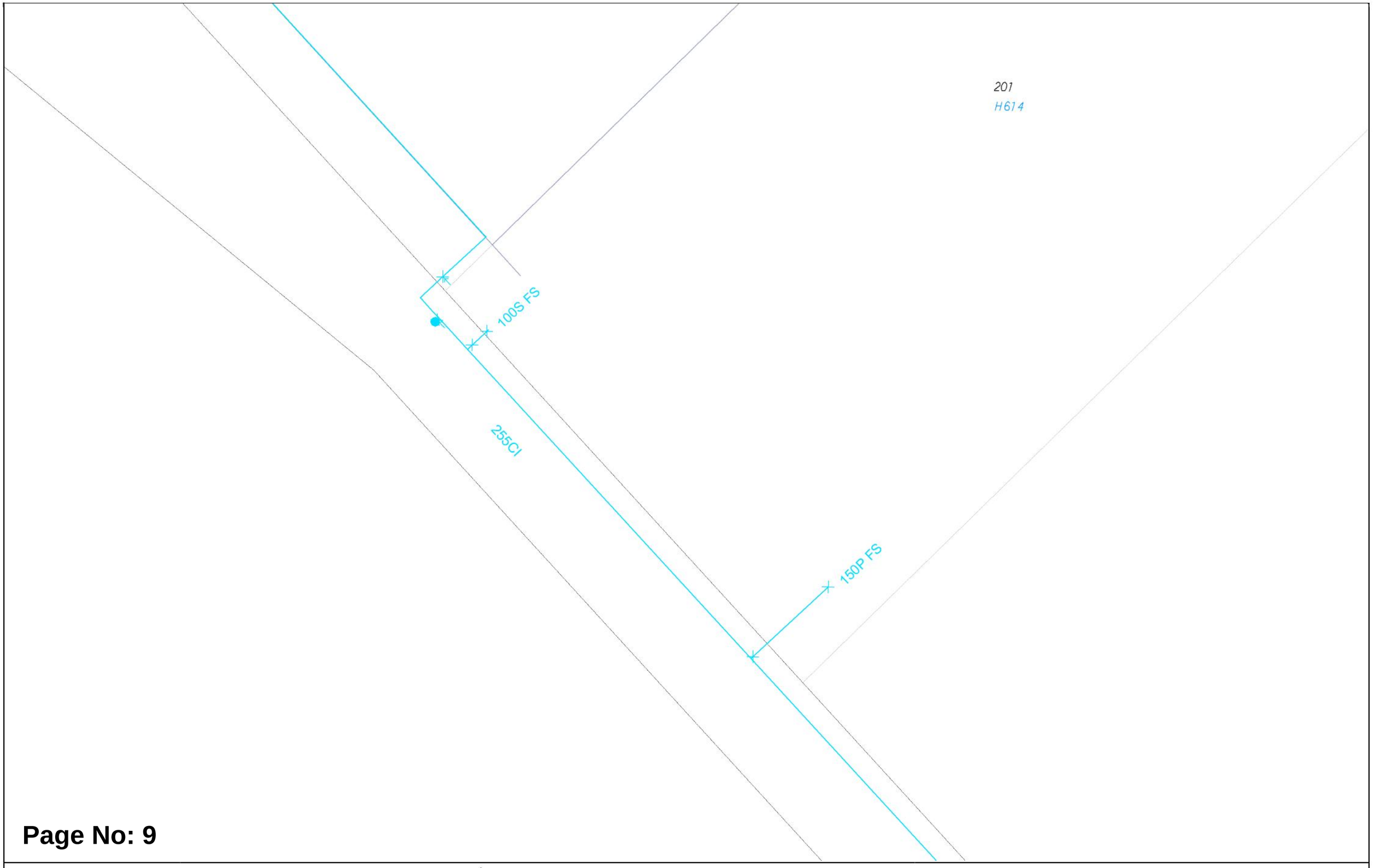
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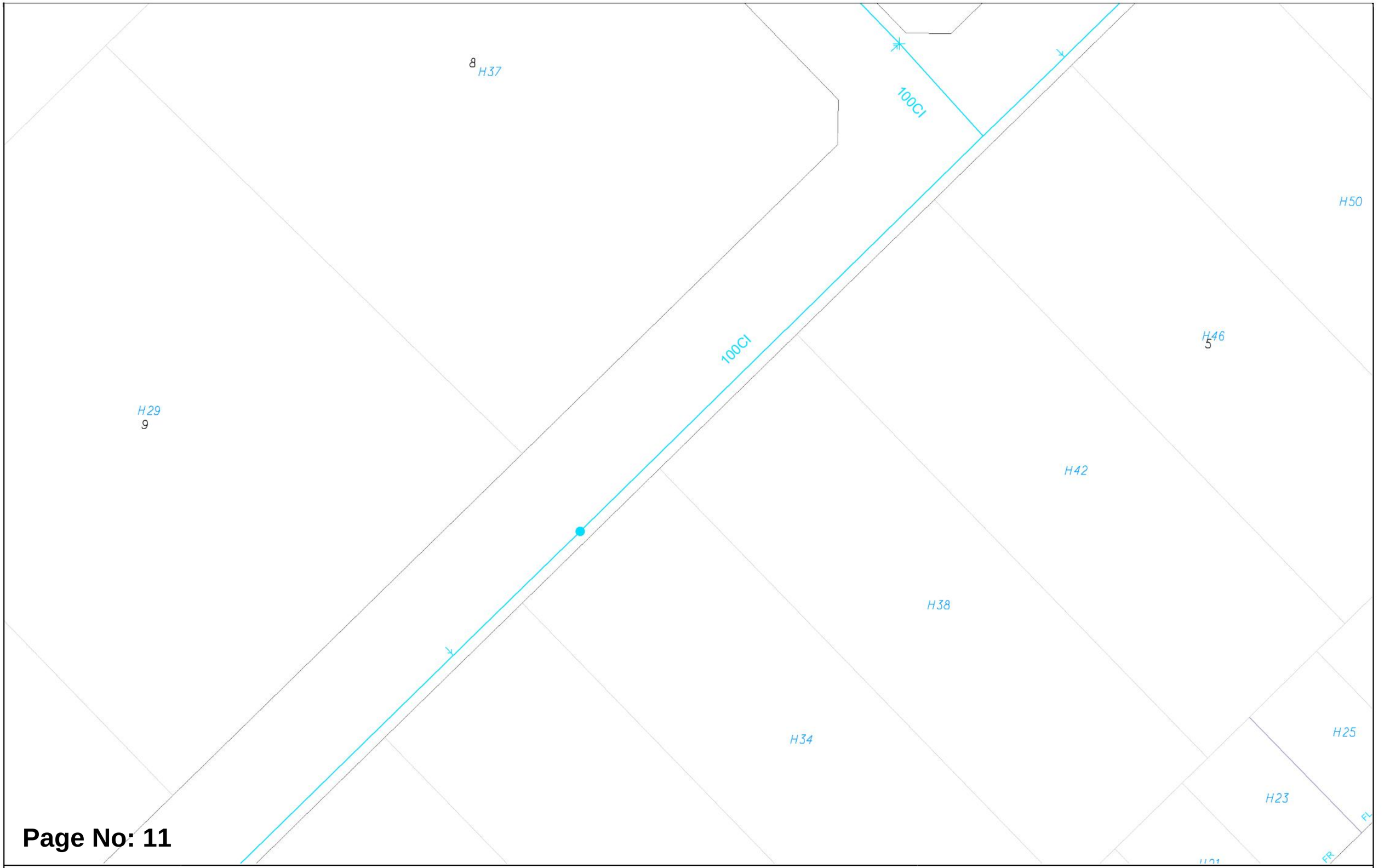
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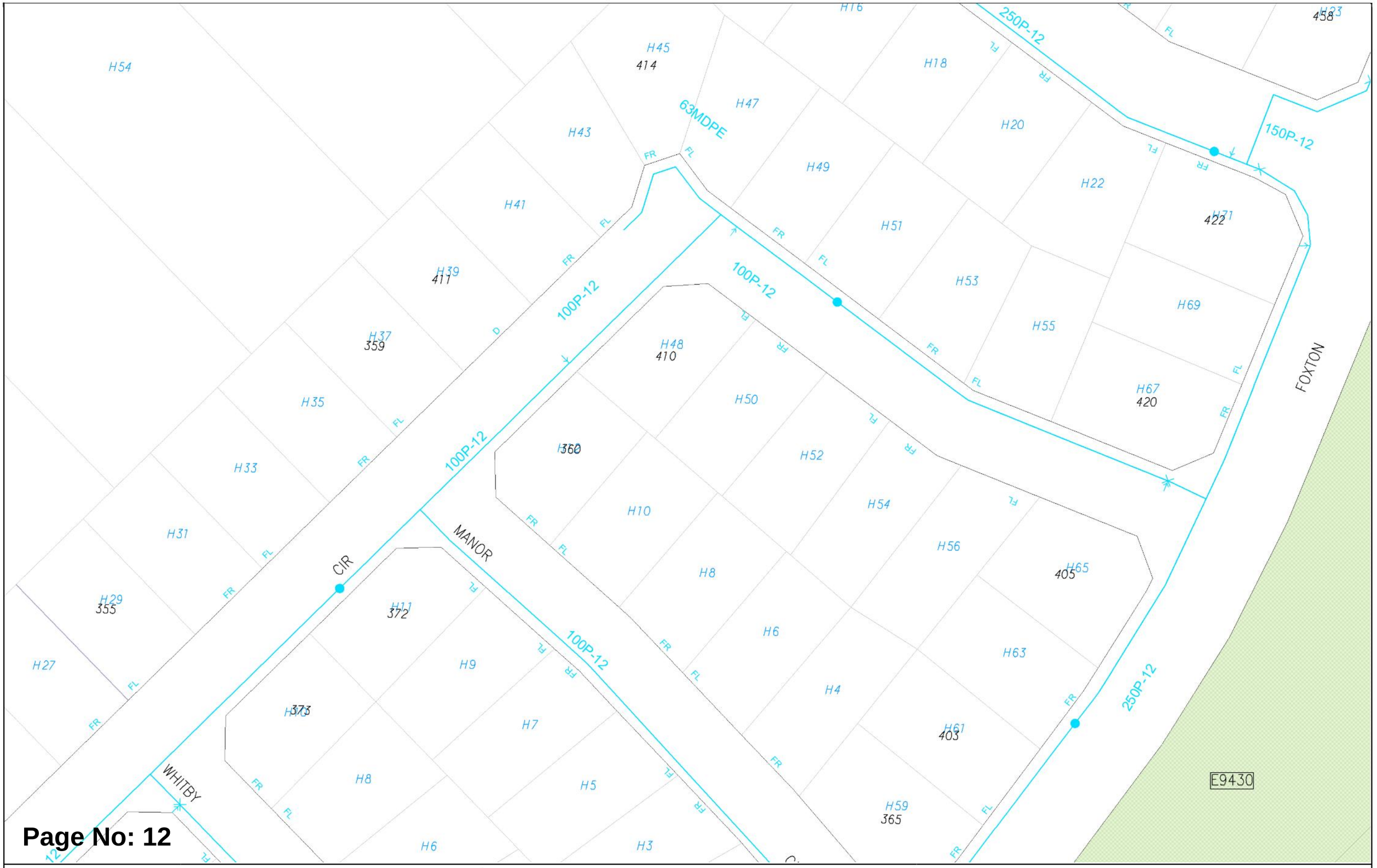
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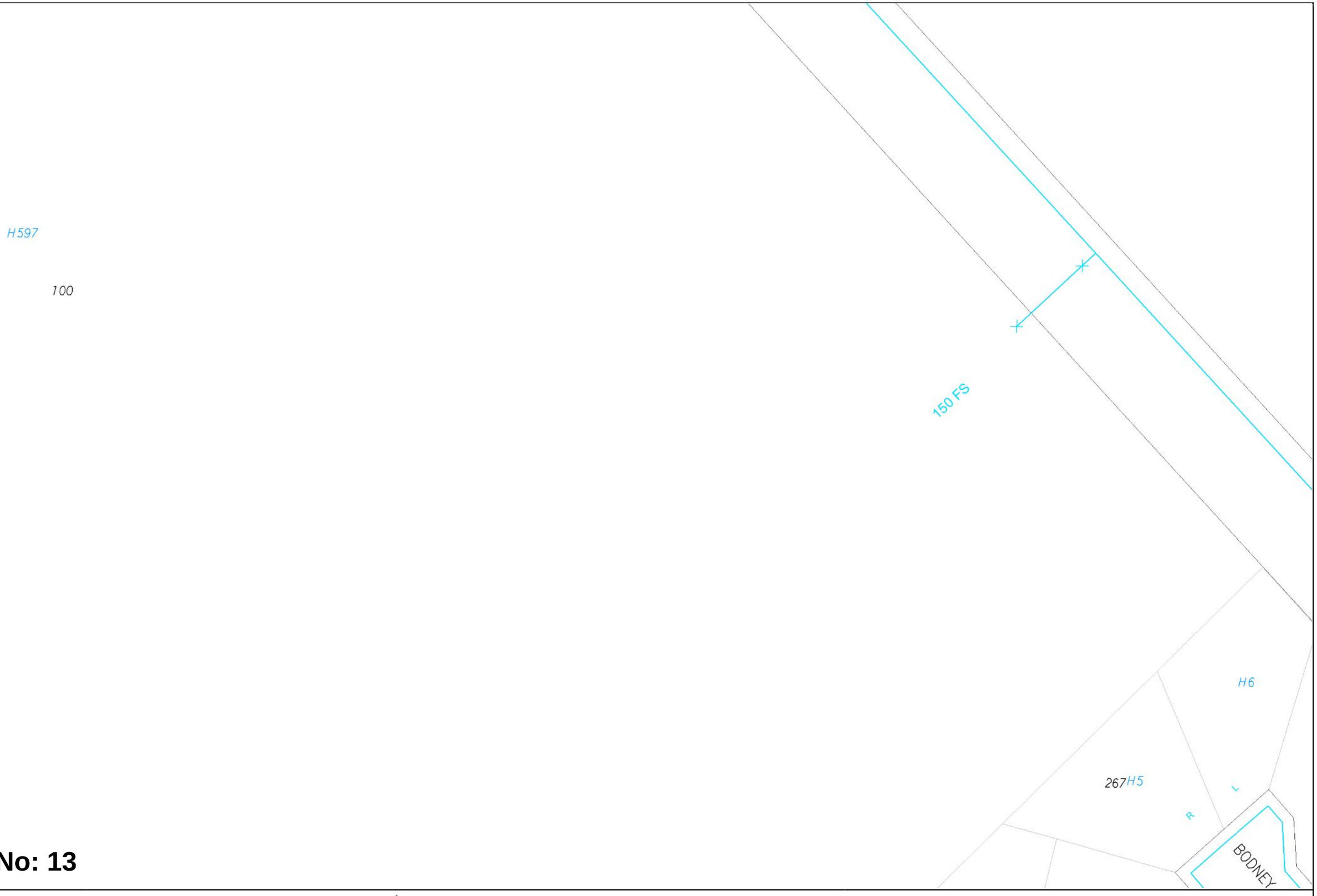


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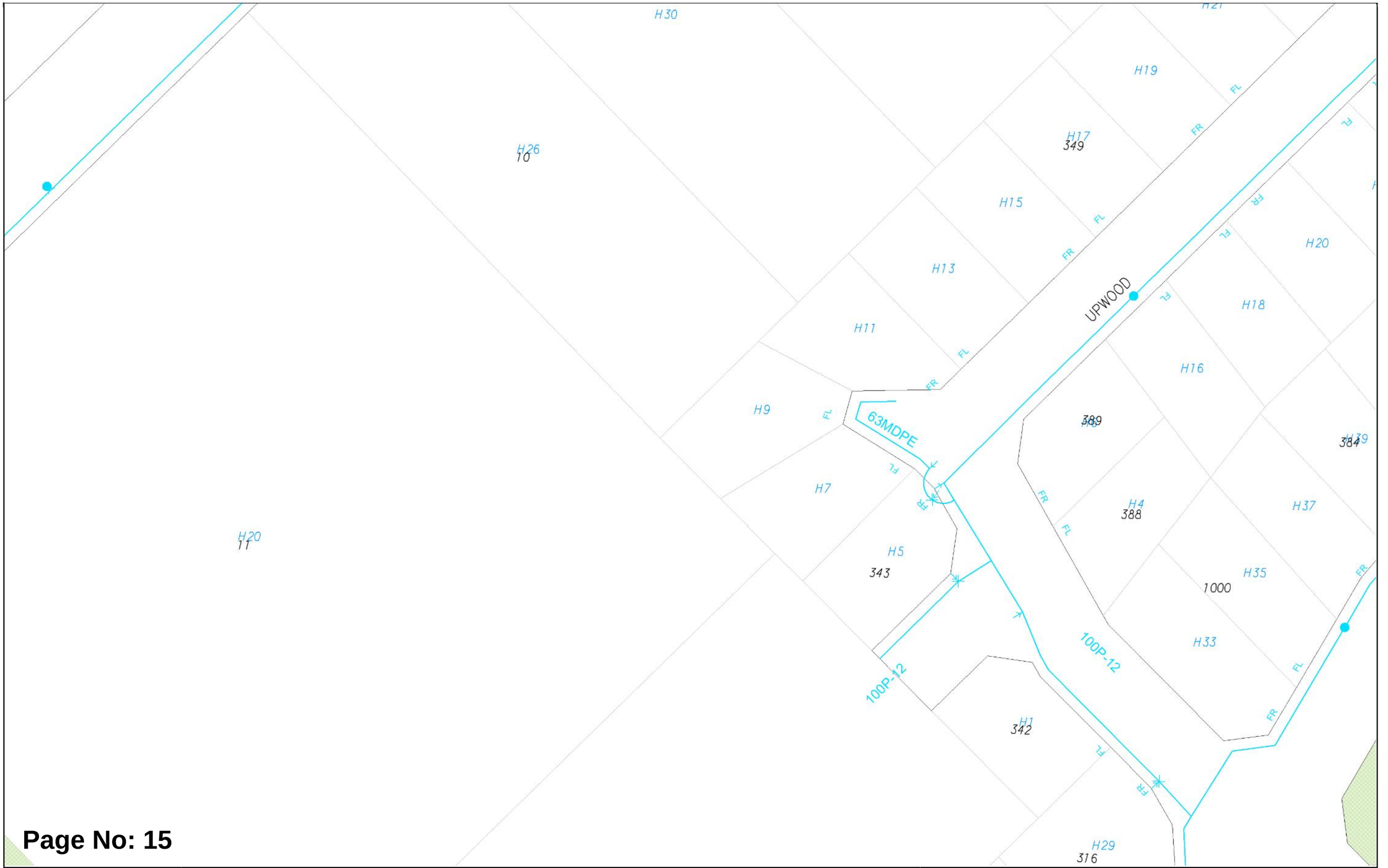
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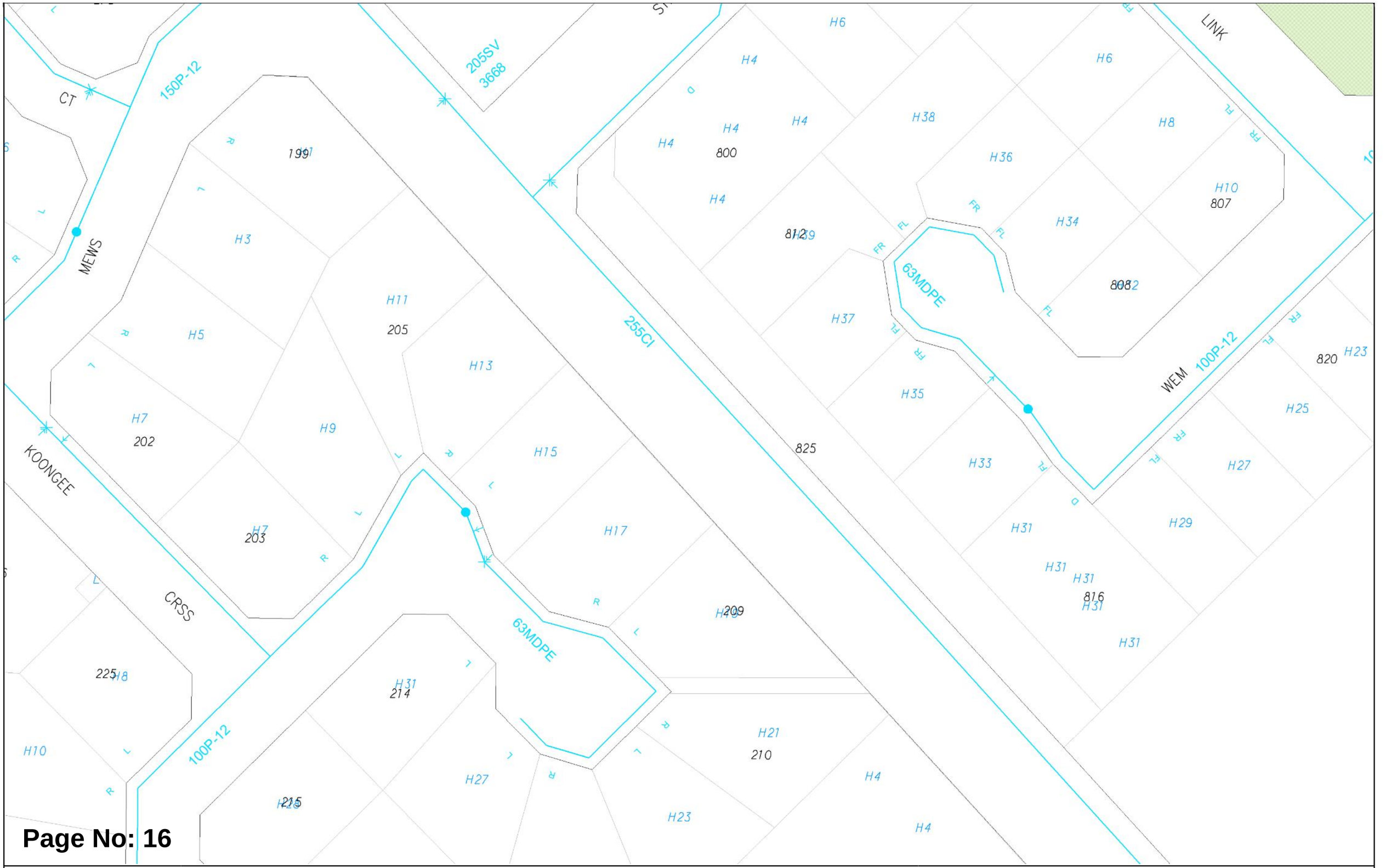
WATER CORPORATION

Scale:	1:750
Job No.:	52425203
Sequence No.:	268549262
Print Date:	19 Feb 2026

N

Water

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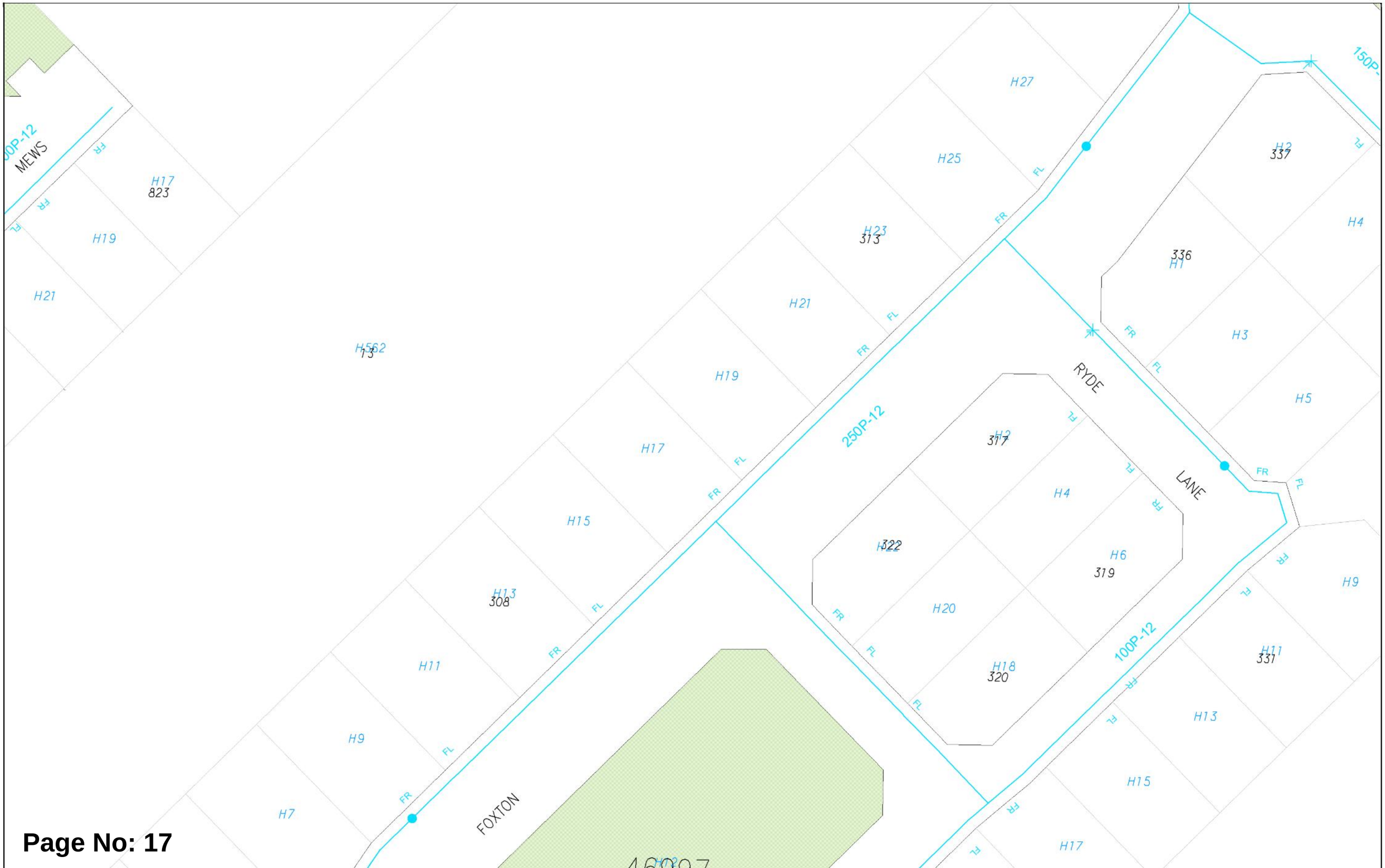
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WATER CORPORATION

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Water

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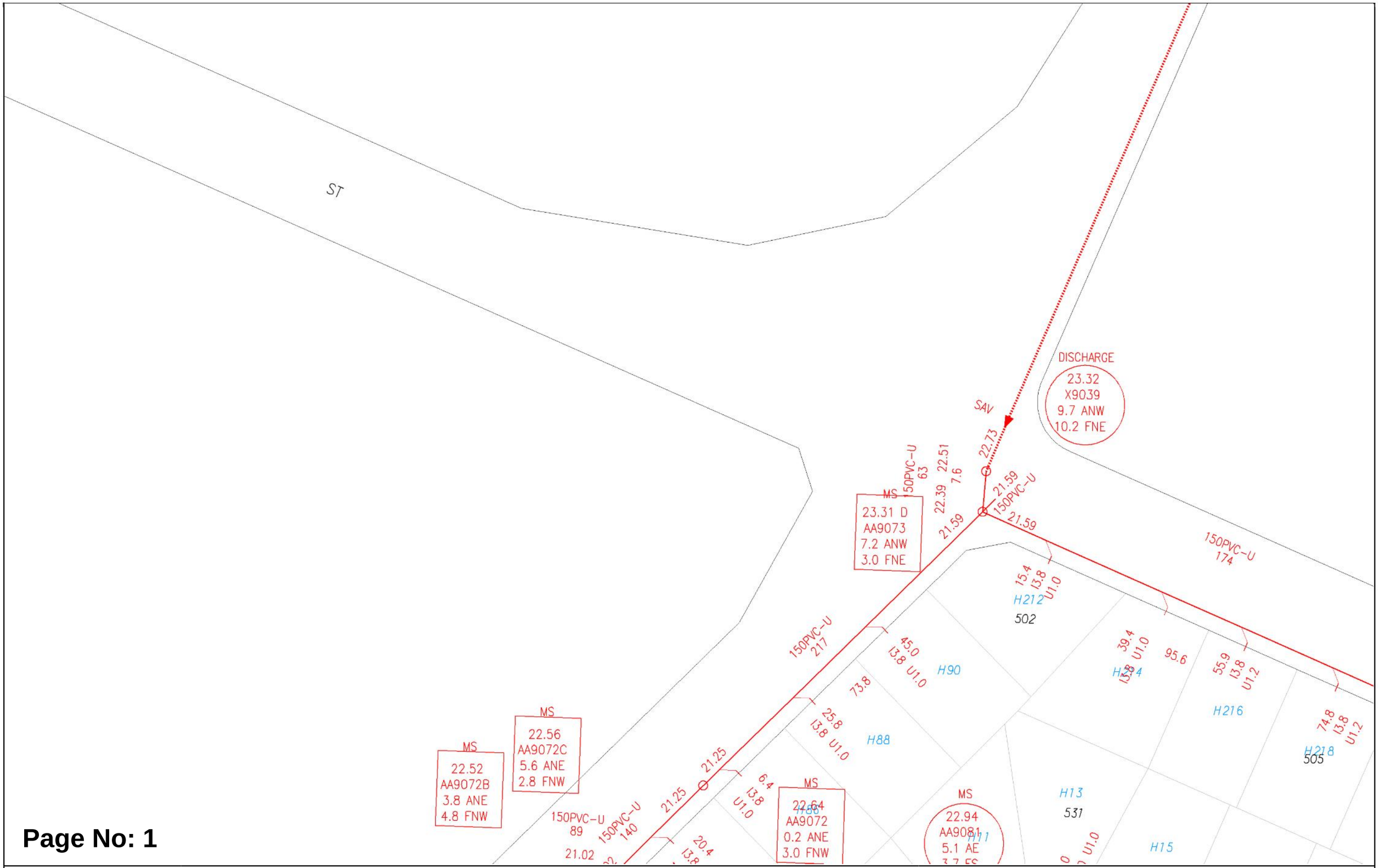
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Scale: 1:4542
Job No.: 52425203
Sequence No.: 268549262
Print Date: 19 Feb 2026

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Sewer

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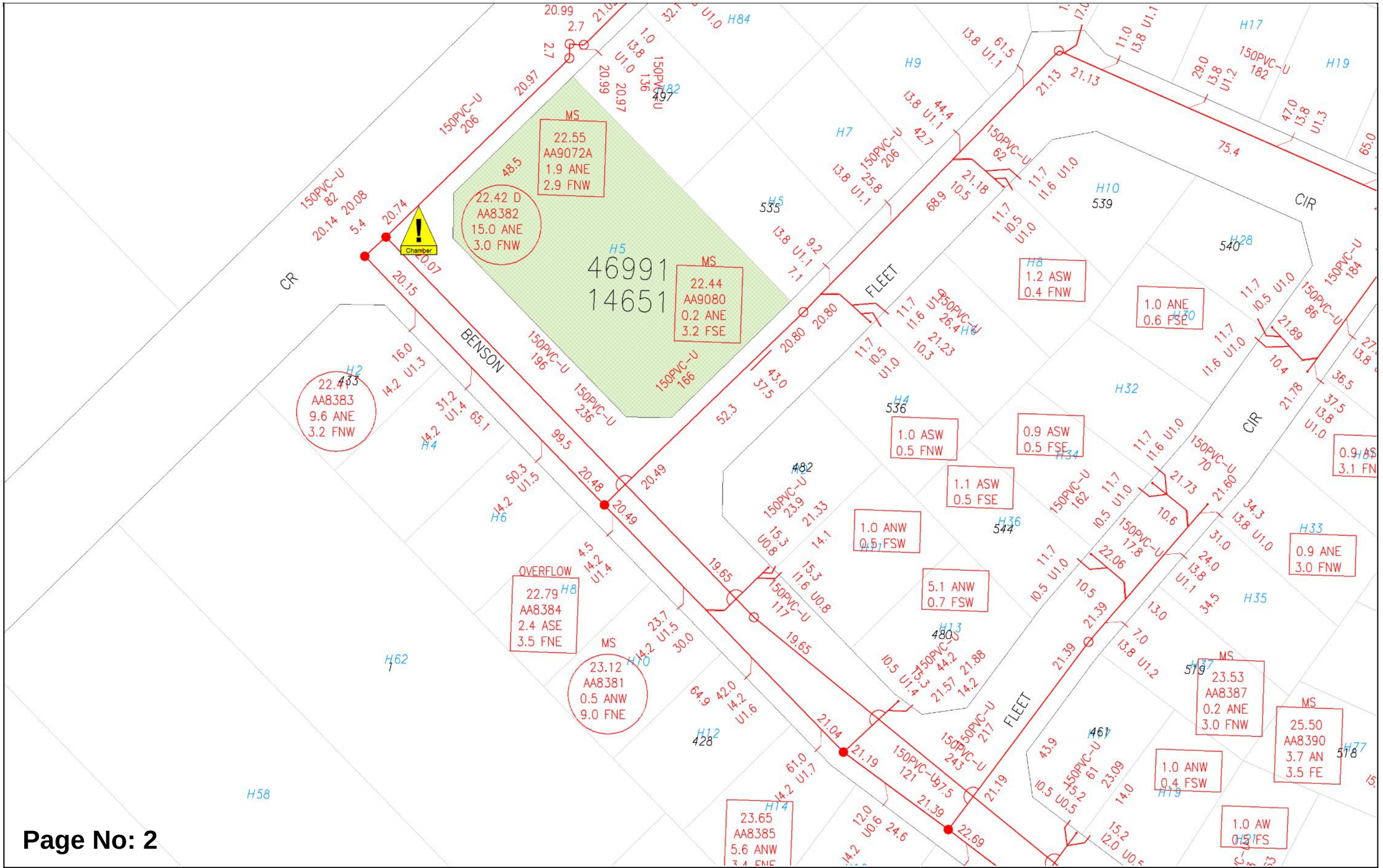
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WATER CORPORATION

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8
H37
H50
H46
5
H29
9
H42
H38
H34
H25
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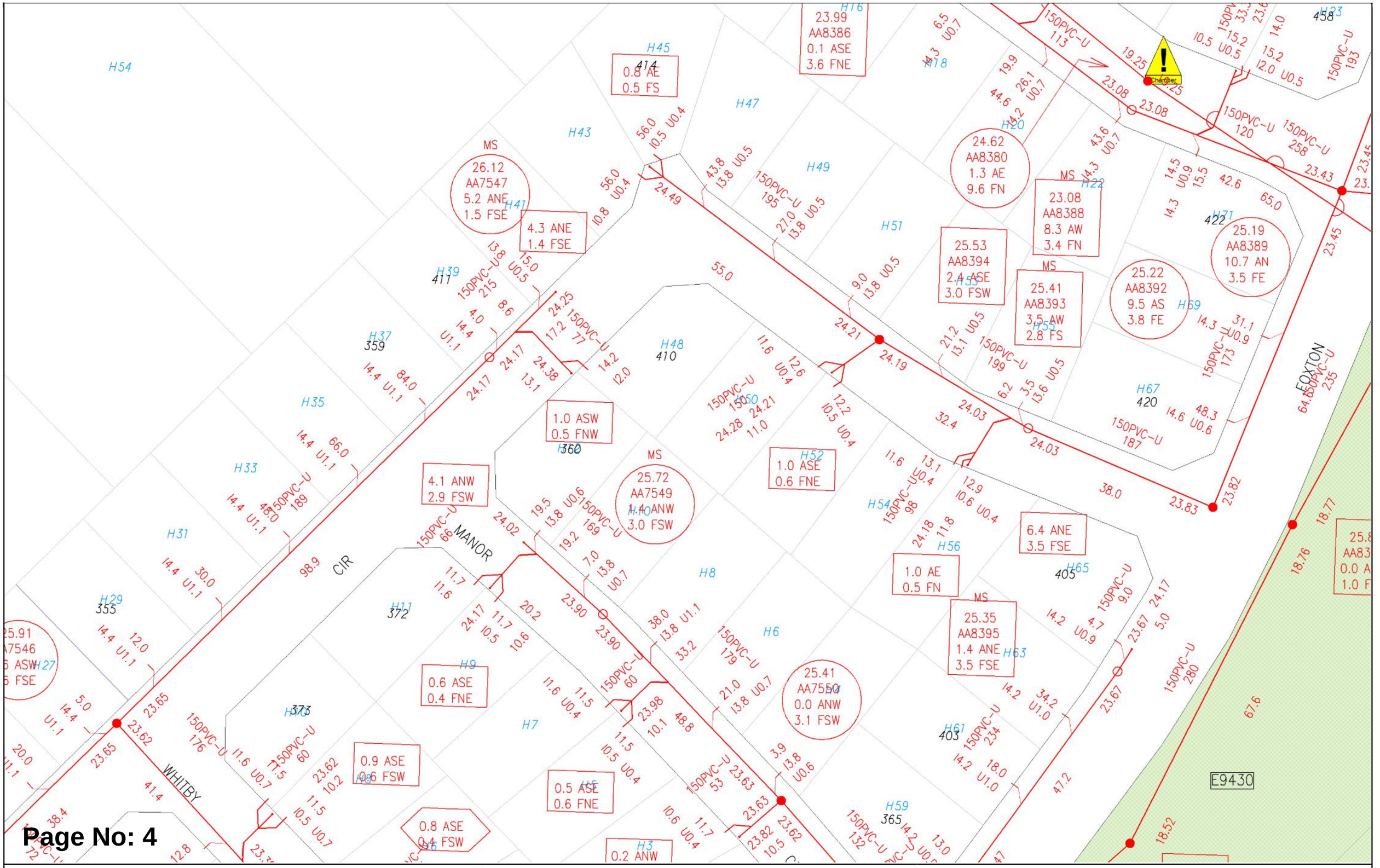
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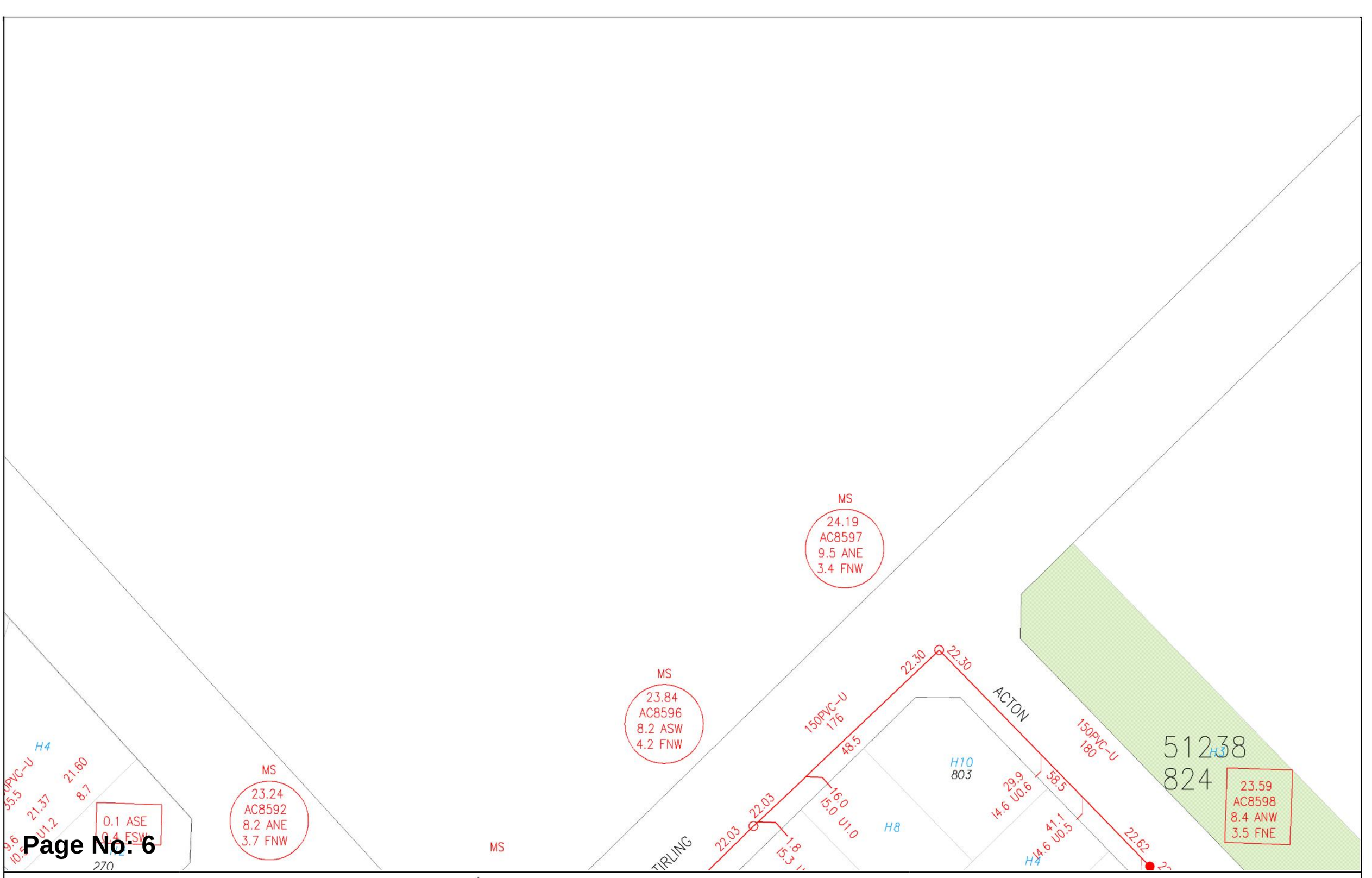
WATER CORPORATION

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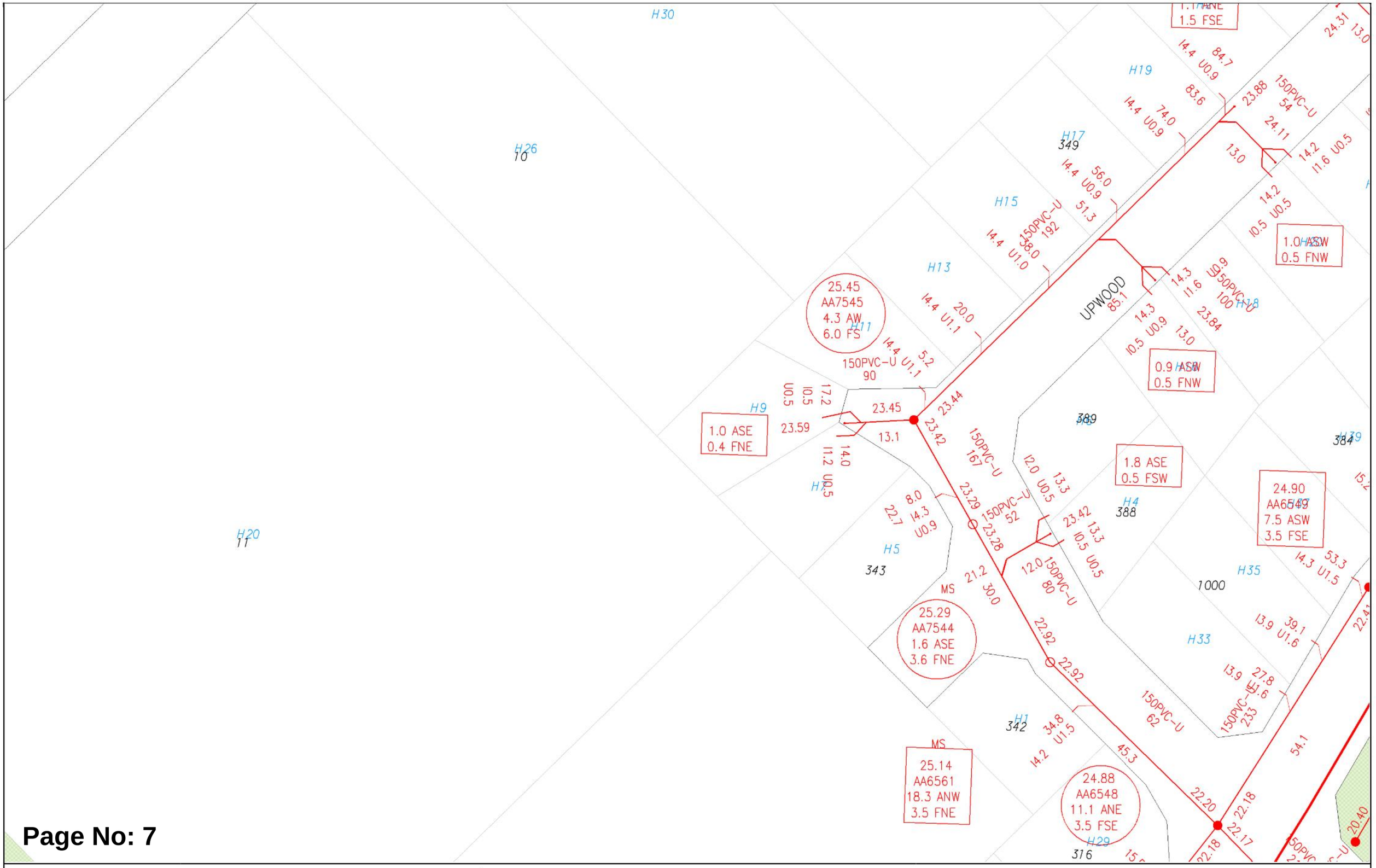
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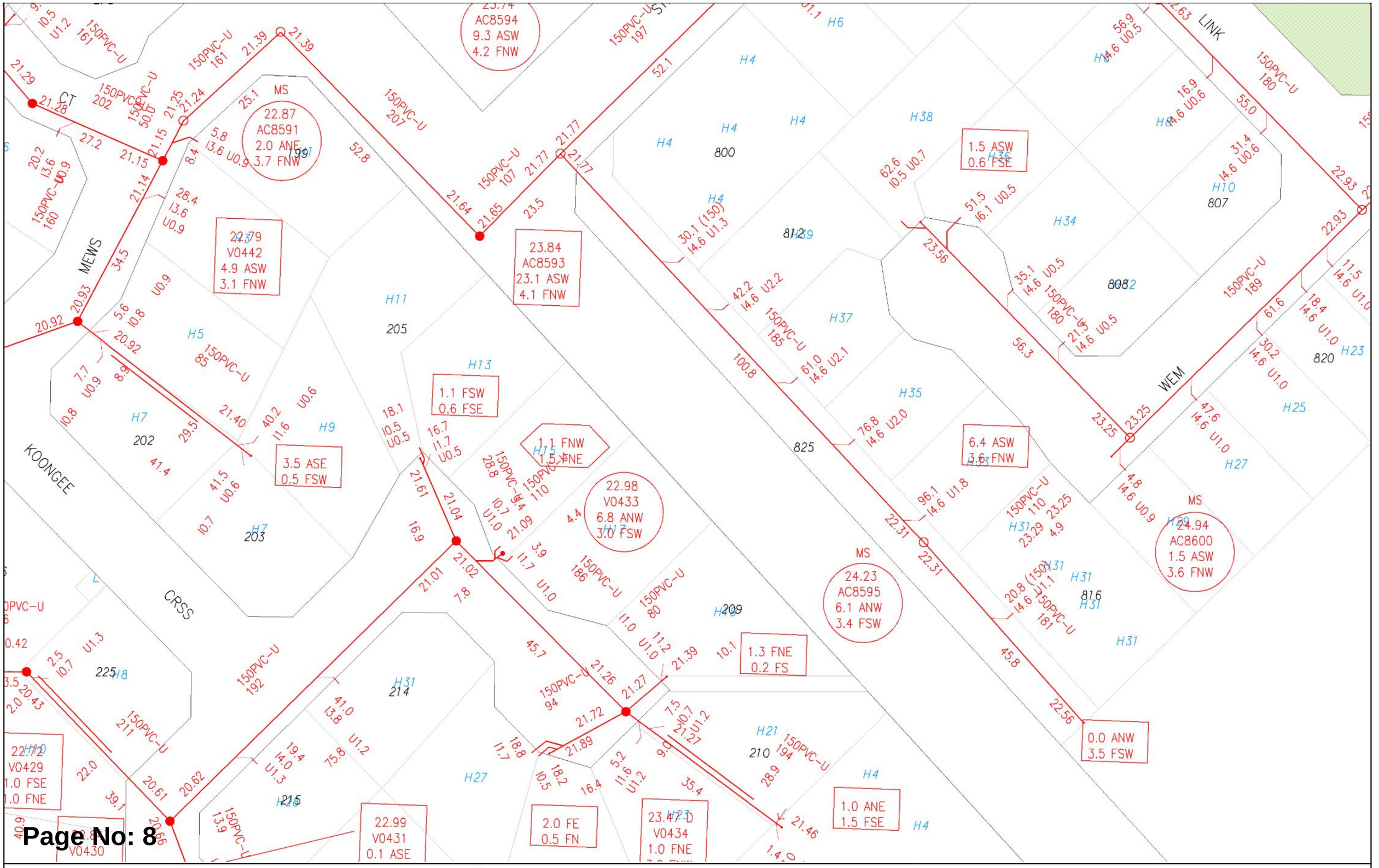


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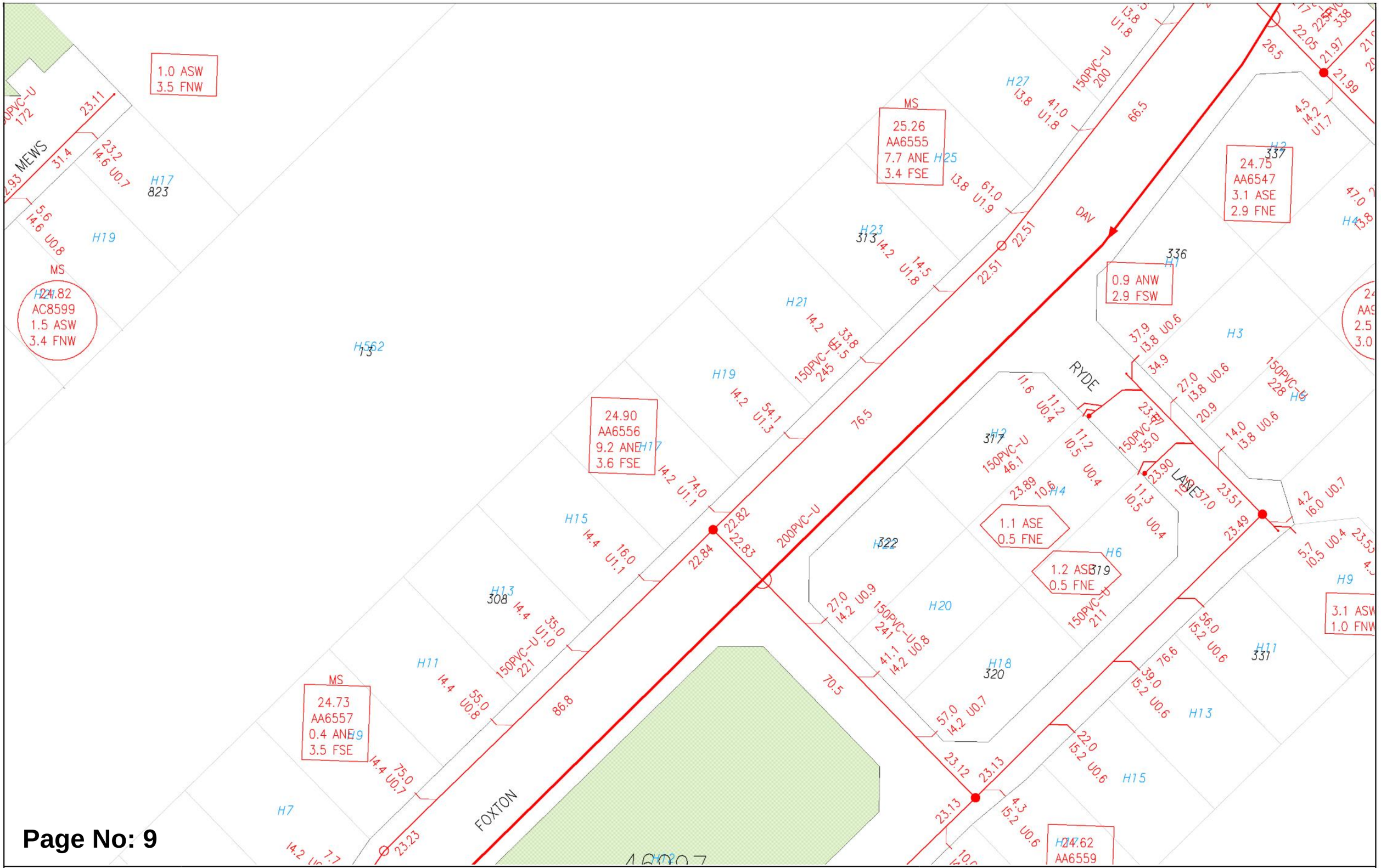
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WATER CORPORATION

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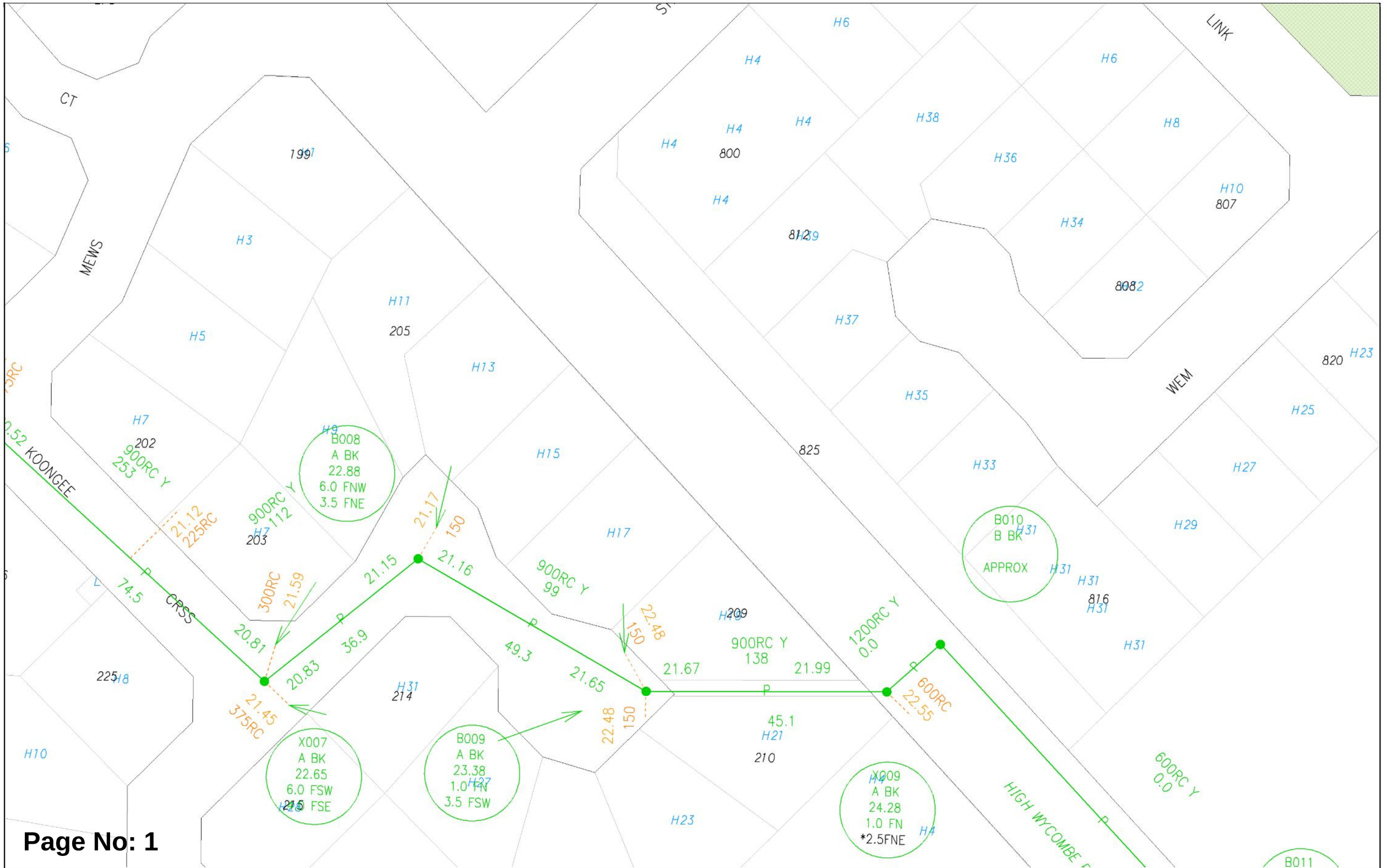
WATER CORPORATION

Scale: 1:4542
Job No.: 52425203
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N

Drainage

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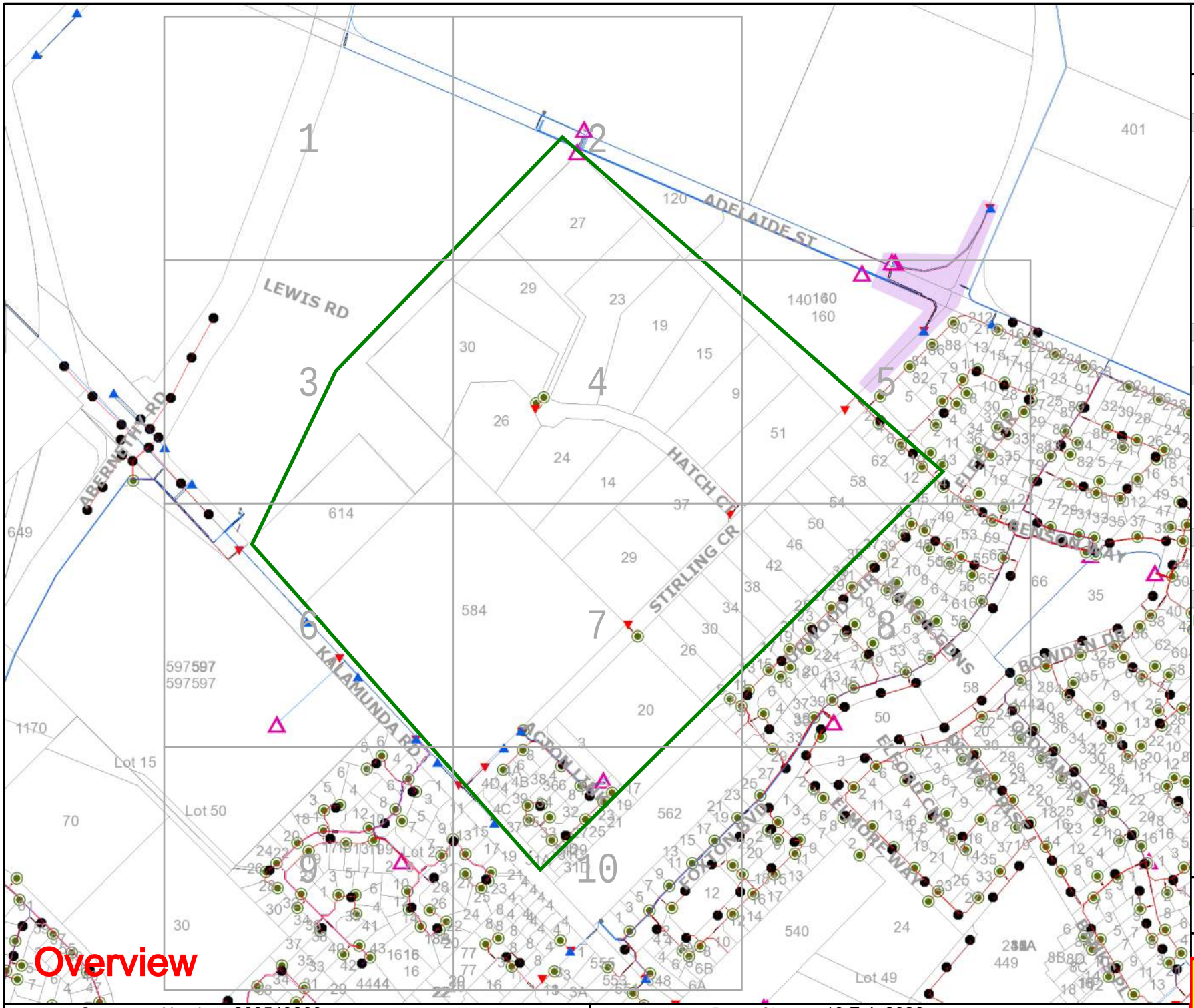
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WATER CORPORATION

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Drainage

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westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Hand exposure via pothole method is MANDATORY.

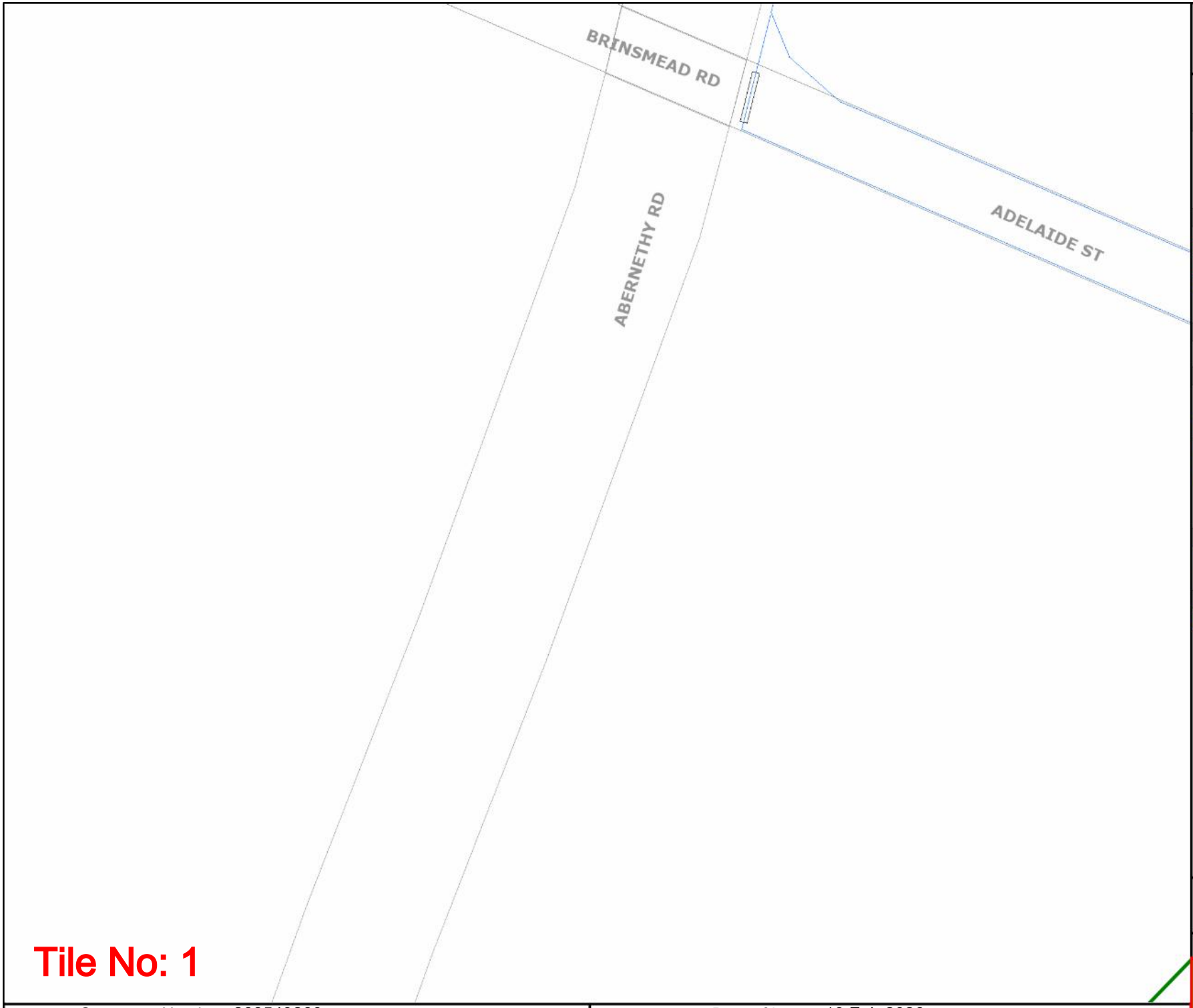
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Information valid for 30 days from date of issue

A4 | Scale : 1:6150

WARNING! Look out for overhead power lines

Sequence Number: 268549260 | Date of Issue: 19 Feb 2026



Tile No: 1

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- HV Termination
- Pillar
- LV Termination
- Transformer site

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

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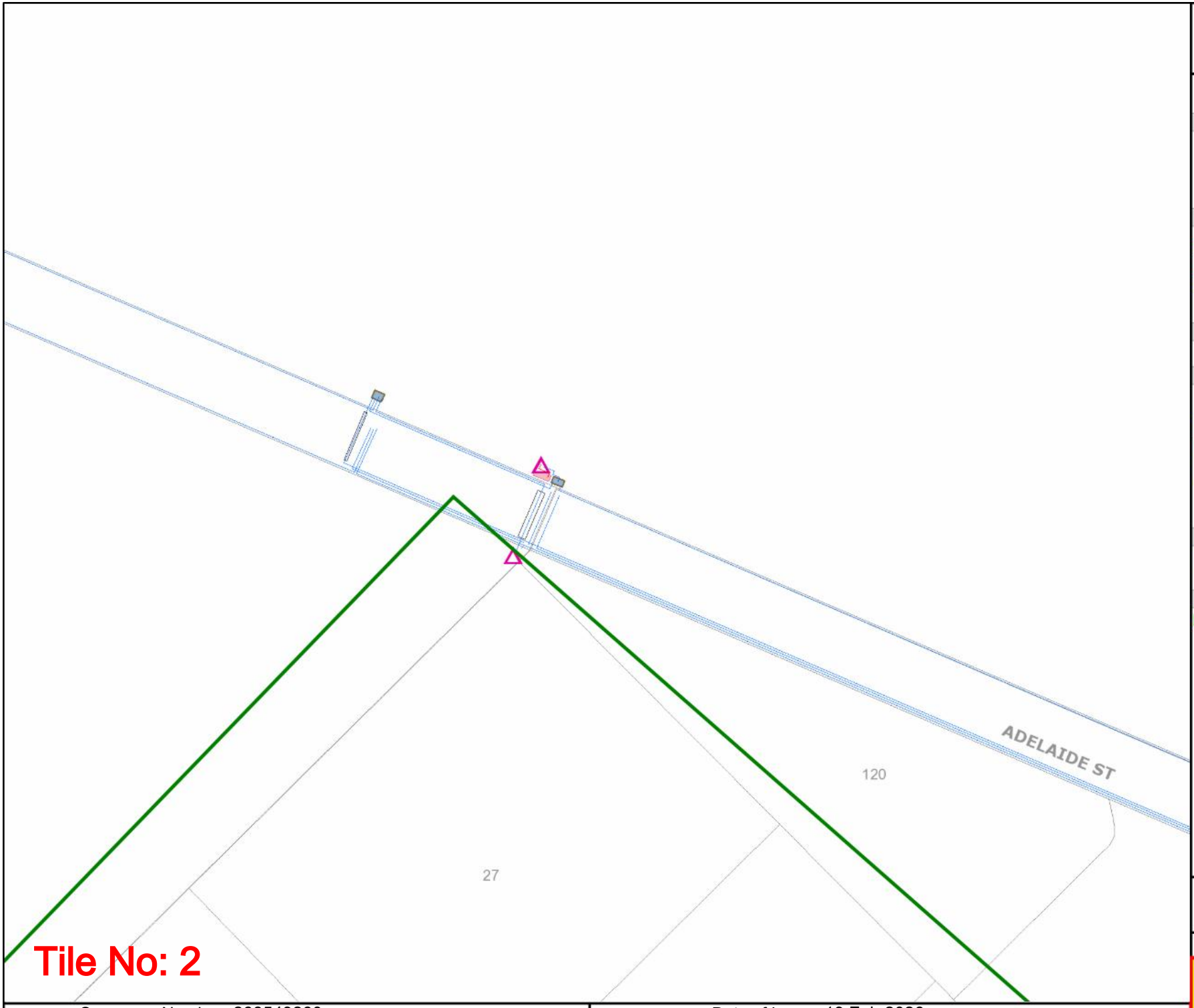
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A4 | Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260 | Date of Issue: 19 Feb 2026



Tile No: 2

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

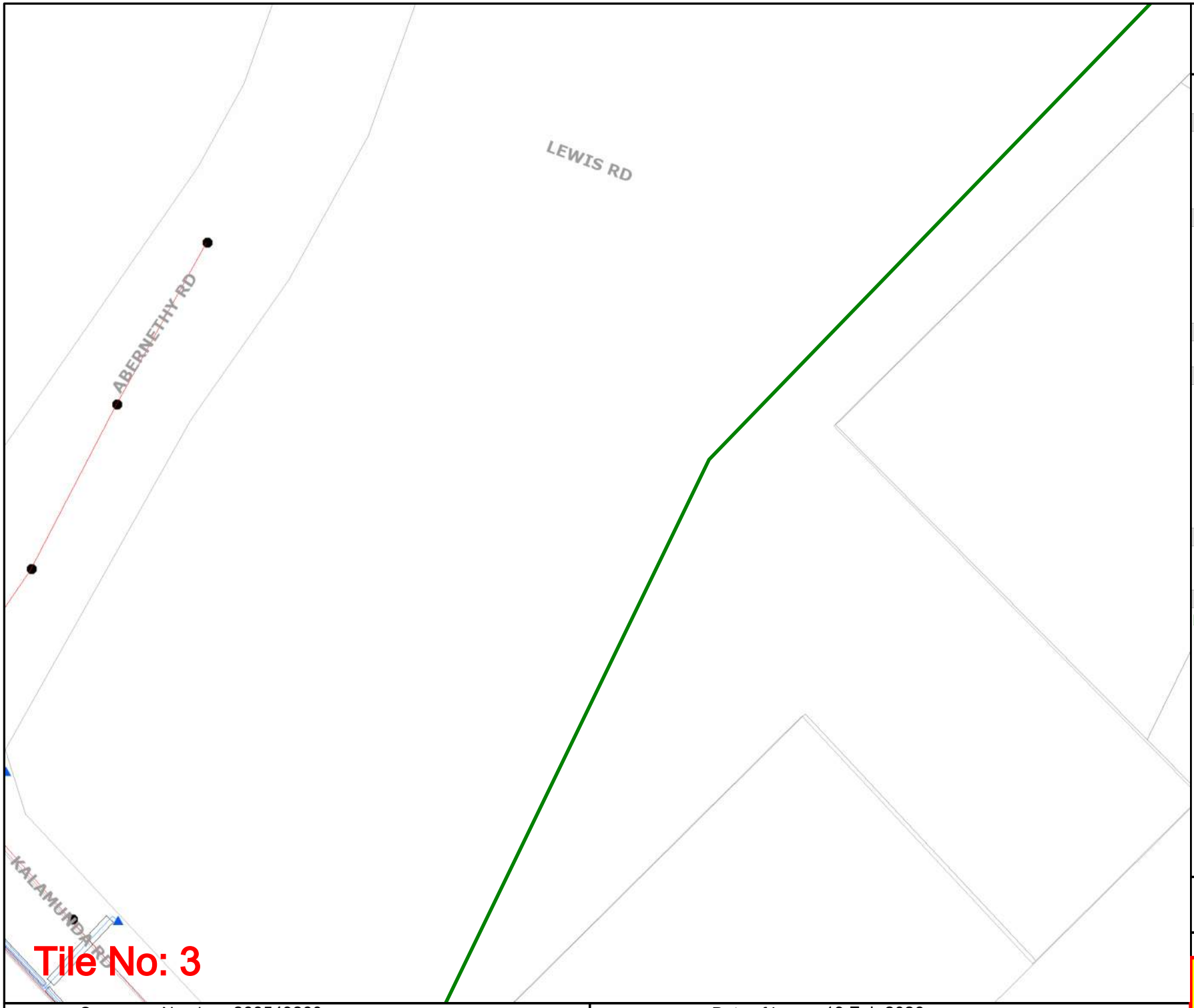
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Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



Tile No: 3

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

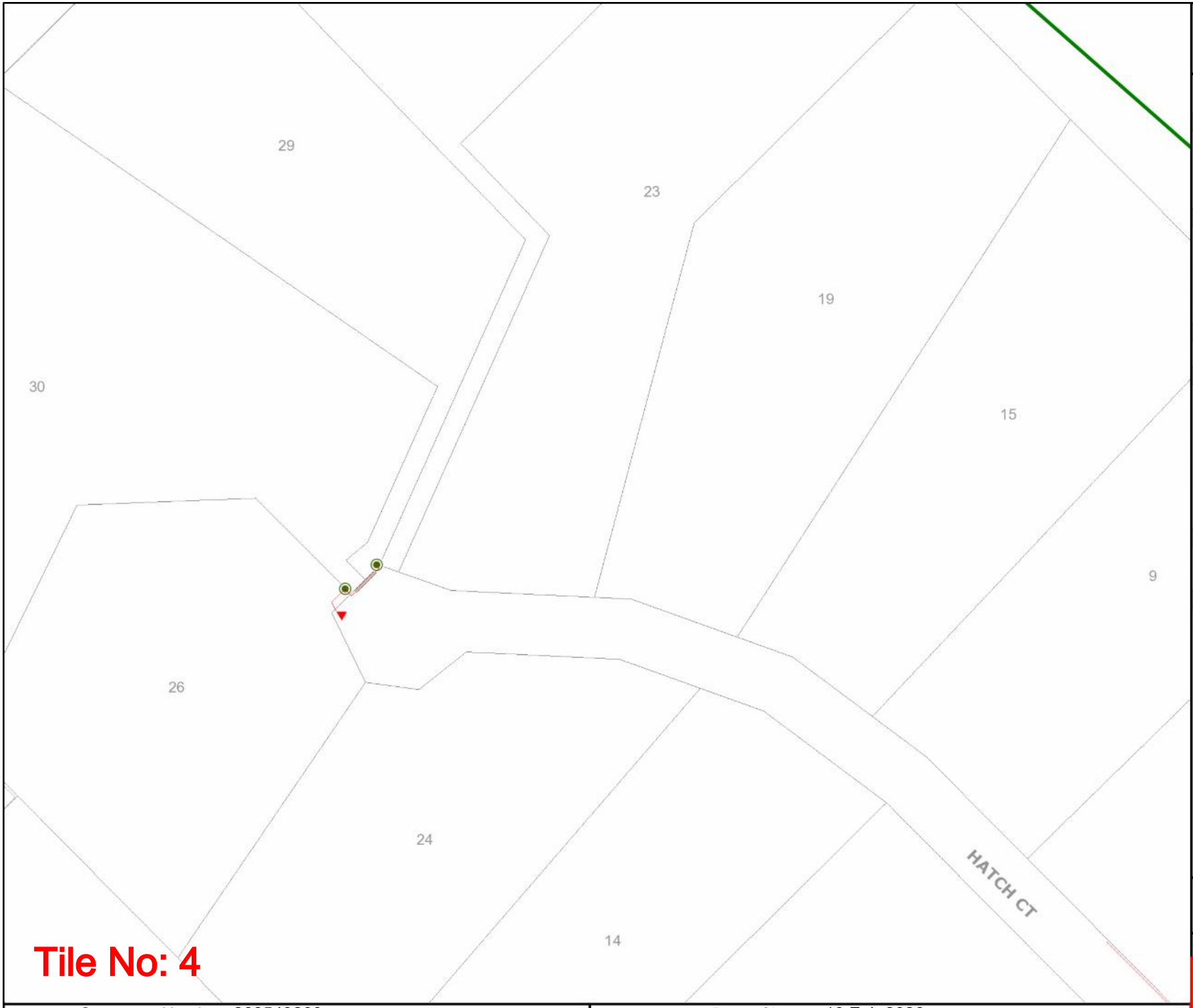
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Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



Tile No: 4

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

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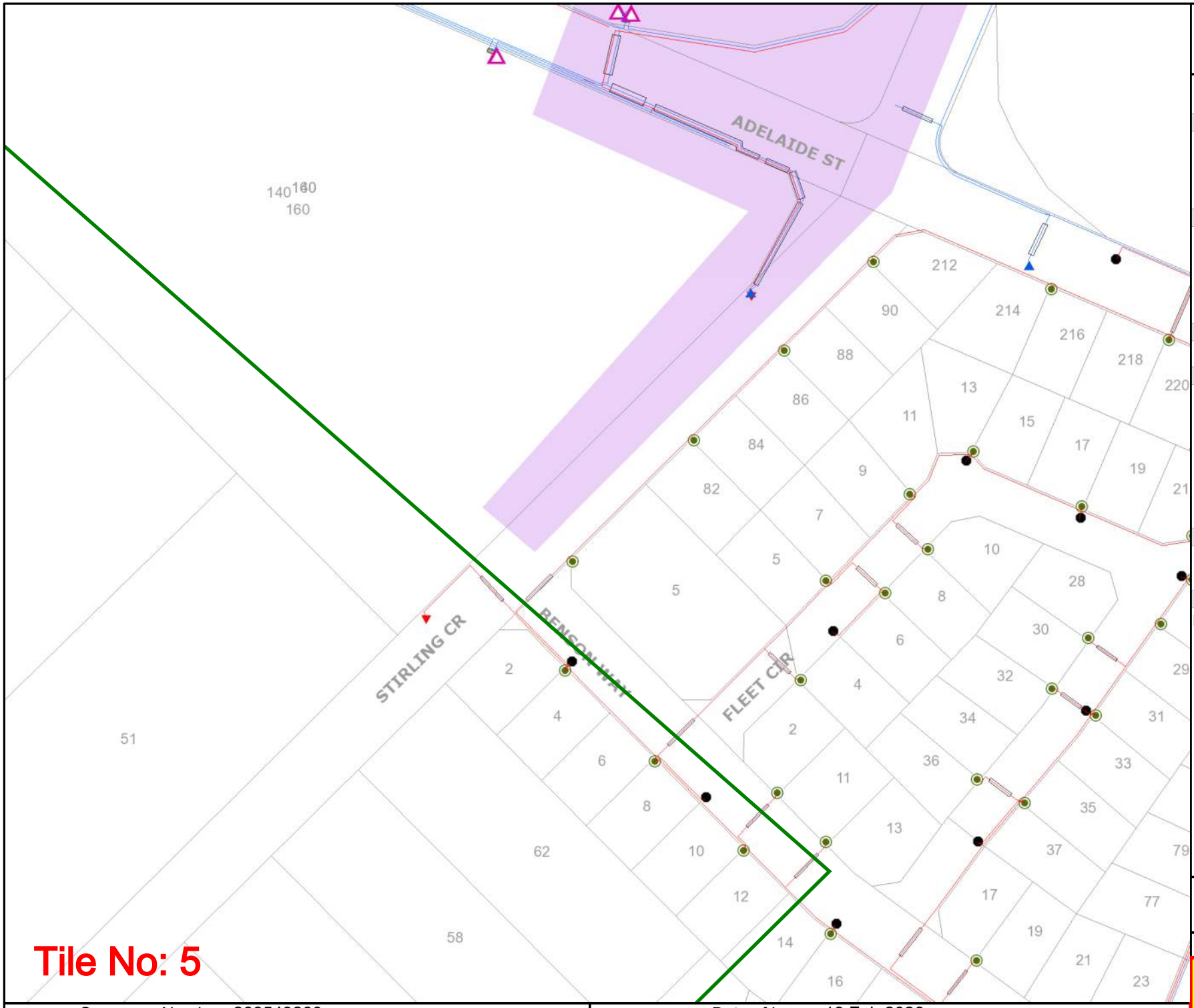
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



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UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

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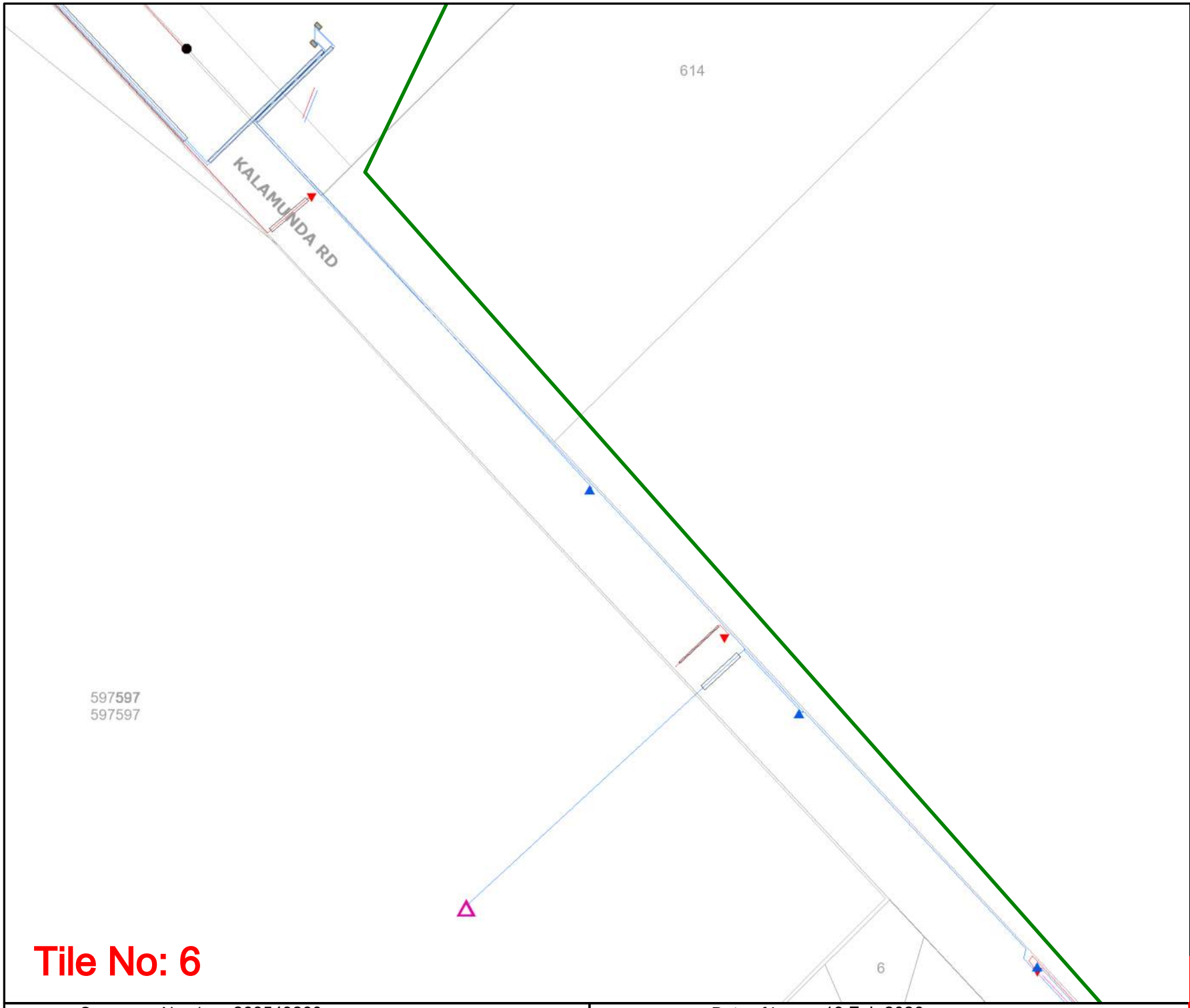
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WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 6

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

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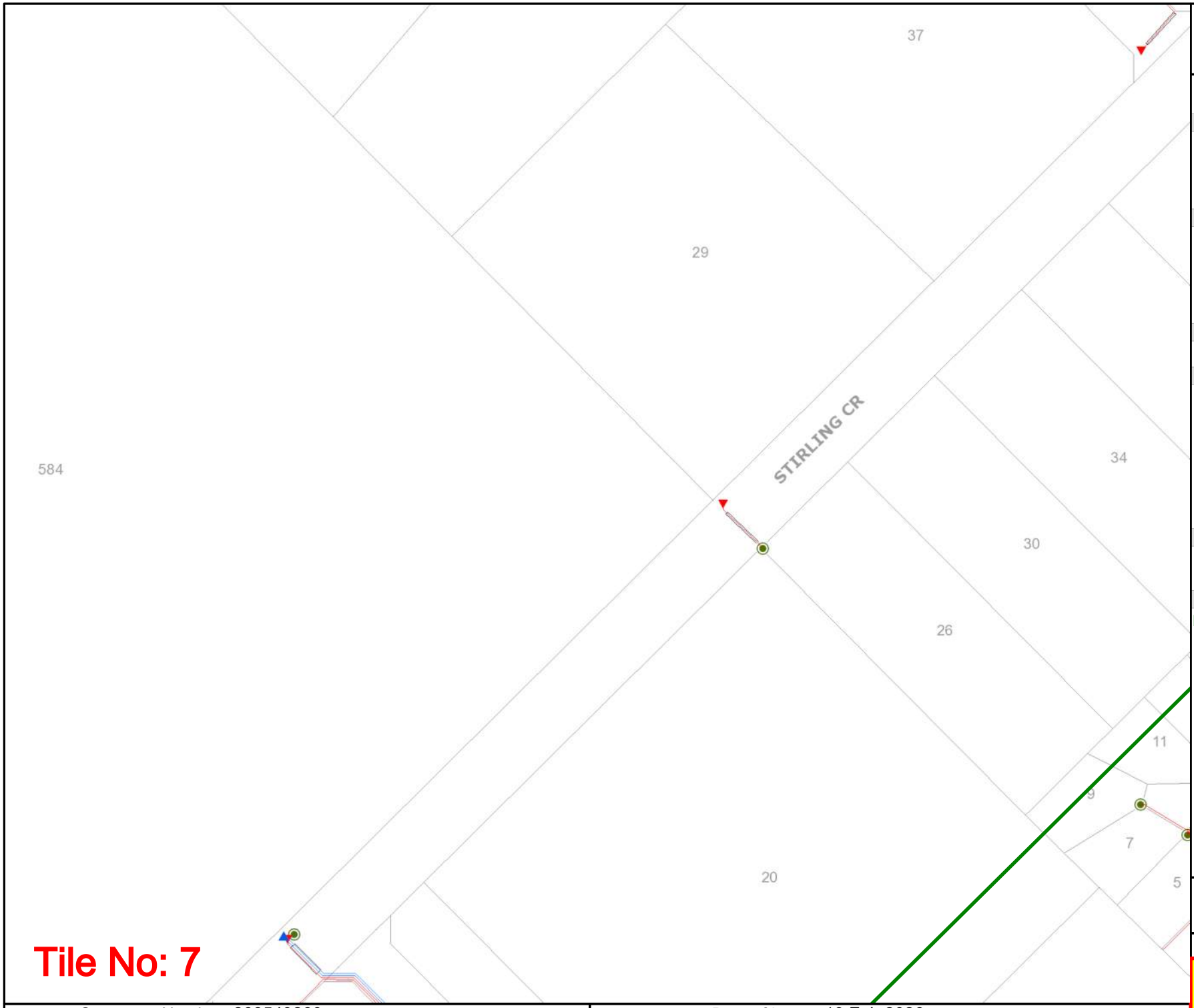
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 7

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

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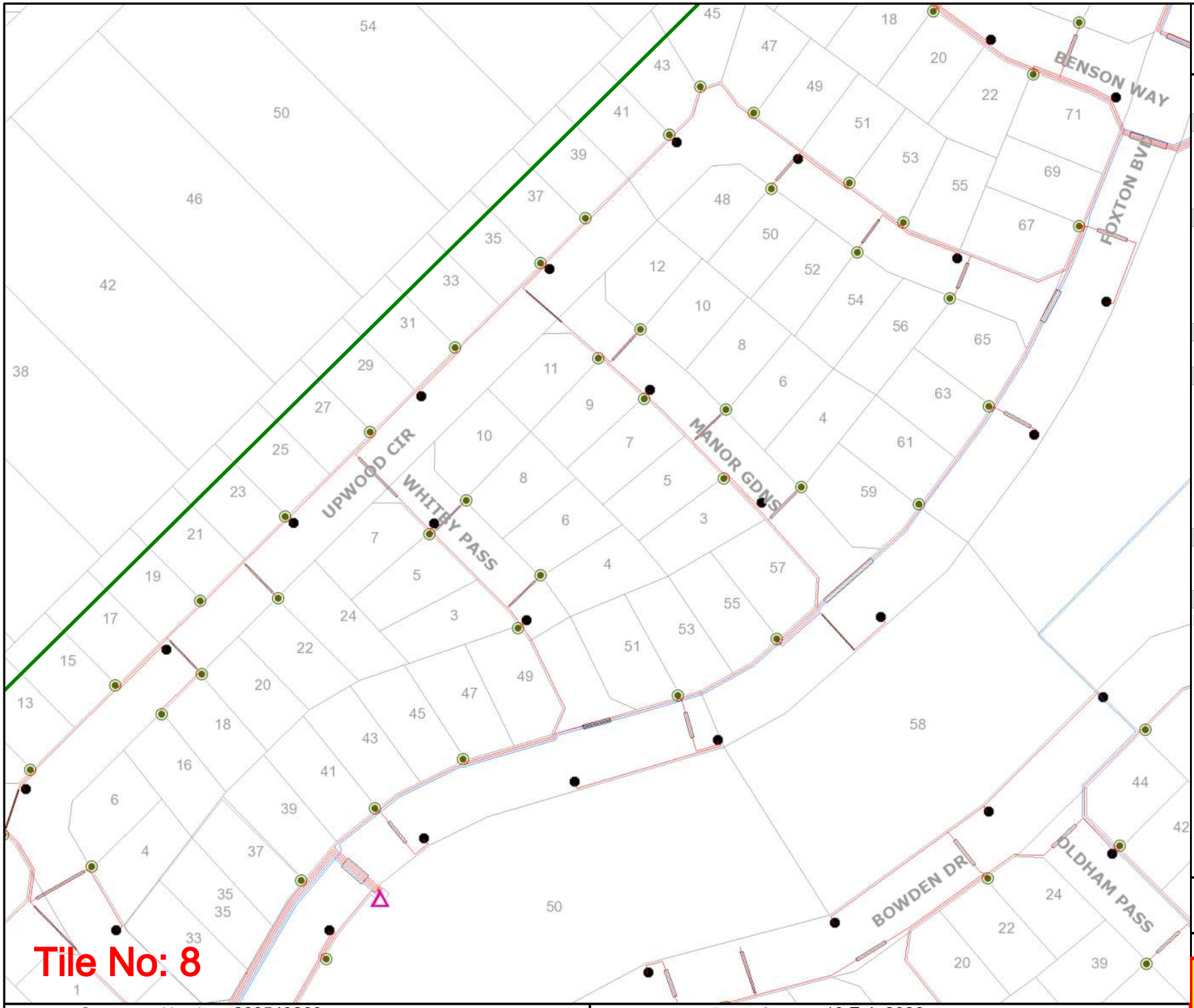
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 8

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Hand exposure via pothole method is MANDATORY.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

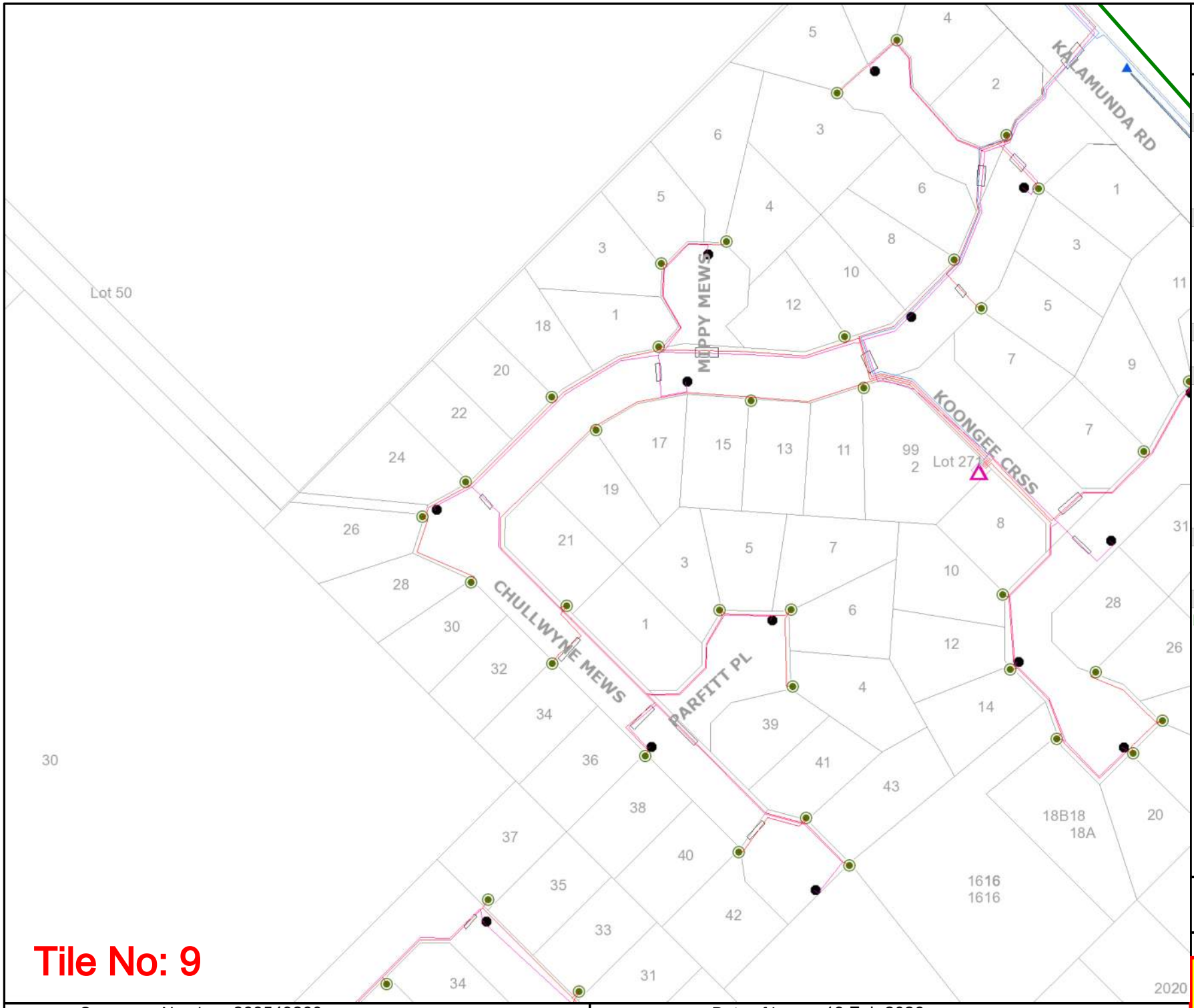
Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 9

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

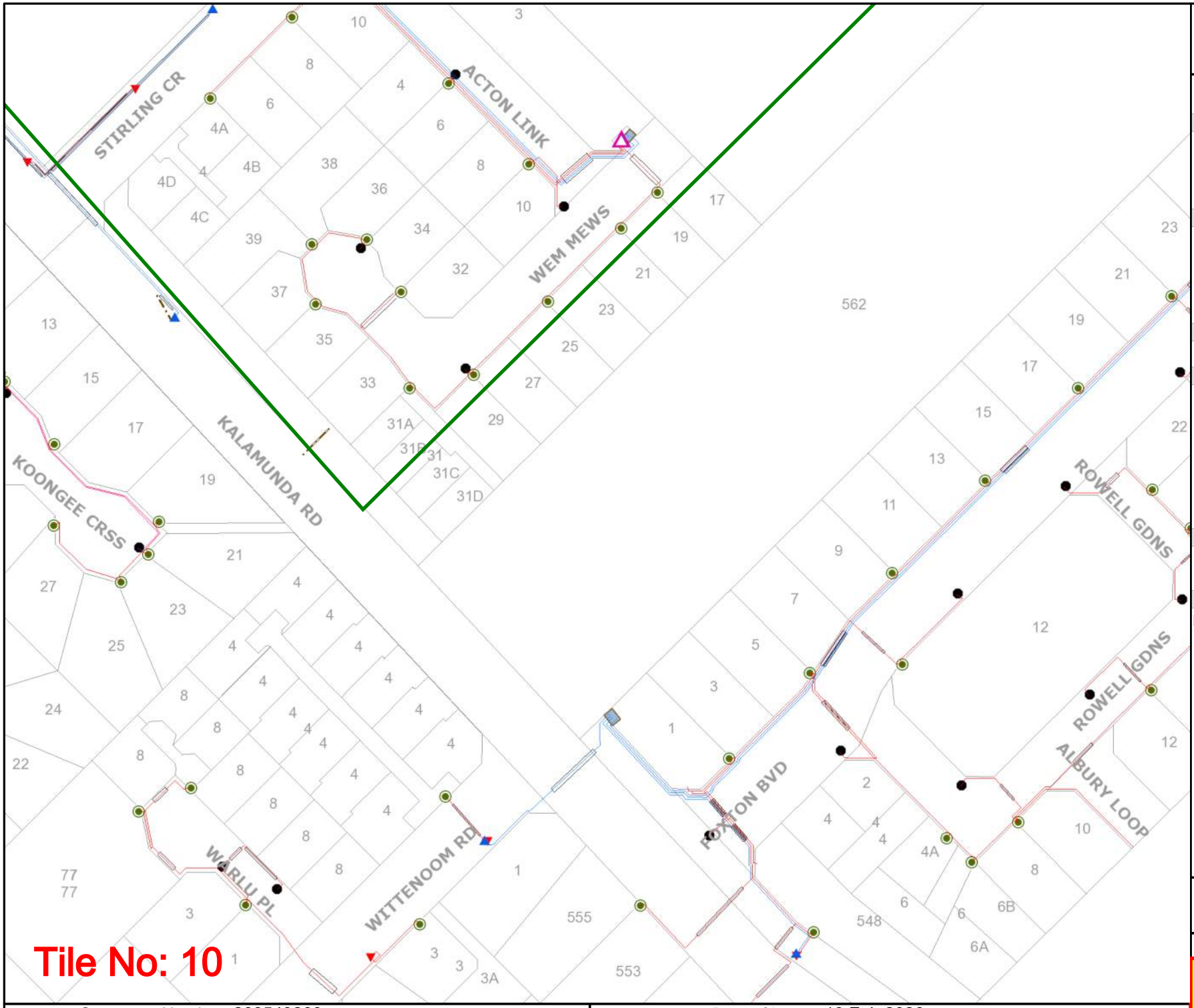
This map is INDICATIVE ONLY. Hand exposure via pothole method is MANDATORY.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



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UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Hand exposure via pothole method is MANDATORY.

Telephone Support: 1300 769 345
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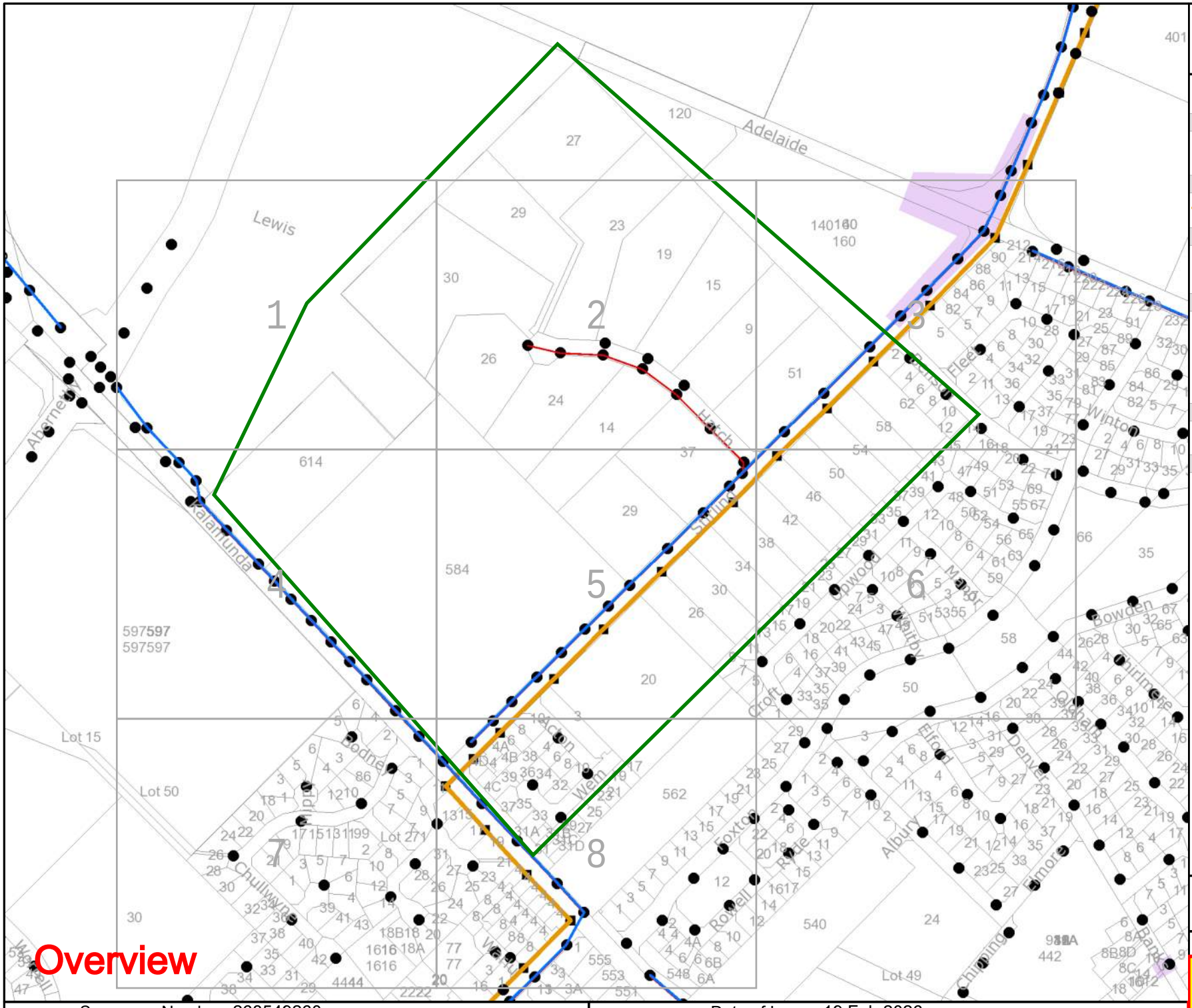
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
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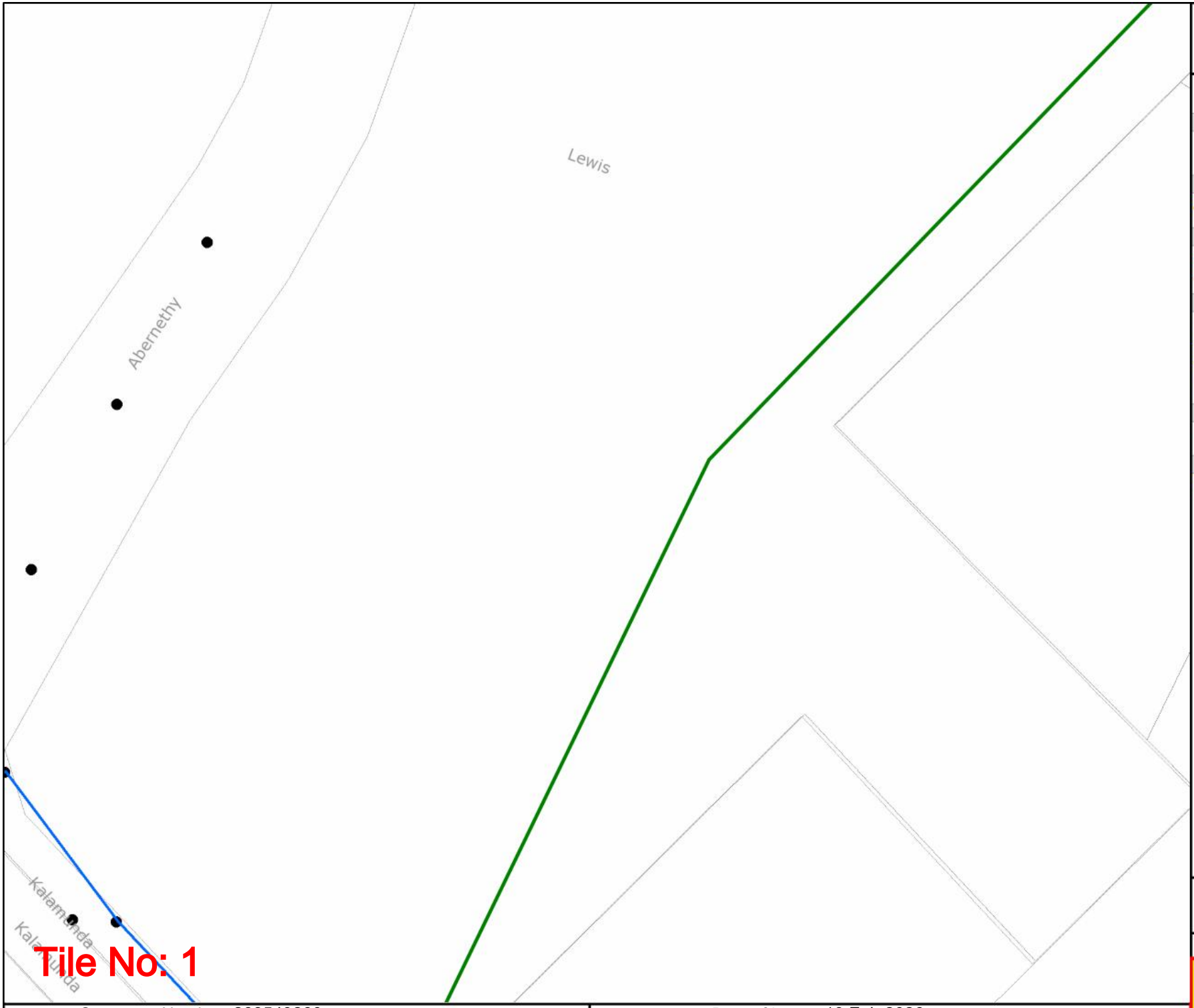
Information valid for 30 days from date of issue

A4 | Scale : 1:5546

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 1

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
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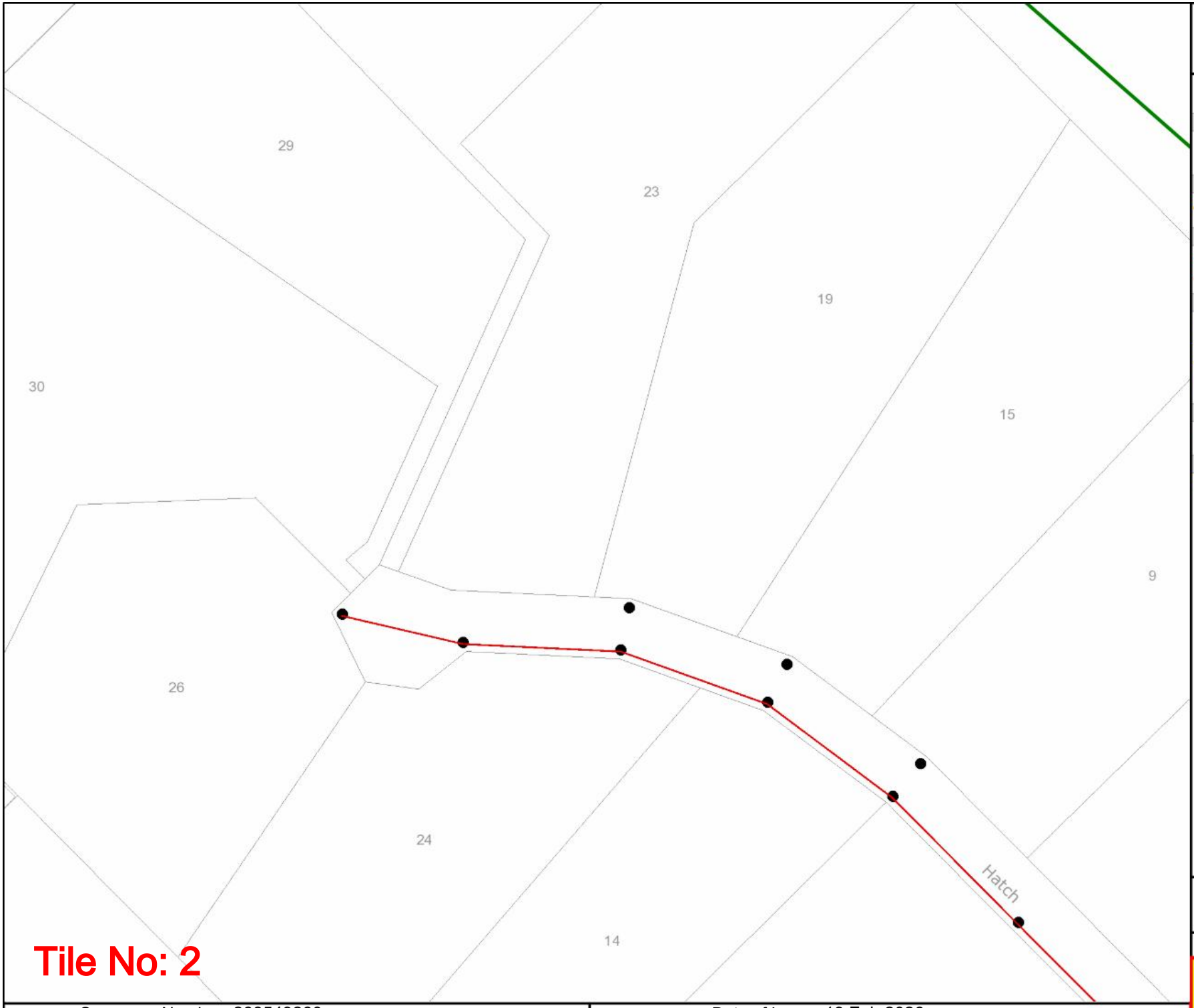
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 2

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

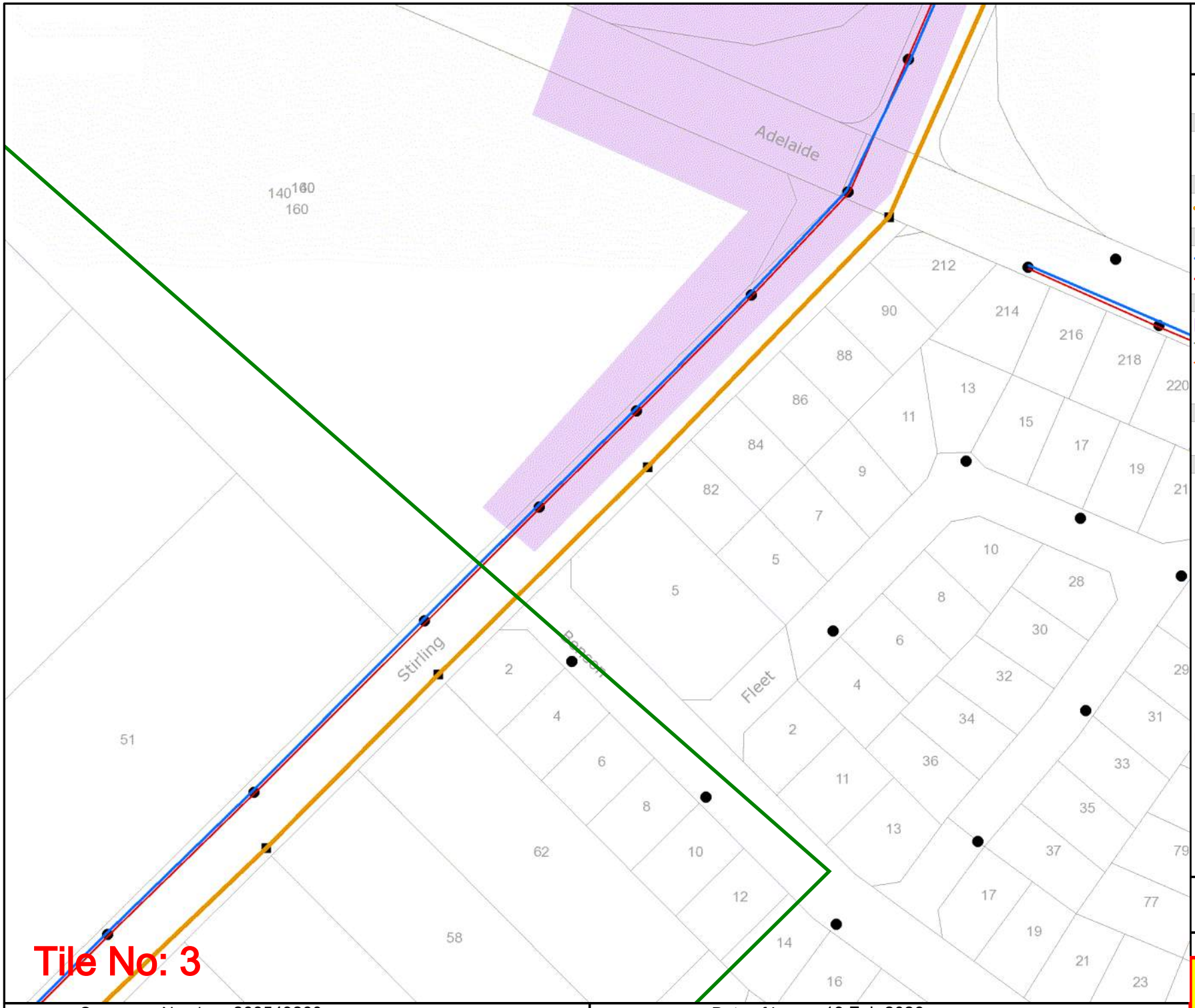
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

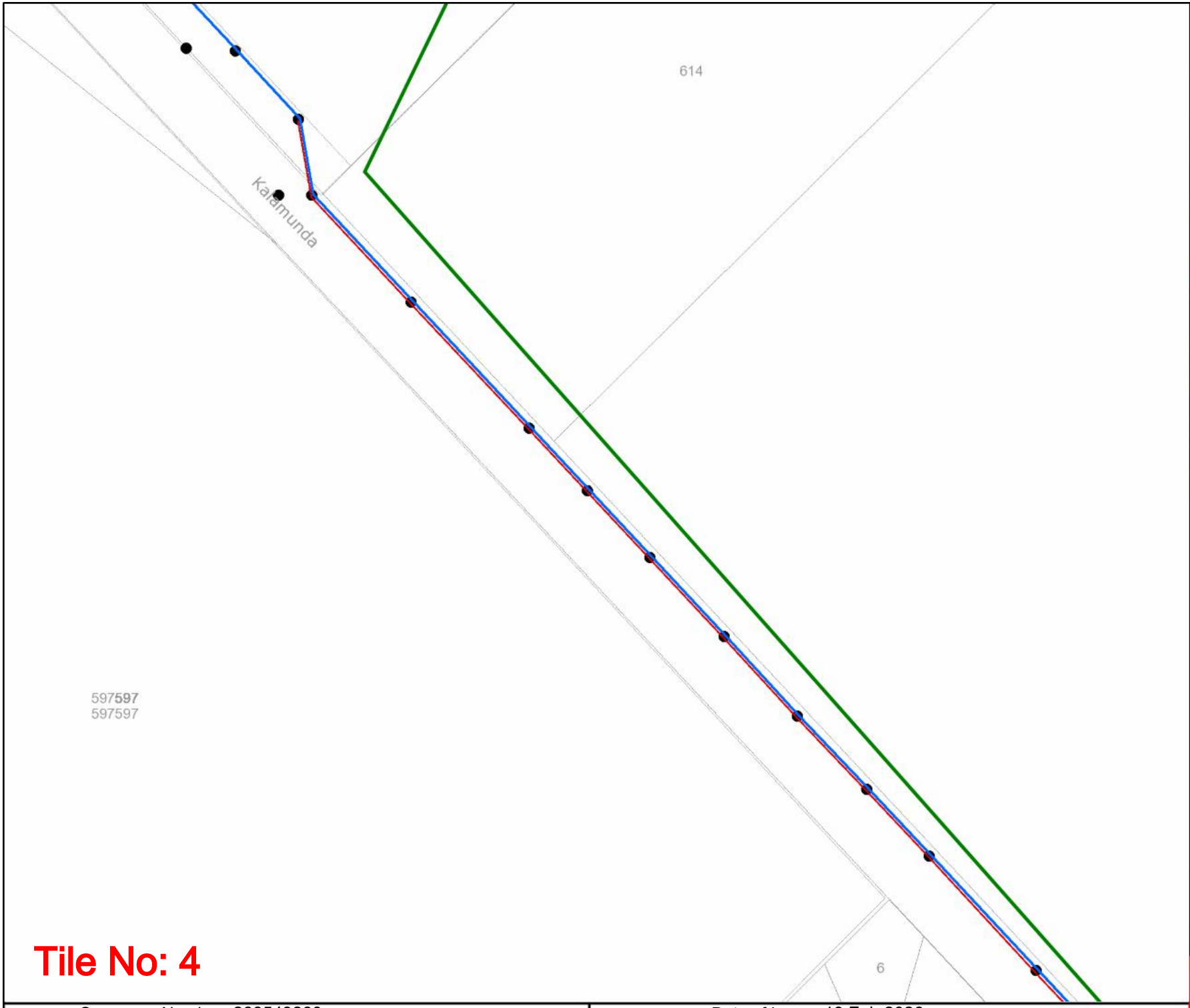
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 4

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

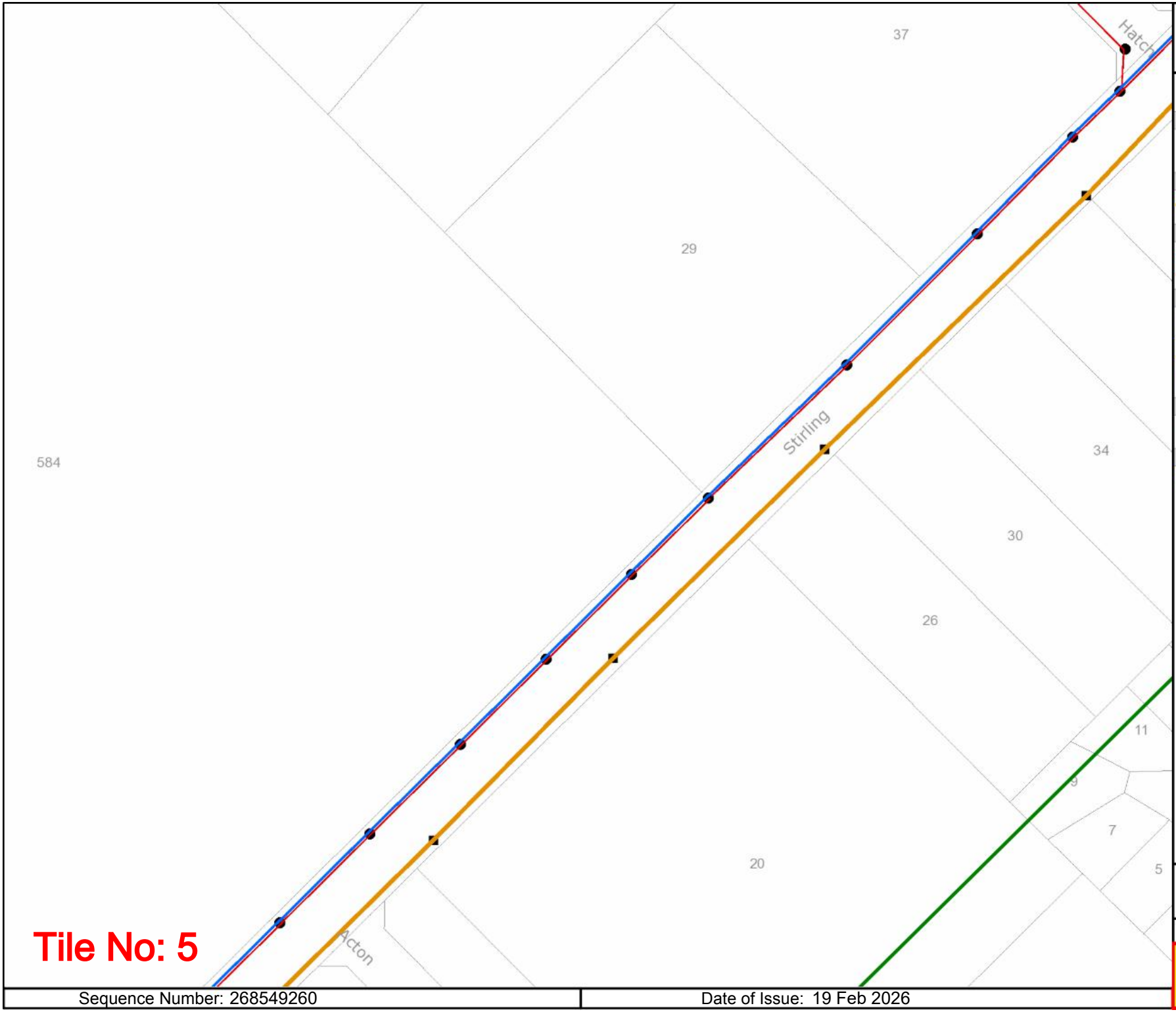
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

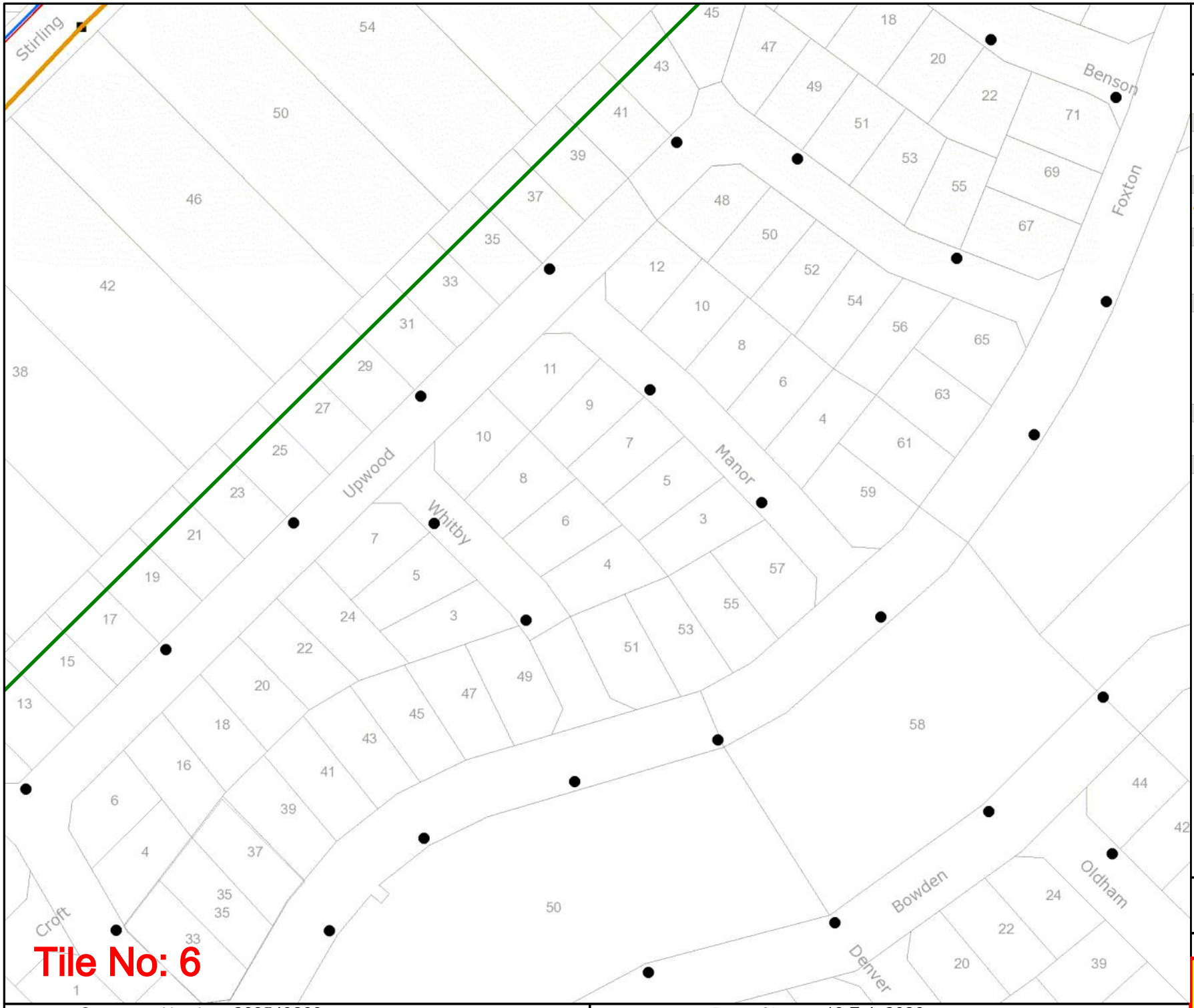
A4 | Scale : 1:1500

WARNING! Look out for overhead power lines

Tile No: 5

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 6

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

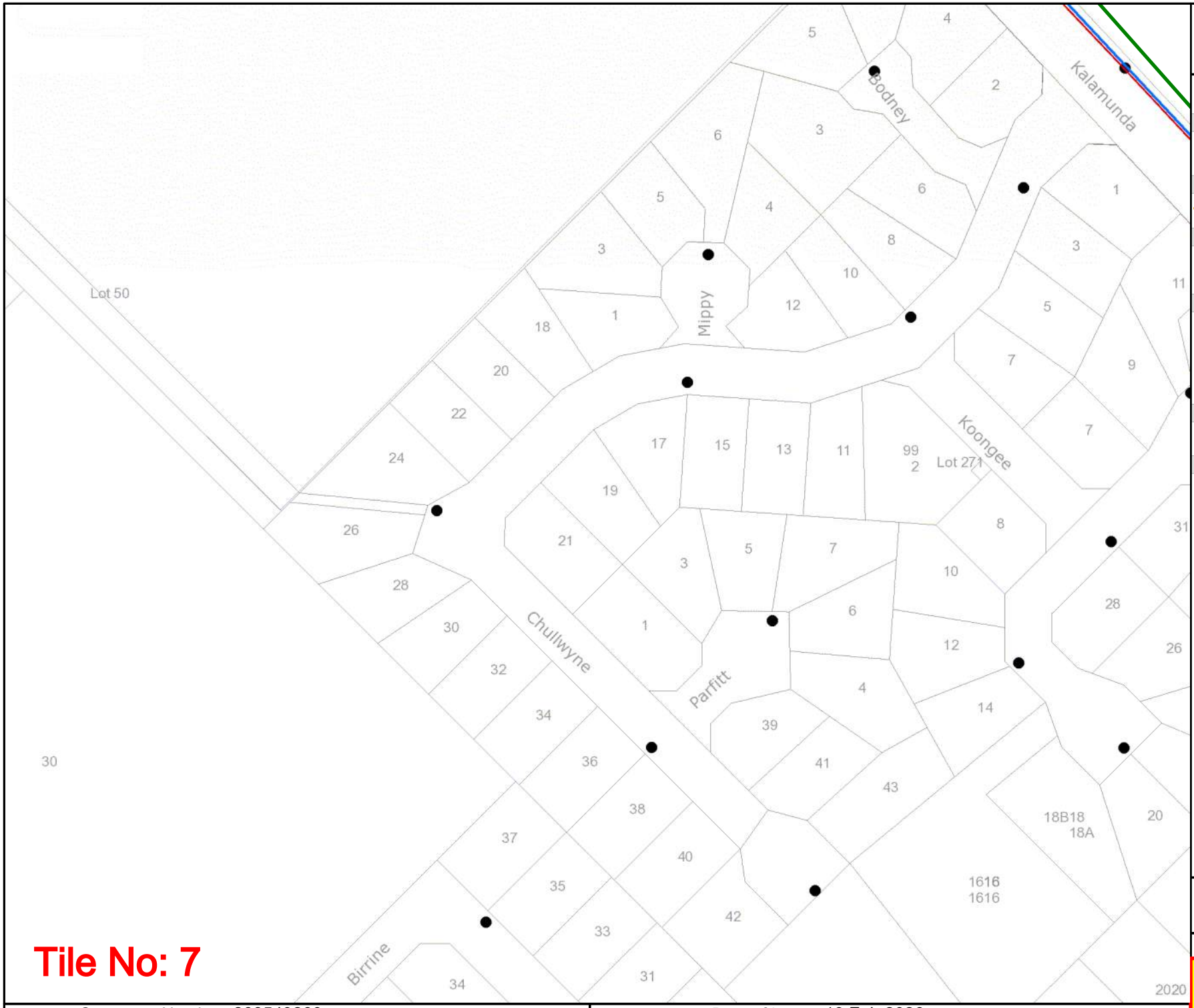
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 7

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

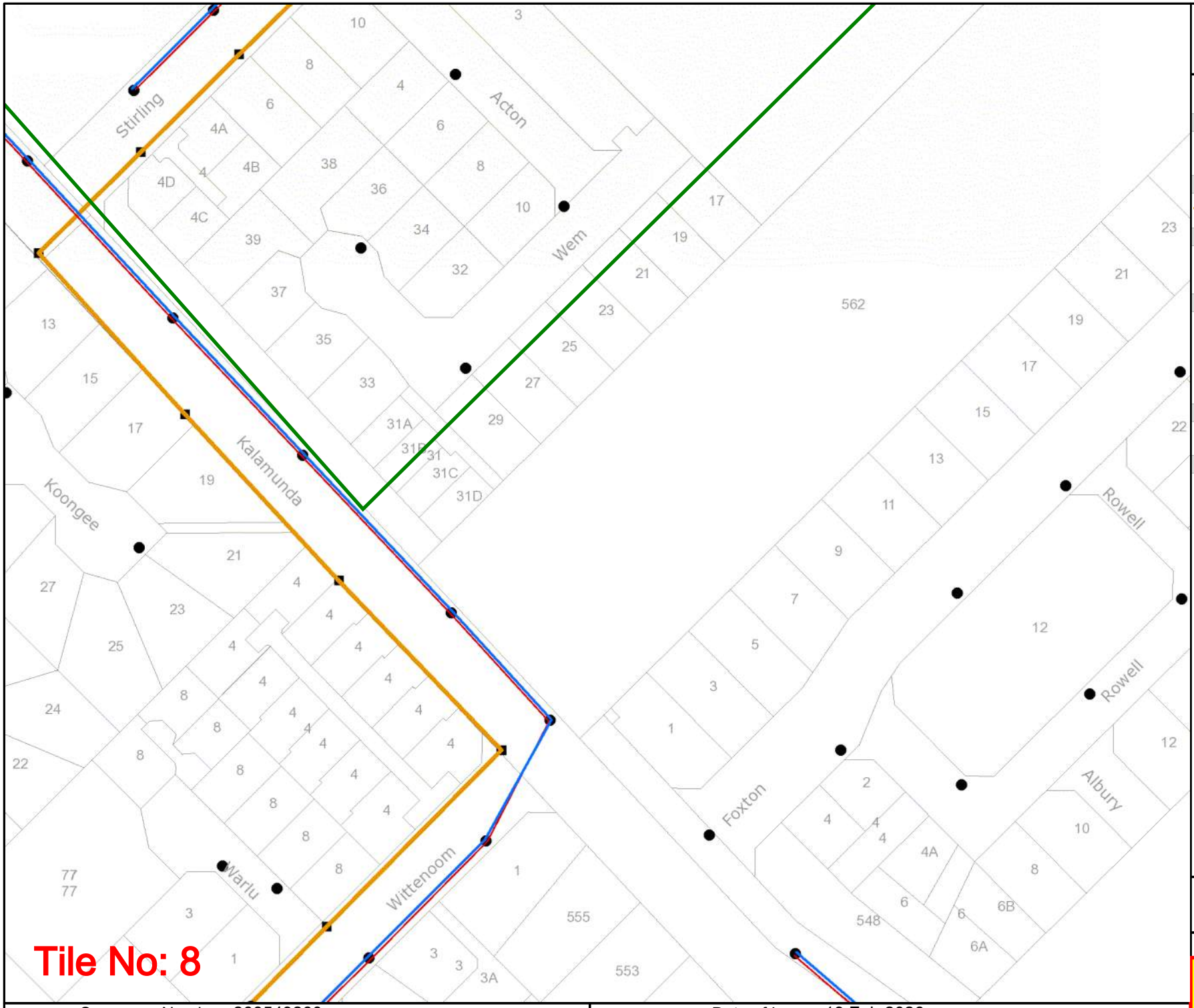
This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

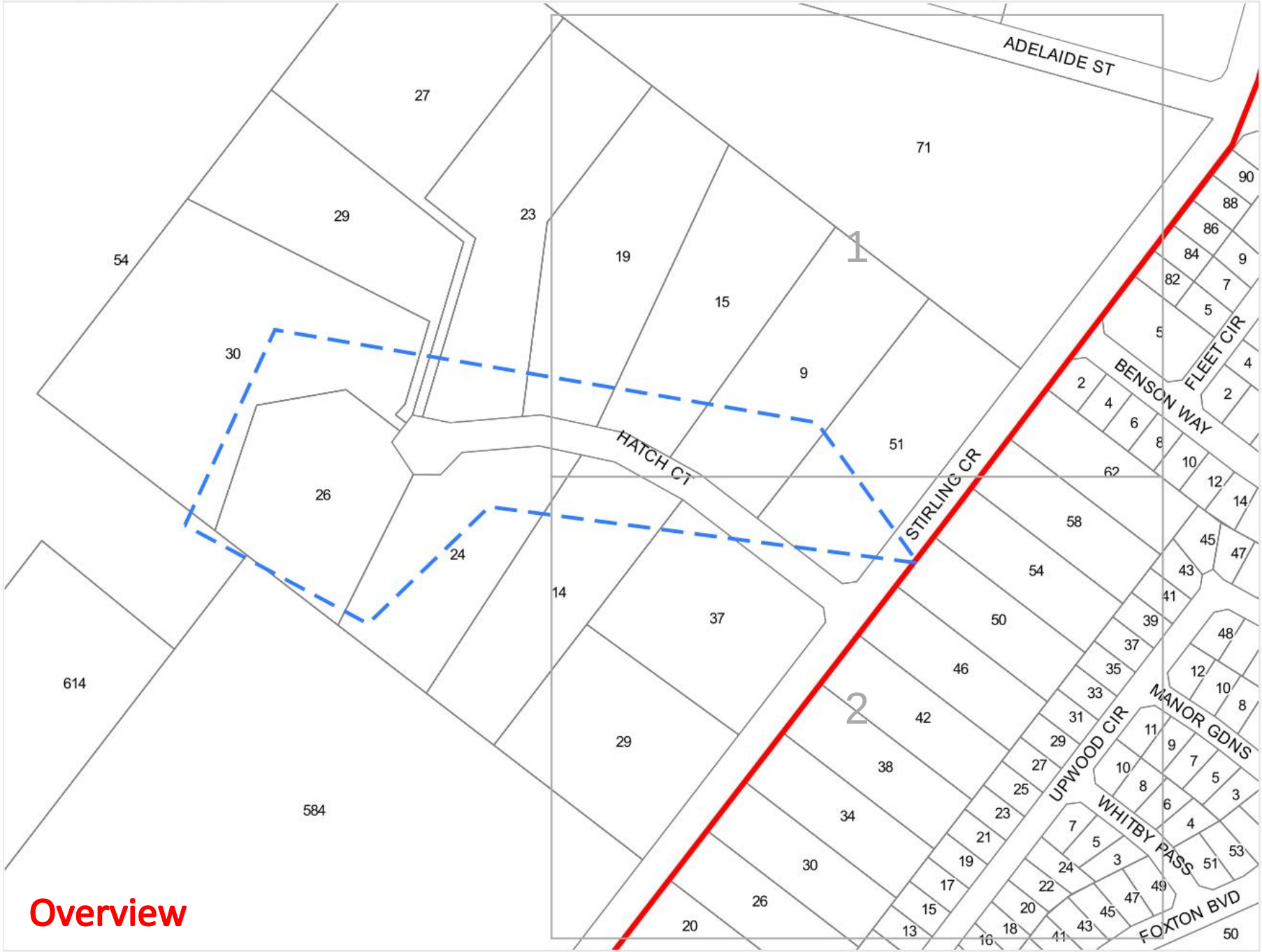
Sequence Number: 268549260

Date of Issue: 19 Feb 2026

aarnet
Australia's Academic and Research Network

Sequence No: 268596027
Job No: 52433030
Location: 24 Hatch Court, High Wycombe, WA 6057

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Legend

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

N

Scale: 1:3075
Expires: 20 Mar 2026

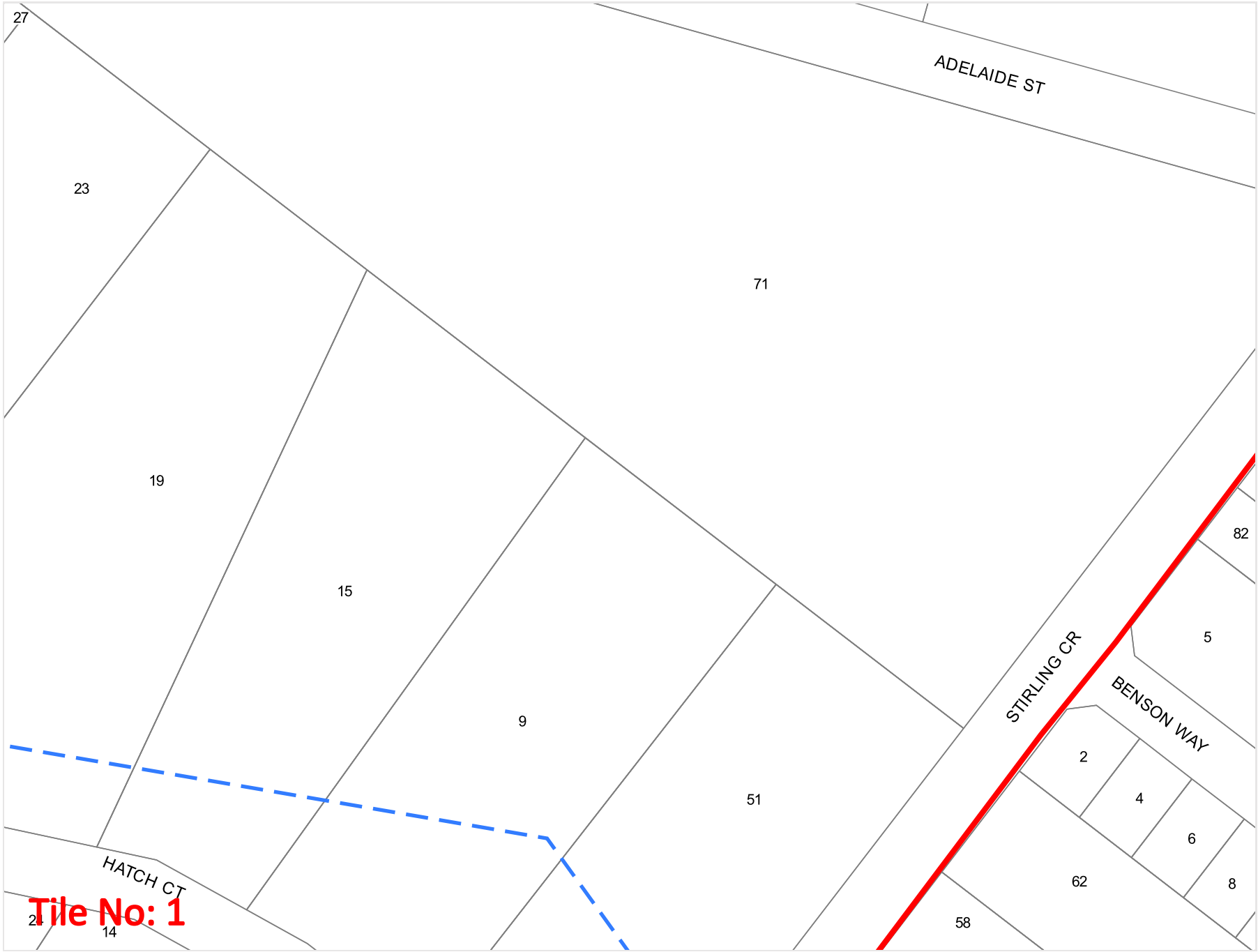
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Overview

aarnet
Australia's Academic and Research Network

Sequence No: 268596027
Job No: 52433030
Location: 24 Hatch Court, High Wycombe, WA 6057

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Legend

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

N

Scale: 1:1500
Expires: 20 Mar 2026

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

aarnet
Australia's Academic and Research Network

Sequence No: 268596027
Job No: 52433030
Location: 24 Hatch Court, High Wycombe, WA 6057

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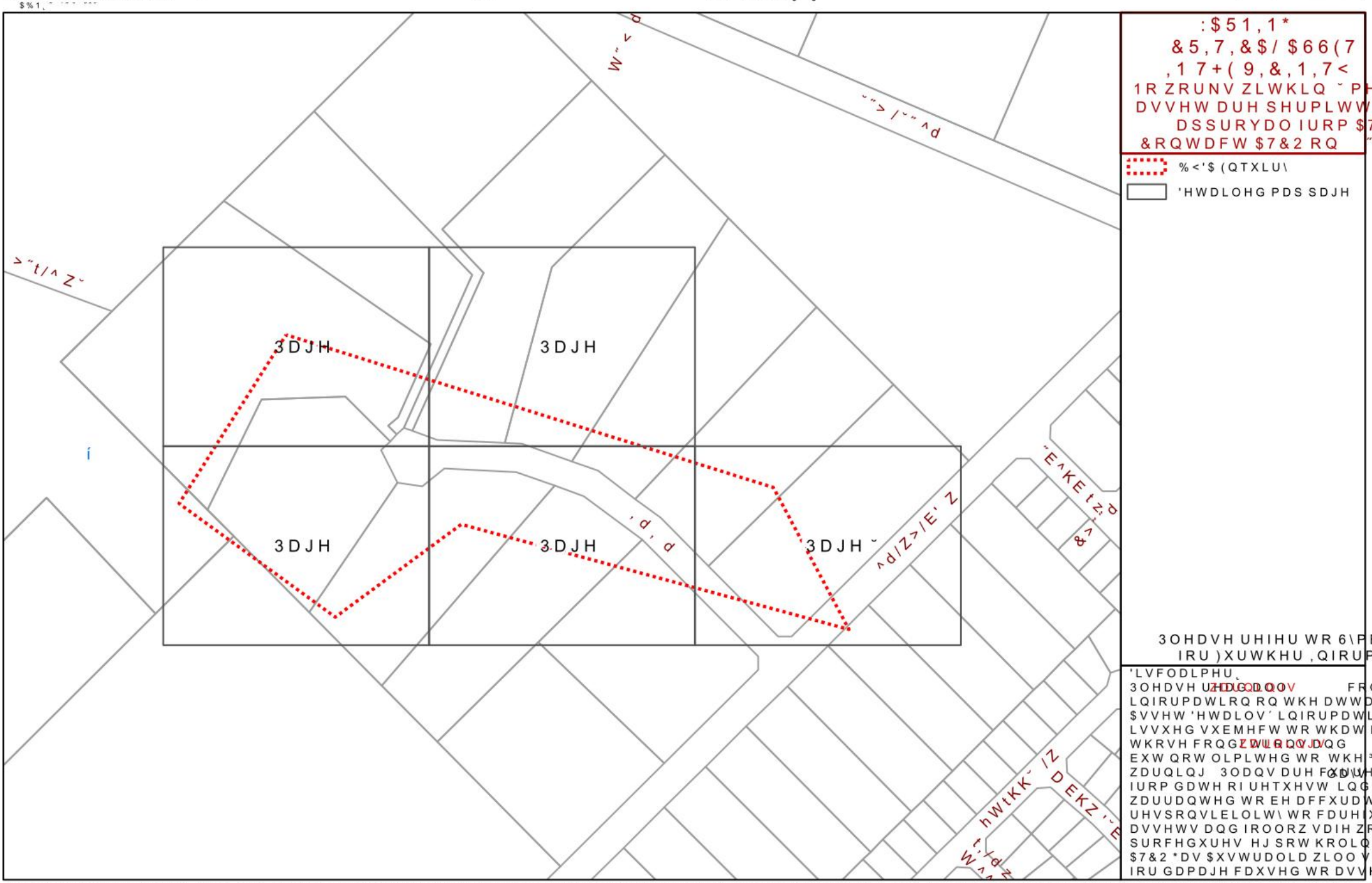
Legend

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

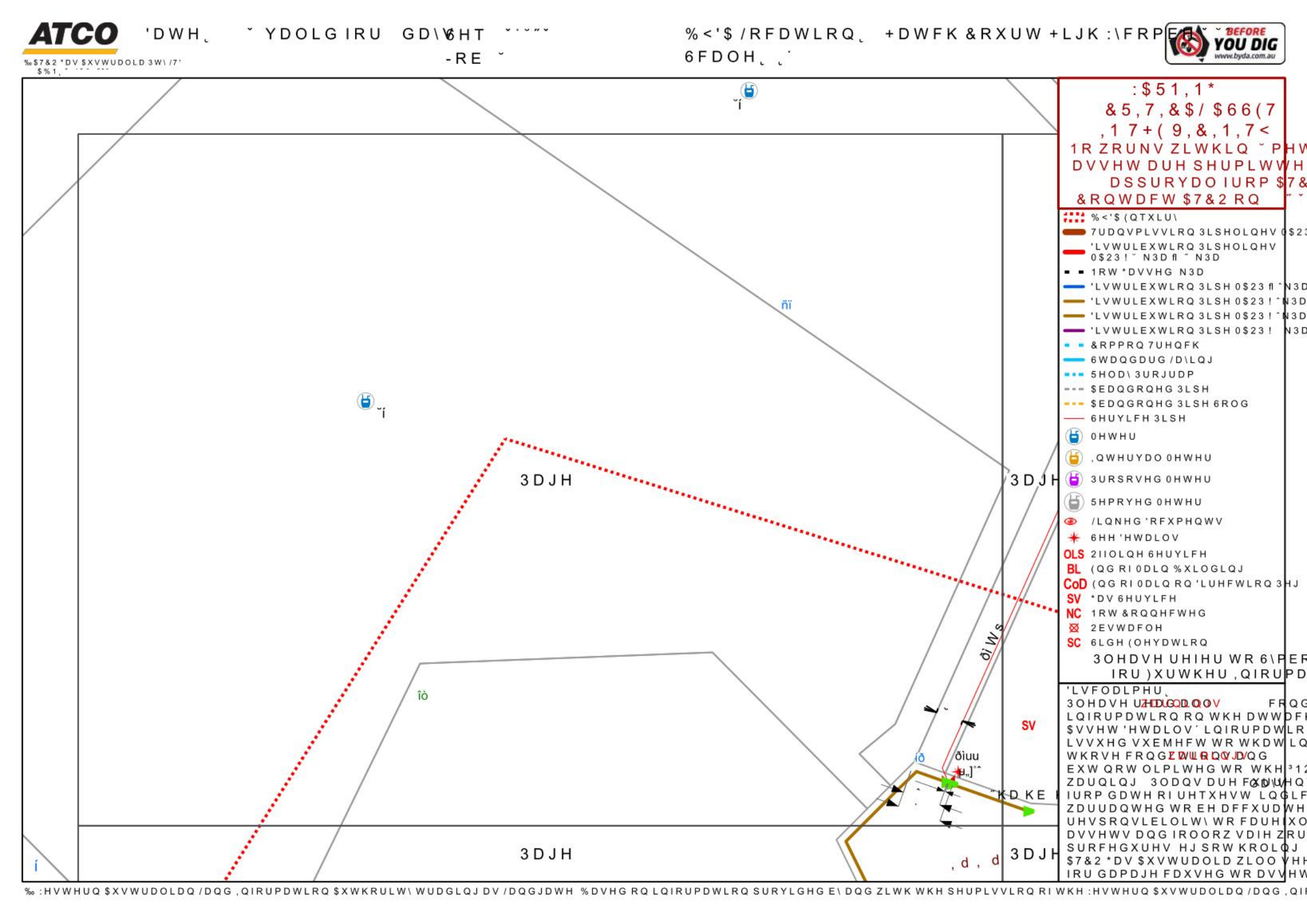
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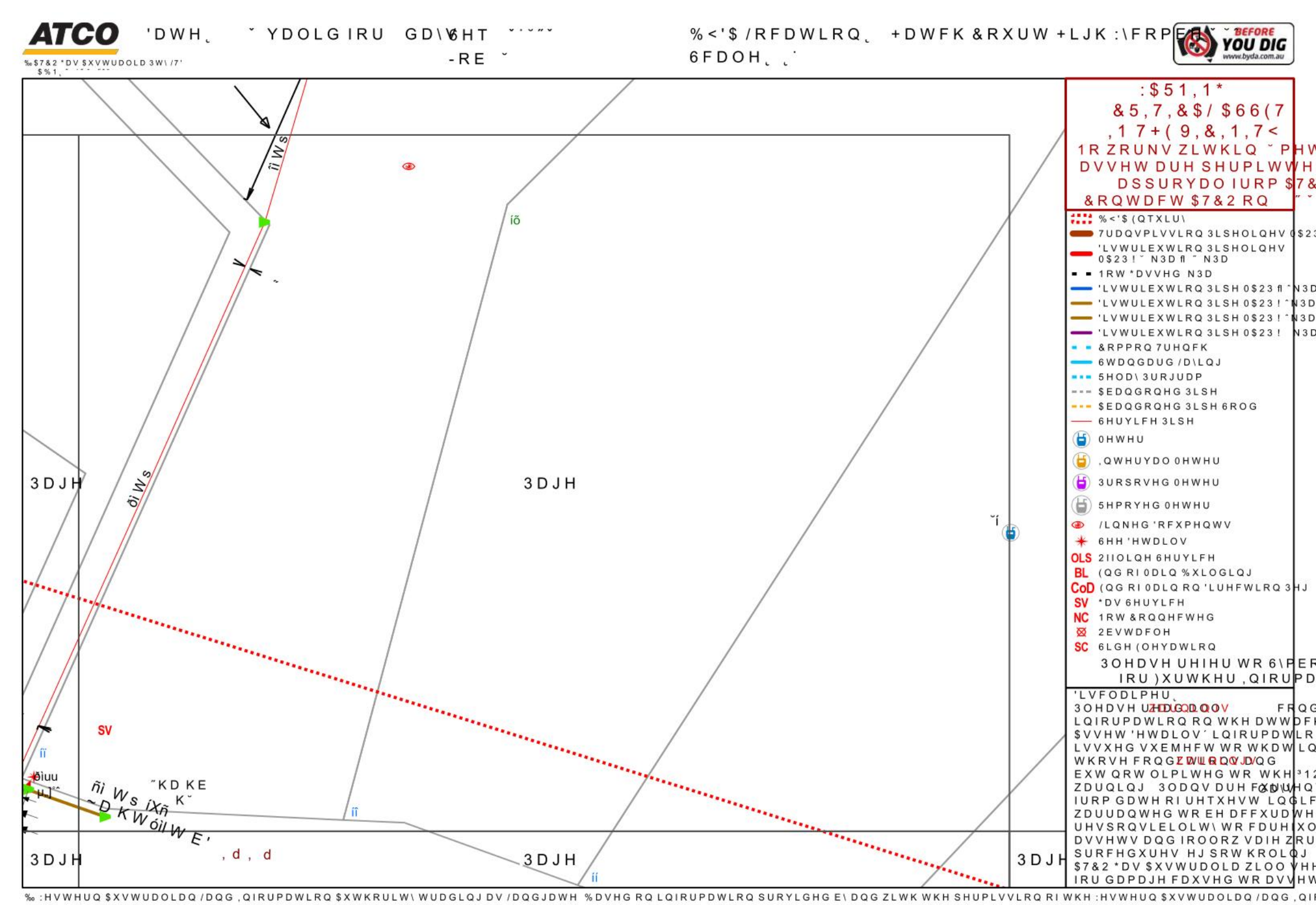
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Expires: 20 Mar 2026

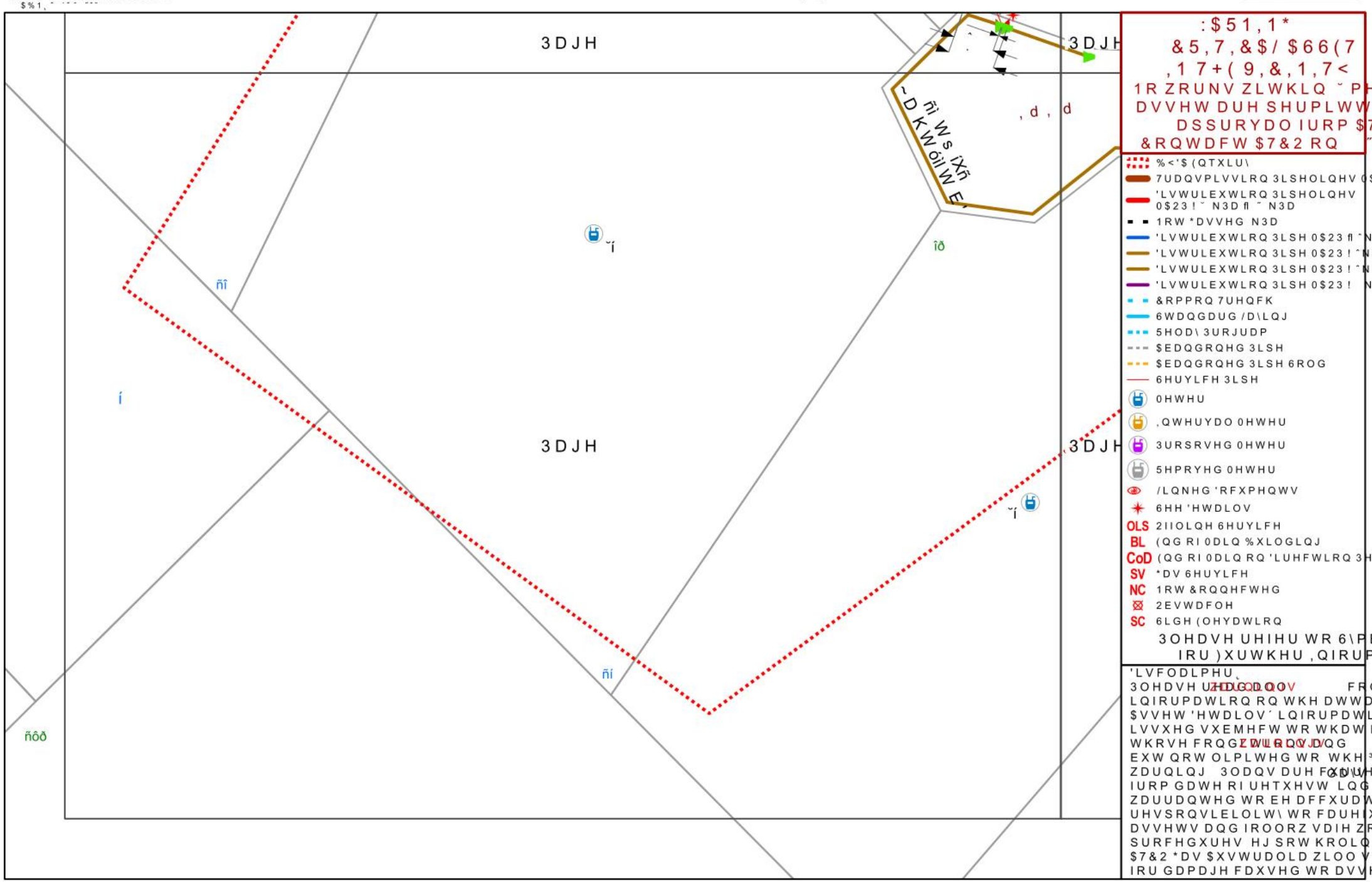
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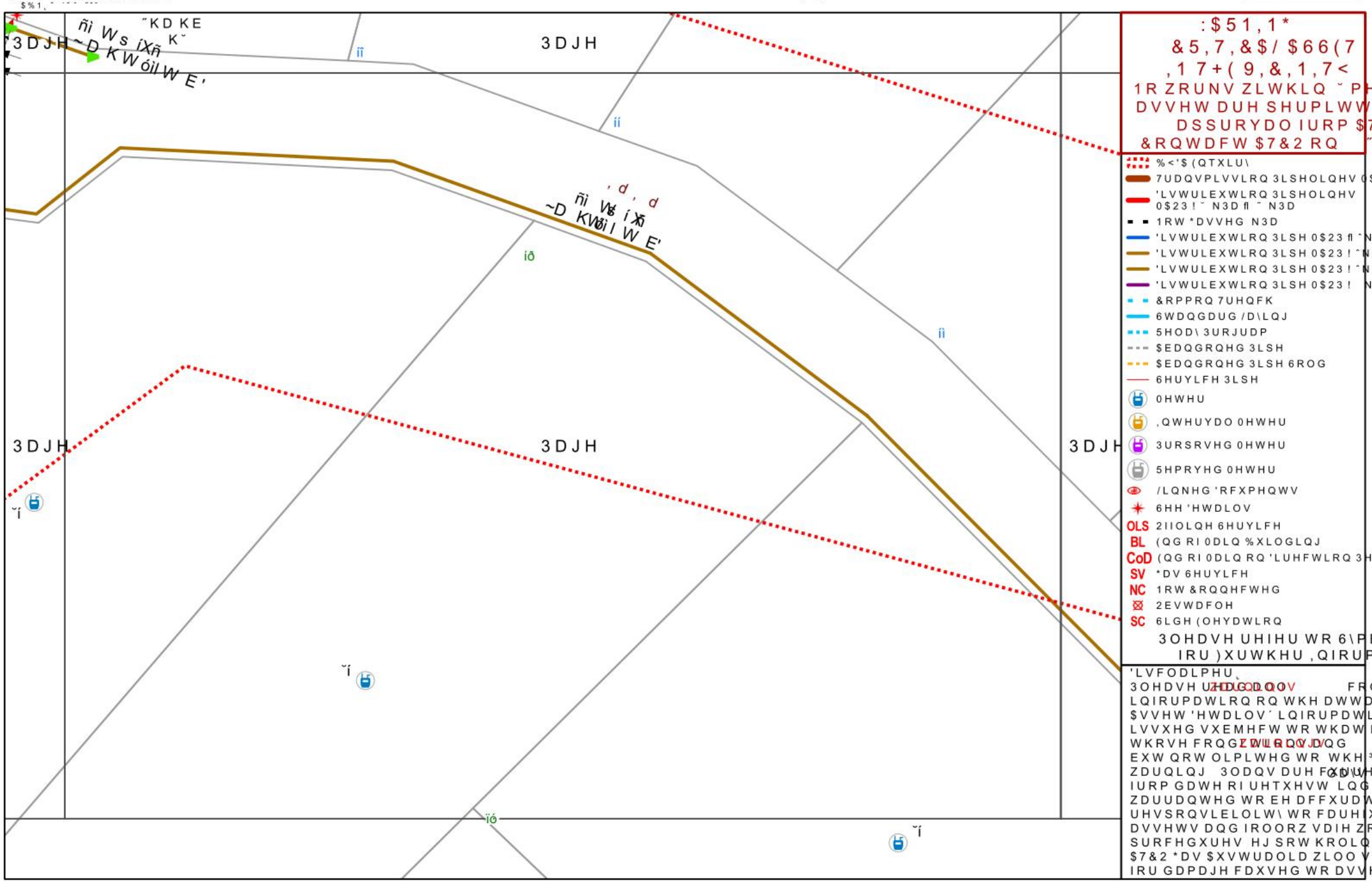
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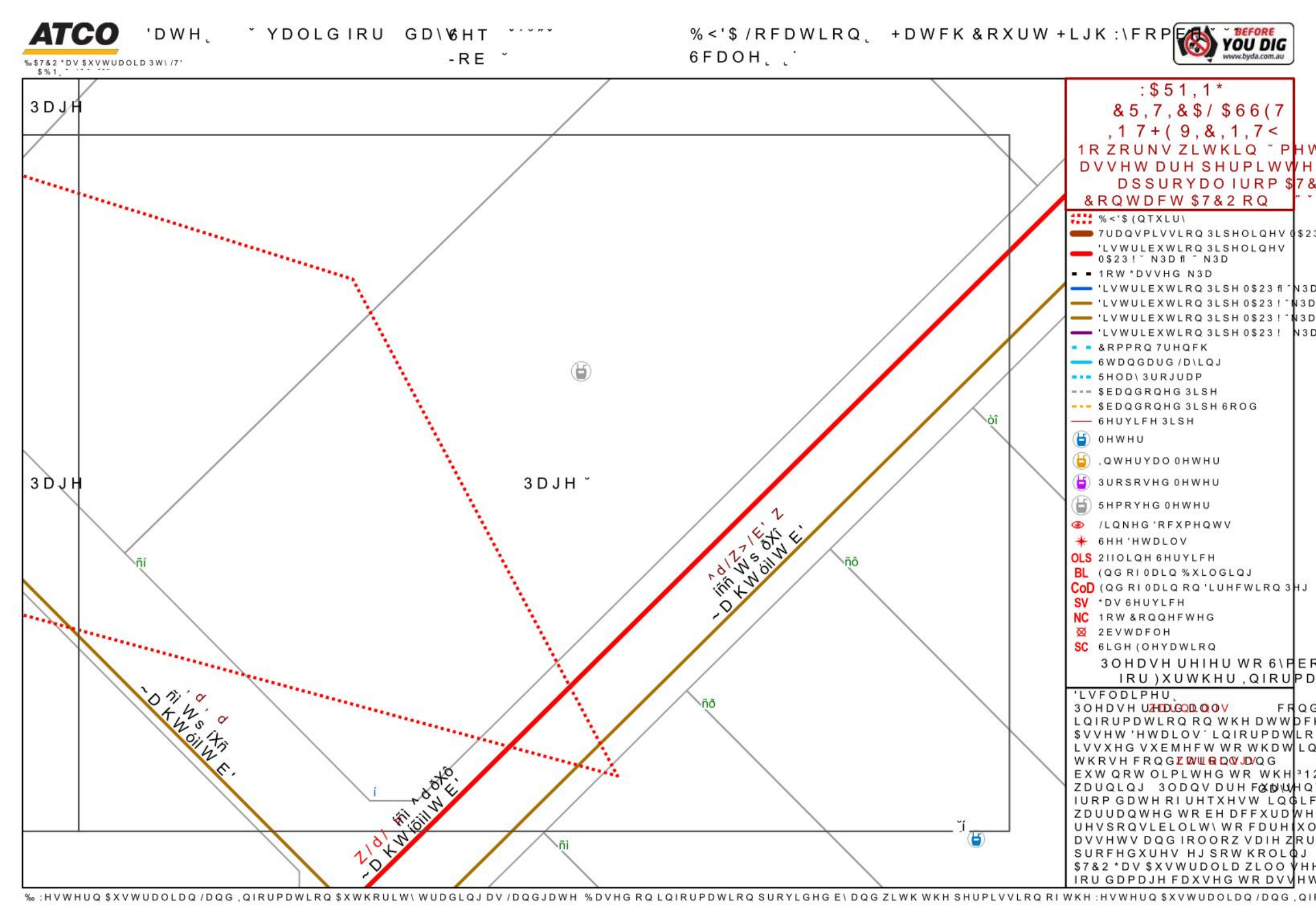

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EXW QRW OLPLWHG WR WKH ³1
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ZDUUDQWHG WR EH DFFXUDWH
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DVVHWV DQG IROORZ VDIH ZRU
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WKRVH FRQGLWLRQV
EXW QRW OLPLWHG WR WKH ³1
ZDUQLQJ 3ODQV DUH FXUUHQ
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‰:HVWHUQ$XVWUDOLDQ/DQG,QIRUPDWLRQ$XWKRULW\WUDGLQJDV/DQGJDWH%DVHGRQLQIRUPDWLRQSURYLGHGE\DQGZLWKWKHSHUPLVVLRQRI WKH:HVWHUQ$XVWUDOLDQ/DQG,QI

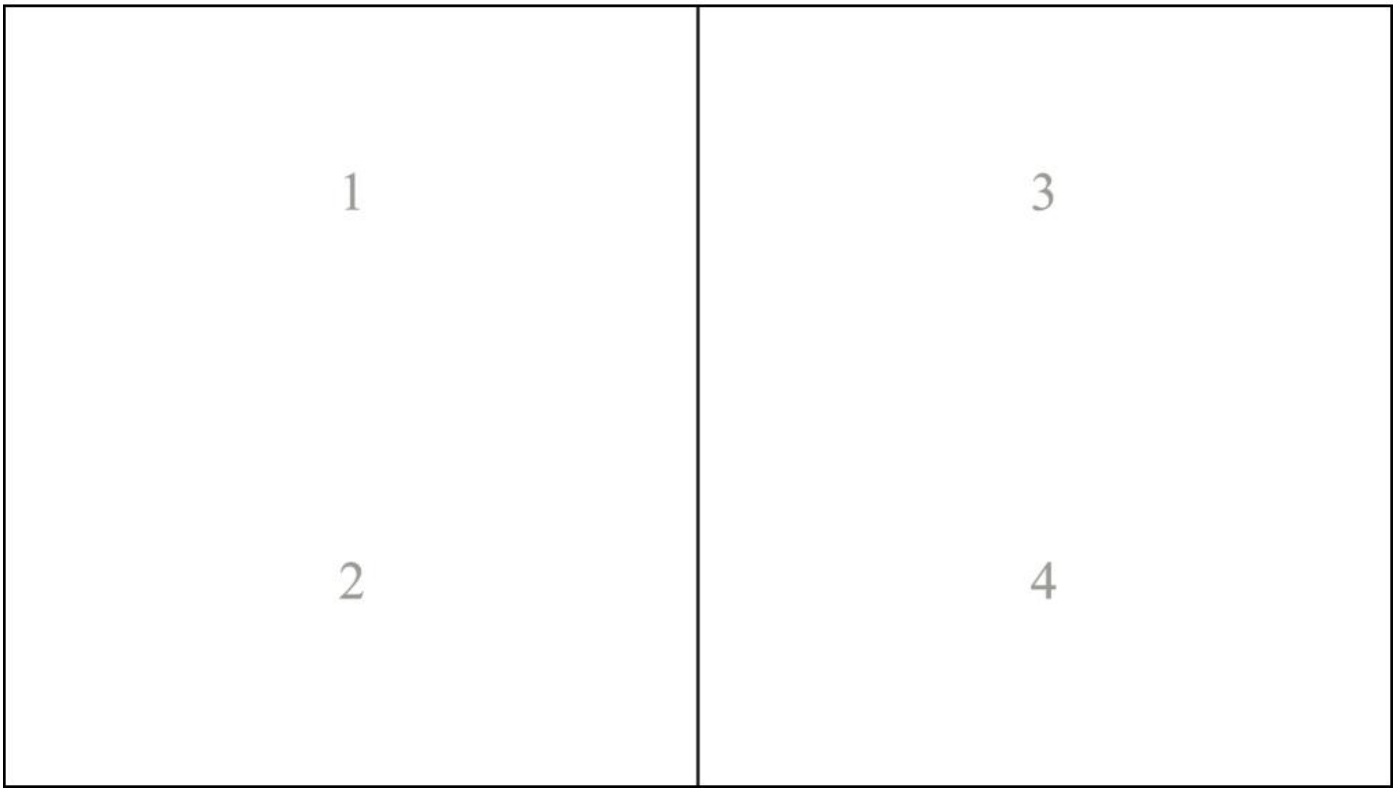

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ZDUQLQJ 3ODQV DUH FXUUHQ
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,QWHUYDO 0HWHU
3URSRVHG 0HWHU
5HPRYHG 0HWHU
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6HH 'HWDLOV
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BL (QG RI 0DLQ %XLOGLQJ
CoD (QG RI 0DLQ RQ 'LUHFWLRQ 3HJ
SV *DV 6HUYLFH
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'LVFODLPHU
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LQIRUPDWLRQ RQ WKH DWWDFK
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LVVXHG VXEMHFW WR WKDW LQ
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EXW QRW OLPLWHG WR WKH ³1
ZDUQLQJ 3ODQV DUH FXUUHQ
IURP GDWH RI UHTXHVW LQGLF
ZDUUDQWHG WR EH DFFXUDWH
UHVSRQVLELOLW\ WR FDUHIXO
DVVHWV DQG IROORZ VDIH ZRU
SURFHGXUHV HJ SRW KROLQJ
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To:	Dinura Ranatunga
Phone:	Not Supplied
Fax:	Not Supplied
Email:	dranatunga@peritas.au

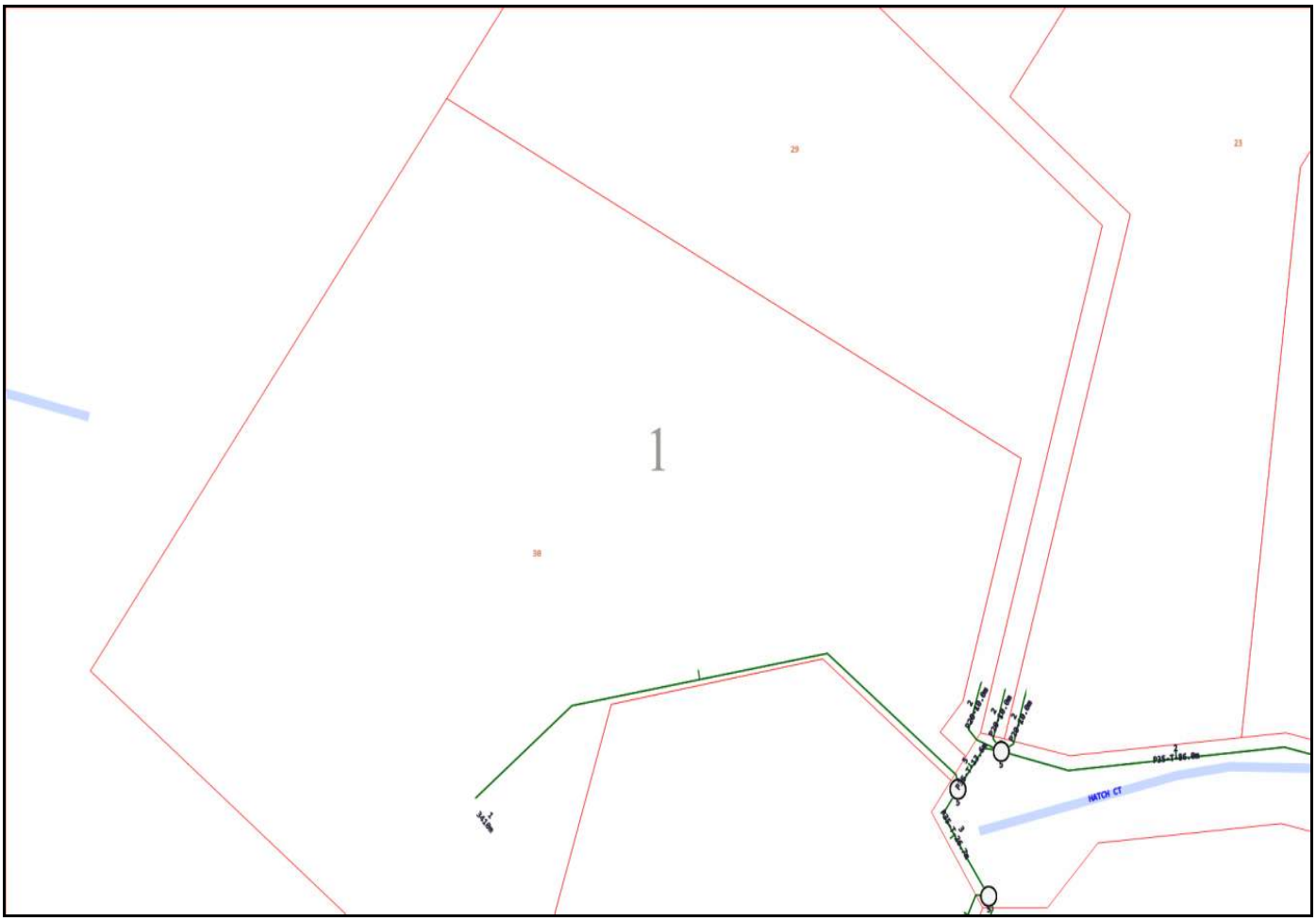
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Sequence #	268596021
Issue Date:	20/02/2026
Location:	24 Hatch Court , High Wycombe , WA , 6057

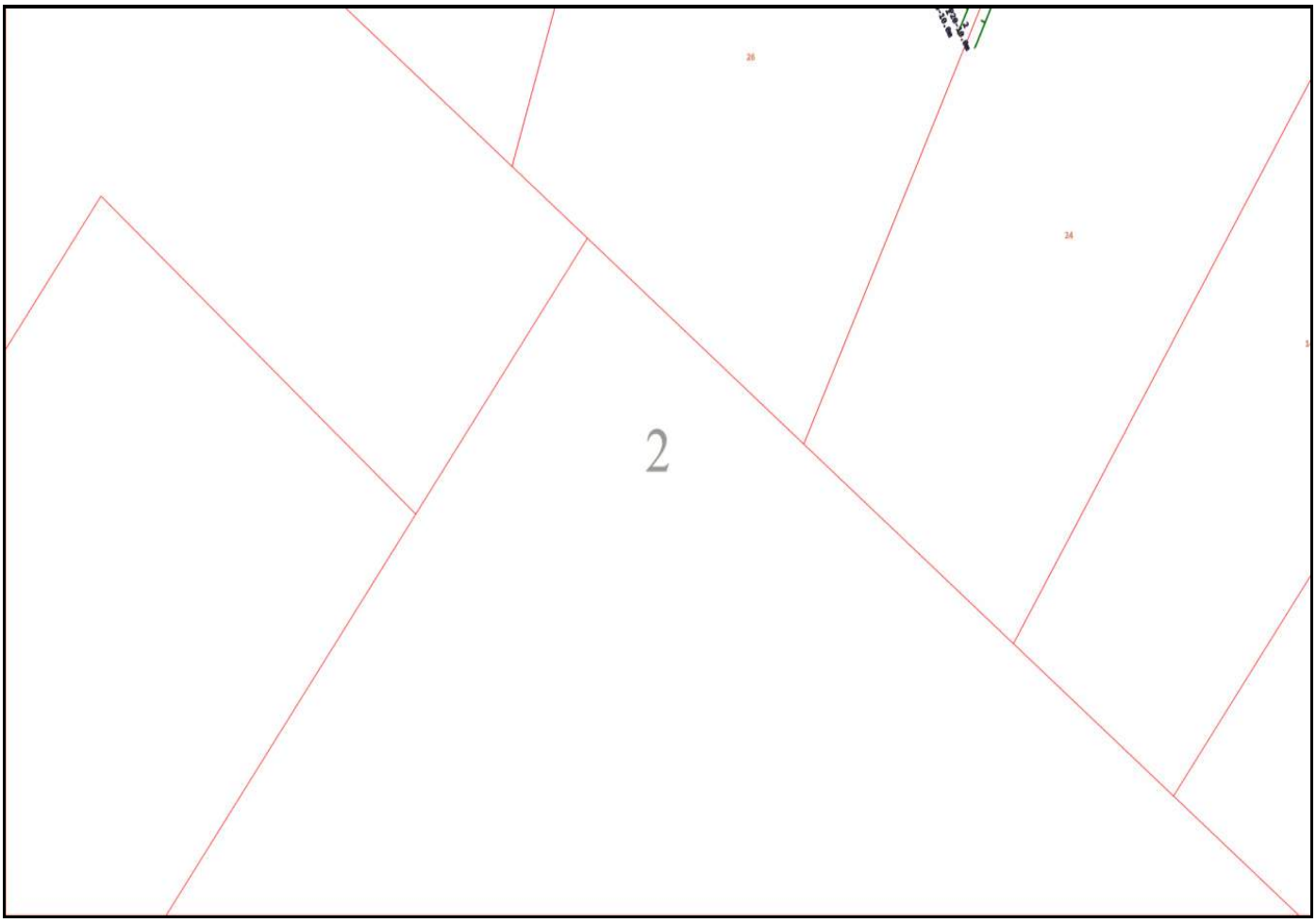
Indicative Plans are tiled below to demonstrate how to layout and read nbn asset plans

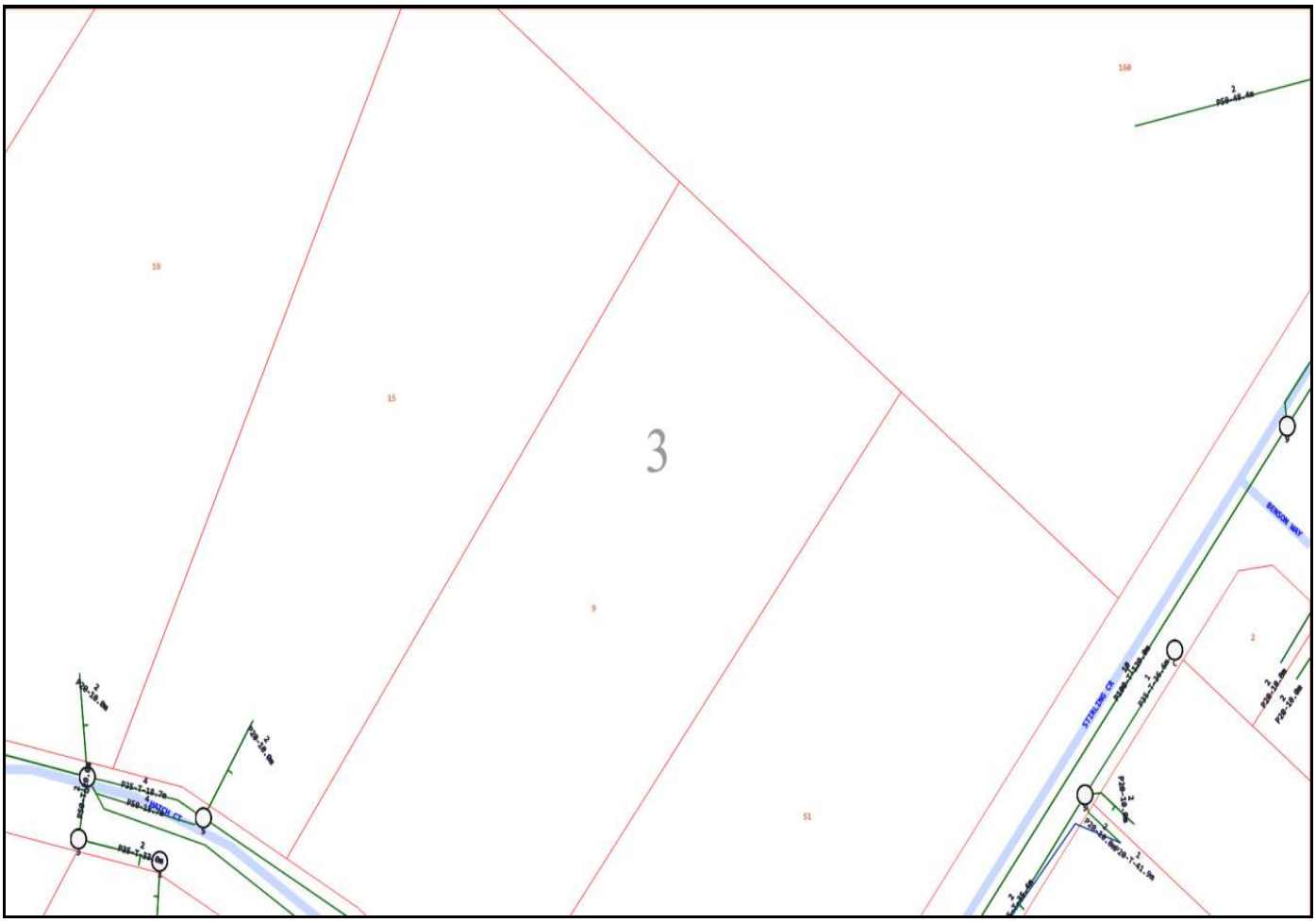


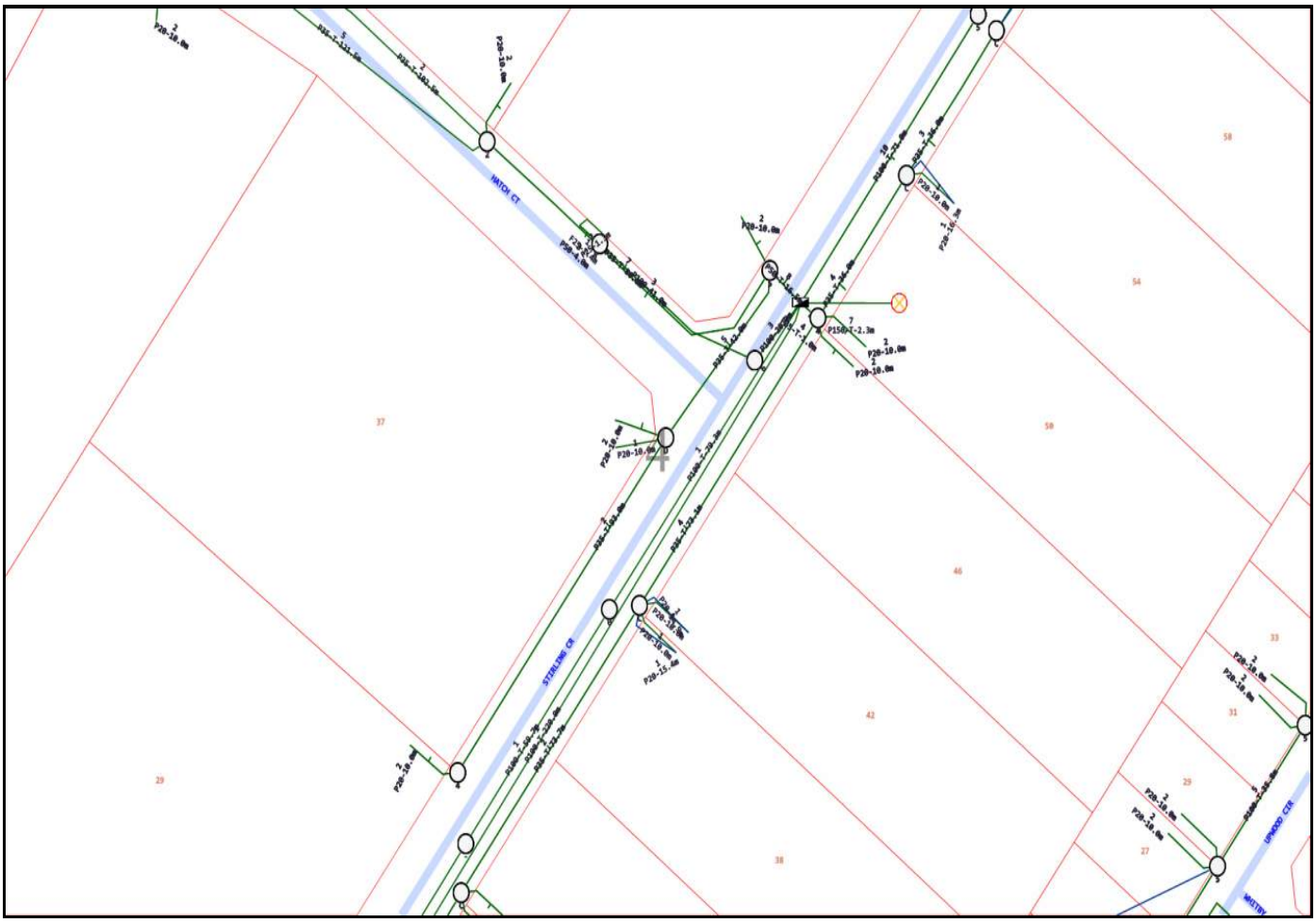
LEGEND

34	Parcel and the location
5	Pit with size "5"
2E	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
2 PO – T- 25.0m P40 – 20.0m 5 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
2 10.0m 5 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
5 9	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m


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HATCH CT

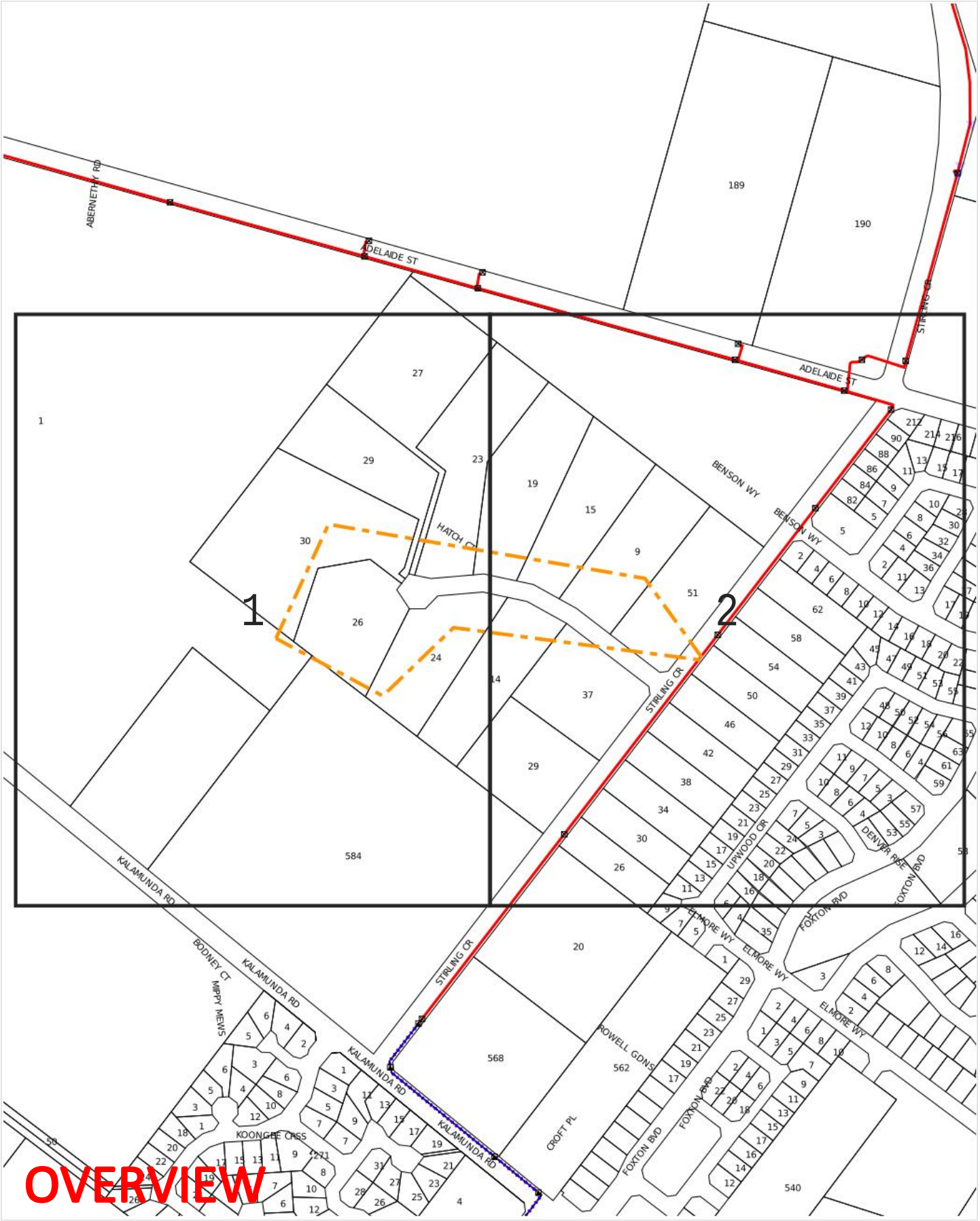

2


3
160
19
15
9
51
2
STERLING CR
BENSON WAY



Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.



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Sequence Number: 268596020

Date Generated: 20 Feb 2026

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208



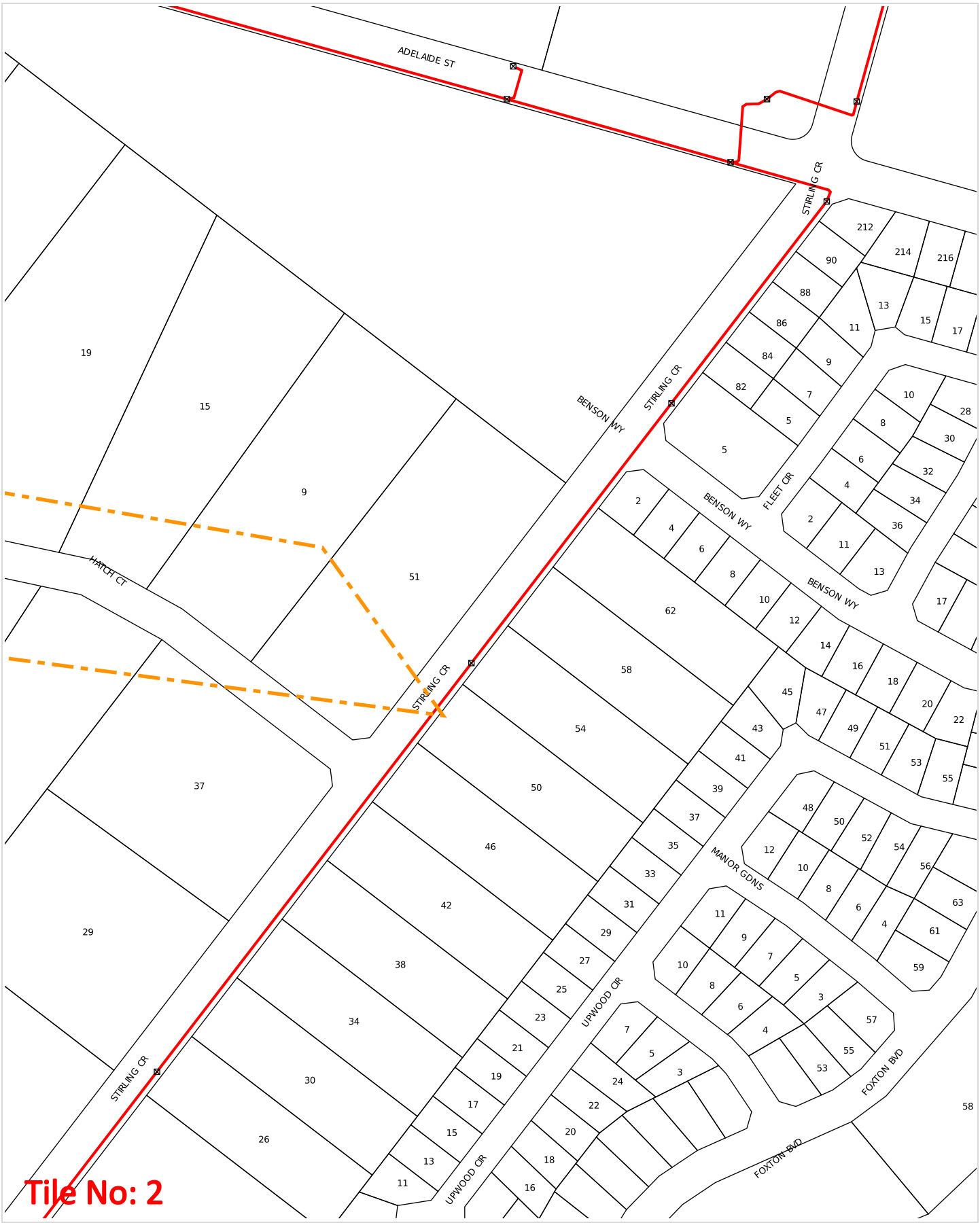
Tile No: 1

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For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

Cable Plan



Report Damage:https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

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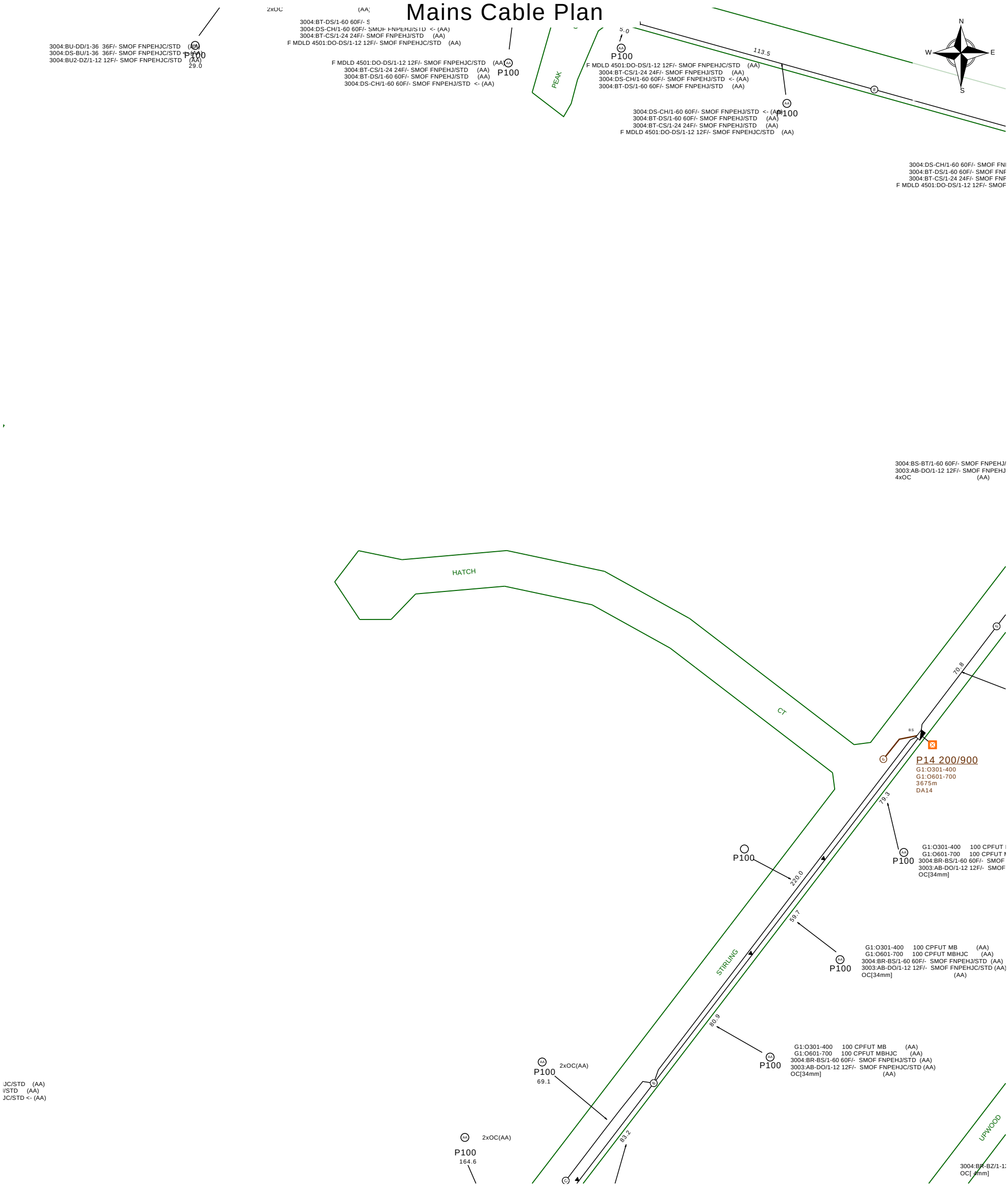
CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact InfraCo Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING
Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.
As such,Telstra supplied location information is indicative only.Spatial accuracy is not applicable to Quality Level D.
Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.
Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy.
Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work.
A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.

See the Steps- Telstra Duty of Care that was provided in the email response.

Mains Cable Plan



Report Damage:https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

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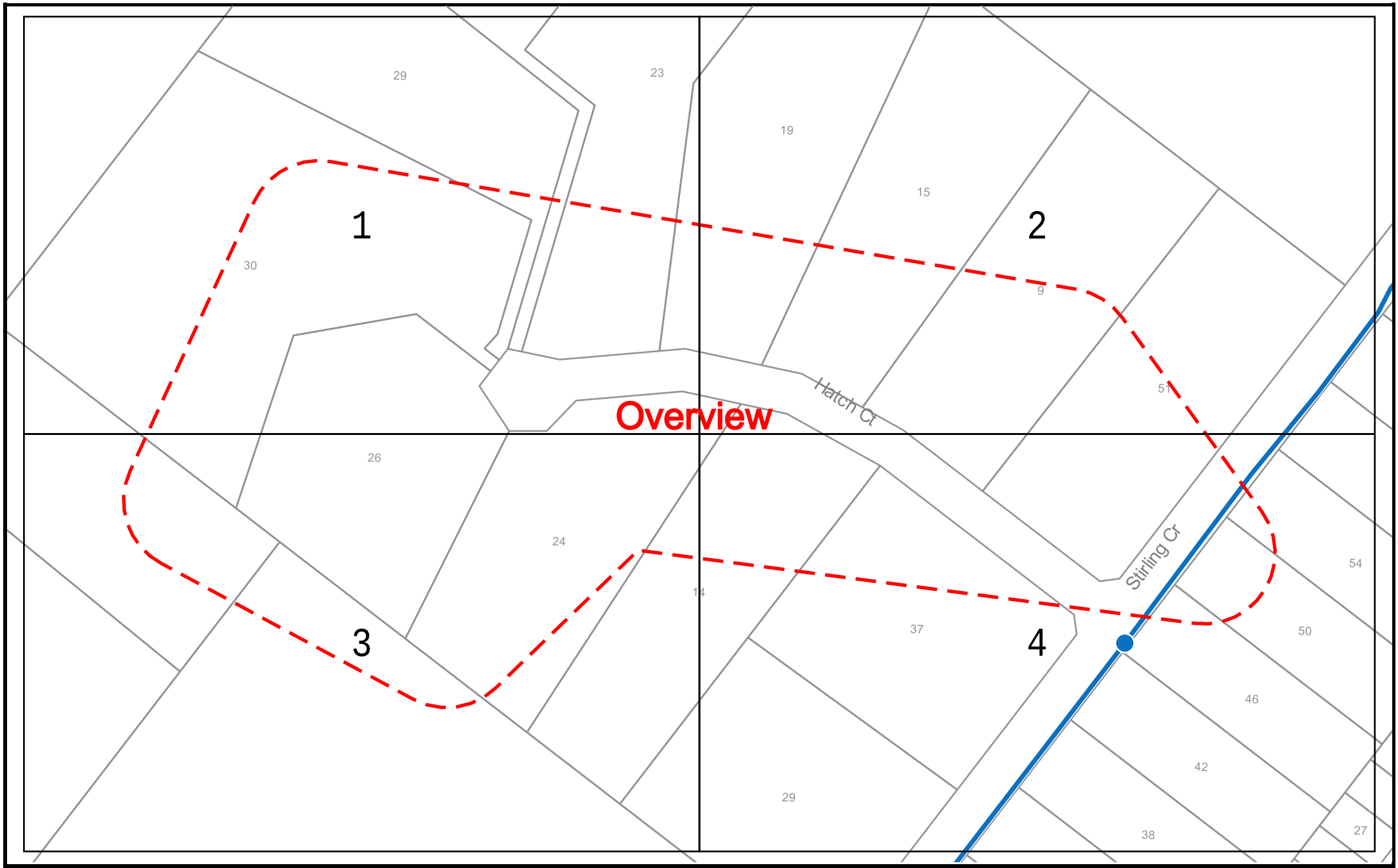
Sequence Number: 268596029

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The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

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SEQUENCE NUMBER: 268596028
JOB NUMBER: 52433030
ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:2050

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.



VOCUS communications

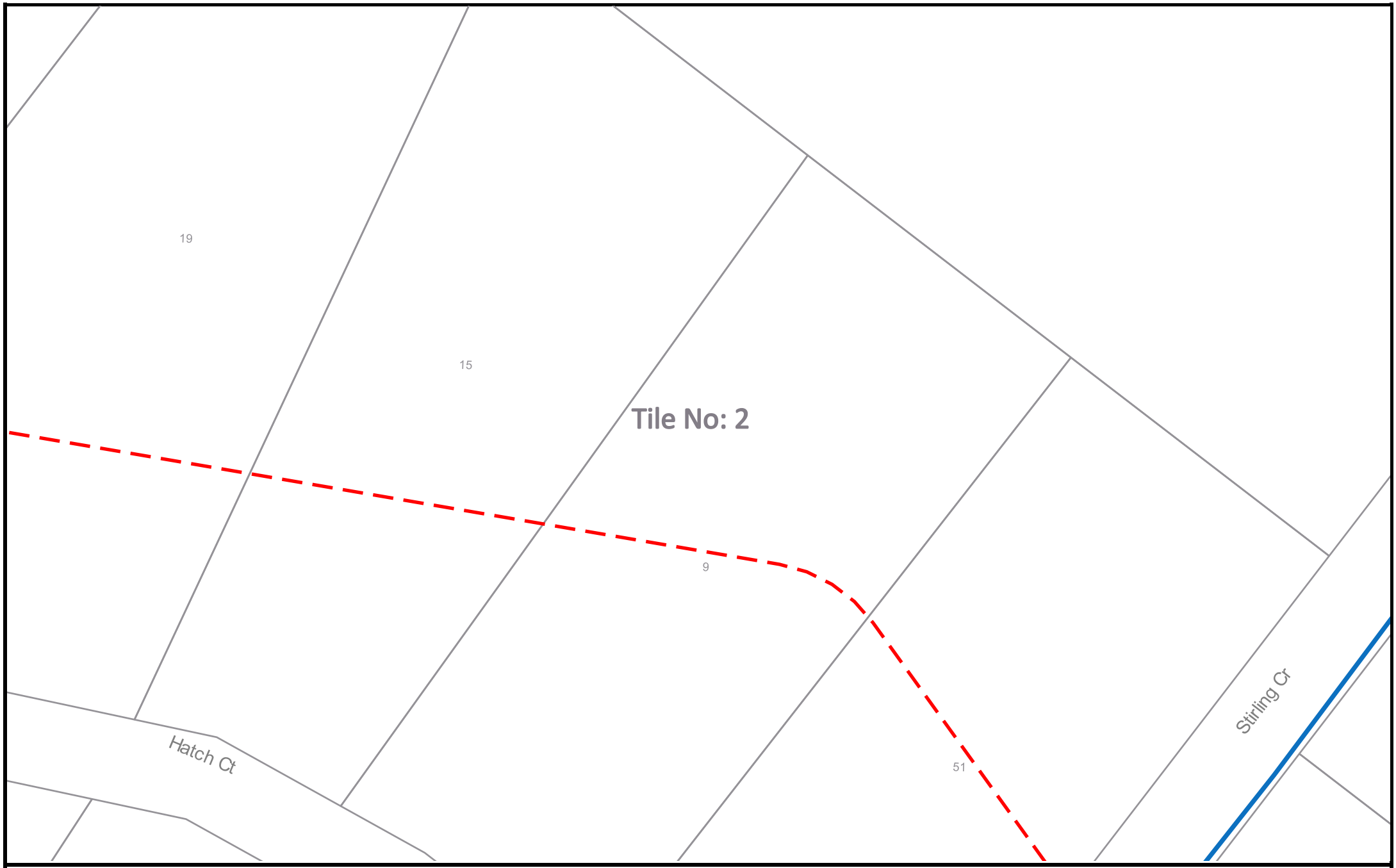
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SEQUENCE NUMBER: 268596028
JOB NUMBER: 52433030
ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

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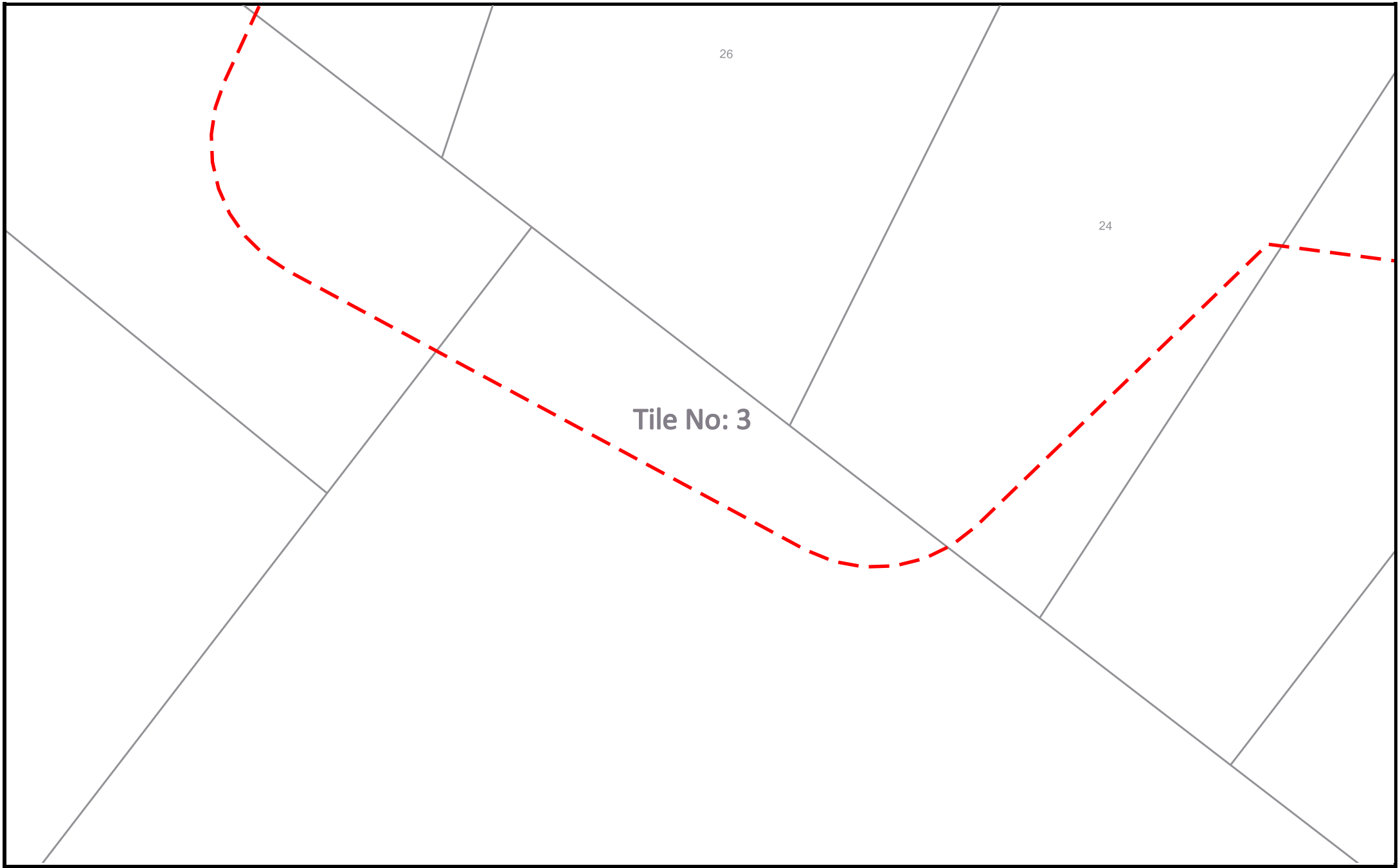
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ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

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Vocus Group Conduit

SCALE: 1:1000

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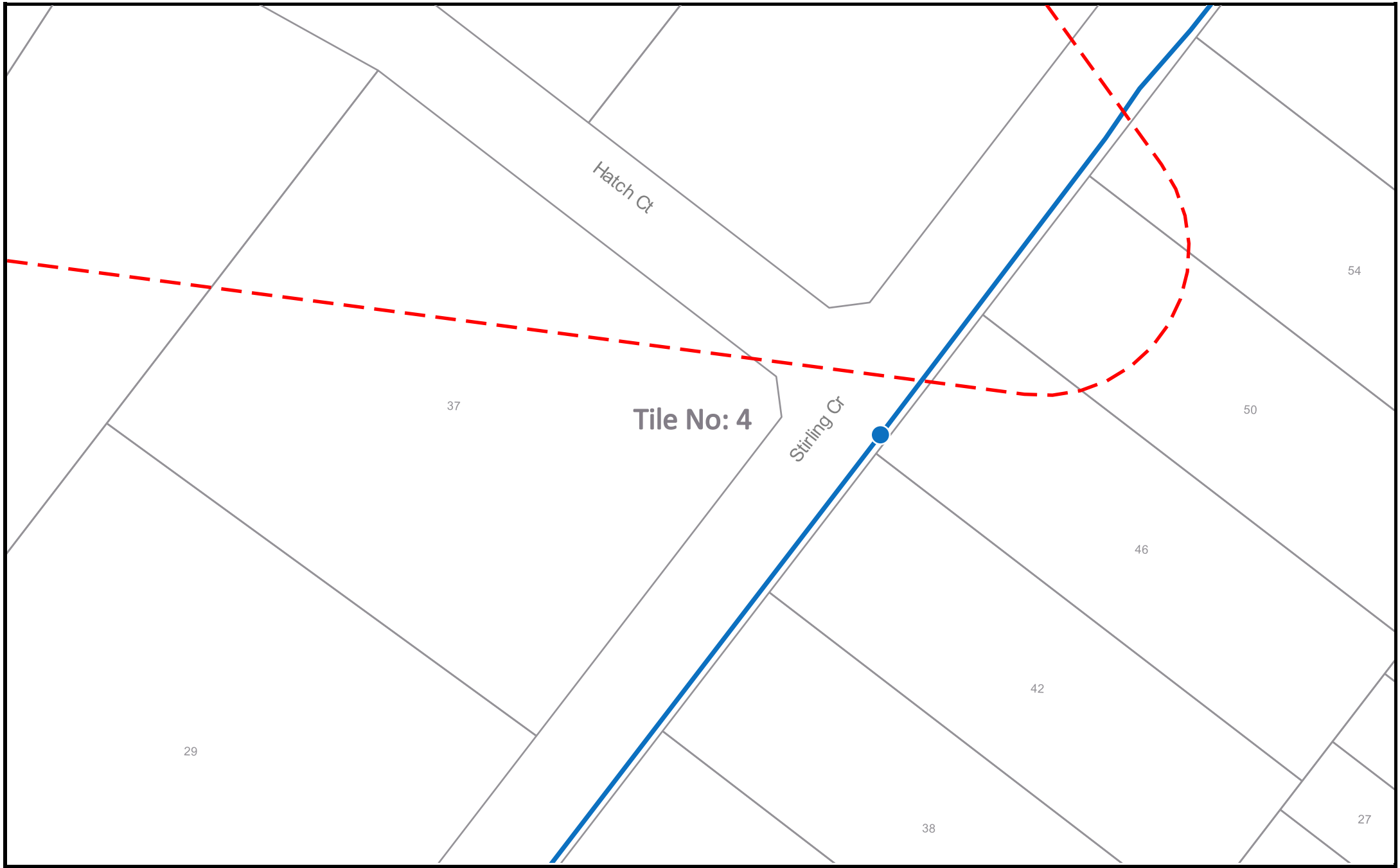


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ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

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VOCUS communications

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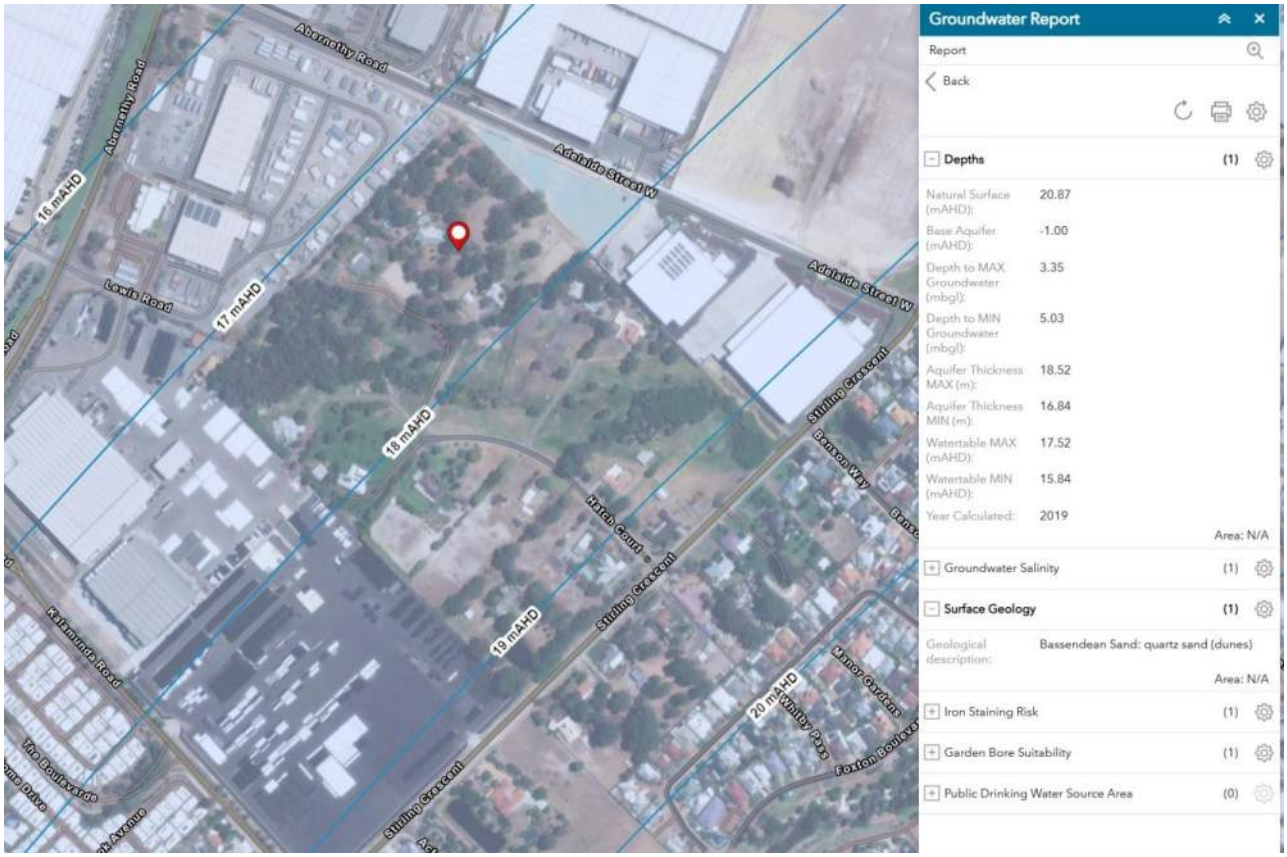
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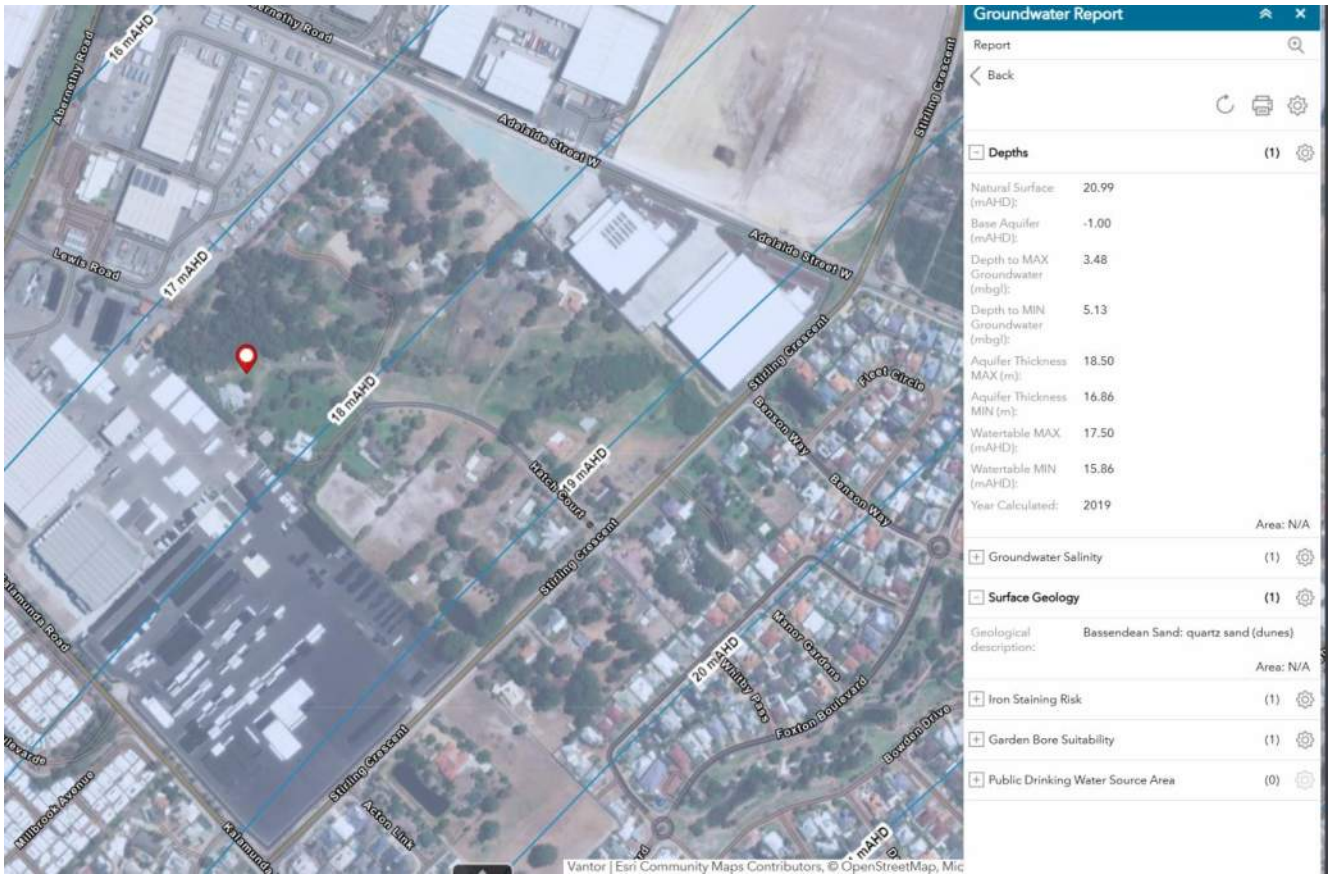
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Vocus Group Conduit

SCALE: 1:1000

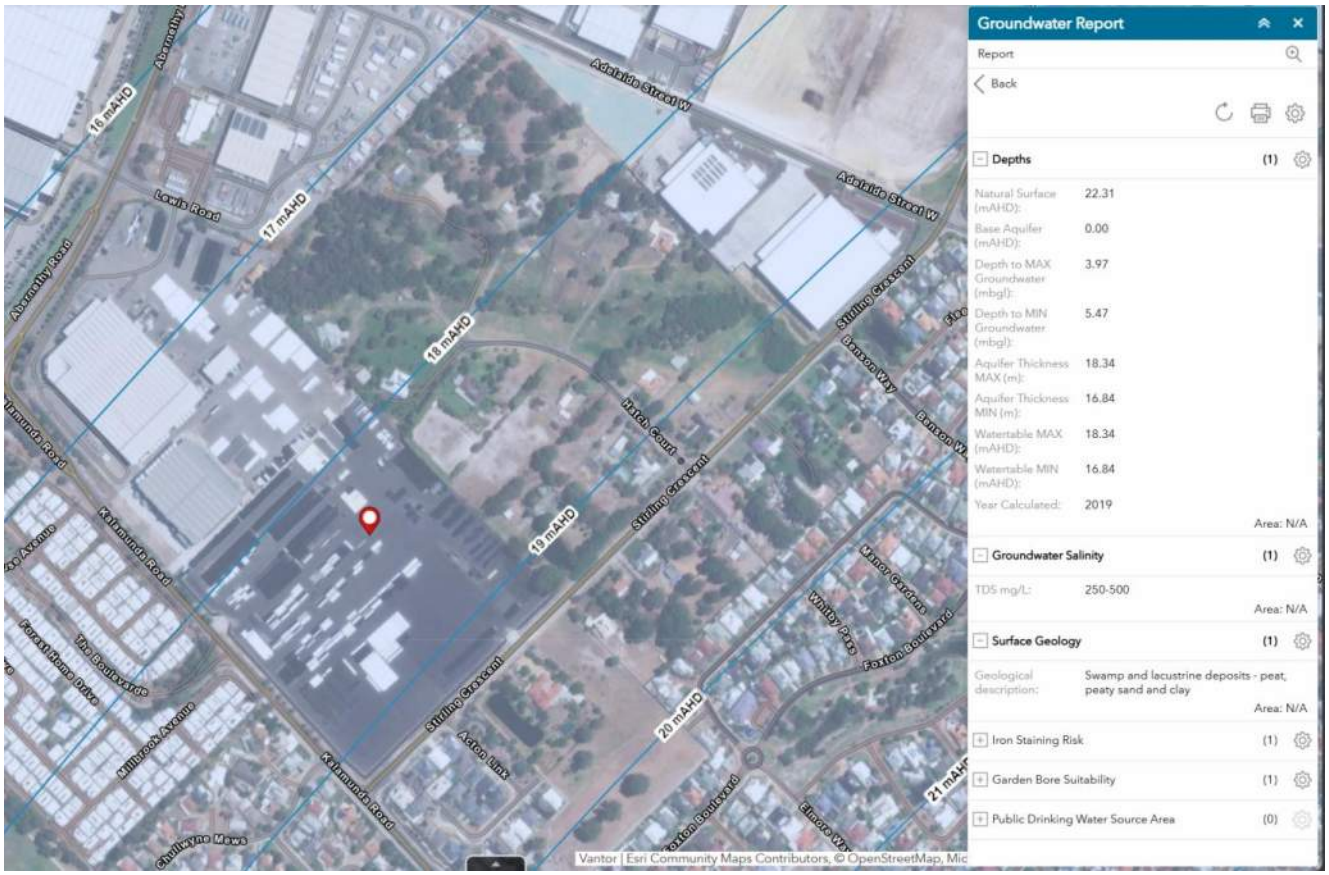
The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.

APPENDIX D – GROUNDWATER MAPPING


Abernethy Road
Adelaide Street W
Lewis Road
16 mAHD
17 mAHD
18 mAHD
19 mAHD
20 mAHD
Stirling Crescent
Benson Way
Hatch Court
Whitby Pass
Foxton Boulevard
Kalmunda Road
Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 20.87
Base Aquifer (mAHD): -1.00
Depth to MAX Groundwater (mbgl): 3.35
Depth to MIN Groundwater (mbgl): 5.03
Aquifer Thickness MAX (m): 18.52
Aquifer Thickness MIN (m): 16.84
Watertable MAX (mAHD): 17.52
Watertable MIN (mAHD): 15.84
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
Surface Geology (1)
Geological description: Bassendean Sand: quartz sand (dunes)
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)


Abernethy Road
Adelaide Street W
Lewis Road
16 mAHD
17 mAHD
18 mAHD
19 mAHD
20 mAHD
Stirling Crescent
Benson Way
Hatch Court
Whitby Pass
Foxton Boulevard
Kalmunda Road
Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 20.99
Base Aquifer (mAHD): -1.00
Depth to MAX Groundwater (mbgl): 3.48
Depth to MIN Groundwater (mbgl): 5.13
Aquifer Thickness MAX (m): 18.50
Aquifer Thickness MIN (m): 16.86
Watertable MAX (mAHD): 17.50
Watertable MIN (mAHD): 15.86
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
Surface Geology (1)
Geological description: Bassendean Sand: quartz sand (dunes)
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)
Vantor | Esri Community Maps Contributors, © OpenStreetMap, Mic


Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 23.98
Base Aquifer (mAHD): 0.00
Depth to MAX Groundwater (mbgl): 4.59
Depth to MIN Groundwater (mbgl): 5.98
Aquifer Thickness MAX (m): 19.39
Aquifer Thickness MIN (m): 18.00
Watertable MAX (mAHD): 19.39
Watertable MIN (mAHD): 18.00
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
TDS mg/L: 250-500
Area: N/A
Surface Geology (1)
Geological description: Swamp and lacustrine deposits - peat, peaty sand and clay
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)
Adelaide Street W
17 mAHD
18 mAHD
19 mAHD
20 mAHD
21 mAHD
Stirling Crescent
Benson Way
Manor Gardens
Whitby Pass
Forton Boulevard
Elmore Way
Kalmunda Road
Aston Link
Vantor | Esri Community Maps Contributors, © OpenStreetMap, Mic


Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 22.31
Base Aquifer (mAHD): 0.00
Depth to MAX Groundwater (mbgl): 3.97
Depth to MIN Groundwater (mbgl): 5.47
Aquifer Thickness MAX (m): 18.34
Aquifer Thickness MIN (m): 16.84
Watertable MAX (mAHD): 18.34
Watertable MIN (mAHD): 16.84
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
TDS mg/L: 250-500
Area: N/A
Surface Geology (1)
Geological description: Swamp and lacustrine deposits - peat, peaty sand and clay
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)
Adelaide Street W
16 mAHD
17 mAHD
18 mAHD
19 mAHD
20 mAHD
21 mAHD
Lowis Road
Abernethy Road
Stirling Crescent
Benson Way
Manor Gardens
Whitby Pass
Forton Boulevard
Elmore Way
Kalmunda Road
Aston Link
Millbrook Avenue
Forest Home Drive
The Boulevarde
Chulkyne Mews
Vantor | Esri Community Maps Contributors, © OpenStreetMap, Mic

Appendix B GEOTECHNICAL REPORTS

Report on:

GEOTECHNICAL AND ASS STUDY HATCH COURT LIGHT INDUSTRIAL AREA AND STIRLING CRESCENT PRECINCT HATCH COURT AND STIRLING CRESCENT, HIGH WYCOMBE, WA

WAG250138-01 001 R Rev0

Submitted to:

Dynamic Planning and Developments

PO Box 688

INGLEWOOD WA 6932

26 September 2025

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2. KEY FINDINGS 3
3. SITE DESCRIPTION 4
4. PROPOSED DEVELOPMENT 5
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Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

1. INTRODUCTION

This report presents the outcomes of Galt Geotechnics' (Galt's) geotechnical and acid sulfate soils (ASS) study for the proposed Hatch Court Light Industrial Area (HCLIA) and Stirling Crescent Precinct (SCP), at Hatch Court and Stirling Crescent, High Wycombe ("the site").

This report is to be read in conjunction with the appended "Geotechnical Definitions, Recommendations, Requirements and Limitations". 'Clause GDR1', etc. refer to this Appendix, found at the back of this report.

2. KEY FINDINGS

Over most of both sites, **we encountered SAND, extending to depths of 2.0 m to over 6.2 m, overlying Guildford Formation** (interbedded stiff to hard cohesive soils and medium dense granular soils) at some locations extending beyond investigated depths. In addition to the above:

- The surficial **sand is interbedded with Cemented sand / 'Coffee Rock' layers** (about 0.3 m to 1.0 m thick) below about 2.0 m to 3.4 m depth. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations.
- **Peat / organic soils were encountered** within / adjacent the drainage line in the northern part of the HCLIA site, and within the wetland area near Lewis Road (refer Figure 1). Similar zones of organic soils could be present in lakes at the site (refer Figure 1).
- **Surficial uncontrolled fill about 1.1 m thick was encountered** in the northern corner of site at 27 Hatch Court within the HCLIA (refer Galt report referenced: WAG250256-01 001 R Rev1).

The locations of encountered coffee rock, Guildford Formation and organic soils are summarised in Attached Tables 3 to 7.

Groundwater was encountered at depths ranging from the ground surface to over 3 m. Groundwater was also observed in lakes in southern part of each site, and along drainage line in northern part of HCLIA site.

The sites are considered broadly geotechnically suitable for the proposed development (LSP amendment to industrial use). Standard site preparation measures for sand sites will apply for most of the site area. However, geotechnical challenges relevant to the proposed development are summarised as follows:

- **Peat / organic soils must be removed** if these areas are to be developed. Removal of these soils is likely to require dewatering. Management / treatment of organic / acid sulfate generating soils and acidic groundwater could also possibly be required (refer Section 12);
- **Cemented sand / 'Coffee Rock' layers could have a low permeability**, which could impact the performance of soakwells. Coffee rock also has the potential to be acid generating (if removed) and would require treatment (refer Section 12);
- **Areas of shallow groundwater have been identified** in lower lying areas. Shallow groundwater will impact temporary excavations, and compaction during construction. Dewatering is likely to be required, particularly if construction is undertaken during winter. The potential requirement for and ASSDMP is discussed in Section 12. Shallow groundwater will affect the performance of soakwells and effluent disposal. Control of groundwater levels at the site must be assessed by a suitably qualified civil engineer / hydrogeologist. Subsoil drainage could possibly be required;
- **Surficial uncontrolled fill in the northern corner of the site must be removed**, assessed by a suitably qualified engineer and environmental scientist (refer Section 12), and either removed from site, or (if suitable) reused as approved fill; and
- **Environmental considerations are** discussed in Section 12.

We do not consider that the sites are geotechnically unusual in the context of the nearby area and similar industrial developments. We do not consider that there are any major contamination encumbrances to a proposed rezoning.

3. SITE DESCRIPTION

Table 1: Summary of Site

Item	Comment
Site Extent	Refer to In-line Image 1.
Site Area	Hatch Court Light Industrial Area (HCLIA): ~30 ha (16 lots). Stirling Crescent Precinct (SCP): ~6 ha (11 lots).
Current Site Surface Elevation[1]	Around RL 20 m AHD at the north to RL 24 m AHD at the south.
Vegetation	Vegetation present in landscaped areas surrounding houses and associated infrastructure. Vegetation includes grassed areas, some mature trees and some bushes (refer Figure 1). Dense vegetation along drainage line in northern part of HCLIA site.
Current Land Use	Mostly rural-residential developments and associated infrastructure. South west part of site (Lots 614 and 584) is a hardstand area (refer Figure 1).
Site drainage	Drainage line traverses from west to east in northern part of HCLIA site. Wetland area present in western corner of HCLIA site near Lewis Road. Several damp lands are apparent from historical aerial photos (refer In-line Image 2). Localised lakes are present in southern part of both the HCLIA and SCP sites, which are judged to be expressions of groundwater.
Site History[2]	**Prior to 1979**: Site mostly pastoral / agricultural land. Three residences developed on site. **1979 to 1983**: Development of residential buildings in SCP. **1983 to 1995**: Development of Hatch Court. And associated residential lots / developments. **1995 to 2018**: Site relatively unchanged. Some additional residential buildings and associated infrastructure constructed progressively during this time. **2018**: to Construction of hardstand in western corner of site. **2018 to 2024**: progressive construction of hardstand in western part of site (Lots 614 and 584).

NOTES: ***1.*** *Site elevation based on publicly available data (Landgate).*

2. *Site history based on aerial imagery (Landgate).*



In-line Image 1: Approximate extent of subject area



In-line Image 2: Aerial photo of site in 1961. HCLA marked in red/yellow.

4. PROPOSED DEVELOPMENT

Table 2: Summary of Proposed Development

Item	Comment
Proposed Development	LSP amendment to facilitate subdivision of industrial lots with associated infrastructure
Cut/Fill	Assumed typically up to about ± 1 m. Fill is generally anticipated to be required in low lying areas to achieve adequate clearance to groundwater.
Assumed Retaining Walls	Gravity walls up to about 2 m high
Assumed Stormwater Disposal	Possibly on site via soakwells with overflow to regional drainage.
Assumed Sewage Disposal	On site via leach drains

5. PROJECT OBJECTIVES

The objective of the geotechnical study is to assess the geotechnical suitability of the site for the proposed development. Our scope is limited to undeveloped portion of the HCLIA (i.e. excludes Lots 614 and 584)) and entirety of the SCP.

The objectives of the environmental assessment are to investigate the risk of acid sulfate soils (ASS) across the site through soil and groundwater analysis and provided recommendation for the treatment of ASS of groundwater (if required). No specific infrastructure is proposed at this stage, therefore the assessment is high level for the general assessment of ASS.

Comment is also required on the potential contamination risk within the HCLIA and SCP.

6. PREVIOUS STUDIES

Galt has previously undertaken a number of geotechnical studies for individual lots within and adjacent the site as summarised below:

- **Located within site:**
  - 27 Hatch Court in May 2025 (report reference: WAG250256-01 001 R Rev1);
  - Lots 8 and 16 Stirling Crescent in November 2024 (report reference: WAG240438-01 001 R Rev2);
- ***Located north of site / not within site:***
  - 71 Stirling Crescent in March 2023 (report reference: WAG230133-01 001 R Rev1); and
  - Part of Lot 1499 Stirling Crescent in September 2023 (report reference: WAG230463-01 002 R Rev1).

Test locations from the above reports are shown on Figure 1. Relevant information from the above studies are incorporated into this report.

7. FIELDWORK

7.1. General

Fieldwork was carried out on 25 August and 05 September 2025 and is summarised below.

Table 3: Summary of Fieldwork

Type	Results Appendix	Summary	GDR Clause	Equipment Used	No. Tests	Depth Range (m)
Site Plan	Figure 1	-	-	Hand held GPS[1]	-	-
Photographs	A	-	-	-	-	-
Cone Penetration Tests (CPTs)	B	Section 9.4	GDR3.2	Pagani TG 73-200	16	2.34 to 5.20
Boreholes (BH)	C	Section 9.4	GDR3.3	EVH Scout on utility / 7822DT / Hand Auger	14	1.30 to 3.00
Monitoring Wells (MW)	C	Section 7.3	-	7822DT	3[2]	3.00
Constant Head Permeameter Tests (G)	D	Section 7.2	GDR3.8	Guelph Permeameter	7	0.38 to 0.57

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *One groundwater monitoring well location was unavailable for sampling after installation.*

7.2. Permeability Test Results

Table 4: Permeability Test Results (Constant Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
G01/BH01	SAND (SP)	0.38	25.01	1
G02/BH02	SAND (SP-SM)	0.42	*0.94*[3]	*3*[3]
G03/BH03	SAND (SP)	0.57	9.05	1
G05/BH05	SAND (SP)	0.44	*0.44*[3]	*4*[3]
G07/BH15	SAND (SP)	0.53	9.82	1
G09/BH09	SAND (SP)	0.52	3.94	1
G10/BH10	SAND (SP)	0.47	3.53	1
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
G01	SAND (SP)	0.33	3.56	1
G02	SAND (SP)	0.41	2.82	2
G03	SAND (SP)	0.40	3.31	1
71 Stirling Crescent in March 2023 (WAG230133-01 001 R Rev1, *located north of site / not within site)*				
IT01	SAND (SP)	0.50	1.6	2
IT02	SAND (SP)	0.50	2.1	2
IT03	SAND (SP)	0.55	3.3	1
IT04	SAND (SP)	0.60	2.8	2
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
G01	SAND (SP)	0.44	5.11	1
G02	SAND (SP)	0.50	3.17	1
G03	SAND (SP)	0.39	3.26	1
G04	SAND (SP)	0.40	10.95	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, *located north of site / not within site)*				
G01	SAND (SP)	1.00	3.9	1
G01A	SAND (SP)	0.80	2.3	2
G01B	SAND (SP)	0.53	> 15	1
G02	SAND (SP-SM)	0.90	*0.07*[4]	-[4]
G02A	SAND (SP)	0.70	1.74	2
G02B	SAND (SP)	0.70	1.67	2
G02C	SAND (SP)	0.50	>15	1

NOTES:

1. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS1547 (2012) "On-site domestic wastewater management".*
2. *Soil type is as per Table 5.2 of AS1547-2012.*
3. *Test results likely to have been influenced by shallow groundwater*
4. *Result considered spurious.*

Table 5: Permeability Test Results (Falling Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
BH02 / IT01	SAND (SP)	0.84	3.9	1
BH07 / IT02	SAND (SP)	0.90	3.8	1
BH08 / IT03	SAND (SP)	0.84	31.3	1
BH05 / IT04	SAND (SP)	0.84	4.7	1
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
BH07 / IT01	SAND (SP)	0.88	> 15	1
BH08 / IT02	SAND (SP)	0.86	6.3	1
BH10 / IT03	SAND (SP)	0.82	3.9	1
BH16 / IT04	SAND (SP)	0.77	7.1	1
BH06 / IT06	SAND (SP)	0.77	> 15	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, *located north of site / not within site*)				
IT01	SAND (SP)	0.95	10.6	1
IT02	SAND (SP)	1.00	9.4	1

NOTES: ***1.*** *Soil type is as per Table 5.2 of AS1547-2012*

2. *Test method described in GDR3.7.*

3. *Test results likely to have been influenced by shallow groundwater*

7.3. Soil Sampling

Soil samples for the ASS study were collected from selected boreholes in accordance with the following guidelines:

- Department of Environmental Regulation (DER) (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes and;*
- Department of Agriculture and Water Resources (DAWR) (2018) National Acid Sulfate Soils Guidance.

Samples collected for acid sulfate soils testing were collected at 0.25 m intervals using dedicated nitrile gloves and placed in laboratory-supplied sample bags. The samples were then placed in an ice chilled cooler in the field, and then transferred to a freezer until field testing was undertaken. All samples scheduled for analysis were transported to the laboratory with sufficient packaging and ice to ensure preservation of sample integrity. The lateral borehole distribution is considered appropriate for the project and in accordance with the aforementioned regulatory guidelines.

7.4. Acid Sulfate Soil Field Testing

A small portion of each soil sample was tested for pH before (pH_F) and after (pH_{FOX}) rapid oxidation with hydrogen peroxide (H_2O_2). The samples were then placed in an ice chilled cooler until submission to the laboratory for chromium reducible sulfur (CRS) analysis.

Samples with field pH values (pH_F) of <3 to 4 indicate the presence of ASS, thus indicating acids in the soil profile have oxidised.

The presence of unoxidized acids or potential acid sulfate soil (PASS) is indicated if:

- a strong reaction with hydrogen peroxide is observed;
- the pH_{FOX} is at least 1 pH unit below pH_F; or
- the pH_{FOX} is <3 to 4 and one or both of the above conditions apply.

The texture based net acidity action criteria presented in the DER (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes* guideline document specifies a value of 0.03 %S based on the anticipated volume of soil to be disturbed being greater than 1,000 tonnes. This value has been adopted for the assessment of net acidity in soils across the site.

7.5. Groundwater Monitoring Wells

Groundwater monitoring wells were installed in boreholes drilled Geoprobe 6620 DT drill rig supplied and operated by Direct Push Probing.

Wells were constructed using 50 mm, class 18 flush-threaded PVC with a 2.5 m screened interval was installed at the base of each well and finished with approximate 0.6 to 0.7 m solid section extending to the surface. Refer to Appendix C for more information on construction details for each well.

A submersible pump was used to remove fine sediments and filter sand from the well. Groundwater levels were measured more than 7 days after installation and development to allow the water in the well to reach hydrostatic levels (refer Attached Table 3).

7.6. Groundwater Sampling

The groundwater wells were sampled in accordance with the following Australian Standards:

- AS/NZS 5667.1:1998 Water Quality Sampling. Part I – Guidance on the Design of Sampling Programs, Sampling Techniques and the Preservation and Handling of Samples; and
- AS/NZS 5667.11:1998 Water Quality Sampling. Part II – Guidance on the Sampling of Groundwater. Groundwater samples were recovered using low-flow methods.

The pump was set at the centre of the screened interval and drawdown measured concurrently whilst pumping to ensure the pump flow rates were less than the recharge capacity of the well. An initial flow rate in the order of 0.5-1.0 L/min was used and adjusted as appropriate to ensure minimal drawdown (<0.1m) during purging. New nitrile disposable gloves were used at each monitoring well location.

Representative samples for laboratory analysis were collected after stabilisation of groundwater physio-chemical parameters was achieved. Measurements of these parameters including temperature, pH, electrical conductivity, redox potential and dissolved oxygen, were taken every 60 seconds using appropriately calibrated equipment.

Stabilisation of groundwater parameters is considered to be achieved when there is less than 10% variation in physiochemical parameters between three successive readings. The groundwater physio-chemical parameters were recorded which included physical observations such as colour and turbidity of the purged water, any indications of the presence of contamination, including odour, sheen, the presence of any foreign material or objects, any quality assurance/quality control (QA/QC) sampling and the unique sample identifier.

Groundwater samples were collected directly from the low-flow pump into appropriately preserved and labelled, laboratory supplied bottles and filled to zero headspace. Samples that required field filtering were collected using an in-line, single-use, 0.45 µm filter.

All samples were stored in an ice chilled cooler during fieldwork and submitted to the laboratory at the conclusion of the field work, with adequate packing to ensure that they arrived intact and at the appropriate temperature to ensure sample preservation.

8. LABORATORY TESTING

8.1. Geotechnical

Geotechnical and chemical laboratory testing of soil samples was undertaken by Western Geotechnical and Laboratory Services (WGLS) and Envirolab Services (WA) at their NATA accredited laboratory. Laboratory test results along with the test methods followed are presented in Appendix E and summarised in Attached Tables 1 and 2.

Chemical test results from previous studies are also included in Attached Table 2.

8.2. Environmental

Environmental laboratory testing was conducted by Eurofins laboratory using the chromium reducible sulfur (CRS) method which provides acid base accounting and quantification of potential acid generation. The selection of samples for laboratory analysis was based on soil type and the results of field testing. Groundwater samples were also analysed by Eurofins laboratory for the Department of Water – Groundwater Quality Suite. All laboratory analysis was undertaken using NATA-accredited methods of analysis.

Laboratory certificate of analysis are presented in Appendix F.

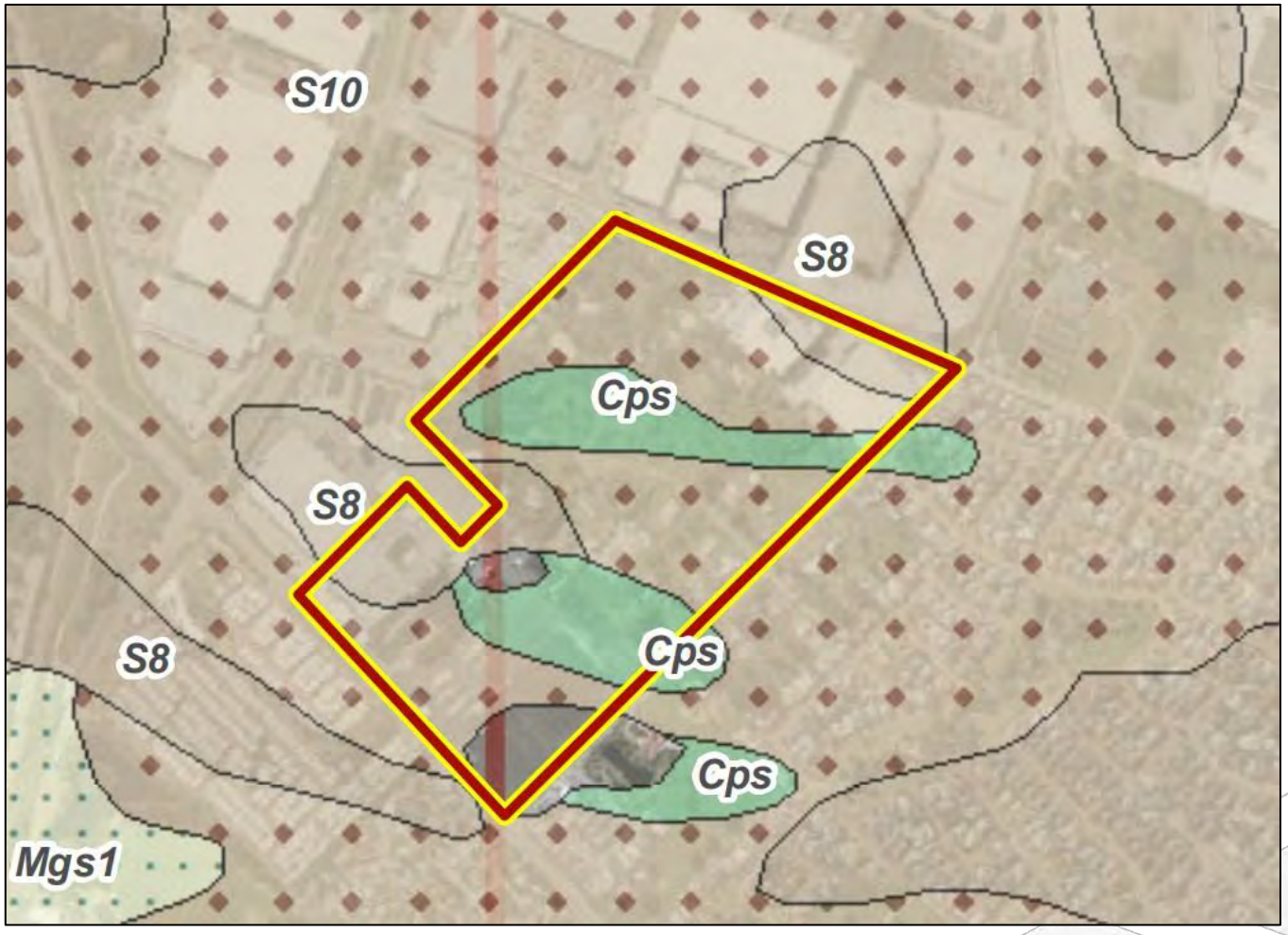
9. SITE CONDITIONS

9.1. Geology

Table 6: Summary of Geology Mapping

Map Sheet	Map Scale	Mapped Soils
Perth	1:50,000	Refer In-Line Image 3 for distribution of following units: - **Cps**: Peaty CLAY: "*dark grey and black with variable sand content of lacustrine origin [Swamp Deposits (Qhw)]*" - **S8**: Bassendean SAND: "*very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin*" - **S10**: "*Thin Bassendean Sand over Guildford formation*"

***NOTE**: Encountered subsurface profile discussed in Section 9.4.*



In-line Image 3: Excerpt from Perth 1:50,000 scale environmental geology map. HCLIA marked in red/yellow.

9.2. Groundwater

Table 7: Summary of Groundwater Levels

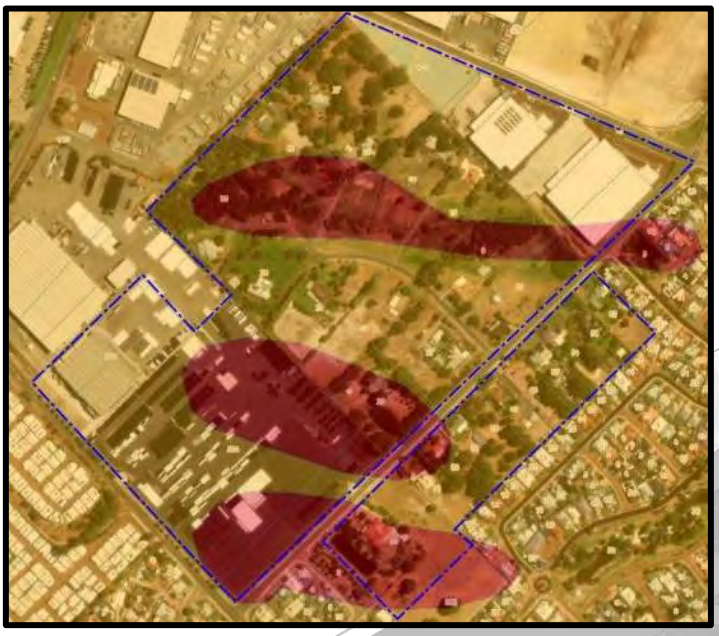
Item	Date	Depth Range (m)	Elevation Range (m AHD)	Comment
Perth Groundwater Atlas	2004	-	North: 13 South: 15	Inferred from levels measured in monitoring wells near the end of summer in 2004 only.
	2019		North west: 15.0 to 17.0 South east: 18.5 to 19.5	Inferred from maximum and minimum levels measured in monitoring wells in 2019 only.
DBCA Mapping	-	-	-	Most of the site are mapped as "Sumpland/Dampland", defined as a seasonally inundated/waterlogged area.
Site observations	Aug/Sept 2025	-	Surface to > 3 (Refer Attached Tables 3 to 7)	Groundwater also observed in lakes in southern part of site, and along drainage line in northern part of site. Groundwater could perch on underlying clay / clayey soils at the site.
Recommended Design	-	-	-	Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Subsoil drains and / or table drains could possibly be required.

NOTES: ***1.*** *Perth Groundwater Atlas observations based on monitoring wells which are not located at the site.*

2. *Elevation range for site observations is based on depth and site levels during fieldwork*

9.3. Acid Sulfate Soils

According to the DWER online ASS risk database, the HCLIA and SCP sites are is generally mapped as being within an area of 'moderate to low' ASS risk (highlighted in yellow in In-line Image 4 below) , with part of the site identified as having 'high to moderate' risk (highlighted in red in In-line Image 4 below) within the upper 3 m of the soil profile. High risk areas are judged to be associated with potential organic soils mapped in these areas (refer Section 9.1).



In-line Image 4: ASS Risk Mapping (DWER Database)

9.4. Contamination

The DWER contaminated sites database indicates that the site is not registered as a contaminated site. We note that the public database only shows sites classified as 'Remediated for restricted use', 'Contaminated – restricted use', 'Contaminated – remediation required'.

We understand that the site is likely to be redeveloped for commercial/light industrial purposes and as such, the site is unlikely to be changing to a more sensitive land use.

During fieldwork there were no visual or olfactory indicators of potential contamination. We note that some uncontrolled fill is present in the northern corner of the site. This may require investigation if anthropogenic waste is encountered within the material and/or it is proposed to be reused onsite.

10. GROUND MODEL

The encountered subsurface conditions are summarised in Attached Tables 3 to 7, ad can be generalised as follows:

Most of HCLIA and SCP Sites:

- Surficial Topsoil / Hardstand / Sand Fill Layers; over
- **SAND (SP / SP-SM)**: fine to medium grained, sub angular to sub rounded, typically grey, typically trace fines, typically loose to depths of about 0.5 m to 2.5 m and then becomes typically medium dense, extending to depths of 2.0m to over 6.2 m; with
  - **Interbedded layers of cemented sand / 'Coffee Rock'**: encountered at some locations as cemented layer of sand typically with a higher fines content (i.e. Silty SAND in some zones) about 0.3 m to 1.0 m thick (where penetrated) and below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7 for locations encountered). Coffee rock inferred from CPT refusal at some locations. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. Layer underlain by sand; over
- **Guildford Formation interbedded CLAY / Clayey SAND / Sandy CLAY / SAND Layers (SP/SC/CL-CH)**: typically stiff to hard cohesive layers and medium dense sand layers, locations of encountered Guildford Formation summarised in Attached Tables 3 to 7.

HCLIA - within / adjacent drainage line and wetland area[1]:

Variable organic soils were encountered as follows:

- **CPT01**: Possible inferred organic soil layer from 0.9 m to 1.2 m depth;
- **BH02**: Trace organics in Clayey SAND from 0.9 m to 2.0 m depth;
- **BH04**: Organic Clayey SAND from 0.7 m to 1.4 m depth
- **BH12/MW01**: PEAT from 0.0 m to 0.6 m depth, and then Organic SAND from 0.6 m to 1.4 m depth.

Notes:

- [1] Drainage line traverses from west to east in northern part of site (refer Figure 1). Wetland area present in western corner of site near Lewis Road. Similar zones of organic soils could be present in lakes at the site (Refer Table 1).
- [2] An area of surficial uncontrolled fill about 1.1 m thick was encountered in the northern corner of site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1);

11. GEOTECHNICAL ASSESSMENT

The HCLIA and SCP sites are considered geotechnically suitable for redevelopment as industrial land, provided appropriate site preparation is done. Standard site preparation measures for sand sites will apply for most of the site. Geotechnical challenges relevant to the proposed development are summarised as follows:

- **Peat / organic soils** were encountered within / adjacent the drainage line in the northern part of the HCLIA site, and within the wetland area near Lewis Road (refer Figure 1). Similar zones of organic soils could be present in lakes at the site (refer Figure 1 – could also extend to lake in south of SCP). If these areas are to be developed, organic soils will need to be removed from the site. We note that organic soils are likely to be acid sulfate generating, and therefore would require treatments (refer Section 12). Dewatering is also likely to be required to enable remediation of these areas;
- **Cemented sand / 'Coffee Rock'** layers (about 0.3 m to 1.0 m thick) interbedded within the sand were encountered below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7). Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. These materials could have a low permeability, which could impact the performance of soakwells. Coffee rock also has the potential to be acid generating (if removed) and would require treatment (refer Section 12);
- **Areas of shallow groundwater** have been identified in lower lying areas (refer Table 7 and Attached Table 3). Shallow groundwater will impact temporary excavations, and compaction during construction. Dewatering is likely to be required, particularly if construction is undertaken during winter. The potential requirement for and ASSDMP is discussed in Section 12. Shallow groundwater will affect the performance of soakwells and effluent disposal. Control of groundwater levels at the site must be assessed by a suitably qualified civil engineer / hydrogeologist. Subsoil drainage could possibly be required;
- **Surficial uncontrolled fill** about 1.1 m thick was encountered in the northern corner of site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1). Uncontrolled fill must be removed, assessed by a suitably qualified engineer and environmental scientist (refer Section 12), and either removed from site, or (if suitable) reused as approved fill; and
- **Environmental considerations** are discussed in Section 12.

Geotechnical recommendations for the site are summarised in the Table 8.

Table 8: Summary of Geotechnical Assessment

Type	Clause	Parameter	Comment
Site Suitability	-	-	We consider both sites to be geotechnically suitable for the proposed development with appropriate site preparation measures. Standard site preparation measures will apply for most of the site (refer further comments above table).
Site Classification (AS2870)	GDR5	A / P	Class A for most of each site. Class P in drainage lines, wetland areas and lakes (refer Table 1). The site classification in these areas could be improved if organics soils are removed and replaced.
Site Subsoil Class (AS1170.4)	-	Ce	-
Site Preparation	GDR6	-	**For most of the site**: preparation will comprise **GDR6.2.1 Common Measures** followed by **GDR6.2.2 Sand Sites.** Surficial uncontrolled fill in the northern part of the site must be remediated (refer Galt report referenced: WAG250256-01 001 R Rev1). We anticipate raising of the site above shallow groundwater levels by importation and compaction of sand fill (**Permeable Sand**), however this is subject to civil design. **In drainage lines, wetland areas and lakes (refer Table 1):** If these areas are to be developed, organic soils present in these areas (refer Section 9.4) will need to be removed and replaced with approved fill. Dewatering and treatment of water / soil for acid sulfates will also be required (refer Section 12).

Type	Clause	Parameter	Comment
Footing Preparation and Testing	GDR6.4	-	We expect the base of footings at this site to be entirely within sand. We refer you to GDR6.4.1. A PSP may be used to verify compaction in footing excavations as discussed below.
Topsoil Strip	GDR6.2.1	Thickness = 100 mm	Expected thickness of topsoil strip (average).
Compaction Control	GDR7	-	Requirements for "Sand" as per GDR7 Compaction control at this site may be done using a Perth sand penetrometer (PSP). The target blow counts for "Bassendean Sand" are applicable as per **GDR7.4 Perth Sand Penetrometer.**
Approved Fill	GDR8	Permeable Sand or General Sand	Approved fill at this site is to comprise **Permeable Sand** (where stormwater disposal is required) or **General Sand** (where stormwater disposal is not required) as per **GDR8 Approved Fill and Conformance Testing.** The insitu sand is suitable for reuse as **General Sand**, and as likely to have an unsaturated hydraulic conductivity of approximately 3 m/day when compacted. **Further permeability testing of recompacted insitu sand is required to derive a design hydraulic conductivity value.**
Excavations, batters and slopes	GDR12	1V:2H (temporary) 1V:3H (permanent)	Excavations in sand should be readily achievable to 2 m with 15 ton excavator or similar. The batter angles given are for slopes up to 2 m high and above groundwater. Refer to **GDR12 Excavations, Batters and Slopes** for more information. **Dewatering will be required for excavations in lower lying areas of shallow groundwater.**
Unsaturated Hydraulic Conductivity	GDR13	k_{unsat} = 3 m/day for isolated soakwells, and k_{unsat} = 5 m/day for interconnected soakwells.	k_{unsat} values apply where disposing into natural grey sand, minimum 0.5 m above the groundwater table, coffee rock layers (or overlying perched water) or black / brown sand layers near the groundwater table as per GDR13.4.
Pavement Subgrades	GDR16	CBR = 10%	For subgrades of granular pavements comprising compacted approved fill / insitu sand.
Acid Sulfate Soils	-	Refer Section 12	Management of acid sulfate soils is likely to be required during construction.

NOTES: ***1.*** *q_{all} – allowable bearing pressure (maximum for all footings, refer to footing tables for further details)*

12. PRELIMINARY ENVIRONMENTAL ASSESSMENT

12.1. Soil

The field-testing results are summarised in Table 9 below and presented in Appendix G. Laboratory certificates of analysis are presented in Appendix H

Table 9: Summary of Soil Field Results

Field pHf range	Field pHfox range	pH change	Laboratory pH range	Maximum Net Acidity (%S)
4.7 – 8.5	2.6 – 6.5	1.0 – 5.8	4.0 – 9.5	<0.02 – 0.14

Laboratory analytical results indicate that the net acidity in all samples, except BH16/3.0 (0.14%S) were below the laboratory limit of reporting (LOR) and/or below the maximum net acidity of 0.03%S.

Tabulated results are presented in Appendix G.

12.2. Groundwater

Groundwater at the site was encountered at depths ranging from 0.28 to 1.15 m below ground level with a pH ranging from 6.18 – 7.16. Mildly elevated inherent acidity along with high to very high alkalinity concentrations were noted at

both monitoring locations indicating that groundwater will likely have sufficient self-buffering capacity to maintain an acceptable pH in the event of ASS generation.

Elevated concentrations of aluminium and iron indicate that historical oxidation of ASS may have occurred at the site. Concentrations of chloride were found to exceed non-potable use of groundwater guidelines in MW01 (330 mg/L).

Groundwater field parameters are presented in Appendix H and tabulated groundwater results are presented in Appendix I.

12.3. Summary

Based on the findings of the study and previous experience with ASS identification, coffee rock and organic soils at the site are considered to be ASS.

13. RECOMMENDATIONS

We recommend a more detailed investigation of ASS is conducted in the event that deep disturbances and/or dewatering are required as part of future development at the site. The need for this will mainly depend on the filling regime and disturbances in the drainage lines and lakes present at the site.

14. CLOSURE

GALT GEOTECHNICS





Owen Woodland CPEng
Geotechnical Engineer

Tyrone Mardesic CPEng
Geotechnical Engineer

https://galtgeo.sharepoint.com/sites/wag250138/shared documents/01 dpd si/03 correspondence/wag250138-01 001 r rev0.docx

Attached Table 1: Summary of Geotechnical Index Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)	LS (%)	Org %	MMDD (t/m^3)	OMC (%)	CBR (%)	CBR Swell (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	4	71	25	28	5	2.5	-	-	-	-	-
BH03	1.5 to 1.8	SAND (SP)	-	98	2	-	-	-	-	-	-	-	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	2	66	32	46	6	3.0	10.7	-	-	-	-
BH06	0.6 to 1.0	SAND (SP-SC)	2	92	6	-	-	-	1.2	-	-	-	-
BH10	1.0 to 1.5	SAND (SP)	-	99	1	-	-	-	-	-	-	-	-
G07	0.5 to 0.6	SAND (SP)	-	97	3	-	-	-	0.4	-	-	-	-
G10	0.4 to 0.5	SAND (SP)	1	94	5	-	-	-	1.1	-	-	-	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)													
BH04	0.3 to 0.5	SAND (SP)	0	95	5	-	-	-	1.7	-	-	-	-
BH06	1.0 to 1.4	SAND (SP)	0	96	4	-	-	-	0.5	-	-	-	-
BH07	0.3 to 0.7	SAND (SP)	6	92	2	-	-	-	2.7	-	-	-	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)													
G01	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
BH16	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***													
BH01	0.1 to 0.5	SAND (SP)	1	96	3	-	-	-	-	1.76	12.5	20	0.0
BH03	0.6 to 1.2	SAND (SP)	-	95	5	-	-	-	-	-	-	-	-
BH04	0.1 to 0.4	SAND (SP)	-	96	4	NO	NP	0.0	-	-	-	-	-
BH06	0.5 to 1.2	SAND (SP)	-	97	3	NO	NP	0.0	-	-	-	-	-
BH07	0.0 to 0.4	SAND (SP)	1	96	3	-	-	-	-	1.73	14.5	19	0.0
G02	0.2 to 0.6	SAND (SP-SM)	5	89	6	-	-	-	-	-	-	-	-

Notes

1. *Particle size distribution (by mass)*
   - *Gravel: 2.36 mm – 63 mm*
   - *Sand: 0.075 mm – 2.36 mm*
   - *Fines: <0.075 mm*
2. *Atterberg Limits*
   - *LL: Liquid limit*
   - *PI: Plasticity index*
   - *LS: Linear shrinkage*
   - *NO: Not obtainable*
   - *NP: Non-plastic*
3. *Org: Organic content (by mass)*
4. *Modified compaction*
   - *MMDD: Modified maximum dry density*
   - *OMC: Optimum moisture content*
6. *CBR: California bearing ratio*
   - *Remoulding dry density ratio: 95% MMDD*
   - *Surcharge: 6.75 kg*
   - *Soaking: 4-day soaked*

Attached Table 2: Summary of Chemical Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Electric Conductivity (us/cm)	pH	Phosphorus Retention Index	Exchangeable Sodium Percentage (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	300	8.4	21	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	1000	4.8	200	-
BH06	0.5 to 1.0	SAND (SP-SC)	110	7.3	4.0	-
G07	0.5 to 0.6	SAND (SP)	14	7.8	0.5	-
G10	0.4 to 0.5	SAND (SP)	73	7.7	1.5	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)						
G01	0.3	SAND (SP)	66	6.6	-0.14	-
G03	0.4	SAND (SP)	60	6.6	-0.48	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)						
G01	0.1 to 0.5	SAND (SP)	32	5.8	-0.11	Not Reportable
BH16	0.1 to 0.5	SAND (SP)	36	6.2	-0.25	Not Reportable
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***						
BH04	0.1 to 0.4	SAND (SP)	-	-	0.62	-
G02	0.2 to 0.6	SAND (SP-SM)	-	-	1.2	-

Attached Table 3: Summary of encountered conditions (August / September 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])	Organic Soil layers (m BGL[1])
CPT01	5.1	0.60	0.9 to 1.2 and from 4.0	possibly from 0.9 to 1.2
CPT02	5.1	0.40	3.0	-
CPT03	5.1	1.70	2.2	-
CPT04	5.1	Collapsed[2]	***3.5***[4]	-
CPT05	2.3	0.60	-	-
CPT06	5.1	0.80	***2.0***[4]	-
CPT08	5.1	0.20	-	-
CPT09	5.1	1.40	***3.4***[4]	-
CPT10	5.1	0.20	-	-
CPT12	5.1	0.60	-	-
CPT13	5.1	0.00	4.2	-
CPT14	5.1	0.80	4.1	-
CPT15	5.1	0.80	***3.2***[4]	-
CPT16	3.0	1.10	***2.8***[4]	-
CPT19	5.1	0.80	-	-
CPT20	5.1	0.80	***2.2***[4]	-
BH01	3.0	2.10	-	-
BH02	3.0	0.80	0.9	0.9 to 2.0 - trace organics in clayey sand
BH03	3.0	1.60	***2.6***[4]	-
BH04	3.0	0.10	0.7	0.7 to 1.4 Organic clayey sand
BH05	1.3	0.60	-	-
BH06	3.0	0.40	2.6	-
BH09	3.0	1.30	-	-
BH10	3.0	1.60	-	-
BH11	3.0	1.00	-	-
BH12 / MW01	3.0	1.00	0.0 to 1.4 and 2.6	Peat from 0.0 to 0.6, Organic sand from 0.6 to 1.4
BH13	3.0	0.90	-	-
BH14 / MW03	3.0	0.28	2.0	-
BH15	3.0	1.10	-	-
BH16 / MW02	3.0	1.15	***2.0***[4]	-

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Thicker surficial organic layers encountered near / within drainage line in northern part of site as summarised above. Refer to appendices for further details.*

Attached Table 4: Summary of encountered conditions at 27 Hatch Court (May 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey soil (m BGL[1])
BH01	3	1.7	-
BH02	3	-	-
BH03	3	-	-
BH04	3	1.9	2.8
BH05	3	2.8	-
BH06	3	-	-
BH07	3	2.7	-
BH08	3	-	-
CPT01	6.5	collapsed	6.2
CPT02	5.8	collapsed	2.2
CPT03	6.3	collapsed	6.1
CPT04	6.4	collapsed	3.5
CPT05	6.4	collapsed	6.2
CPT06	6.4	collapsed	2.2

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG250256-01 001 R Rev1 for further details.*

Attached Table 5: Summary of groundwater depths during fieldwork at 71 Stirling Crescent (March 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of cemented[4] soil (m BGL[1])
BH01	1.7	-	***1.7[4]***
BH02	2.0	-	-
BH03	2.0	-	-
BH04	1.0	-	***1.0[4]***

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, inferred from borehole refusal.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230133-01 001 R Rev 1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 6: Summary of groundwater depths during fieldwork at Lots 8 & 16 Stirling Crescent (November 2024)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	3.00	-	-
BH02	3.00	-	-
BH03	3.00	-	-
BH04	3.00	-	-
BH05	2.70	1.2	-
BH06	3.00	-	-
BH07	3.00	-	-
BH08	2.00	-	***2.0***[4]
BH09	3.00	-	-
BH10	3.00	-	-
BH11	3.00	-	-
BH12	3.00	-	-
BH13	3.00	-	-
BH14	2.88	-	***2.5***[4]
BH15	2.30	-	***2.2***[4]
BH16	3.00	-	-
CPT01	6.90	-	6.5
CPT02	2.70	collapsed	***1.8***[4]
CPT03	6.20	collapsed	6.0
CPT04	6.20	collapsed	-
CPT05	6.20	collapsed	-
CPT06	6.20	collapsed	***3.0***[4]
CPT07	2.83	collapsed	***2.8***[4]
CPT08	2.86	collapsed	***2.8***[4]
CPT09	2.91	collapsed	***2.9***[4]
CPT10	2.51	collapsed	***2.5***[4]

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG240438-01 001 R Rev2 for further details.*

Attached Table 7: Summary of groundwater depths during fieldwork at part of Lot 1499 Stirling Crescent (September 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	2.0	-	-
BH02	2.0	1.7	-
BH03	2.0	1.1	-
BH04	2.0	1.9	-
BH05	2.0	1.9	-
BH06	2.0	-	-
CPT01	3.2	collapsed	***3.0***[4]
CPT02	8.4	2.5	***2.5 to 3.5***[4], and from 8.0
CPT03	3.0	collapsed	***2.8***[4]
CPT04	8.2	1.9	-
CPT05	8.2	collapsed	***3.4 to 4.0***[4] and 5.6
CPT06	2.7	collapsed	***2.6***[4]
CPT07	8.2	1.7	4.0

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230463-01 002 R Rev1 for further details.* ***Investigation located north of site (not within site).***

Figures





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

N

0 50 100 150 200 250
Meters

NOTES
Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250	(A3)
DRAWN	CED	
DATE DRAWN	11/9/2025	
CHECKED	–	
DATE CHECKED	–	
PROJECTION	GDA 1994 MGA Zone 50	

Galt Geotechnics Pty Ltd
ACN : 138 490 865
Tel : +61 (0)8 6272-0200
Address : 50 Edward Street
Osborne Park WA 6017

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CLIENT	**DYNAMIC PLANNING AND DEVELOPMENTS**
PROJECT	LSP AMENDMENT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

WAG250256-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Guelph Permeameter

WAG240438-01-TLF

- Borehole
- Borehole / Standpipe
- Cone Penetration Test
- Guelph Permeameter
- Guelph Permeameter / Standpipe
- Infiltration Test

WAG230463-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Permeability Test
- Sediment Sample

WAG230133-01-FTL

- Borehole
- Borehole / Infiltration Test
- Infiltration Test

NOTES

Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250 (A3)
DRAWN	CED
DATE DRAWN	11/9/2025
CHECKED	_
DATE CHECKED	_
PROJECTION	GDA 1994 MGA Zone 50

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ACN : 138 490 865
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Address : 50 Edward Street
Osborne Park WA 6017

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	A

Appendices

Appendix A: Site Photographs

Photograph 1: Site photo near BH13. Water ponded at ground surface



Photograph 2: Near BH02 facing west. Wetland area near Lewis Road.



Photograph 3: Near BH01 facing south east



Photograph 4: Near CPT01 facing north. Wetland area near Lewis Road / drainage line in northern part of site.



Photograph 5: Near BH04 facing north



Photograph 6: Near CPT08 facing west. Drainage line adjacent borehole.



Photograph 7: Near BH10 facing east



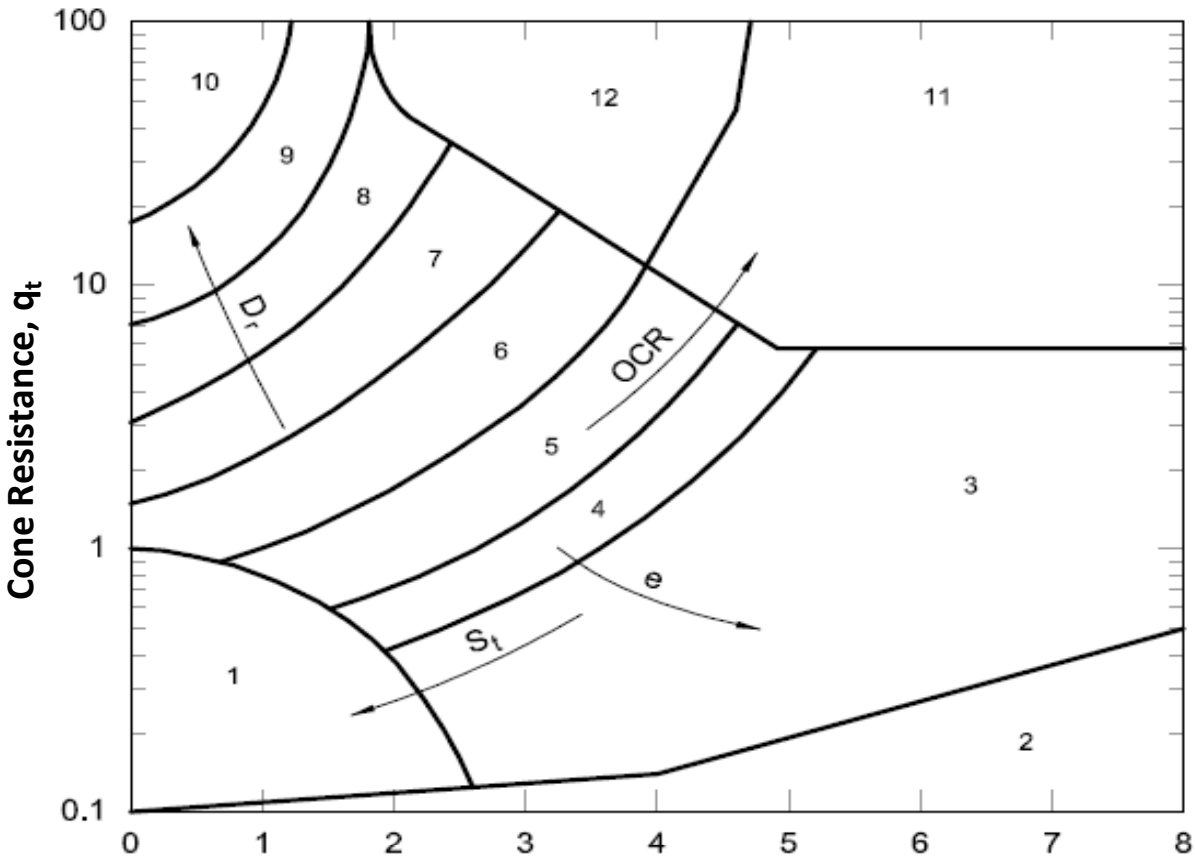
Photograph 8: Near BH15 facing south east



Photograph 9: Near BH06 facing south west



Appendix B: CPT Test Results



DEFINITIONS

q_t : Cone tip resistance corrected for pore water pressure
S_t : Sensitivity
e : Void ratio
D_r : Relative density
OCR : Overconsolidation ratio
OC : Overconsolidated

SOIL BEHAVIOUR TYPE ZONES

1. Sensitive fine grained
2. Organic material
3. Clay
4. Silty clay to clay
5. Clayey silt to silty clay
6. Sandy silt to clayey silt
7. Silty sand to sandy silt
8. Sand to silty sand
9. Sand
10. Gravelly sand to sand
11. Very stiff fine grained material (OC/cemented)
12. Sand to clayey sand (OC/cemented)

NOTES

A. Some overlap in type zones is expected
B. Local correlations are preferred and may indicate soil type boundaries that are different from those shown above

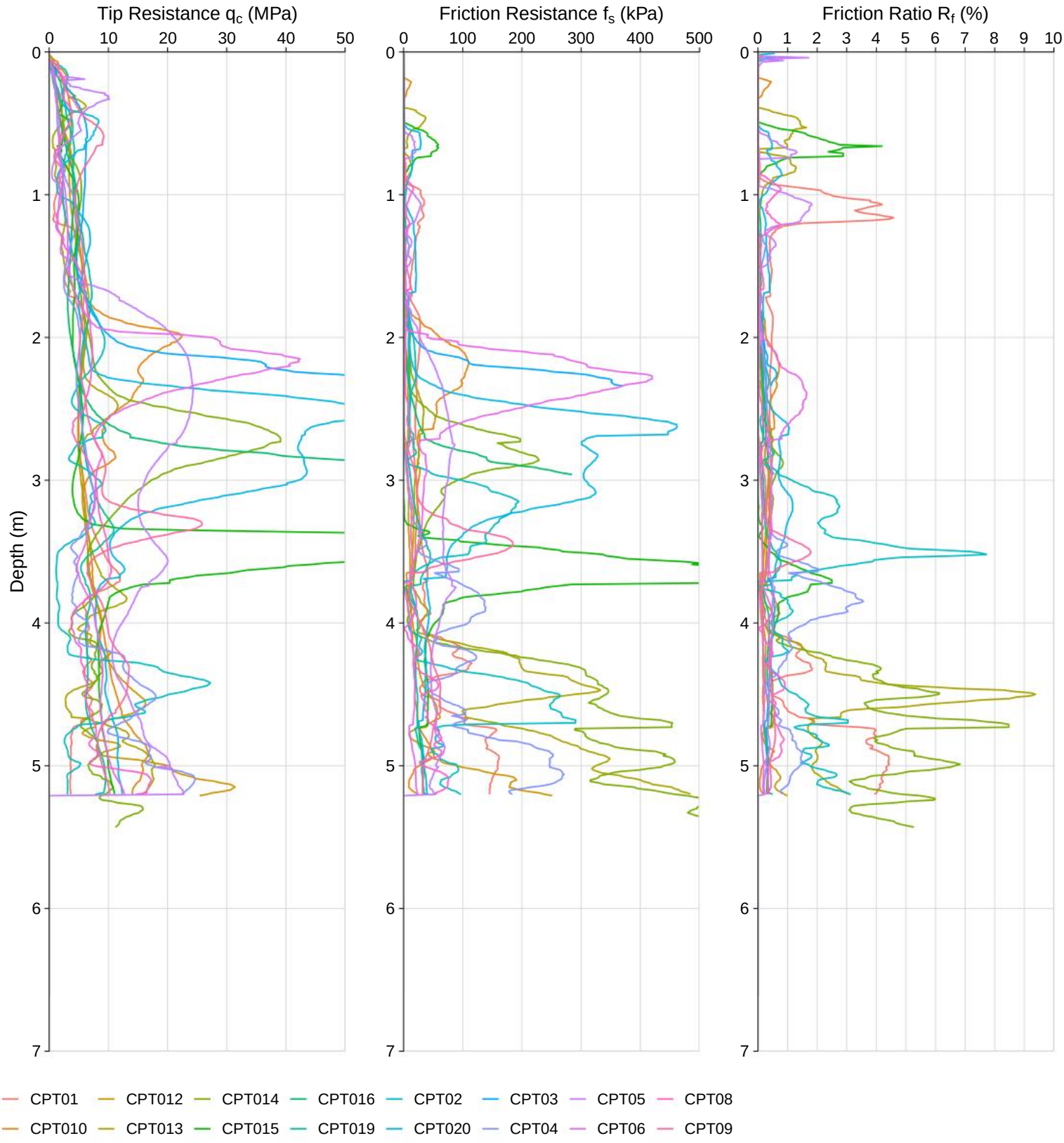
Reference: Robertson, P.K., Campanella, R.G., Gillespie, D. and Grieg, J. (1986) "Use of Piezometer Cone Data". Proceedings of the ASCE Speciality Conference In Situ '86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE)

Galt GEOTECHNICS

CONE PENETRATION TESTING (CPT) SOIL TYPE INTERPRETATION

CONE PENETRATION TEST

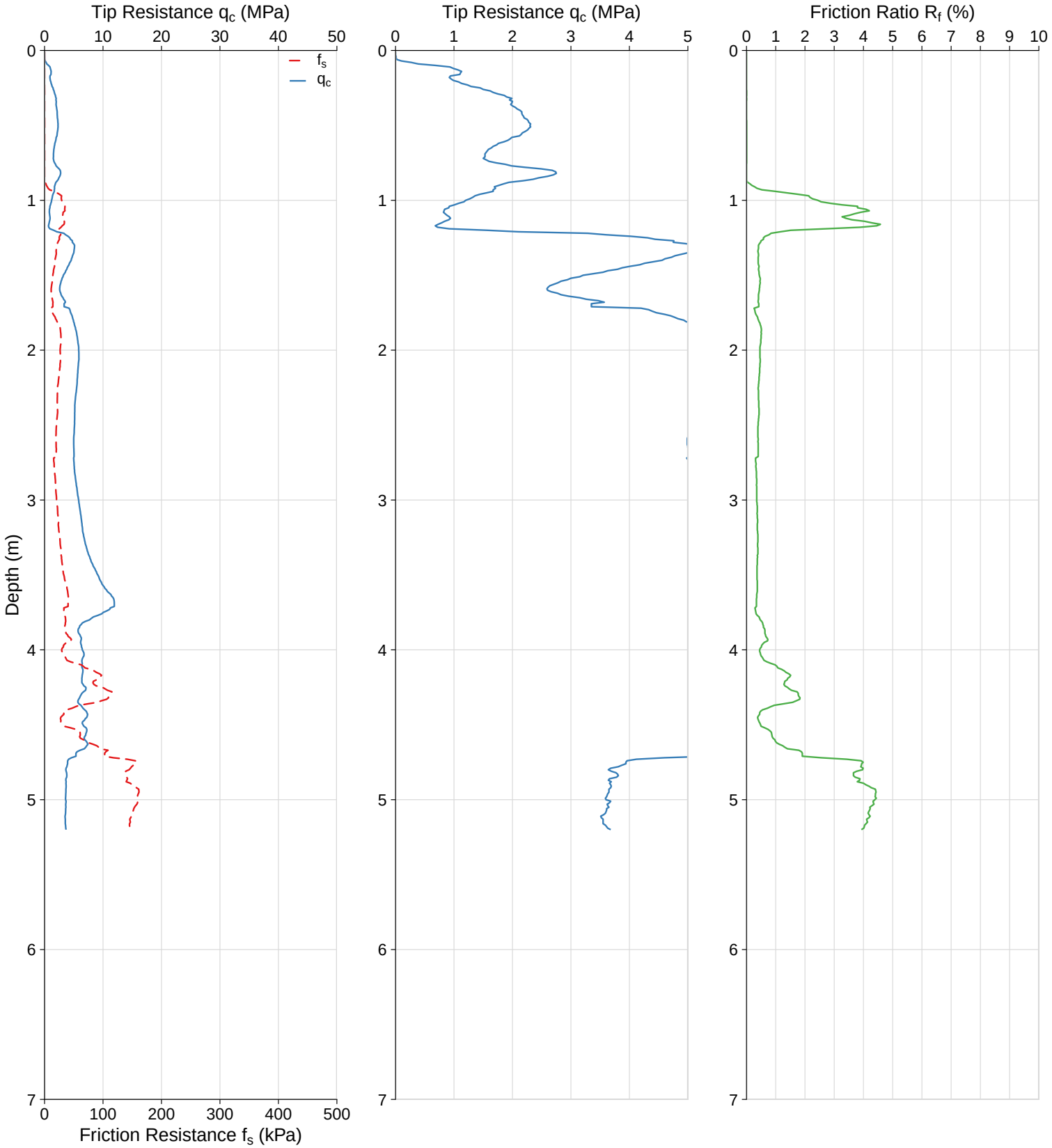
ALL TESTS		**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



RIG: Pagani TG 73-200 200kN

CONE PENETRATION TEST

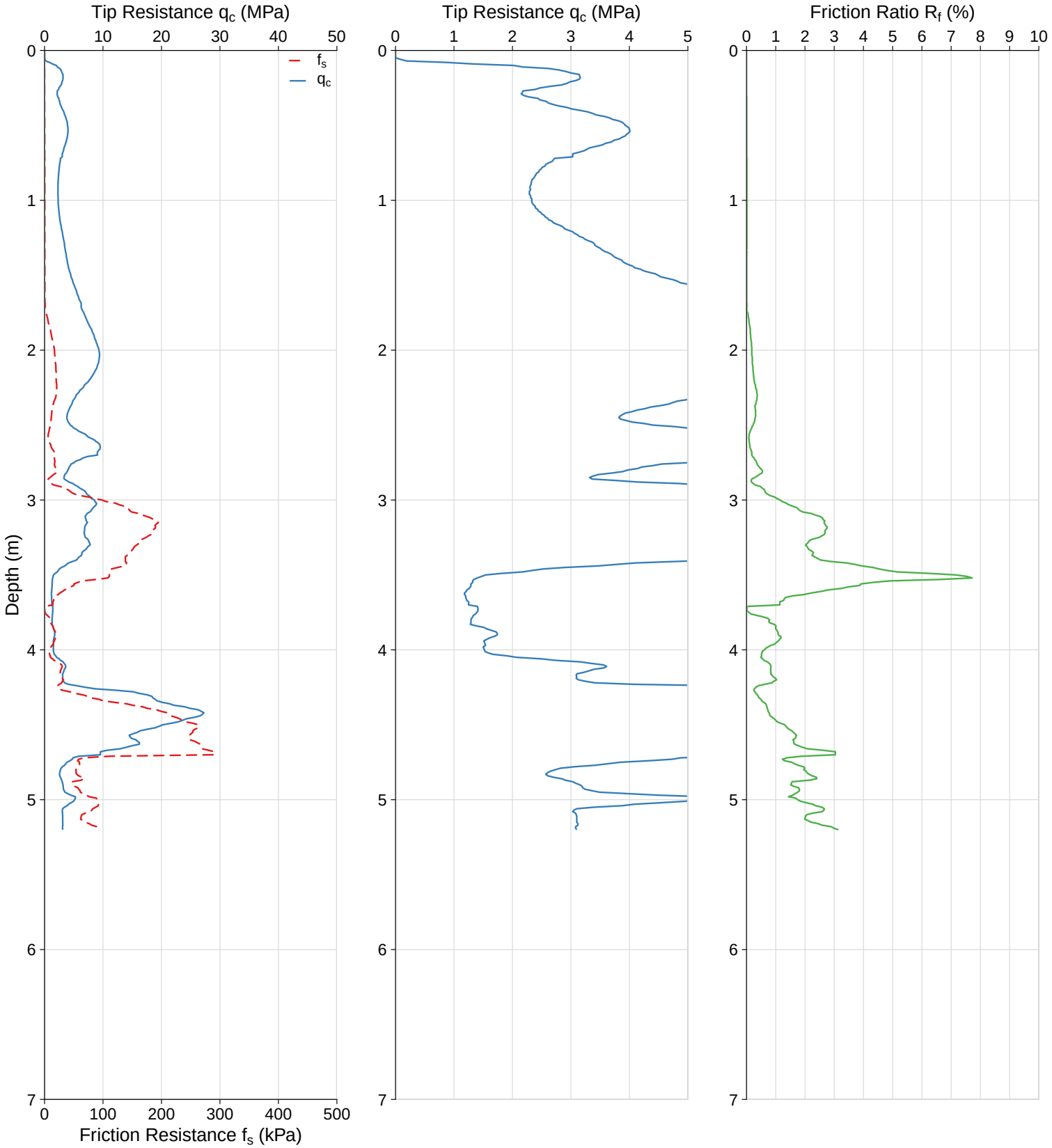
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

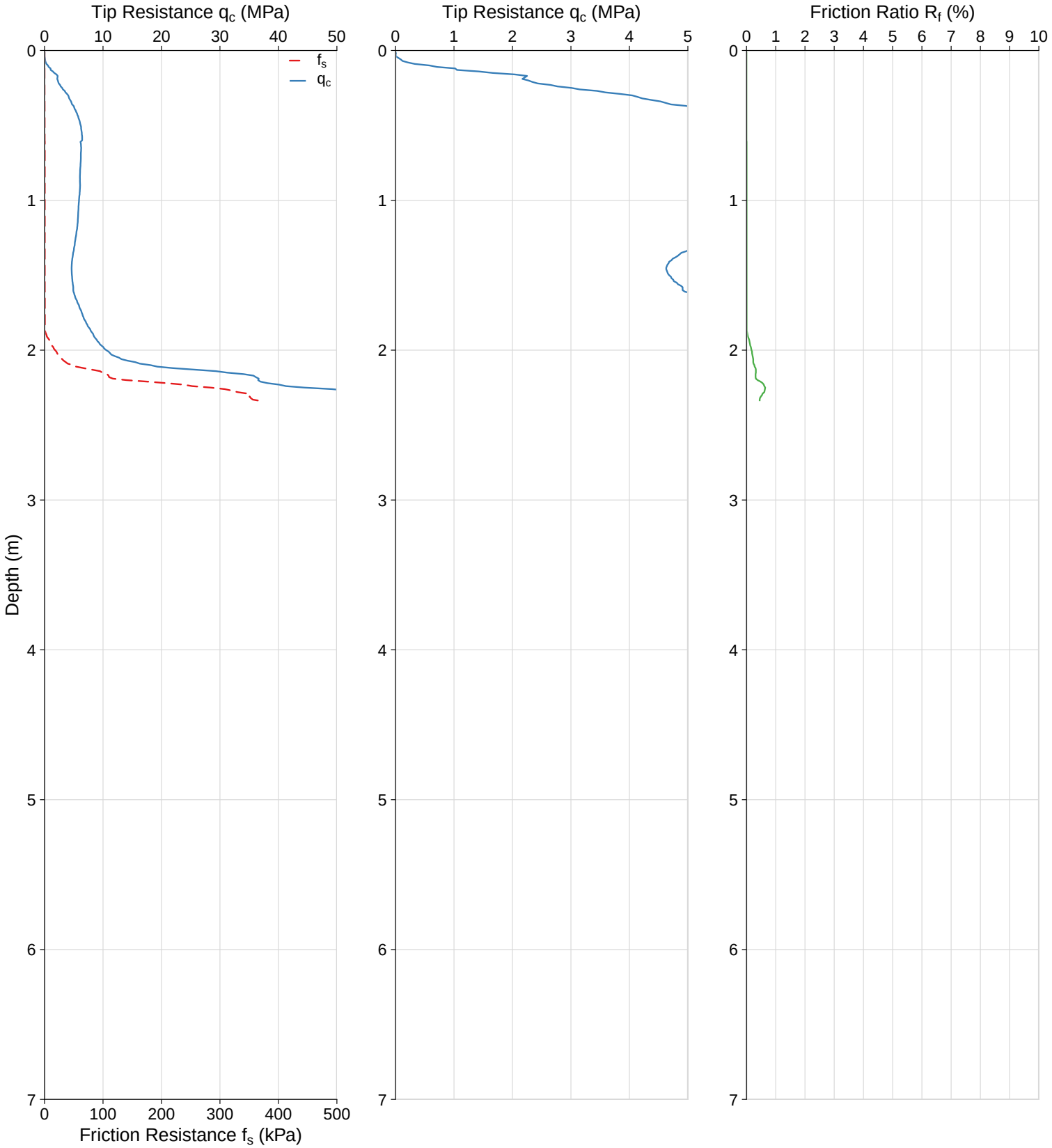
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

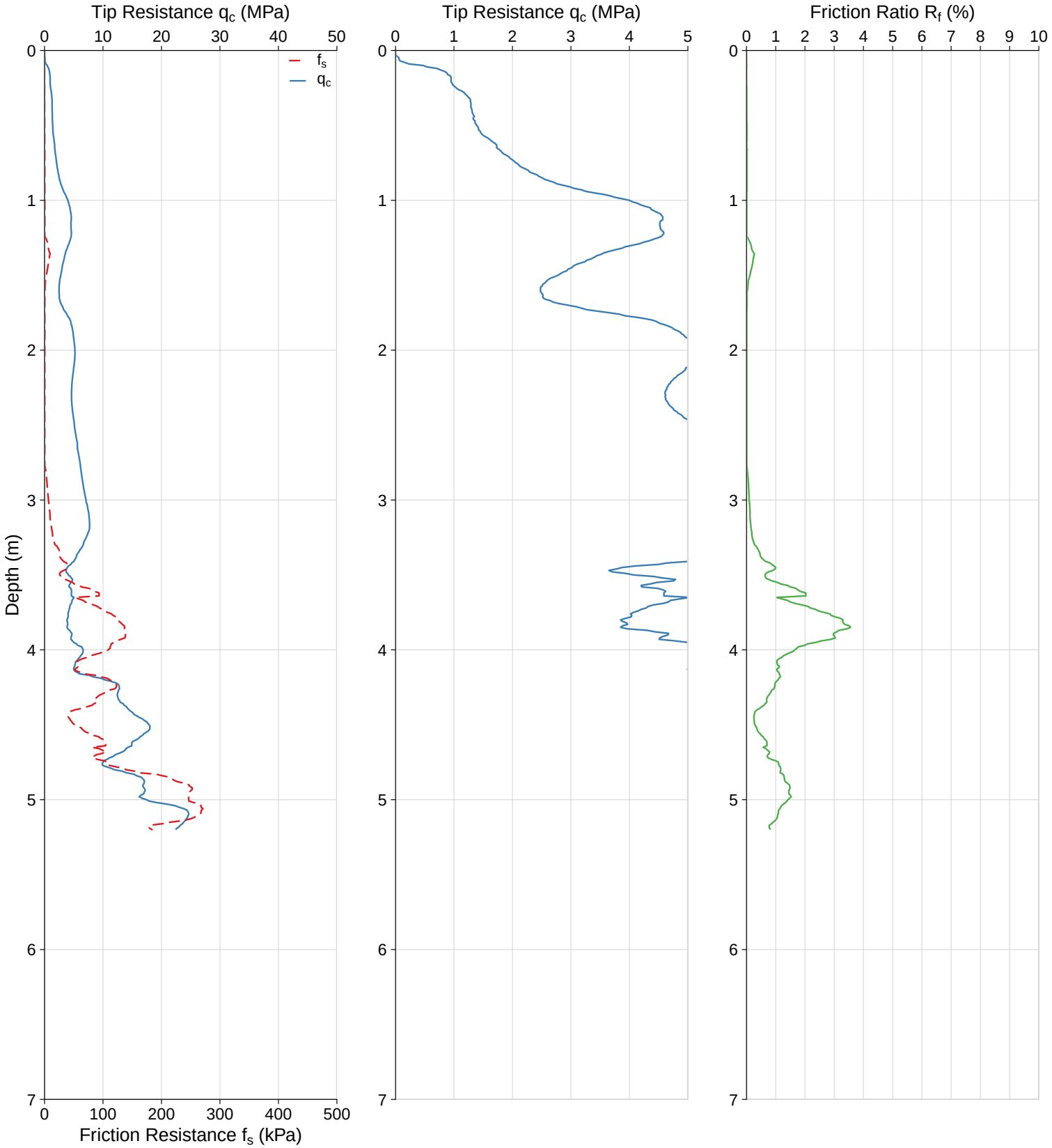
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.7m	**CO-ORDS:**	
TERMINATION:	Refused, 2.34m	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

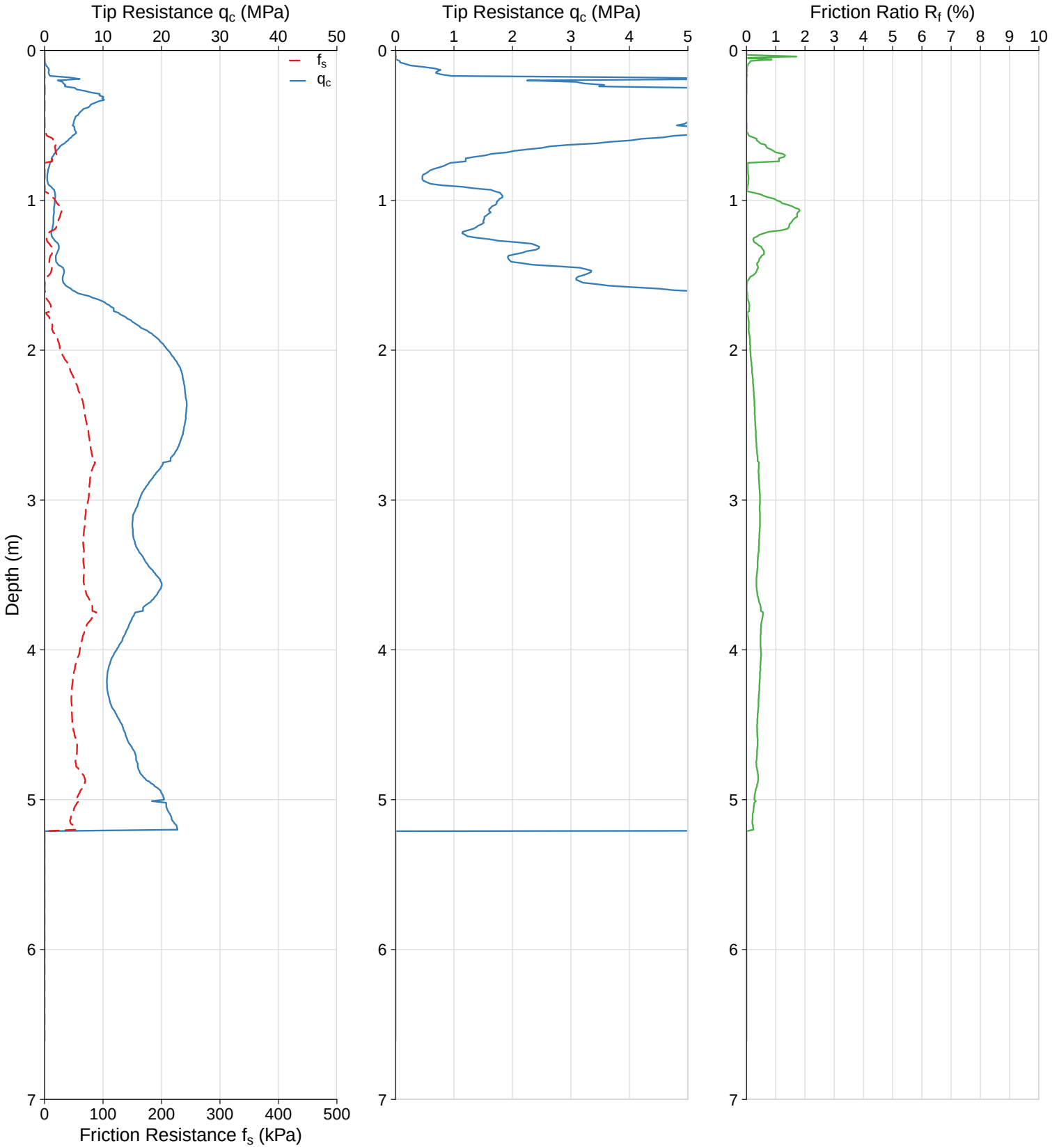
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

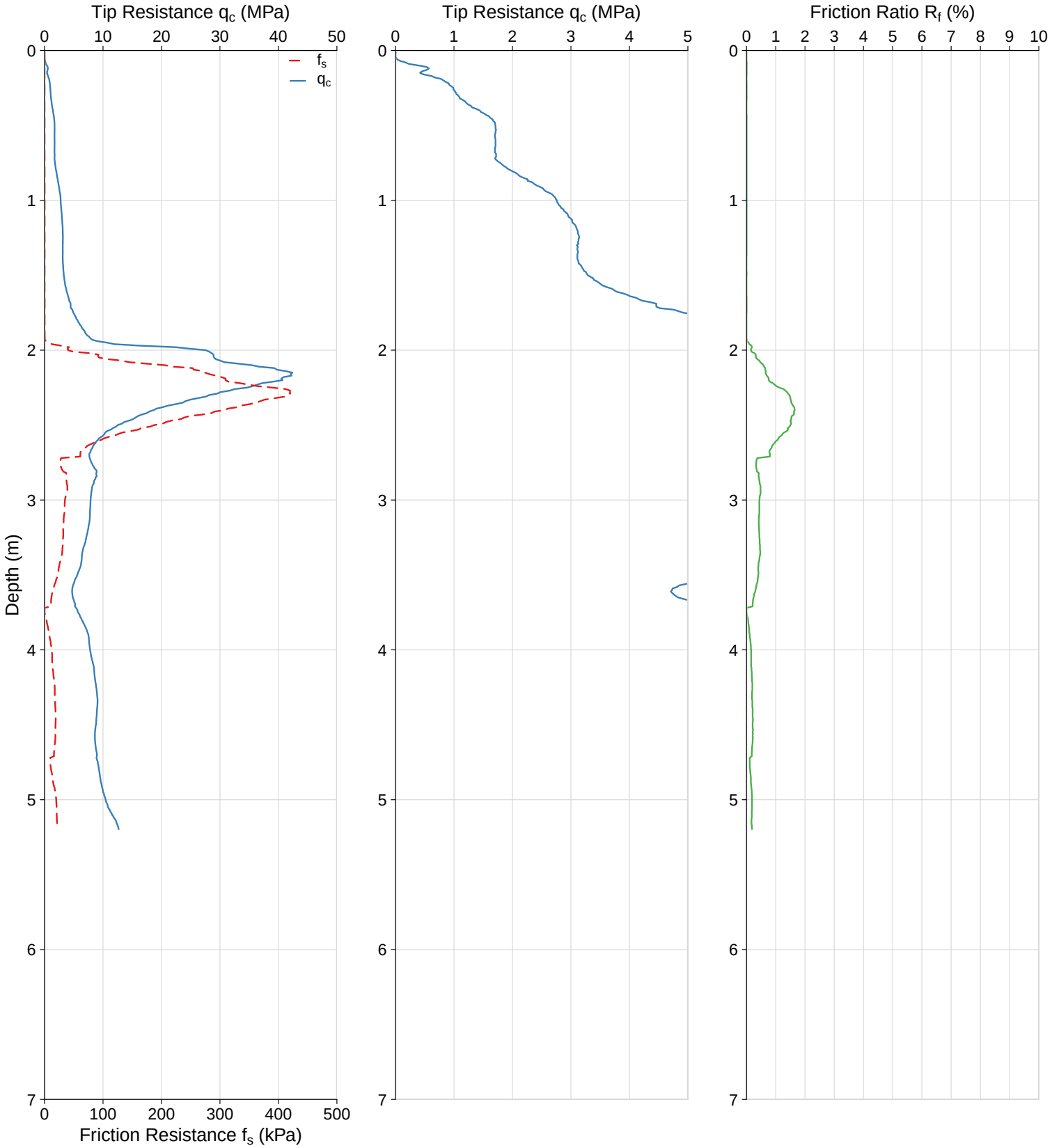
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

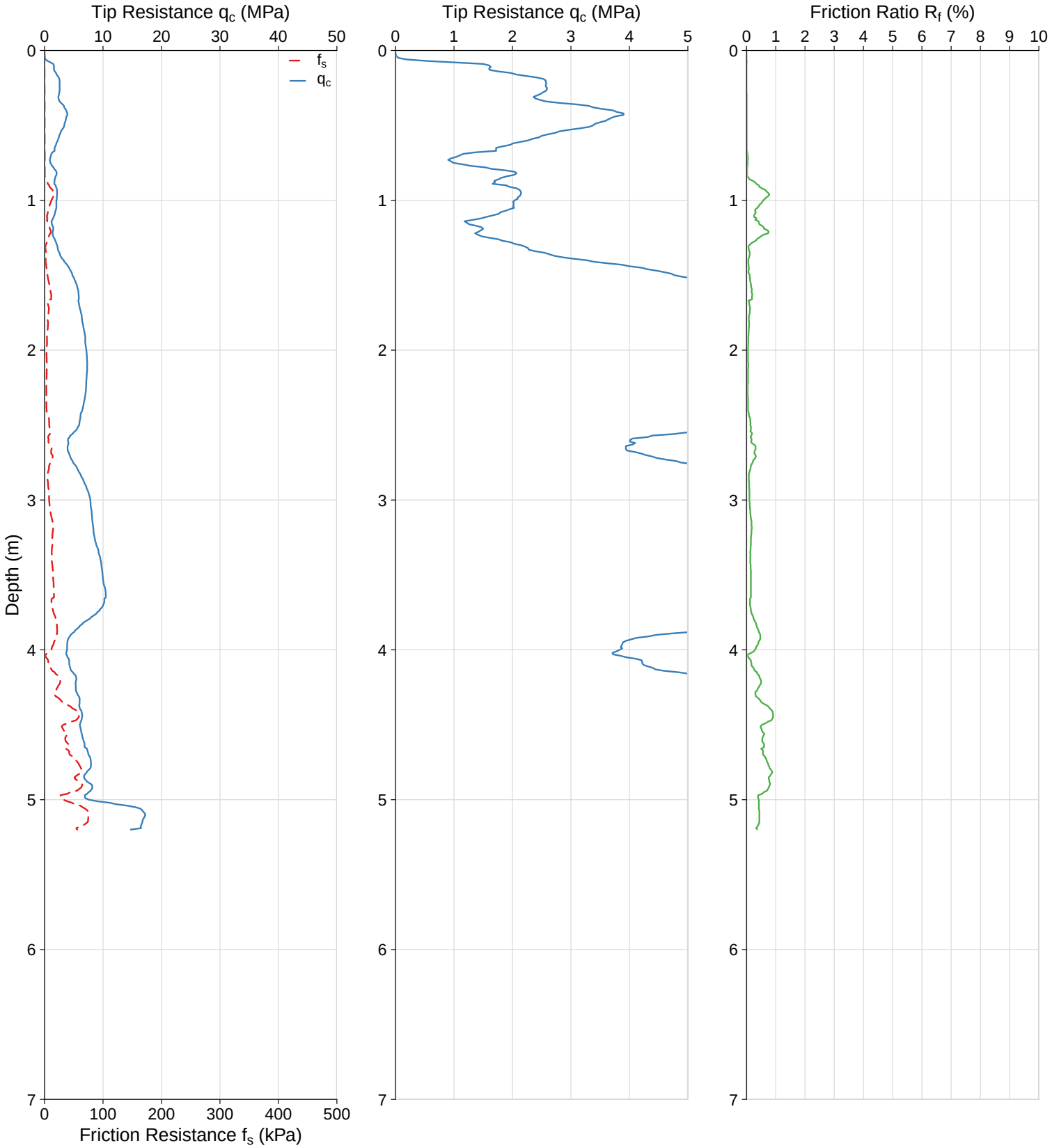
CPT ID:	CPT06	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

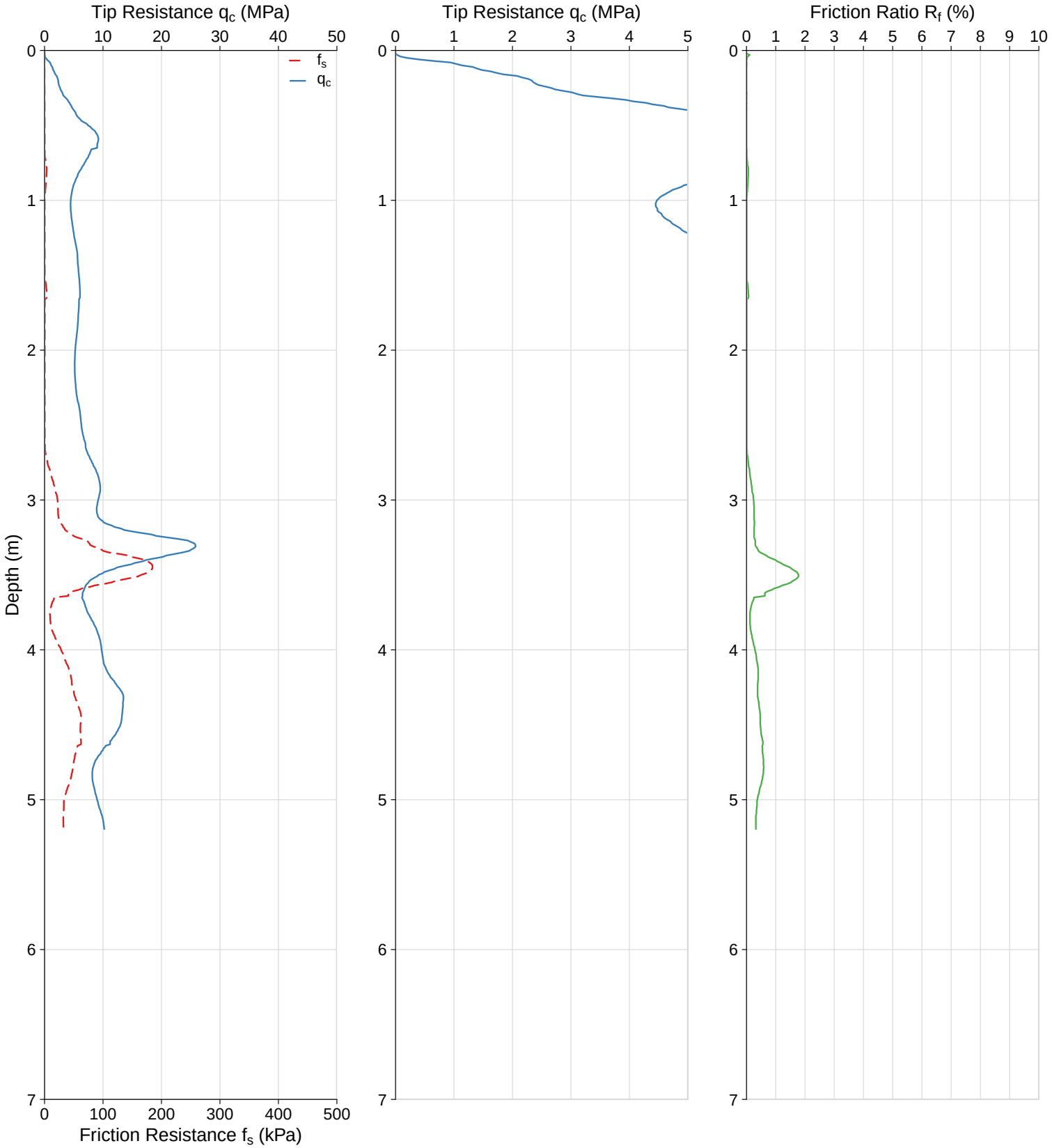
CPT ID:	CPT08	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

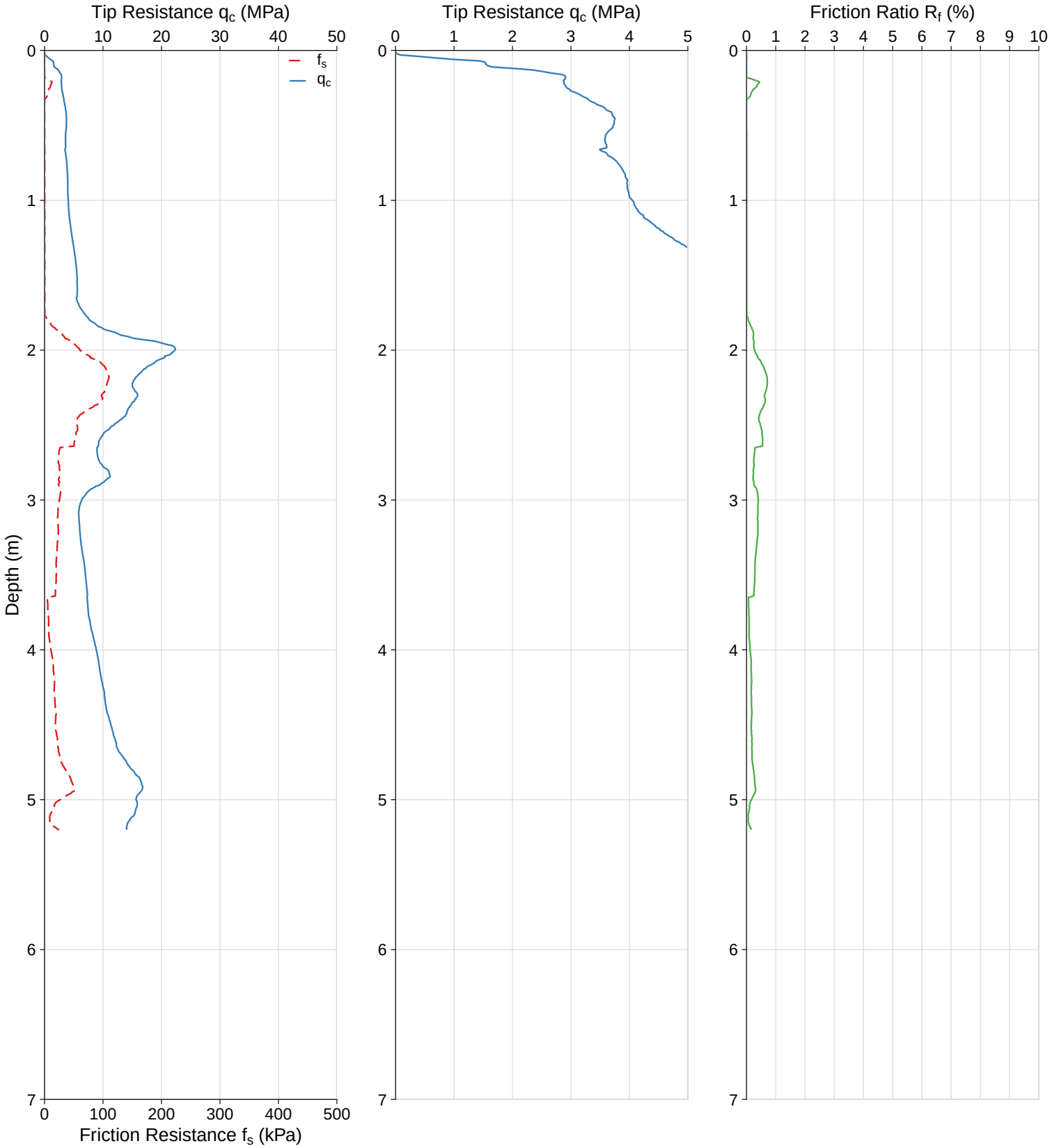
CPT ID:	CPT09	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

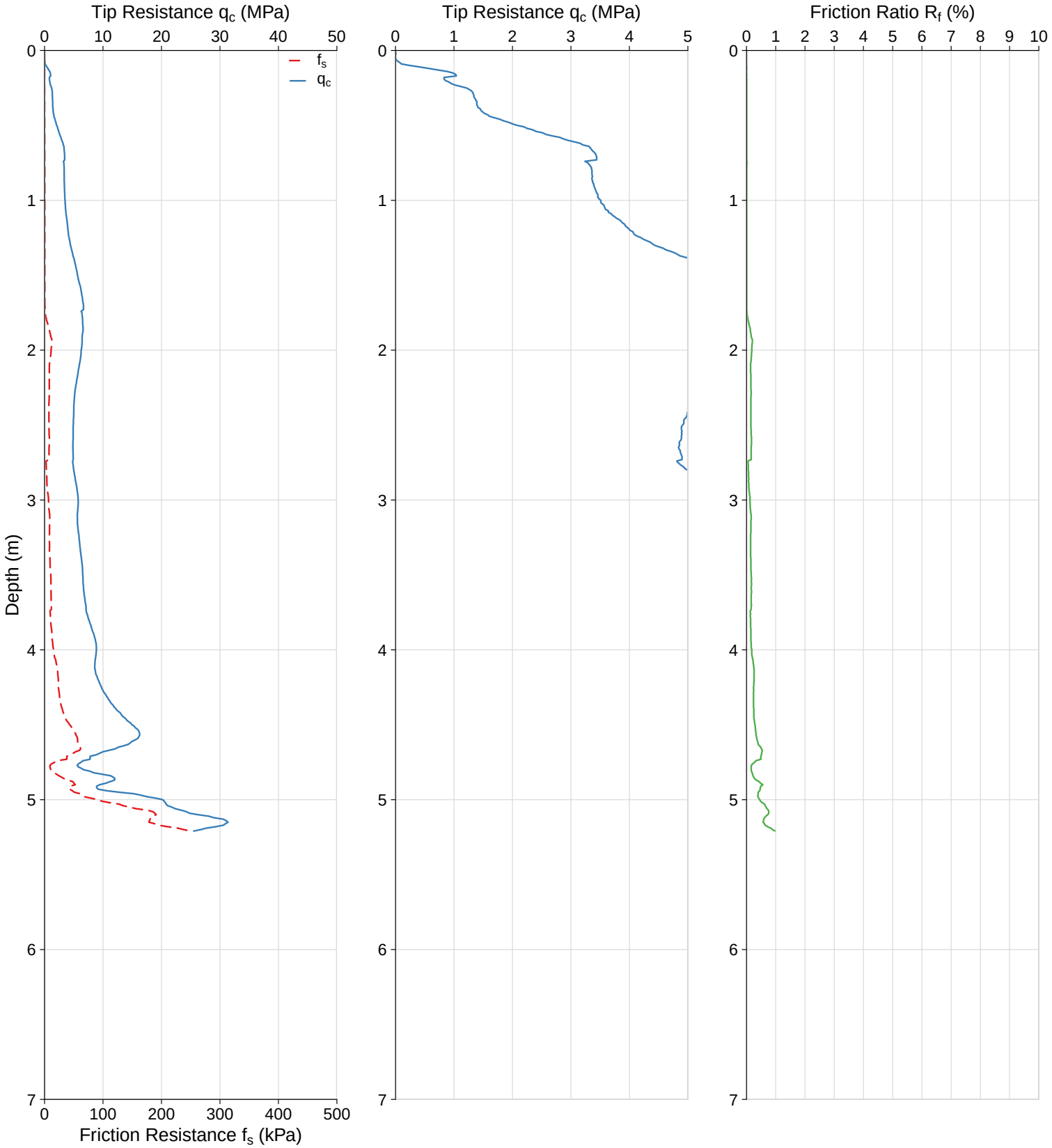
CPT ID:	CPT010	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

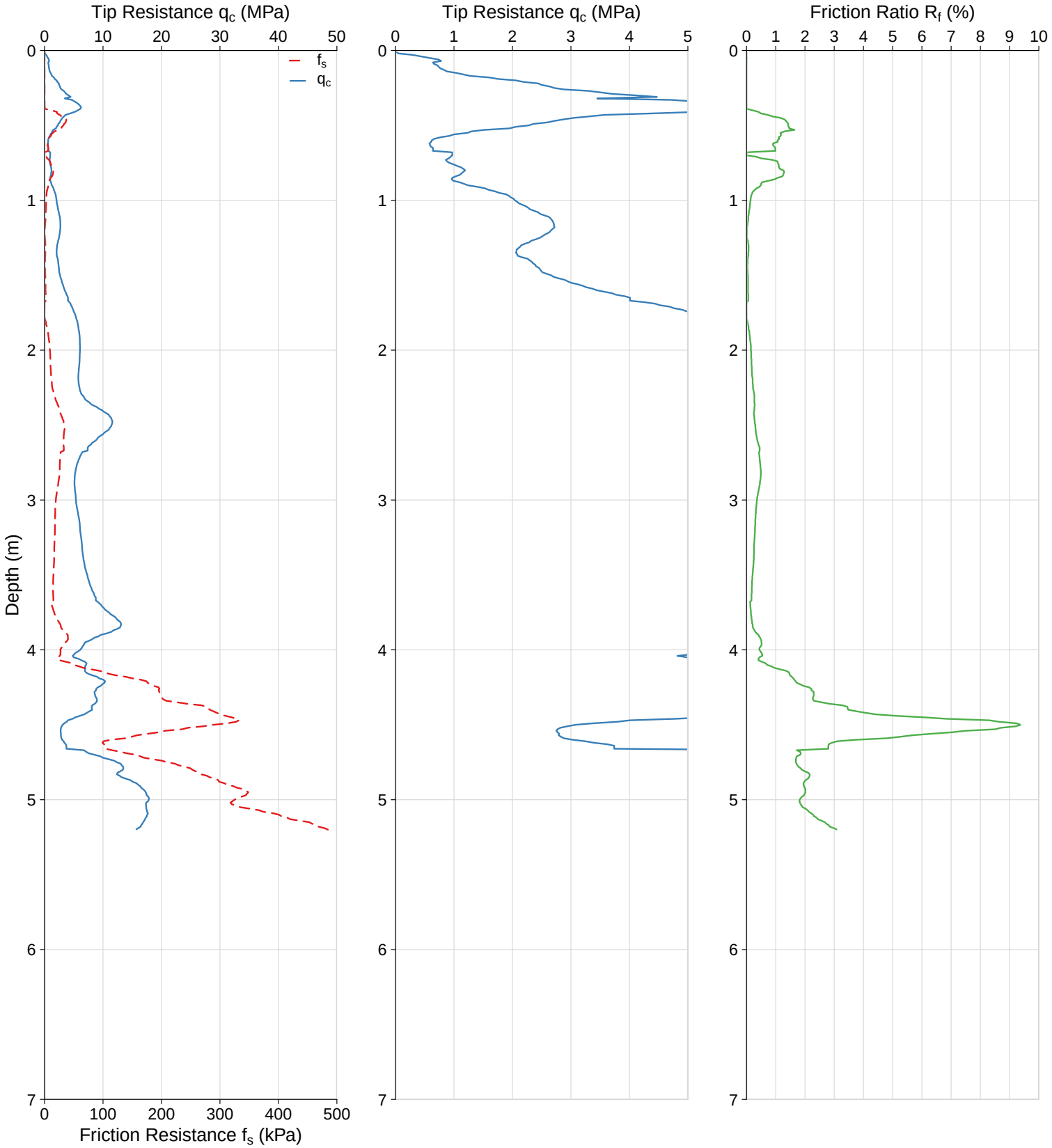
CPT ID:	CPT012	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

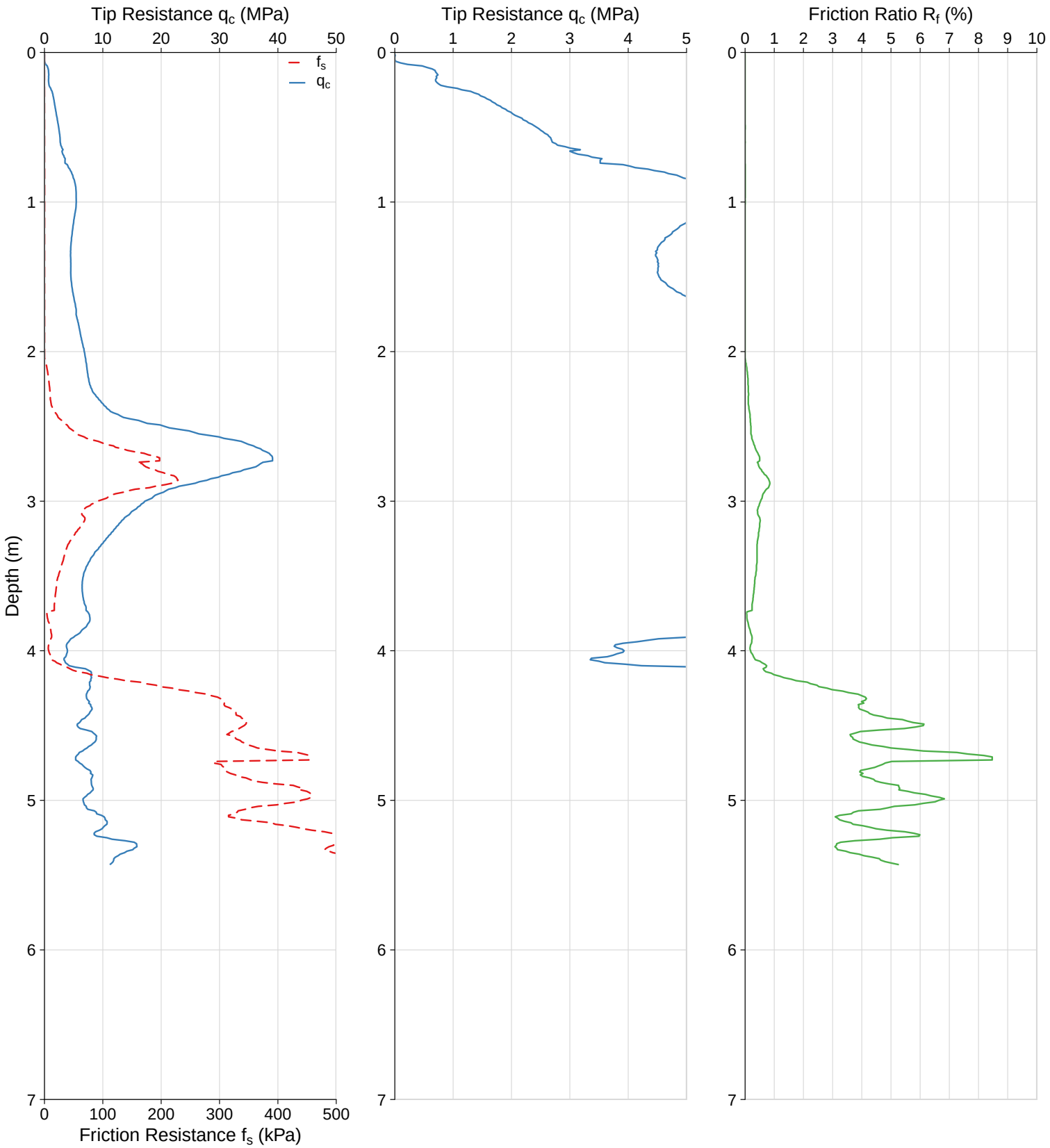
CPT ID:	CPT013	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Wet surface	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

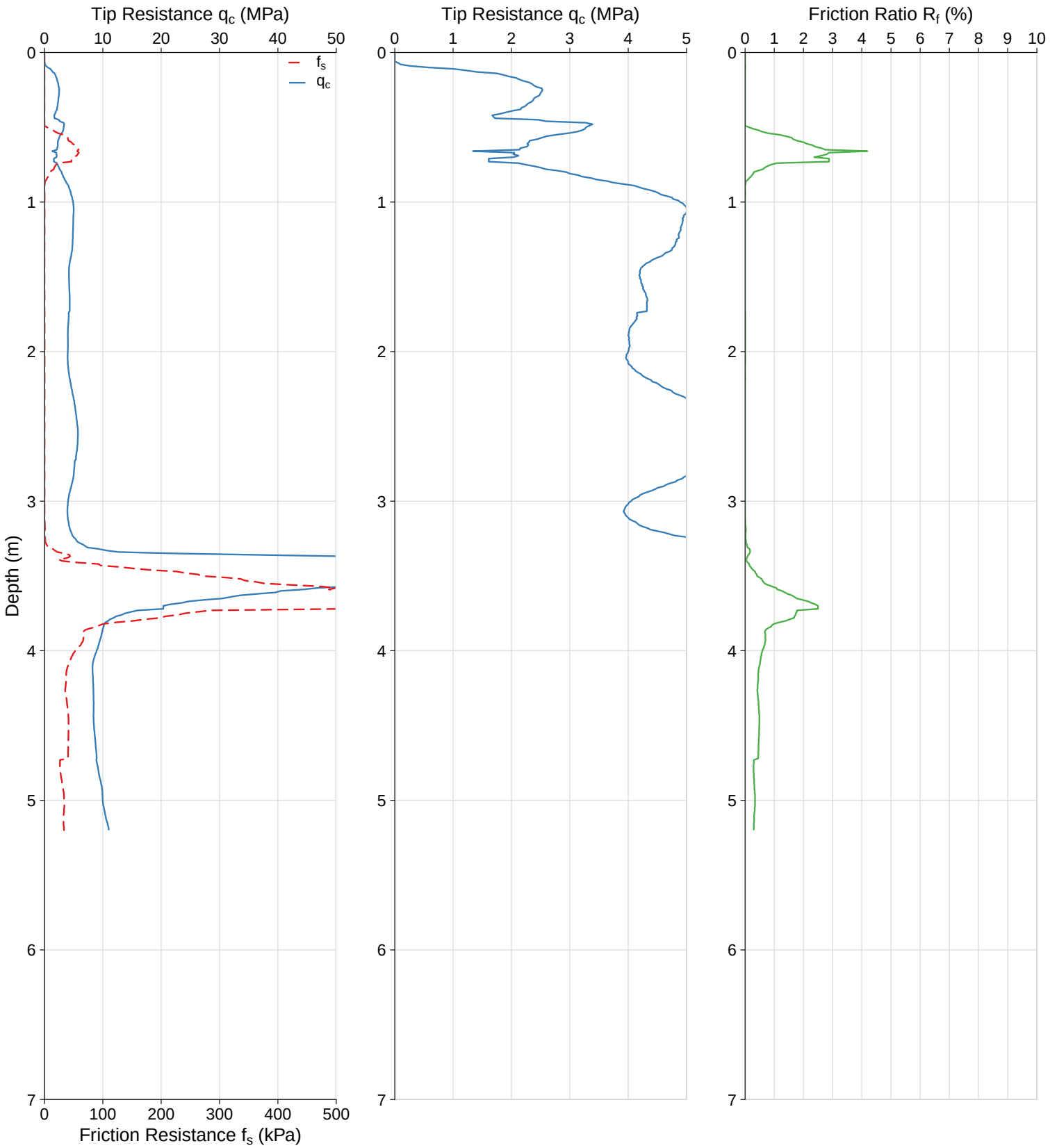
CPT ID:	CPT014	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

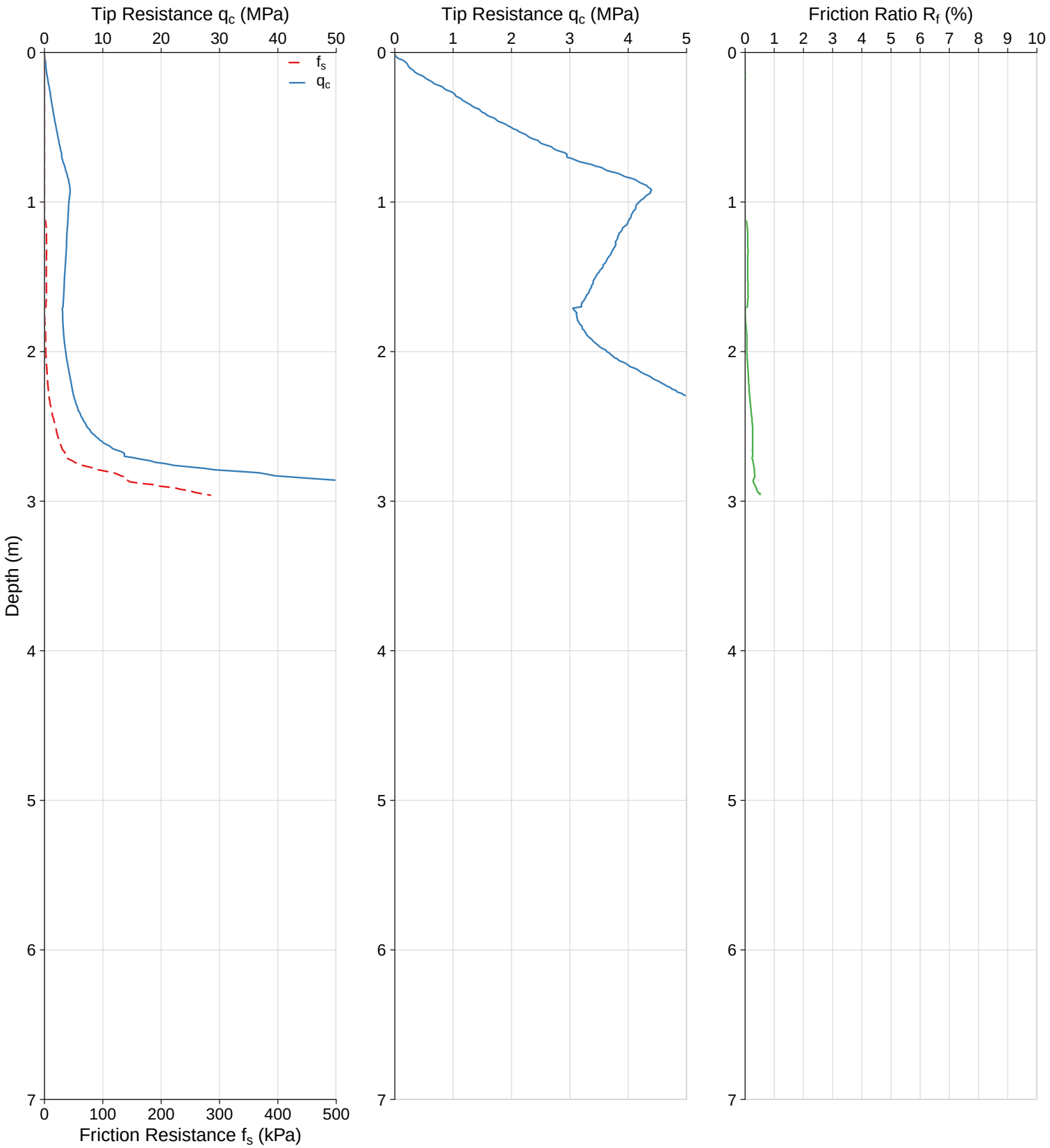
CPT ID:	CPT015	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

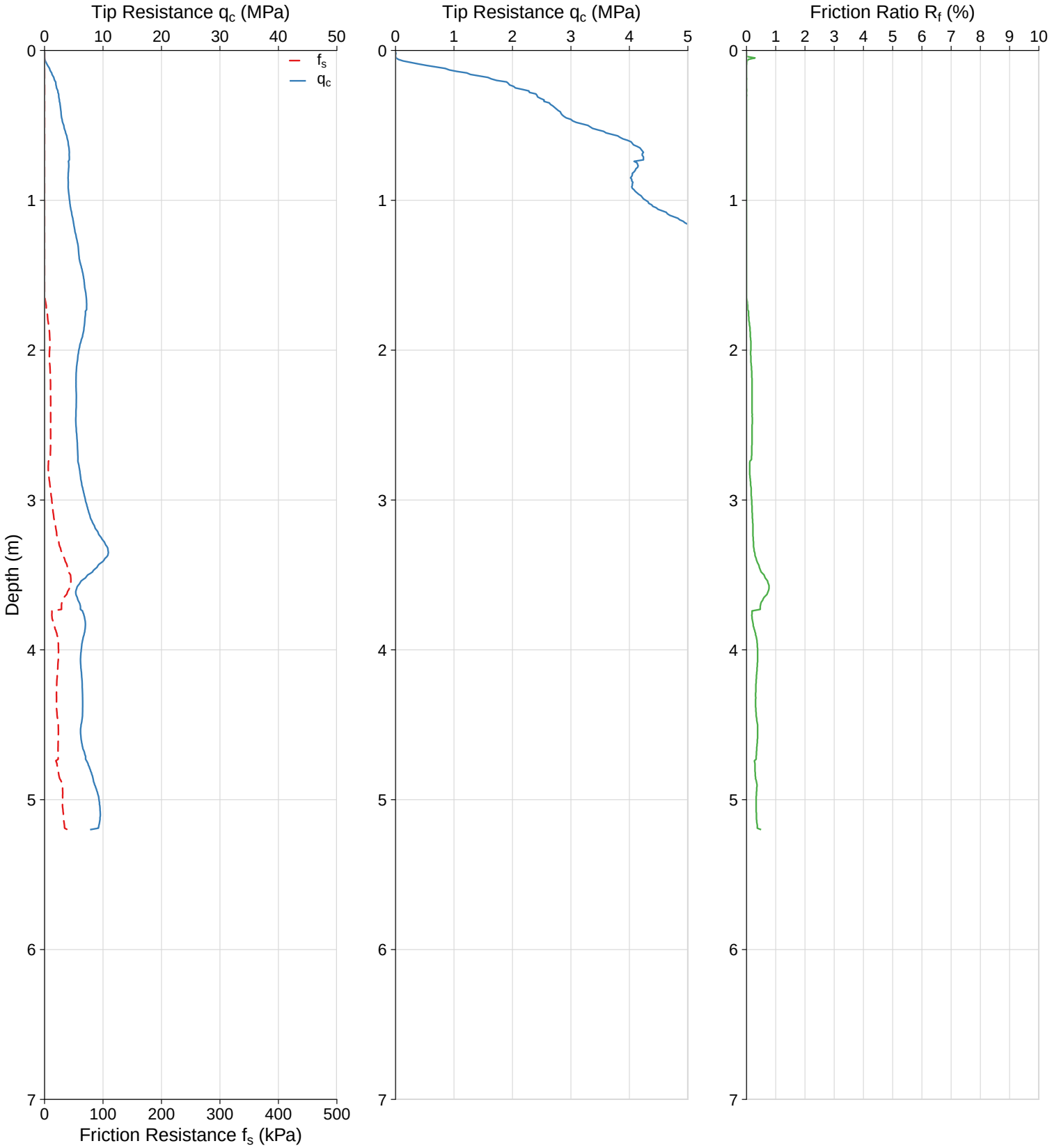
CPT ID:	CPT016	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 1.1m	**CO-ORDS:**	
TERMINATION:	Refused	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

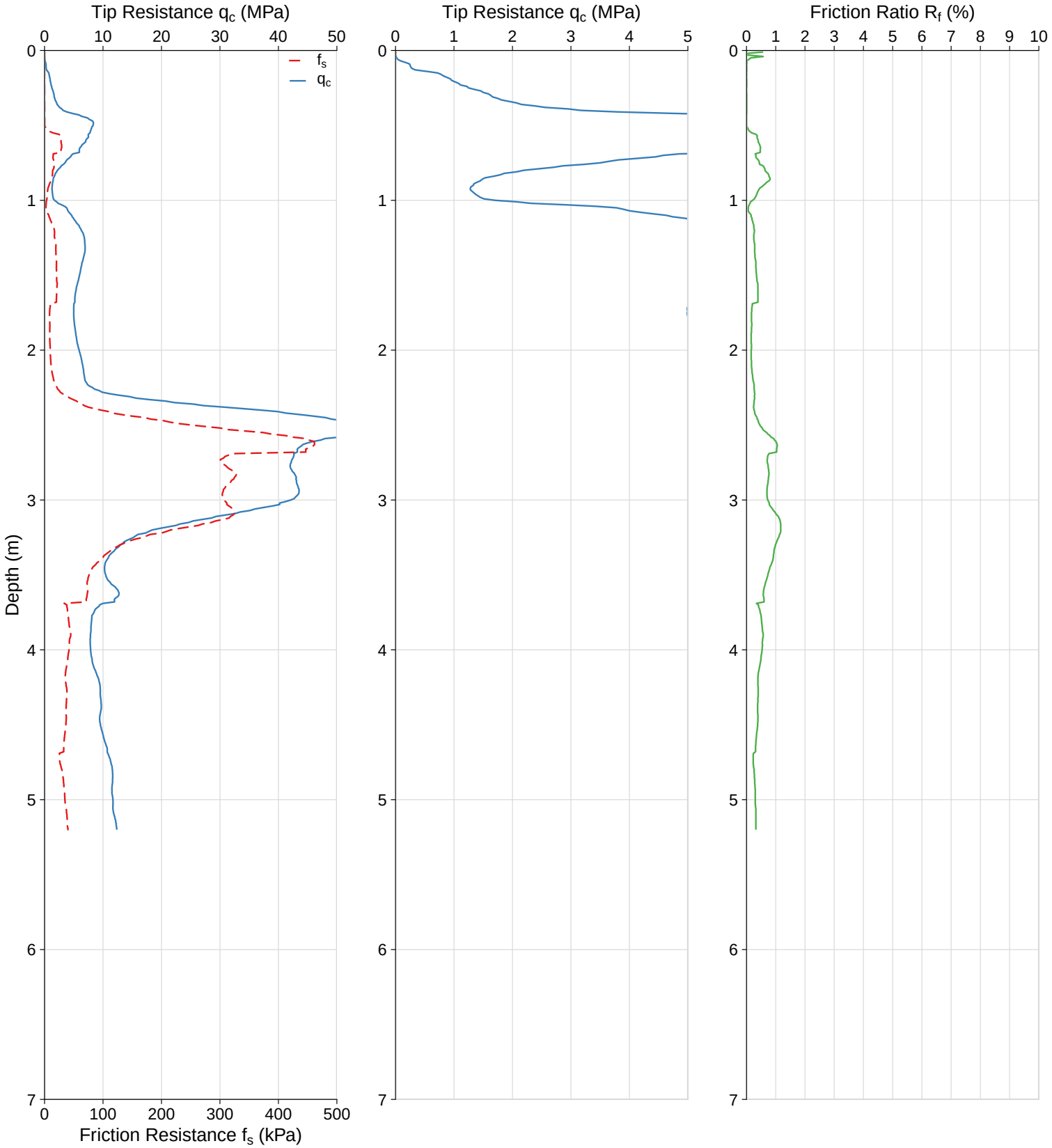
CPT ID:	CPT019	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

CPT ID:	CPT020	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

Appendix C: Borehole Logs

METHOD OF SOIL DESCRIPTION
BOREHOLE AND TEST PIT REPORTS

GRAPHIC LOG & SOIL CLASSIFICATION SYMBOLS

Graphic	USCS	Soil Name
		FILL (various types)
		COBBLES / BOULDERS
	GP	GRAVEL (poorly graded)
	GW	GRAVEL (well graded)
	GC	Clayey GRAVEL
	GM	Silty GRAVEL
	SP	SAND (poorly graded)
	SW	SAND (well graded)
	SC	Clayey SAND

Graphic	USCS	Soil Name
	SM	Silty SAND
	ML	SILT (low liquid limit)
	MH	SILT (high liquid limit)
	CL	CLAY (low plasticity)
	CI	CLAY (medium plasticity)
	CH	CLAY (high plasticity)
	OL	Organic SILT (low liquid limit)
	OH	Organic SILT (high liquid limit)
	Pt	PEAT

NOTE: Dual classification given for soils with a fines content between 5% and 12%.

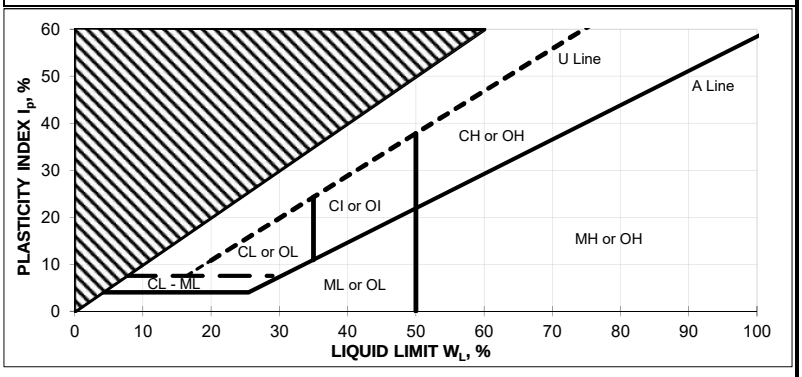
SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil descriptions are based on AS1726-2017. Material properties are assessed in the field by visual/tactile methods in combination with field and laboratory testing techniques (where used).

NOTE: AS 1726-2017 defines a fine grained soil where the total dry mass of fine fractions (<0.075 mm particle size) exceeds 35%.

PARTICLE SIZE		
Soil Name		**Particle Size (mm)**
BOULDERS		>200
COBBLES		63 to 200
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.3 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
FINES	SILT	0.002 to 0.075
	CLAY	<0.002

PLASTICITY - MODIFIED CASAGRANDE CHART - AS1726-2017



RESISTANCE TO EXCAVATION		
Symbol	**Term**	**Description**
VE	Very easy	All resistances are relative to the selected method of excavation
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION	
Symbol	**Term**
D	Dry
M	Moist
W	Wet

CEMENTATION	
Cementation	**Description**
Weakly cemented	Soil may be easily disaggregated by hand in air or water
Moderately cemented	Effort is required to disaggregate the soil by hand in air or water

CONSISTENCY		
Symbol	**Term**	**Undrained Shear Strength (kPa)**
VS	Very Soft	0 to 12
S	Soft	12 to 25
F	Firm	25 to 50
St	Stiff	50 to 100
VSt	Very Stiff	100 to 200
H	Hard	>200

ORGANIC SOILS	
Material	**Organic Content % of dry mass**
Inorganic soil	<2%
Organic soil	2% to 25%
Peat	>25%

DENSITY		
Symbol	**Term**	**Density Index (%)**
VL	Very Loose	<15
L	Loose	15 to 35
MD	Medium Dense	35 to 65
D	Dense	65 to 85
VD	Very Dense	>85

EXPLANATORY NOTES TO BE READ WITH BOREHOLE AND TEST PIT REPORTS

METHOD OF DRILLING OR EXCAVATION

AC	Air Core	E	Excavator	PQ3	PQ3 Core Barrel
AD/T	Auger Drilling with TC-Bit	EH	Excavator with Hammer	PT	Push Tube
AD/V	Auger Drilling with V-Bit	HA	Hand Auger	R	Ripper
AT	Air Track	HE	Hand Excavation	RR	Rock Roller
B	Bulldozer Blade	HQ3	HQ3 Core Barrel	SON	Sonic Rig
BH	Backhoe Bucket	N	Natural Exposure	SPT	Driven SPT
CT	Cable Tool	NMLC	NMLC Core Barrel	WB	Washbore
DT	Diatube	PP	Push Probe	X	Existing Excavation

SUPPORT

T	Timbering

PENETRATION EFFORT (RELATIVE TO THE EQUIPMENT USED)

VE	Very Easy	E	Easy	F	Firm
H	Hard	VH	Very Hard		

WATER

►	Water Inflow	▼	Water Level
◄	Water Loss (complete)		
◁	Water Loss (partial)		

SAMPLING AND TESTING

B	Bulk Disturbed Sample	P	Piston Sample
BLK	Block Sample	PBT	Plate Bearing Test
C	Core Sample	U	Undisturbed Push-in Sample
CBR	CBR Mould Sample		U50: 50 mm diameter
D	Small Disturbed Sample	SPT	Standard Penetration Test
ES	Environmental Soil Sample		Example: 3, 4, 5 N=9
EW	Environmental Water Sample		3,4,5: Blows per 150 mm
G	Gas Sample		N=9: Blows per 300 mm after
HP	Hand Penetrometer		150 mm seating interval
LB	Large Bulk Disturbed Sample	VS	Vane Shear; P = Peak
M	Mazier Type Sample		R = Remoulded (kPa)
MC	Moisture Content Sample	W	Water Sample

ROCK CORE RECOVERY

TCR = Total Core Recovery (%) $= \frac{CRL}{TCL} \times 100$

RQD = Rock Quality Designation (%) $= \frac{ALC>100}{TCL} \times 100$

TCL	Length of Core Run
CRL	Length of Core Recovered
ALC>100	Total Length of Axial Lengths of Core Greater than 100 mm Long

BOREHOLE: BH01

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V						SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, trace fines, trace organics (0.1)	M		0	
								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, trace fines				
0.5											0.5	
1									M		1	
1.5							SP				1.5	
2			▼								2	
2.5									W		2.5	
3								(3.0)			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 2.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH02

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH02-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, brown, trace to with gravel, trace fines, trace organics	M		0	
								0.3				
0.5							SP/SM	SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, with fines, trace to with organics			0.5	
								0.9				
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, low plasticity clay, trace gravel, trace organics	W		1	
1.5											1.5	
2								2.0			2	
							SC	pale grey mottled dark grey				
								2.3				
2.5							SC/CL	Sandy CLAY/Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, low to medium plasticity clay			2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH03

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH03-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.1 SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey-white, trace fines				
0.5											0.5	
1							SP		M		1	
1.5											1.5	
2								2.0 grey			2	
2.5							SP		W		2.5	
								2.6 trace coffee rock gravel				
3							SP	3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH04

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH04-01		SP/SM	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey mottled brown, trace to with fines, with organics 0.2	M		0	No Guelph testing due to high ground water
							SP/SM	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace to with fines, trace organics 0.7	W			
0.5							SC	Organic Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark brown, medium plasticity clay 1.4	W		0.5	
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, brown/grey, low plasticity clay 2.0	W		1	
1.5							SP-SC	Fine to coarse grained, sub-angular to sub-rounded, dark grey/white, with fines 3.0			1.5	
2											2	
2.5											2.5	
3								Borehole terminated at 3.0 m, target depth Groundwater encountered at 0.1 m depth			3	

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH04
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH05

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace fines, trace organics	M		0	
								0.3				
0.5							SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fines	W		0.5	
1								1.3			1	

Borehole terminated at 1.3 m, due to collapse
Groundwater encountered at 0.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH05
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH06

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH06-01		SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, brown-grey, trace fines, trace organics	M		0	
								0.3				
							SP/SC	SAND: fine to coarse grained, sub-angular to sub-rounded, brown-grey, with fines, trace organics	W			
								2.0				
							SP/SC	grey	W			
								2.6				
							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, grey, low plasticity clay	W			
								3.0				

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.4 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH06
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH09

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

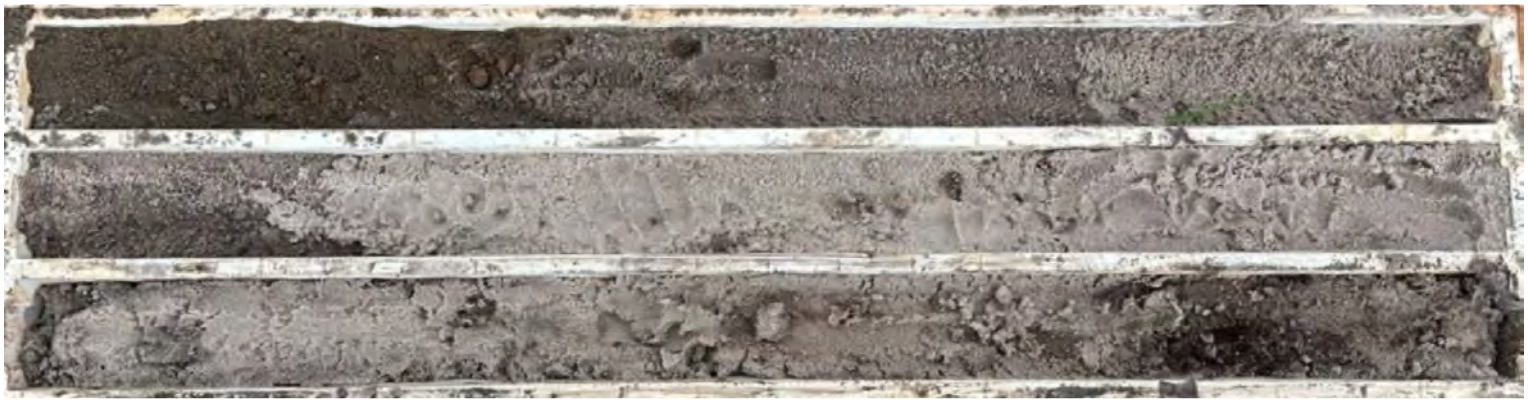
Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	FILL: TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, trace lateritic gravel, trace/with organics	M		0	
								0.3				
							SP	SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines	M			
0.5											0.5	
1								1.3			1	
							SP	pale grey	M			
1.5											1.5	
								2.0				
2							SP	pale grey mottled dark grey	W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH09
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH10

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.3				
0.5								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey/white, trace fines			0.5	
1				Bulk	BH10-01				M		1	
1.5							SP				1.5	
2									W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH10
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH11

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH11/0.00			Grass (0.1)		0	
				ASS	BH11/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, with fine to coarse grained gravel (up to 0.6 m) trace fines			
0.5				ASS	BH11/0.50			(0.6)	M	0.5	
				ASS	BH11/0.75		SP	becomes dark grey			
1				ASS	BH11/1.00			(1.1)		1	
				ASS	BH11/1.25		SP	becomes fine to coarse grained, pale grey	W		
1.5				ASS	BH11/1.50					1.5	
				ASS	BH11/1.75						
2				ASS	BH11/2.00					2	
				ASS	BH11/2.25						
2.5				ASS	BH11/2.50					2.5	
				ASS	BH11/2.75						
3				ASS	BH11/3.00			(3.0)		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH11
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH12/MW01

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH12/MW01/0.00		PT	PEAT: Fiberous, spongy, organic odour, dark brown, with sand	M	0	SUP; Concrete	SUP: +0.68 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.4 Gravel: 0.4-3.0
				ASS	BH12/MW01/0.25						Bentonite; Solid	
	0.5			ASS	BH12/MW01/0.50			0.6		0.5		
				ASS	BH12/MW01/0.75		SP	Organic SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey				
	1			ASS	BH12/MW01/1.00					1		
				ASS	BH12/MW01/1.25			1.4				
	1.5			ASS	BH12/MW01/1.50		SP	SAND: fine to medium grained, sub-angular to sub-rounded, pale brown/grey, trace fines	W	1.5		
				ASS	BH12/MW01/1.75						Gravel; Screen	
	2			ASS	BH12/MW01/2.00					2		
				ASS	BH12/MW01/2.25							
	2.5			ASS	BH12/MW01/2.50			2.6		2.5		
				ASS	BH12/MW01/2.75		SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, blue grey, low plasticity clay				
	3			ASS	BH12/MW01/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH12/MW01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH13

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH13/0.00			Grass (0.1)	M	0	
				ASS	BH13/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, trace fines			
0.5				ASS	BH13/0.50					0.5	
				ASS	BH13/0.75						
1				ASS	BH13/1.00				W	1	
				ASS	BH13/1.25						
1.5				ASS	BH13/1.50					1.5	
				ASS	BH13/1.75		SP	becomes fine to coarse grained (1.7)			
2				ASS	BH13/2.00			becomes pale brown/grey (2.0)		2	
				ASS	BH13/2.25						
2.5				ASS	BH13/2.50		SP			2.5	
				ASS	BH13/2.75						
3				ASS	BH13/3.00			(3.0)		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.9 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH13
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH14/MW03

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH14/MW03/0.00		SP	Gravelly SAND: sub-angular to sub-rounded, fine to medium grained sand, brown, rounded to sub-rounded, fine to medium grained gravel, trace fines	M	0	SUP Concrete	SUP: +0.65 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH14/MW03/0.25						Solid Bentonite	
	0.5			ASS	BH14/MW03/0.50					0.5		
				ASS	BH14/MW03/0.75			0.9				
	1			ASS	BH14/MW03/1.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace gravel (up to 1.5 m), trace fines		1		
				ASS	BH14/MW03/1.25							
	1.5			ASS	BH14/MW03/1.50			1.5		1.5		
				ASS	BH14/MW03/1.75		SP	becomes brown	W		Gravel Screen	
	2			ASS	BH14/MW03/2.00			2.0		2		
				ASS	BH14/MW03/2.25			Sandy CLAY: low plasticity, blue grey, sub-angular to sub-rounded, fine to coarse grained sand				
	2.5			ASS	BH14/MW03/2.50		CL			2.5		
				ASS	BH14/MW03/2.75							
	3			ASS	BH14/MW03/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.28 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH14/MW03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH15

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH15/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace organics, trace fines	M	0.5	
				ASS	BH15/0.25						
				ASS	BH15/0.50						
								0.7			
				ASS	BH15/0.75		SP	becomes grey			
1				ASS	BH15/1.00					1	
				ASS	BH15/1.25						
1.5				ASS	BH15/1.50					1.5	
				ASS	BH15/1.75						
								1.8			
								becomes fine to coarse grained	W		
2				ASS	BH15/2.00					2	
				ASS	BH15/2.25		SP				
2.5				ASS	BH15/2.50					2.5	
				ASS	BH15/2.75						
3				ASS	BH15/3.00			3.0		3	
								Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.1 m depth			

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH15
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH16/MW02

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0			ASS	BH16/MW02/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace rootlets (up to 0.3 m), trace fines	M	0	SUP, Concrete	SUP: +0.62 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH16/MW02/0.25						Solid, Bentonite	
	0.3							becomes grey				
	0.5			ASS	BH16/MW02/0.50		SP			0.5		
	0.7							becomes fine to coarse grained				
				ASS	BH16/MW02/0.75							
	1			ASS	BH16/MW02/1.00					1		
				ASS	BH16/MW02/1.25		SP					
	1.5	E		ASS	BH16/MW02/1.50					1.5		
				ASS	BH16/MW02/1.75				W		Gravel, Screen	
	2.0											
	2			ASS	BH16/MW02/2.00			Gravelly SAND: sub-angular to sub-rounded, fine to medium grained, dark brown, angular to subangular, fine to coarse grained gravel, with coffee rock, trace/with fines		2		
				ASS	BH16/MW02/2.25							
	2.5			ASS	BH16/MW02/2.50		SP-SM			2.5		
				ASS	BH16/MW02/2.75							
	3			ASS	BH16/MW02/3.00					3		
	3.0							Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.15 m depth				

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH16/MW02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

Appendix D: Guelph Permeameter Test Results

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH01/G01

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	38	cm
H	Head of water above base	8	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	52		
0.5	40	12.00	24.00
1	30	10.00	20.00
1.5	20.5	9.50	19.00
2	10	10.50	21.00
2.5	0	10.00	20.00

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH02/G02

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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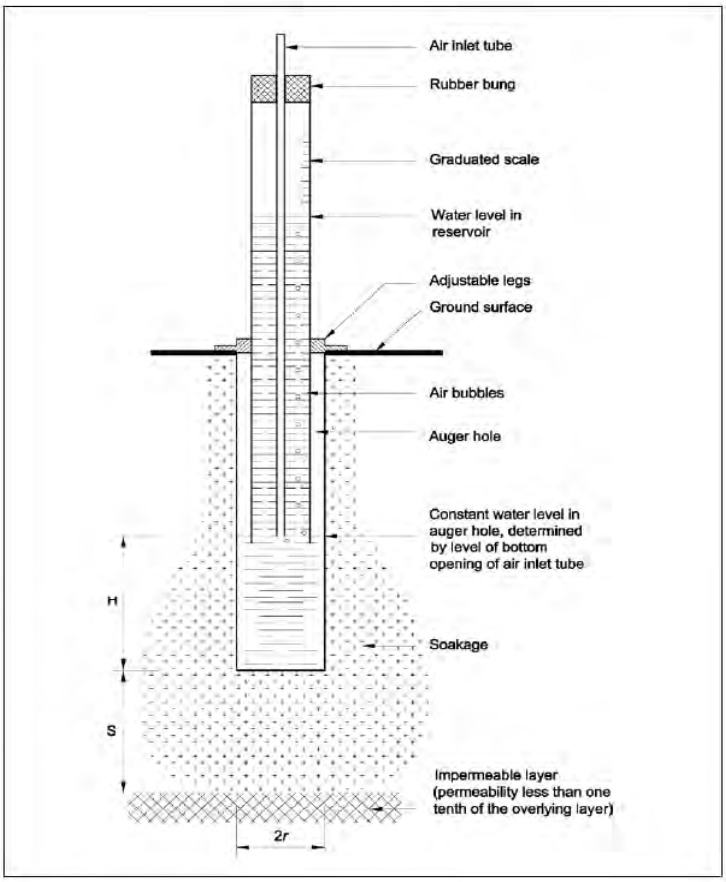
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	42	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	46.5		
2	45.5	1.00	0.50
4	42.5	3.00	1.50
6	41	1.50	0.75
8	39.5	1.50	0.75
10	36	3.50	1.75
12	34	2.00	1.00
14	32	2.00	1.00
16	29.8	2.20	1.10
AVERAGE - LAST 5 READINGS			1.12

Calculation

Steady State Flow	1.12	cm/min
Flow from reservoir (Q)	40.66	cm^3/min
K_{sat}	0.065	cm/min
K_{sat}	1.091E-05	m/s
K_{sat}	**0.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH03/G03

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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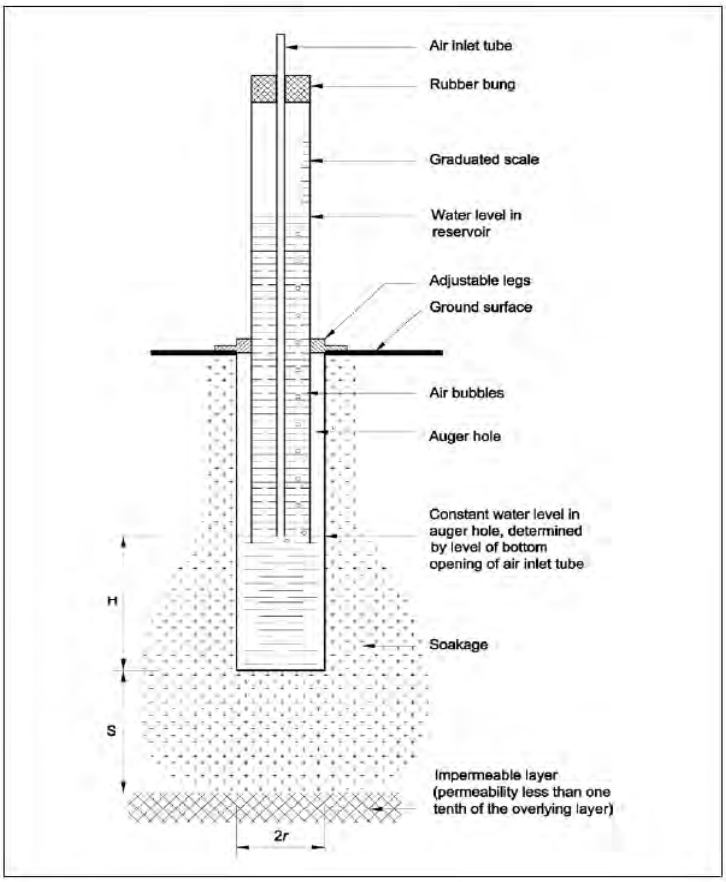
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	57	cm
H	Head of water above base	23	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	71		
0.33	66	5.00	15.15
0.66	59	7.00	21.21
1.33	45	14.00	20.90
1.66	38	7.00	21.21
1.99	28	10.00	30.30
2.33	21	7.00	20.59
2.66	11	10.00	30.30
2.99	1	10.00	30.30
		AVERAGE - LAST 5 READINGS	26.54

Calculation

Steady State Flow	26.54	cm/min
Flow from reservoir (Q)	963.47	cm^3/min
K_{sat}	0.628	cm/min
K_{sat}	1.047E-04	m/s
K_{sat}	**9.05**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH05/G05

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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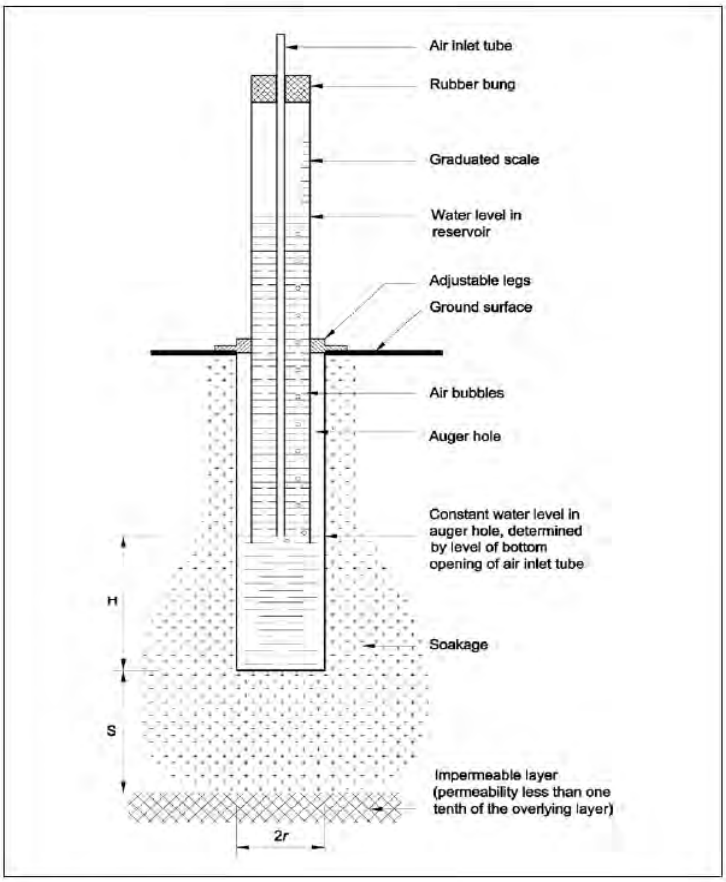
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	44	cm
H	Head of water above base	14	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	53.5		
5	49	4.50	0.90
10	45	4.00	0.80
15	41	4.00	0.80
20	38	3.00	0.60
25	35	3.00	0.60
30	31.5	3.50	0.70
AVERAGE - LAST 5 READINGS			0.70

Calculation

Steady State Flow	0.70	cm/min
Flow from reservoir (Q)	25.41	cm^3/min
K_{sat}	0.031	cm/min
K_{sat}	5.139E-06	m/s
K_{sat}	**0.44**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH09/G09

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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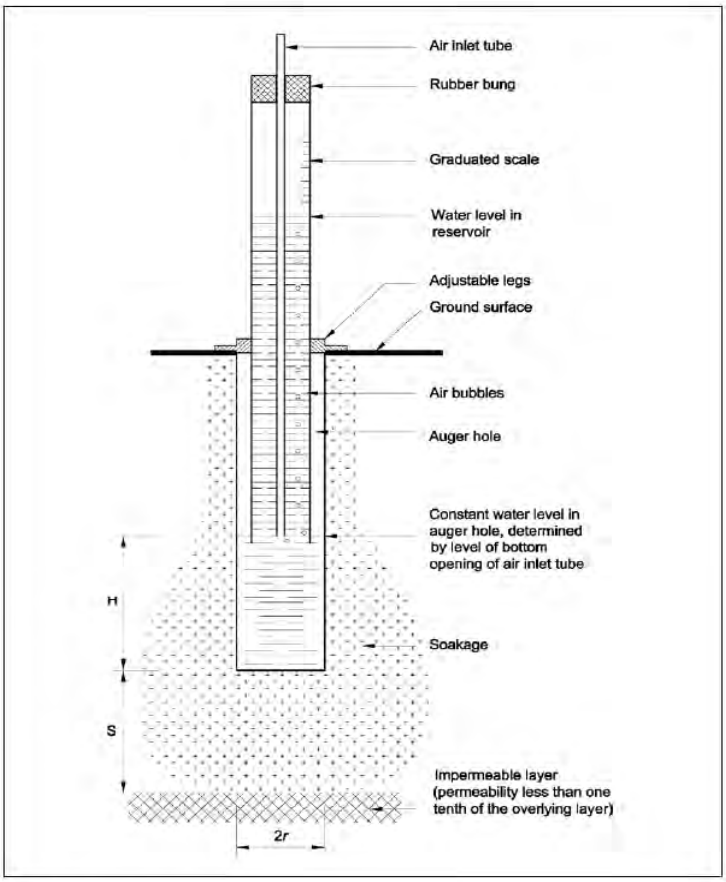
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	52	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	72.5		
1	62	10.50	10.50
2	52.5	9.50	9.50
3	46	6.50	6.50
4	38	8.00	8.00
5	28.5	9.50	9.50
6	23.6	4.90	4.90
7	14.5	9.10	9.10
8	8	6.50	6.50
9	1.5	6.50	6.50
AVERAGE - LAST 5 READINGS			7.30

Calculation

Steady State Flow	7.30	cm/min
Flow from reservoir (Q)	264.99	cm^3/min
K_{sat}	0.274	cm/min
K_{sat}	4.559E-05	m/s
K_{sat}	**3.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH10/G10

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
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	Fixed field

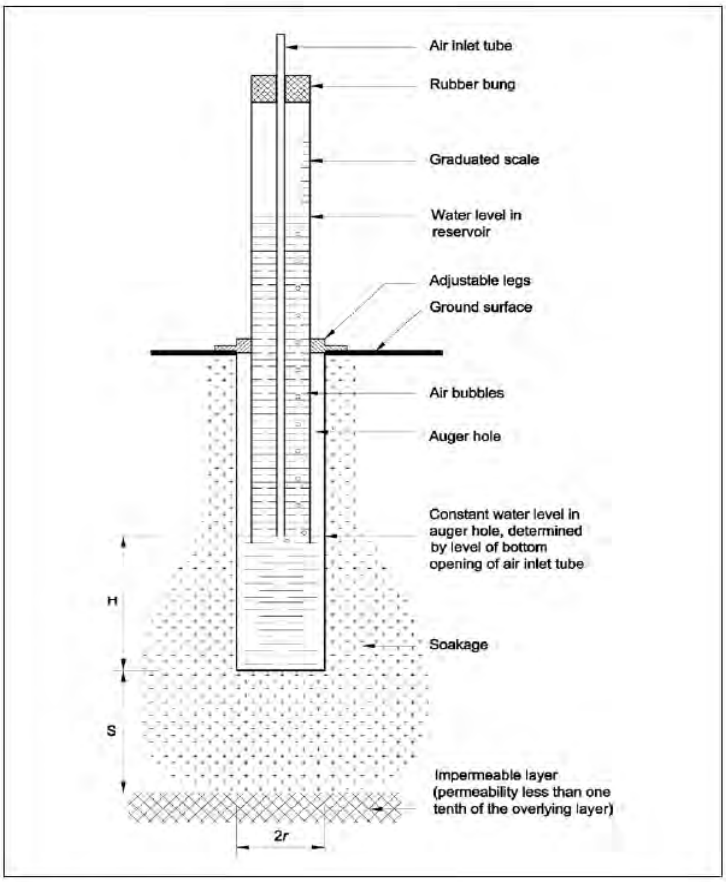
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	47	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	58		
1	53	5.00	5.00
2	50	3.00	3.00
3	44	6.00	6.00
4	40	4.00	4.00
5	36	4.00	4.00
6	32	4.00	4.00
AVERAGE - LAST 5 READINGS			4.20

Calculation

Steady State Flow	4.20	cm/min
Flow from reservoir (Q)	152.46	cm^3/min
K_{sat}	0.245	cm/min
K_{sat}	4.090E-05	m/s
K_{sat}	**3.53**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH15/G07

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
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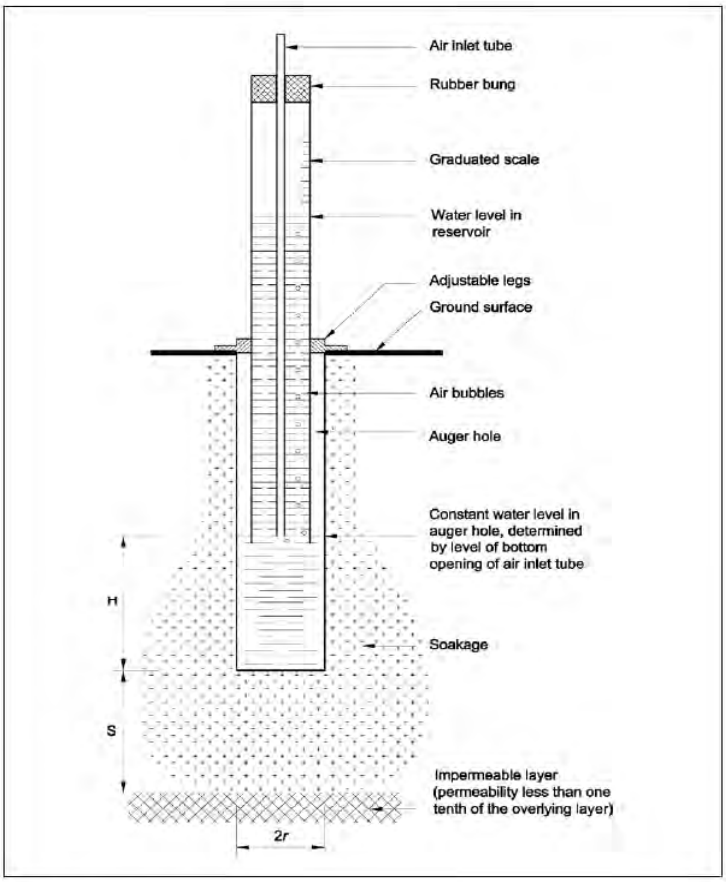
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	53	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	60		
0.5	48	12.00	24.00
1	38	10.00	20.00
1.5	31	7.00	14.00
2	20	11.00	22.00
2.5	12	8.00	16.00
3	2.5	9.50	19.00
AVERAGE - LAST 5 READINGS			18.20

Calculation

Steady State Flow	18.20	cm/min
Flow from reservoir (Q)	660.66	cm^3/min
K_{sat}	0.682	cm/min
K_{sat}	1.137E-04	m/s
K_{sat}	**9.82**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Appendix E: Geotechnical Laboratory Test Results

WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.1, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.1	**Liquid Limit (%)**	**28**
AS 1289.3.2.1	**Plastic Limit (%)**	**23**
AS 1289.3.3.1	**Plasticity Index (%)**	**5**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**2.5**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen:**	**-**

Comments:

Approved Signatory:



Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

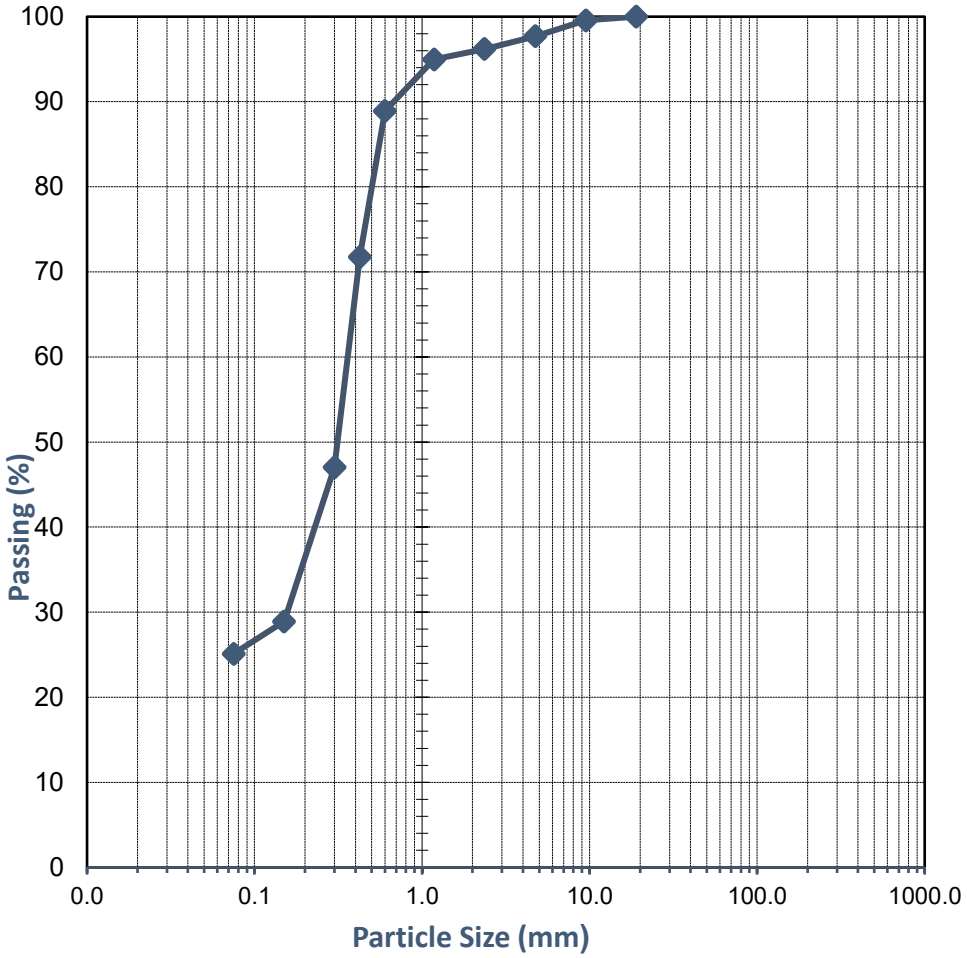
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	98
2.36	96
1.18	95
0.600	89
0.425	72
0.300	47
0.150	29
0.075	25



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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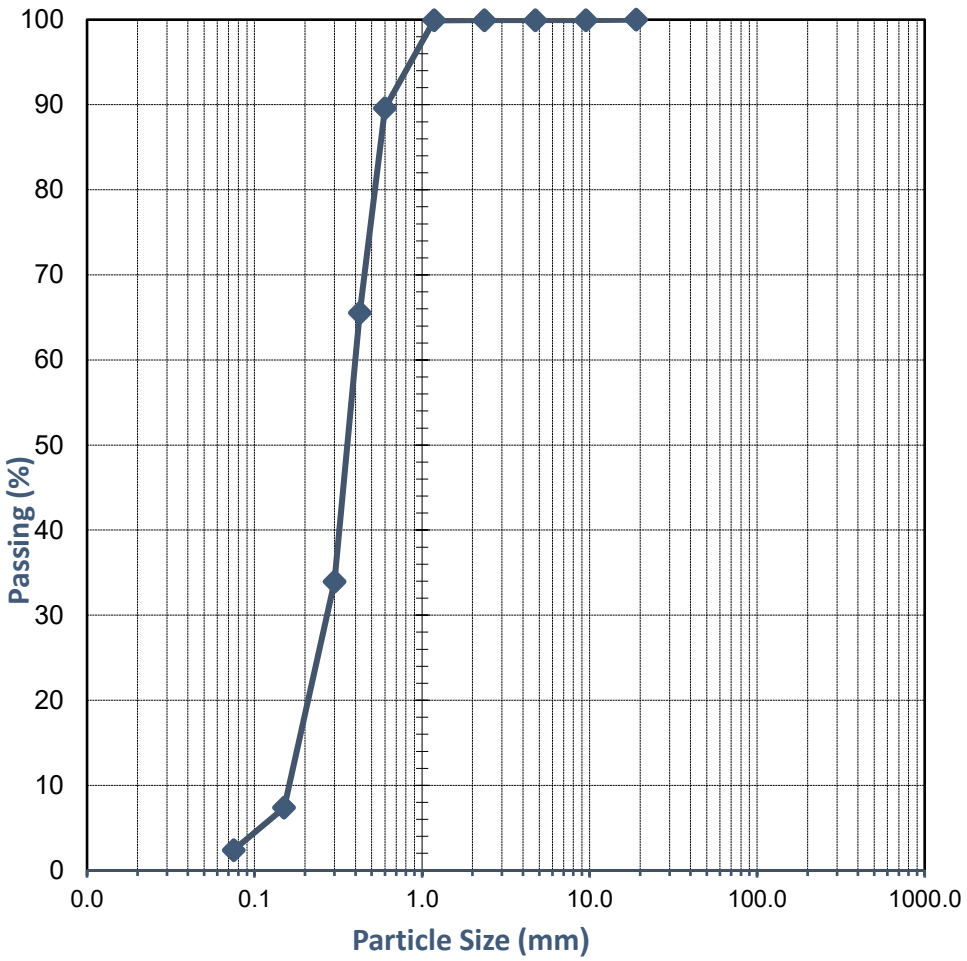
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15433_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15433
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH03 (1.5 - 1.8m)	*Date Tested:*	15/09 - 17/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	100
2.36	100
1.18	100
0.600	90
0.425	66
0.300	34
0.150	7
0.075	2



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.2, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.2	**Liquid Limit (%)**	**46**
AS 1289.3.2.1	**Plastic Limit (%)**	**40**
AS 1289.3.3.1	**Plasticity Index (%)**	**6**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**3.0**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen**	**-**

Approved Signatory:

Name: Danielle Reynolds

Date: 18/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

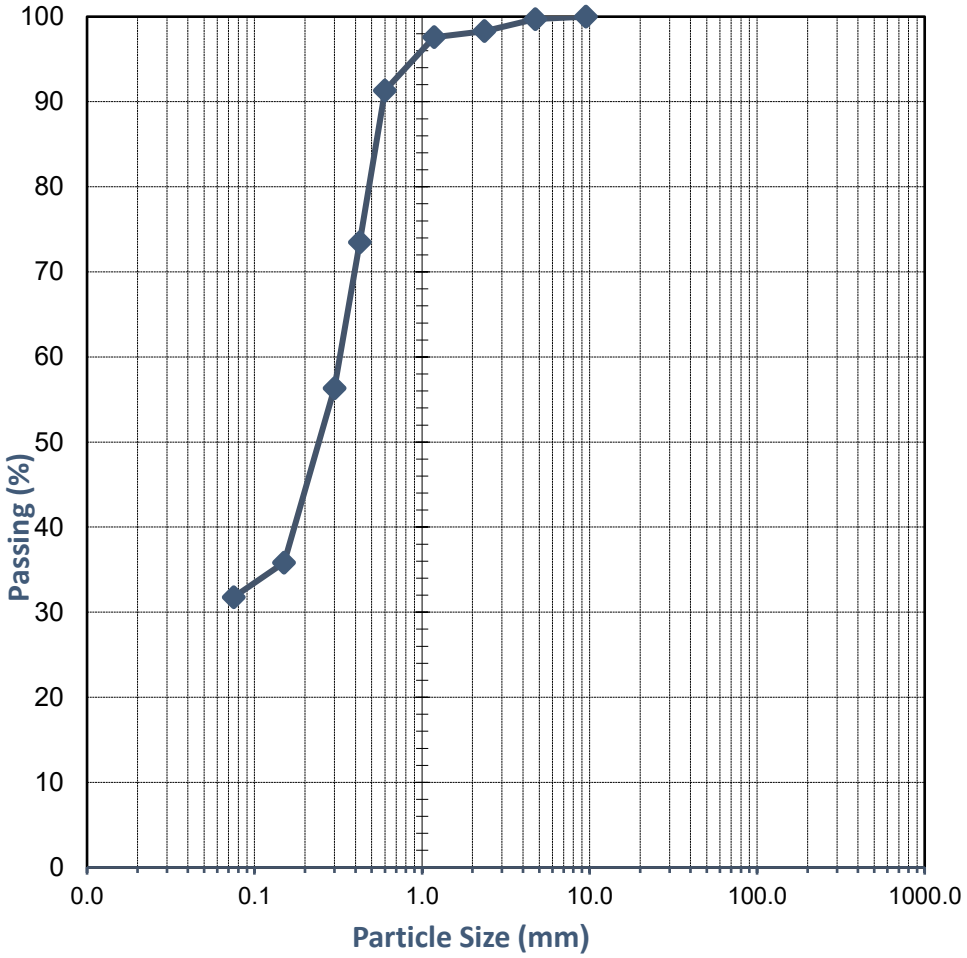
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	98
1.18	98
0.600	91
0.425	73
0.300	56
0.150	36
0.075	32



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

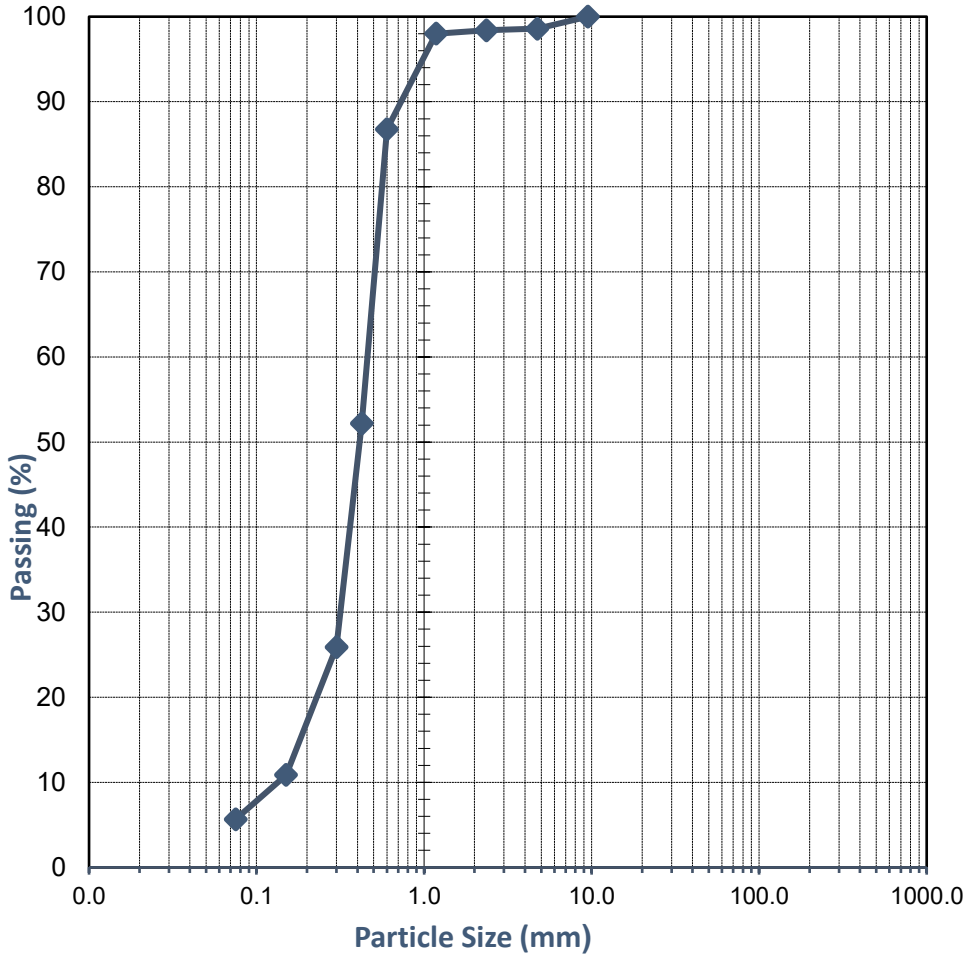
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15435_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15435
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH06 (0.6 - 1.0m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	99
2.36	98
1.18	98
0.600	87
0.425	52
0.300	26
0.150	11
0.075	6



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

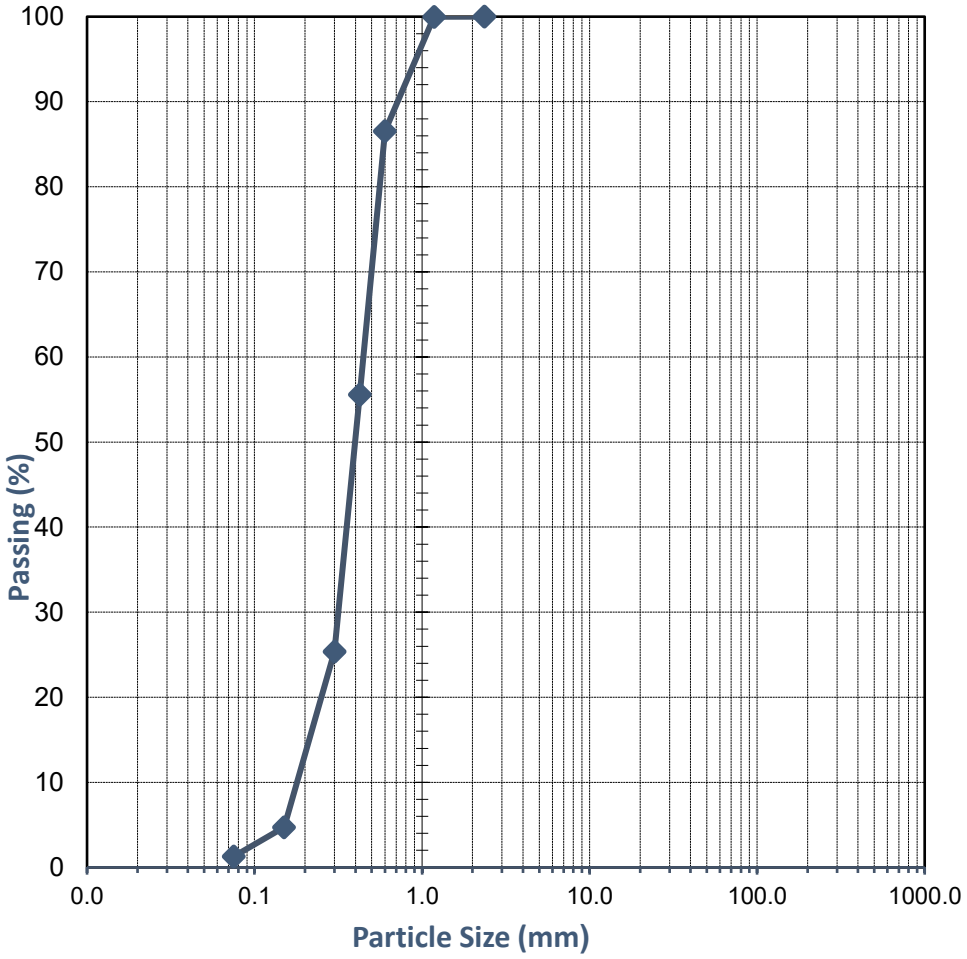
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15436_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15436
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH10 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	
2.36	100
1.18	100
0.600	87
0.425	56
0.300	25
0.150	5
0.075	1



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

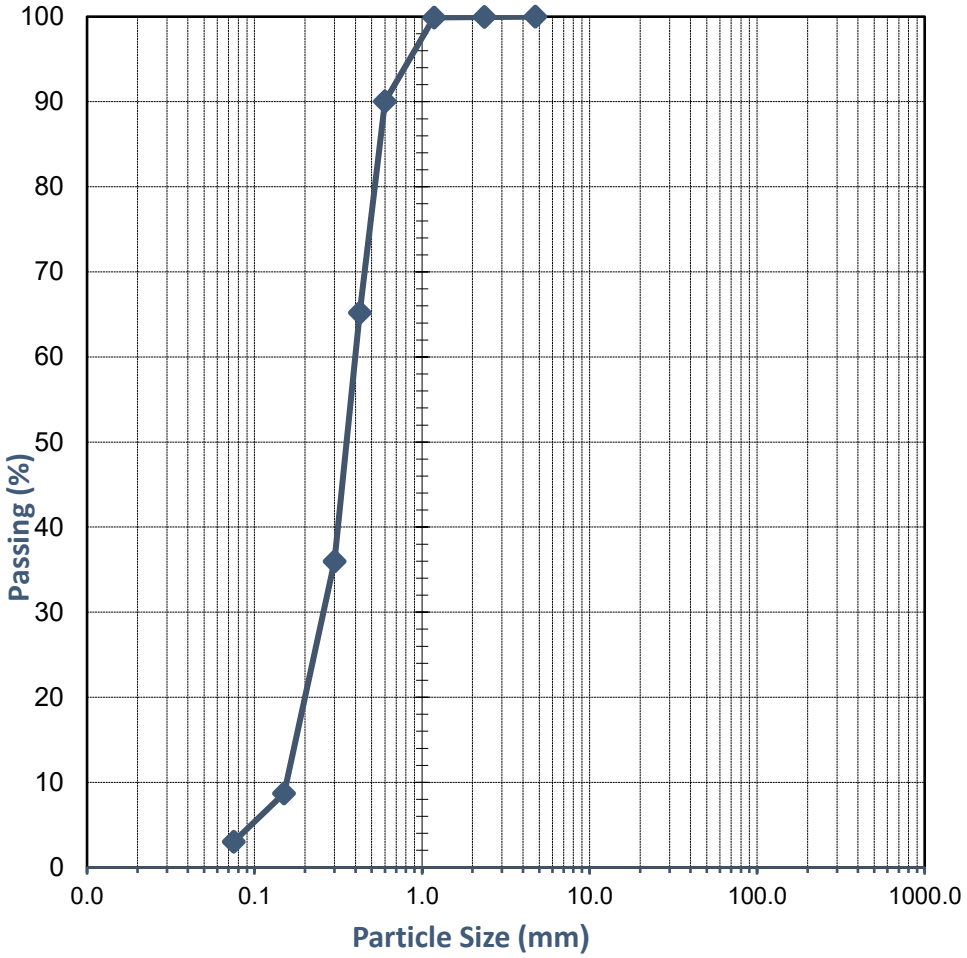
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15437_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15437
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G07 (0.5 - 0.6m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	100
2.36	100
1.18	100
0.600	90
0.425	65
0.300	36
0.150	9
0.075	3



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

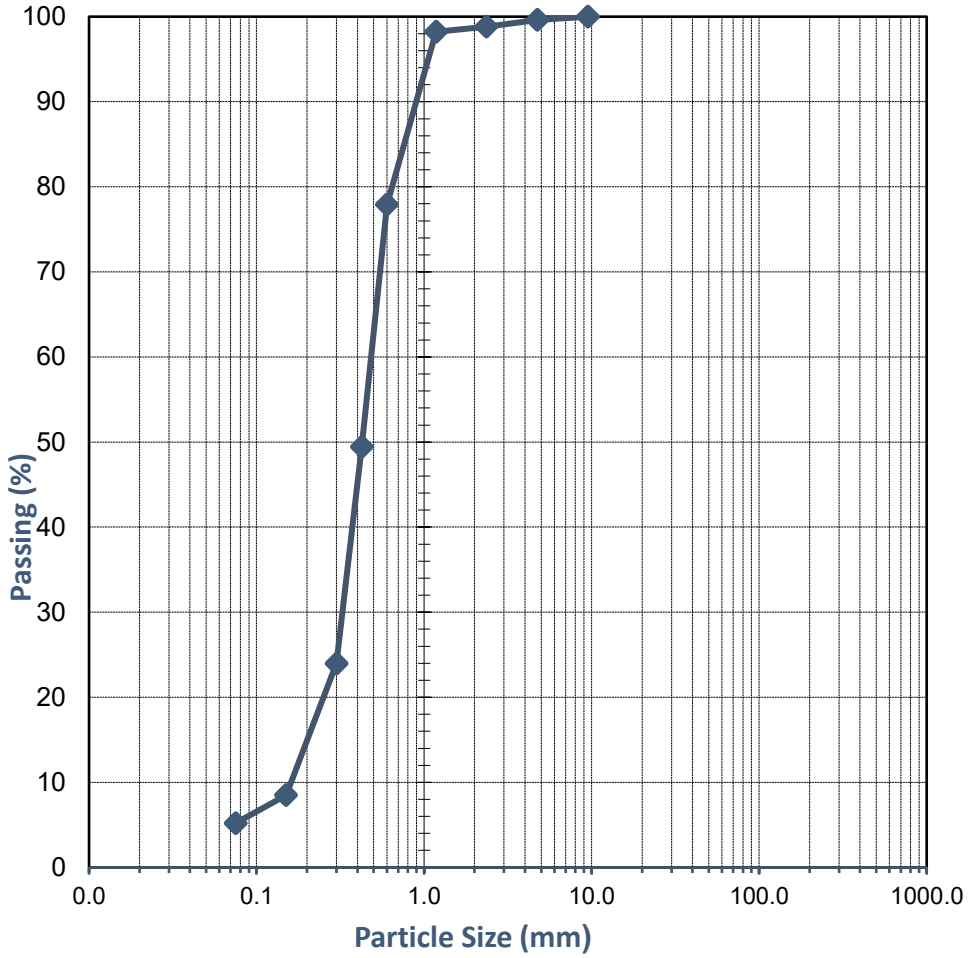
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15438_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15438
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G10 (0.4 - 0.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	99
1.18	98
0.600	78
0.425	49
0.300	24
0.150	8
0.075	5



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.4.1.1

Client:	Dynamic Planning and Developments	*Ticket No.*	C597
Client Address:	-	*Report No.*	WC25.779-782_1_OMC
Project:	Proposed HCLIA	*Sample No.*	WC25.779-782
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	Not Specified
Sample Identification:	Various - see below	*Date Tested:*	16/09/2025 - 17/09/2025

TEST RESULTS - Organic Matter Content of Soil - Normal Method

Sampling Method: **Sampled by Client, Tested as Received**

Sample Number	Sample Identification	Material Description	Organic Matter (%)
WC25.779	BH04 (1 - 1.4m)	Sandy Silt	10.7
WC25.780	BH06 (0.6 - 1.0m)	Sand	1.2
WC25.781	G07 (0.5 - 0.6m)	Sand	0.4
WC25.782	G10 (0.4 - 0.5m)	Sand	1.1

Comments:

Approved Signatory:

Name: Courtney Watt

Date: 18/September/2025

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Envirolab Services (WA) Pty Ltd trading as MPL Laboratories
ABN 53 140 099 207
7-11 Catalano Road Canning Vale WA 6155
ph +61 8 9317 2505
lab@mpl.com.au
www.mpl.com.au

Certificate of Analysis PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Contact	Laboratory
Address	235 Bank Street, WELSHPOOL, WA, 6101

Sample Details

Your Reference	S18630 / Proposed HCLIA
Number of Samples	5 Soil
Date Samples Received	12/09/2025
Date Instructions Received	12/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	23/09/2025
Date of Issue	19/09/2025

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Authorisation Details

Results Approved By	Lien Tang, Assistant Operations Manager Lucas Yii, Inorganics Team Leader Varsha Ho Wing, Inorganics and Metals Supervisor
Laboratory Manager	Michael Kubiak

Certificate of Analysis PGI0989

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGI0989-01	WG25.15432 / BH02 (1-1.5m)	Soil	12/09/2025	12/09/2025
PGI0989-02	WG25.15434 / BH04 (1-1.4m)	Soil	12/09/2025	12/09/2025
PGI0989-03	WG25.15435 / BH06 (0.6-1.0m)	Soil	12/09/2025	12/09/2025
PGI0989-04	WG25.15437 / G07 (0.5-0.6m)	Soil	12/09/2025	12/09/2025
PGI0989-05	WG25.15438 / G10 (0.4-0.5m)	Soil	12/09/2025	12/09/2025

Certificate of Analysis PGI0989

Inorganics - General Physical Parameters (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
pH	pH units		8.4	4.8	7.3	7.8	7.7
Electrical Conductivity	µS/cm	2.0	300	1000	110	14	73

Certificate of Analysis PGI0989

PBI/PRI (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
Phosphorus Retention Index	-		21	200	4.0	0.50	1.5

Method Summary

Method ID	Methodology Summary
AGRI-003_PRI	Phosphorous Retention index (PRI) is the ratio of adsorbed phosphorus to the equilibrium concentration. Phosphorus is extracted using KCl and determined colourimetrically. Result value is used to calculate PRI as per Allen and Jefferey.
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed. Blanks may yield EC readings >1µS/cm, this is likely due to adsorption of Carbon Dioxide while the blank sample is sat on the instrument autosampler prior to analysis. The values are generally insignificant (<5µS/cm) compared to most actual sample conductivities.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from the latest "Australian Drinking Water Guidelines", published by NHMRC. No guideline values have been set for Total Coliforms in drinking water. Increased concentrations should be investigated. Total Coliforms are not considered useful as indicators of the presence of faecal contamination.

Where we have provided guideline values eg. ADWG Health Value, it is the responsiblity of the reader to decide if the water is fit for consumption. Please note that the tests we have conducted are just a selection of common tests to give you a general idea of drinking water quality. There are many other tests included in the ADWG that we have not tested for.

Data Quality Assessment Summary PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Your Reference	S18630 / Proposed HCLIA
Date Issued	19/09/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary PGI0989

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
EC | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
pH | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
PRI | Soil	1-5	12/09/2025	16/09/2025	18/09/2025	Yes

Quality Control PGI0989

INORG-001|Inorganics - General Physical Parameters (Soil) | Batch BGI2590

Analyte	Units	PQL	Blank	DUP1 PGI0989-03 Samp | QC | RPD %	LCS %
pH	pH units		5.9	7.3 | 7.5 | 2.43	102
Electrical Conductivity	µS/cm	2.0	<2.0	108 | 108 | 0.00	98.4

AGRI-003_PRI|PBI/PRI (Soil) | Batch BGI2709

Analyte	Units	PQL	Blank	DUP1 PGI0989-01 Samp | QC | RPD %	LCS %
Phosphorus Retention Index	-		0.00	20.5 | 20.3 | 1.08	75.6

Appendix F: Environmental Laboratory Certificates of Analysis

Galt Environment P/L
50 Edward Street
Osborne Park
WA 6017

NATA Accredited
Accreditation Number 1261
Site Number 20794 & 2780

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **- ALL SRA/Results**

Report **1265933-S**
Project name HATCH CT HIGH WYCOMBE
Project ID WAG25018-01
Received Date Sep 09, 2025

Client Sample ID			**BH11/0.25**	**BH11/1.0**	**BH11/2.25**	**BH12/0.75**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**L25-Se0027209**	**L25-Se0027210**	**L25-Se0027211**	**L25-Se0027212**
Date Sampled			**Sep 05, 2025**	**Sep 05, 2025**	**Sep 05, 2025**	**Sep 05, 2025**
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	77	170	94	190
>2mm Fraction	0.005	g	53	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	59	100	100	100
Extraneous Material	0.1	%	41	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	1.2
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	15
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
pH-KCL (NLM-3.1)	0.1	pH Units	8.7	6.9	6.6	5.1
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	12
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	0.020
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	0.013	0.005	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	8.4	3.2	3.6
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	2.7	0.29	0.17	N/A
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	530	58	35	N/A
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.85	0.09	0.06	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	15
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	1.2
% Moisture	1	%	19	21	17	23

Client Sample ID			BH12/2.0	BH12/3.0	BH13/0.5	BH13/1.25
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027213	L25-Se0027214	L25-Se0027215	L25-Se0027216
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	100	100	130	94
>2mm Fraction	0.005	g	< 0.005	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	100	100	100	100
Extraneous Material	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	11	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	5.9	5.6	6.2	6.6
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	2.0	4.0	3.0	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	0.010	< 0.003	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	0.012	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	7.5	3.6
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	N/A	N/A	N/A	0.88
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	N/A	N/A	N/A	180
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	N/A	N/A	N/A	0.28
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	11	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1
% Moisture	1	%	16	15	28	19

Client Sample ID			BH13/2.50	BH14/0.25	BH14/1.75	BH14/2.75
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027217	L25-Se0027218	L25-Se0027219	L25-Se0027220
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	160	200	69
>2mm Fraction	0.005	g	< 0.005	100	< 0.005	< 0.005
Analysed Material	0.1	%	100	60	100	100
Extraneous Material	0.1	%	< 0.1	40	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	13
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
pH-KCL (NLM-3.1)	0.1	pH Units	6.2	9.5	8.0	5.4
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	9.0
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	0.010
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	0.005	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	3.2	3.8

Client Sample ID			BH13/2.50	BH14/0.25	BH14/1.75	BH14/2.75
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027217	L25-Se0027218	L25-Se0027219	L25-Se0027220
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Chromium Suite - NASSG (Excluding ANC)						
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	N/A	4.1	0.21	N/A
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	N/A	830	43	N/A
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	N/A	1.3	0.07	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	13
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1
% Moisture	1	%	15	14	14	18

Client Sample ID			BH15/0.75	BH15/1.25	BH15/2.5	BH16/0.50
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027221	L25-Se0027222	L25-Se0027223	L25-Se0027224
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	120	140	170
>2mm Fraction	0.005	g	< 0.005	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	100	100	100	100
Extraneous Material	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	7.1	6.9	6.4	7.0
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	< 0.005	< 0.005
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	< 3	< 3
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	0.29	0.21	N/A	0.43
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	58	41	N/A	85
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.09	0.07	N/A	0.14
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1

Client Sample ID			BH15/0.75	BH15/1.25	BH15/2.5	BH16/0.50
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027221	L25-Se0027222	L25-Se0027223	L25-Se0027224
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
% Moisture	1	%	4.8	7.4	14	8.0

Client Sample ID			BH16/1.50	BH16/3.0	QC101
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027225	L25-Se0027226	L25-Se0027227
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit			
Extraneous Material					
<2mm Fraction	0.005	g	240	190	120
>2mm Fraction	0.005	g	< 0.005	22	160
Analysed Material	0.1	%	100	90	43
Extraneous Material	0.1	%	< 0.1	10	57
Chromium Suite - NASSG (Excluding ANC)					
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	6.6	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	88	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	0.14	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	8.9	4.9	9.2
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	48	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	0.080	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	0.064	0.005
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	40	3.4
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	0.50	N/A	4.3
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	99	N/A	850
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.16	N/A	1.4
ANC Fineness Factor		factor	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	0.14	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	88	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	6.6	< 1
% Moisture	1	%	14	13	14

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Extraneous Material	Brisbane	Sep 10, 2025	6 Week
- Method: LTM-GEN-7050/7070			
Chromium Suite - NASSG (Excluding ANC)	Brisbane	Sep 10, 2025	6 Week
- Method: LTM-GEN-7070 Chromium Reducible Sulfur Suite			
% Moisture	Brisbane	Sep 09, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins

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Site# 20794 & 2780

Newcastle
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NATA# 1261
Site# 25079

Company Name: Galt Environment P/L
Address: 50 Edward Street
Osborne Park
WA 6017

Project Name: HATCH CT HIGH WYCOMBE
Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1265933
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Sep 9, 2025 11:55 AM
Due: Sep 16, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Moisture Set	Chromium Suite - NASSG (Excluding ANC)
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH11/0.25	Sep 05, 2025		Soil	L25-Se0027209	X	X
2	BH11/1.0	Sep 05, 2025		Soil	L25-Se0027210	X	X
3	BH11/2.25	Sep 05, 2025		Soil	L25-Se0027211	X	X
4	BH12/0.75	Sep 05, 2025		Soil	L25-Se0027212	X	X
5	BH12/2.0	Sep 05, 2025		Soil	L25-Se0027213	X	X
6	BH12/3.0	Sep 05, 2025		Soil	L25-Se0027214	X	X
7	BH13/0.5	Sep 05, 2025		Soil	L25-Se0027215	X	X
8	BH13/1.25	Sep 05, 2025		Soil	L25-Se0027216	X	X
9	BH13/2.50	Sep 05, 2025		Soil	L25-Se0027217	X	X
10	BH14/0.25	Sep 05, 2025		Soil	L25-Se0027218	X	X
11	BH14/1.75	Sep 05, 2025		Soil	L25-Se0027219	X	X
12	BH14/2.75	Sep 05, 2025		Soil	L25-Se0027220	X	X
13	BH15/0.75	Sep 05, 2025		Soil	L25-Se0027221	X	X
14	BH15/1.25	Sep 05, 2025		Soil	L25-Se0027222	X	X

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Sample Detail						Moisture Set	Chromium Suite - NASSG (Excluding ANC)
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X	X
15	BH15/2.5	Sep 05, 2025		Soil	L25-Se0027223	X	X
16	BH16/0.50	Sep 05, 2025		Soil	L25-Se0027224	X	X
17	BH16/1.50	Sep 05, 2025		Soil	L25-Se0027225	X	X
18	BH16/3.0	Sep 05, 2025		Soil	L25-Se0027226	X	X
19	QC101	Sep 05, 2025		Soil	L25-Se0027227	X	X
Test Counts						19	19

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Chromium Suite - NASSG (Excluding ANC)									
pH-KCL (NLM-3.1)			%	98			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)			%	111			80-120	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)			%	102			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
CRS Suite - Liming Rate - NASSG (Excluding ANC)	L25-Se0027209	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027209	CP	mol H+/t	< 10	< 10	<1	20%	Pass	
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027209	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
pH-KCL (NLM-3.1)	L25-Se0027209	CP	pH Units	8.7	8.8	2.0	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027209	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027209	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Se0027209	CP	% S	< 0.005	< 0.005	<1	20%	Pass	
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	L25-Se0027209	CP	mol H+/t	< 3	< 3	<1	20%	Pass	
Sulfur - KCl Extractable	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
HCl Extractable Sulfur	L25-Se0027209	CP	% S	N/A	N/A	N/A	20%	Pass	
Net Acid soluble sulfur (SNAS) NLM-4.1	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	L25-Se0027209	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (s-SNAS) NLM-4.1	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	L25-Se0027209	CP	% CaCO3	2.7	2.4	11	20%	Pass	
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)	L25-Se0027209	CP	% S	0.85	0.77	11	30%	Pass	
ANC Fineness Factor	L25-Se0027209	CP	factor	1.5	1.5	<1	30%	Pass	
s-CRS Suite - Net Acidity - NASSG (including ANC)	L25-Se0027209	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Including ANC)	L25-Se0027209	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
CRS Suite - Liming Rate - NASSG (Including ANC)	L25-Se0027209	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	L25-Se0027217	CP	%	15	19	23	30%	Pass	
Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
CRS Suite - Liming Rate - NASSG (Excluding ANC)	L25-Se0027219	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027219	CP	mol H+/t	< 10	< 10	<1	20%	Pass	
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027219	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
pH-KCL (NLM-3.1)	L25-Se0027219	CP	pH Units	8.0	8.0	1.0	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027219	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027219	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Se0027219	CP	% S	0.005	0.005	<1	20%	Pass	

Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	L25-Se0027219	CP	mol H+/t	3.2	3.2	<1	20%	Pass	
Sulfur - KCl Extractable	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
HCl Extractable Sulfur	L25-Se0027219	CP	% S	N/A	N/A	N/A	20%	Pass	
Net Acid soluble sulfur (SNAS) NLM-4.1	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	L25-Se0027219	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (s-SNAS) NLM-4.1	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	L25-Se0027219	CP	% CaCO3	0.21	0.21	2.0	20%	Pass	
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)	L25-Se0027219	CP	% S	0.07	0.07	2.0	30%	Pass	
ANC Fineness Factor	L25-Se0027219	CP	factor	1.5	1.5	<1	30%	Pass	
s-CRS Suite - Net Acidity - NASSG (including ANC)	L25-Se0027219	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Including ANC)	L25-Se0027219	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
CRS Suite - Liming Rate - NASSG (Including ANC)	L25-Se0027219	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	L25-Se0027227	CP	%	14	14	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
S01	Liming rate is calculated and reported on a dry weight basis assuming use of fine agricultural lime (CaCO3) and using a safety factor of 1.5 to allow for non-homogeneous mixing and poor reactivity of lime. For conversion of Liming Rate from 'kg/t dry weight' to 'kg/m3 in-situ soil' multiply 'reported results' x 'wet bulk density of soil in t/m3'
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5
S03	Acid Neutralising Capacity is only required if the pHKCl if greater than or equal to pH 6.5
S04	Acid Sulfate Soil Samples have a 24 hour holding time unless frozen or dried within that period

Authorised by:

Natalie Hill	Analytical Services Manager
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-SPOCAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 2377
Site Number 2370 & 2554

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **- ALL SRA/Results**

Report **1268461-W**
Project name HATCH CT HIGH WYCOMBE
Project ID WAG25018-01
Received Date Sep 15, 2025

Client Sample ID			**MW01**	**MW02**	**QC102**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**L25-Se0046302**	**L25-Se0046303**	**L25-Se0046304**
Date Sampled			**Sep 12, 2025**	**Sep 12, 2025**	**Sep 12, 2025**
Test/Reference	LOR	Unit			
Acidity (as CaCO3)	10	mg/L	36	12	11
Ammonia (as N)	0.02	mg/L	0.49	< 0.02	0.05
Chloride	5	mg/L	330	16	16
Conductivity (at 25 °C)	10	uS/cm	1400	430	430
Filterable Reactive Phosphorus	0.01	mg/L	< 0.01	0.05	0.12
NOx (as N)	0.01	mg/L	< 0.01	9.9	9.8
pH (at 25 °C)	0.1	pH Units	6.8	7.7	7.7
Salinity (at 25 °C)	10	mg/L	690	200	200
Sulfate (as SO4)	1	mg/L	35	< 1	13
Total Dissolved Solids Dried at 180 °C ± 2 °C	5	mg/L	810	360	350
Total Kjeldahl Nitrogen	0.2	mg/L	4.9	< 0.2	< 0.2
Total Nitrogen	0.2	mg/L	4.9	9.9	9.9
Total Phosphorus	0.01	mg/L	0.18	0.17	0.16
Alkalinity (speciated)					
Bicarbonate Alkalinity (as CaCO3)	5	mg/L	210	150	150
Carbonate Alkalinity (as CaCO3)	5	mg/L	< 5	< 5	< 5
Hydroxide Alkalinity (as CaCO3)	5	mg/L	< 5	< 5	< 5
Total Alkalinity (as CaCO3)	5	mg/L	210	150	150
Heavy Metals					
Aluminium	0.05	mg/L	0.80	2.5	2.5
Iron	0.01	mg/L	4.3	3.1	2.9
Alkali Metals					
Sodium	0.5	mg/L	120	15	12
Acid Sulphate Metals : Metals M9 filtered					
Aluminium (filtered)	0.05	mg/L	0.70	0.46	0.23
Arsenic (filtered)	0.001	mg/L	0.002	0.006	0.005
Cadmium (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001
Chromium (filtered)	0.001	mg/L	0.002	0.001	0.001
Iron (filtered)	0.01	mg/L	4.3	0.40	0.26
Manganese (filtered)	0.005	mg/L	0.35	0.055	0.036
Nickel (filtered)	0.001	mg/L	0.002	0.003	0.003
Selenium (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	0.065	0.10

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Acidity (as CaCO3)	Welshpool	Sep 15, 2025	14 Days
- Method: LTM-INO-4210 Acidity			
Ammonia (as N)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL303 - Ammonia in Water by Discrete Analyser			
Chloride	Welshpool	Sep 15, 2025	28 Days
- Method: ARL305 - Chloride in Water by Discrete Analyser			
Conductivity (at 25 °C)	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-INO-4030 Conductivity			
Filterable Reactive Phosphorus	Welshpool	Sep 15, 2025	28 Days
- Method: ARL309 - Filterable Reactive Phosphorus in Water by Discrete Analyser			
NOx (as N)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL313/319 - NOx in Water by Discrete Analyser			
pH (at 25 °C)	Welshpool	Sep 15, 2025	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Salinity (at 25 °C)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL019 - Conductivity and Salinity in Water			
Sulfate (as SO4)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL301 - Sulfate in Water by Discrete Analyser			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Welshpool	Sep 15, 2025	7 Days
- Method: ARL No. 017 - Total Dissolved Solids			
Total Kjeldahl Nitrogen	Welshpool	Sep 15, 2025	28 Day
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Nitrogen	Welshpool	Sep 15, 2025	28 Days
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Phosphorus	Welshpool	Sep 15, 2025	28 Days
- Method: ARL308 - Total Phosphorus in Water by Discrete Analyser			
Alkalinity (speciated)	Welshpool	Sep 15, 2025	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Heavy Metals	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Alkali Metals	Welshpool	Sep 15, 2025	6 Months
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Acid Sulphate Metals : Metals M9 filtered	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Project Name: HATCH CT HIGH WYCOMBE
Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1268461
Phone: 08 6272 0200
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Received: Sep 15, 2025 3:15 PM
Due: Sep 22, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						ASS Groundwater Quality Suite - WA Department of Environment and
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	MW01	Sep 12, 2025		Water	L25-Se0046302	X
2	MW02	Sep 12, 2025		Water	L25-Se0046303	X
3	QC102	Sep 12, 2025		Water	L25-Se0046304	X
Test Counts						3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ppm: parts per million
µg/L: micrograms per litre
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit
Colour: Pt-Co Units (CU)

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Ammonia (as N)	mg/L	< 0.02			0.02	Pass	
Filterable Reactive Phosphorus	mg/L	< 0.01			0.01	Pass	
NOx (as N)	mg/L	< 0.01			0.01	Pass	
Salinity (at 25 °C)	mg/L	< 10			10	Pass	
Sulfate (as SO4)	mg/L	< 1			1	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	mg/L	< 5			5	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 5			5	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 5			5	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/L	< 0.05			0.05	Pass	
Iron	mg/L	< 0.01			0.01	Pass	
Method Blank							
Alkali Metals							
Sodium	mg/L	< 0.5			0.5	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	mg/L	-0.00012585			0.05	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chloride	mg/L	< 5			5	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals							
Aluminium	%	90			80-120	Pass	
Iron	%	98			80-120	Pass	
LCS - % Recovery							
Alkali Metals							
Sodium	%	85			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	%	96			80-120	Pass	
Arsenic (filtered)	%	107			80-120	Pass	
Cadmium (filtered)	%	92			80-120	Pass	
Chromium (filtered)	%	103			80-120	Pass	
Iron (filtered)	%	100			80-120	Pass	
Manganese (filtered)	%	102			80-120	Pass	
Nickel (filtered)	%	97			80-120	Pass	
Selenium (filtered)	%	97			80-120	Pass	
Zinc (filtered)	%	101			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	110			80-120	Pass	
Cadmium (filtered)	%	92			80-120	Pass	
Chromium (filtered)	%	100			80-120	Pass	
Iron (filtered)	%	96			80-120	Pass	
Manganese (filtered)	%	98			80-120	Pass	
Nickel (filtered)	%	92			80-120	Pass	
Selenium (filtered)	%	95			80-120	Pass	
Zinc (filtered)	%	97			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	106			80-120	Pass	
Chromium (filtered)	%	101			80-120	Pass	
Iron (filtered)	%	98			80-120	Pass	
Manganese (filtered)	%	99			80-120	Pass	
Nickel (filtered)	%	94			80-120	Pass	
Selenium (filtered)	%	96			80-120	Pass	
Zinc (filtered)	%	98			80-120	Pass	
CRM - % Recovery							
Sulfate (as SO4)	%	112			80-120	Pass	
CRM - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	91			90-110	Pass	
Cadmium (filtered)	%	98			90-110	Pass	
Chromium (filtered)	%	105			90-110	Pass	
Manganese (filtered)	%	108			90-110	Pass	
Nickel (filtered)	%	100			90-110	Pass	
Selenium (filtered)	%	91			90-110	Pass	
Zinc (filtered)	%	97			90-110	Pass	
CRM - % Recovery							
Chloride	%	109			80-120	Pass	
CRM - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	%	93			90-110	Pass	
Arsenic (filtered)	%	104			90-110	Pass	
Cadmium (filtered)	%	92			90-110	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium (filtered)			%	110			90-110	Pass	
Iron (filtered)			%	110			90-110	Pass	
Manganese (filtered)			%	110			90-110	Pass	
Nickel (filtered)			%	108			90-110	Pass	
Selenium (filtered)			%	103			90-110	Pass	
CRM - % Recovery									
Chloride			%	115			80-120	Pass	
CRM - % Recovery									
Acid Sulphate Metals : Metals M9 filtered									
Arsenic (filtered)			%	99			90-110	Pass	
Cadmium (filtered)			%	107			90-110	Pass	
Chromium (filtered)			%	91			90-110	Pass	
Iron (filtered)			%	91			90-110	Pass	
Manganese (filtered)			%	107			90-110	Pass	
Nickel (filtered)			%	106			90-110	Pass	
Selenium (filtered)			%	100			90-110	Pass	
Zinc (filtered)			%	107			90-110	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
				Result 1					
Ammonia (as N)	L25-Se0046303	CP	%	104			80-120	Pass	
Chloride	L25-Se0046303	CP	%	106			70-130	Pass	
Filterable Reactive Phosphorus	L25-Se0046303	CP	%	107			80-120	Pass	
NOx (as N)	L25-Se0046303	CP	%	111			80-120	Pass	
Sulfate (as SO4)	L25-Se0046303	CP	%	110			70-130	Pass	
Spike - % Recovery									
Acid Sulphate Metals : Metals M9 filtered				Result 1					
Arsenic (filtered)	L25-Se0046303	CP	%	111			75-125	Pass	
Cadmium (filtered)	L25-Se0046303	CP	%	88			75-125	Pass	
Chromium (filtered)	L25-Se0046303	CP	%	100			75-125	Pass	
Iron (filtered)	L25-Se0046303	CP	%	95			75-125	Pass	
Manganese (filtered)	L25-Se0046303	CP	%	92			75-125	Pass	
Nickel (filtered)	L25-Se0046303	CP	%	91			75-125	Pass	
Selenium (filtered)	L25-Se0046303	CP	%	96			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	L25-Se0046302	CP	mg/L	0.49	0.46	8.0	20%	Pass	
Chloride	L25-Se0046302	CP	mg/L	330	340	2.0	30%	Pass	
Conductivity (at 25 °C)	L25-Se0043840	NCP	uS/cm	41000	41000	<1	30%	Pass	
Filterable Reactive Phosphorus	L25-Se0046302	CP	mg/L	< 0.01	< 0.01	<1	20%	Pass	
NOx (as N)	L25-Se0046302	CP	mg/L	< 0.01	< 0.01	<1	20%	Pass	
pH (at 25 °C)	L25-Se0043840	NCP	pH Units	7.7	7.7	1.0	30%	Pass	
Salinity (at 25 °C)	L25-Se0046302	CP	mg/L	690	670	2.0	20%	Pass	
Sulfate (as SO4)	L25-Se0046302	CP	mg/L	35	38	8.0	30%	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	L25-Se0046302	CP	mg/L	810	810	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	L25-Se0046302	CP	mg/L	0.80	0.79	1.0	30%	Pass	
Iron	L25-Se0046302	CP	mg/L	4.3	4.4	2.0	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Sodium	L25-Se0046302	CP	mg/L	120	120	1.0	30%	Pass	

Duplicate									
Acid Sulphate Metals : Metals M9 filtered				Result 1	Result 2	RPD			
Arsenic (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	4.0	30%	Pass	
Cadmium (filtered)	L25-Se0046302	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	13	30%	Pass	
Iron (filtered)	L25-Se0046302	CP	mg/L	4.3	4.7	1.0	30%	Pass	
Manganese (filtered)	L25-Se0046302	CP	mg/L	0.35	0.34	3.0	30%	Pass	
Nickel (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	3.0	30%	Pass	
Selenium (filtered)	L25-Se0046302	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	L25-Se0046302	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Sam Becker	Senior Analyst-Inorganic



Kim Rodgers
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request

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Appendix G: Acid Sulfate Soil Testing Results

Acid Sulfate Soil Field Testing

Field Observations						Lab pH	Chromium Reducible Sulfur Suite				Acid Sulfate Soil Classification
Sample ID		pH_f	pH_{fox}	$pH_f - pH_{fox}$	Reaction Rate	pH_{KCl}	Titratable Actual Acidity	Chromium Reducible Sulfur	Acid Neutralising Capacity	Net Acidity	
Location	Depth (m)	pH units	pH units	pH units	LMHXV	pH units	%S	%S	%S	%S	
		4	4	1	NV	NV	0.03	0.03	NV	0.03	NV
BH11	0.00	7.6	5.2	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.6	5.2	2.4	L	8.7	< 0.003	<0.005	0.85	< 0.02	NASS
	0.50	7.6	5.3	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	7.6	5.3	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.3	6.0	2.3	L	6.8	< 0.003	0.013	0.09	< 0.02	NASS
	1.25	8.3	6.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.5	6.0	2.5	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.4	5.5	2.9	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	8.3	5.3	3.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.3	5.0	3.3	L	6.6	< 0.003	0.005	0.06	< 0.02	NASS
	2.50	8.3	5.0	3.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	7.4	4.8	2.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	7.5	4.3	3.2	L	. . .	. . .	. . .	. . .	. . .	. . .
BH12	0.00	5.2	3.9	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	5.2	3.6	1.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	4.7	3.3	1.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	5.1	3.7	1.4	L	5.1	0.02	0.006	N/A	0.02	NASS
	1.00	5.6	4.3	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	5.9	4.9	1.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	6.4	5.1	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	6.7	5.2	1.5	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	6.8	4.9	1.9	L	5.9	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.25	6.7	4.6	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	6.5	4.2	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	6.8	4.1	2.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	6.9	4.1	2.8	L	4.0	0.01	< 0.005	N/A	< 0.02	NASS
BH13	0.00	7.3	5.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.3	5.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	7.2	5.0	2.2	L	6.2	< 0.003	0.012	N/A	0.02	NASS
	0.75	7.2	5.1	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	7.3	5.6	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	7.3	5.6	1.7	L	6.6	< 0.003	0.006	0.28	< 0.02	NASS
	1.50	7.4	5.6	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	7.4	5.3	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	7.5	5.9	1.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	7.8	6.0	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.0	5.8	2.2	L	6.2	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.75	8.1	5.9	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	8.1	5.8	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .

Acid Sulfate Soil Field Testing

Field Observations						Lab pH	Chromium Reducible Sulfur Suite				Acid Sulfate Soil Classification
Sample ID		pH_f	pH_{fox}	$pH_f - pH_{fox}$	Reaction Rate	pH_{KCl}	Titratable Actual Acidity	Chromium Reducible Sulfur	Acid Neutralising Capacity	Net Acidity	
Location	Depth (m)	pH units	pH units	pH units	LMHXV	pH units	%S	%S	%S	%S	
		4	4	1	NV	NV	0.03	0.03	NV	0.03	NV
BH14	0.00	8.2	5.8	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	8.2	5.8	2.4	L	9.5	< 0.003	< 0.005	1.3	< 0.02	NASS
	0.50	8.3	6.5	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	8.3	6.4	1.9	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.4	6.3	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.3	6.2	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.2	6.1	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.2	5.8	2.4	L	8.0	< 0.003	0.005	0.07	< 0.02	NASS
	2.00	8.2	4.4	3.8	M	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.3	3.9	4.4	M	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.5	2.9	5.6	H	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	8.4	2.6	5.8	M	5.4	0.01	0.006	N/A	0.02	NASS
	3.00	8.3	2.6	5.7	M	. . .	. . .	. . .	. . .	. . .	. . .
BH15	0.00	7.8	6.5	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.6	6.4	1.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	8.0	6.3	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	8.1	6.2	1.9	L	7.1	< 0.003	< 0.005	0.09	< 0.02	NASS
	1.00	8.2	6.2	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.3	5.9	2.4	L	6.9	< 0.003	< 0.005	0.07	< 0.02	NASS
	1.50	8.2	5.9	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.3	5.9	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	8.3	6.3	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.5	6.1	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.5	6.0	2.5	L	6.4	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.75	8.5	5.8	2.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	8.3	6.4	1.9	L	. . .	. . .	. . .	. . .	. . .	. . .
BH16	0.00	8.3	6.3	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	8.3	6.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	8.2	6.1	2.1	L	7.0	< 0.003	< 0.005	0.14	< 0.02	NASS
	0.75	8.2	6.0	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.2	5.9	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.1	5.9	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.0	5.7	2.3	L	5.9	< 0.003	< 0.005	0.16	< 0.02	NASS
	1.75	7.8	6.1	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	7.8	6.1	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	6.0	4.9	1.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	6.1	4.8	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	6.0	4.6	1.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	6.0	4.6	1.4	L	4.9	0.08	0.064	N/A	0.14	ASS

Appendix H: Groundwater Field Parameters

GROUNDWATER FIELD PARAMETERS

Date:	12/09/2025	Monitoring Well:	MW02	Purge Method:	LF
Job Number:	WAG250183	Depth to Water (mTOC)	1.77	Purge volume (L)	2.5
Site:	Hatch Ct High Wycombe	Depth of Well (mTOC)	3.32	Flow rate (L/min)	0.5
Field Rep:	SB	Stick-up (m):	0.62	Flow cell used:	Y
		Dipper correction	Y		

Observations	Volume (L)	Time	Temp(C)	DO(%L)	DO(mg/L)	SPC(uS/cm)	pH	Redox(mV)
Pale brown colour, mild turbidity, mild organic odour.	0.5	1	17.28	72.5	6.33	405.0	7.18	65
	1.0	2	17.28	70.1	6.21	405.0	7.17	58
	1.5	3	17.28	65.5	6.08	403.0	7.17	54
	2.0	4	17.27	62.3	5.98	400.0	7.16	54
	2.5	5	17.27	62.5	5.96	401.0	7.16	58

GROUNDWATER FIELD PARAMETERS

Date:	12/09/2025	Monitoring Well:	MW03	Purge Method:	LF
Job Number:	WAG250183	Depth to Water (mTOC)	0.93	Purge volume (L)	2.5
Site:	Hatch Ct High Wycombe	Depth of Well (mTOC)	3.54	Flow rate (L/min)	0.5
Field Rep:	SB	Stick-up (m):	0.65	Flow cell used:	Y
		Dipper correction	Y		

Observations	Volume (L)	Time	Temp(C)	DO(%L)	DO(mg/L)	SPC(uS/cm)	pH	Redox(mV)
Grey/ brown, high turbidity, strong organic odour.	0.5	1	16.6	34.0	2.59	1270.0	6.16	51.6
	1.0	2	16.6	33.1	2.59	1268.0	6.19	49.9
	1.5	3	16.5	30.2	2.56	1258.0	6.19	47.5
	2.0	4	16.05	29.4	2.45	1250.0	6.18	48.5
	2.5	5	16.05	27.0	2.45	1247.0	6.18	40.9

Appendix I: Tabulated Groundwater Results

Laboratory Analytical Results - Groundwater

			Field ID	MW01	MW02
			Date	12 Sep 2025	12 Sep 2025
			Sample Type	Normal	Normal
			Lab Report Number	1268461	1268461
	Unit	EQL	WA DWER Non-potable groundwater use guideline (NPUG) (2021)		
Other					
Acidity (as CaCO3)	**mg/L**	10		36	12
Inorganics					
Reactive Phosphorus (Orthophosphate)	**mg/L**	0.01		<0.01	0.12*
Nitrite + Nitrate as N	**mg/L**	0.01		<0.01	9.9
Alkalinity (Bicarbonate as CaCO3)	**mg/L**	5		210	150
Alkalinity (Carbonate as CaCO3)	**mg/L**	5		<5	<5
Alkalinity (Hydroxide) as CaCO3	**mg/L**	5		<5	<5
Alkalinity (total) as CaCO3	**mg/L**	5		210	150
Ammonia as N	**mg/L**	0.02		0.49	<0.02
Chloride (filtered)	**mg/L**	5	250	330	16
Electrical Conductivity (Lab)	**µS/cm**	10		1,400	430
Kjeldahl Nitrogen Total	**mg/L**	0.2		4.9	<0.2
Nitrogen (Total)	**mg/L**	0.2		4.9	9.9
pH (Lab)	**-**	0.1		6.8	7.7
Total Phosphorus (Organic Phosphate)	**mg/L**	0.01		0.18	0.17
Salinity	**mg/L**	10		690	200
Sodium	**mg/L**	0.5		120	15
Sulphate (filtered)	**mg/L**	1	1,000	35	13*
Total Dissolved Solids (Lab)	**mg/L**	5		810	360
Metals					
Aluminium	**mg/L**	0.05	0.2	0.80	2.5
Aluminium (filtered)	**mg/L**	0.05	0.2	0.70	0.46
Selenium (filtered)	**ug/L**	1	100	<1	<1
Arsenic (filtered)	**mg/L**	0.001	0.1	0.002	0.006
Cadmium (filtered)	**mg/L**	0.0001	0.02	<0.0001	<0.0001
Chromium (III+VI) (filtered)	**mg/L**	0.001		0.002	0.001
Iron	**mg/L**	0.01	0.3	4.3	3.1
Iron (filtered)	**mg/L**	0.01	0.3	4.3	0.40
Manganese (filtered)	**mg/L**	0.005	5	0.35	0.055
Nickel (filtered)	**mg/L**	0.001	0.2	0.002	0.003
Zinc (filtered)	**mg/L**	0.005	3	<0.005	0.065

* The highest value has been adopted from QA/QC samples

Environmental Standards

WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPUG) (2021)

Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

GDR1 ABOUT THIS APPENDIX

These technical notes are to be read with the attached report. These notes contain important information regarding the study in the attached report, and the report cannot be considered in isolation without full reading of these notes.

Where there are conflicts between this appendix and the report text, the report text takes precedence.

Unless noted otherwise, geotechnical investigations are conducted in accordance with AS1726-2017, “Geotechnical site investigations”.

Unless noted otherwise, the report does not include any assessment (or implied assessment) of karst risk.

GDR2 DEFINITIONS

The following definitions apply:

- **Approved Fill** – fill that has been assessed and approved by the geotechnical engineer or civil designer for a particular purpose.
- **Bedding** – A controlled fill layer placed beneath buried elements such as pipes, cables or other infrastructure to provide uniform support and distribute loading.
- **Bulk Fill** – Controlled fill intended to support future infrastructure, but potentially lacking some engineering properties required for upper fill layers or adjacent to structures, where fill with specific properties may be required. Contrast with Select Fill.
- **Civil Design** – the engineering design of the earthworks including surface water and erosion control and subsurface drainage control (where required) to achieve an earthworked, drained site which is capable of supporting the proposed development (including target site classification to AS2870, where relevant). This design is separate to this geotechnical investigation and is a required element of a site development.
- **Clay** – A component of a soil with particles smaller than 0.002 mm in size.
- **Cohesionless (Non-cohesive) Soil** – A soil mass that has does not hold together at low applied stress levels. The strength of the soil depends solely on friction between particles.
- **Cohesive Soil** – A soil mass that has holds together and can adhere to itself.
- **Collapsible Soil** – a soil with high void ratio that is typically strong when dry but loses strength and consolidates under constant stress when wetted, usually due to loss of soil matric suction or dissolving of a chemical cementing agent.
- **Compaction –** The process of increasing the soil density, typically be mechanical means.
- **Competent Person** – A person who has, through a combination of training, education and experience, acquired knowledge and skills enabling that person to correctly perform a specified task.
- **Consistency** – The stiffness of a cohesive soil, at specific moisture contents, to resist mechanical stress or manipulation (remoulding).
- **Controlled (or engineered) Fill** – Any fill for which engineering properties are controlled during placement. Also referred to as structural fill.
- **Dense –** with respect to sandy soils, at a relatively high density index or dry density ratio, exhibiting better engineering parameters with respect to strength and stiffness than the same material at a lower density index.
- **Density** – A measure of the mass of material per unit volume.
- **Eccentric Load** – a load incorporating either a varying vertical load and/or a horizontal load such that the peak vertical stress exceeds the average vertical stress.
- **Embedment Fill** – A controlled fill material placed around and above buried infrastructure (such as pipes, cables or conduits) to provide protection and support.
- **Fill** – Any material that has been placed by anthropogenic processes.
- **Fines** – A component of a soil with particles smaller than 0.075 mm in size.
- **Groundwater** – Water located beneath the earth’s surface in pore spaces, fractures and voids in soil or rock.

- **Gravel** – A component of a soil with particles between 2.36 mm and 63 mm in size.
- **Heavily Loaded** – in reference to mobile plant, particularly intended for equipment where ground bearing pressures exceed 50 kPa and/or equipment has a high centre of gravity and could be prone to toppling. In reference to buildings/structures, where footing pressures exceed 100 kPa and/or footing dimensions exceed 1 m wide.
- **Hydraulic Conductivity** – ratio of volume flux to hydraulic gradient – a quantitative measure of soil's ability to transmit water when subjected to a hydraulic gradient. k_{sat} – saturated hydraulic conductivity, intended for dewatering assessment, subsoil drainage design and other engineering assessments where saturated soils are relevant. k_{unsat} – unsaturated hydraulic conductivity, intended for design of stormwater disposal elements such as soakwells and infiltration basins, where the base of disposal elements is above the groundwater level.
- **In situ** – In the place and condition in which it exists naturally. May also refer to fill that is present at any site prior to an investigation taking place.
- **Limestone** – A sedimentary carbonate rock. The use of the term does not infer a specific strength, carbonate content or grain size. Refer to GDR4.1 for further detail.
- **Loose** – with respect to sand soils, at a relatively low density index or dry density ratio, typically indicating poorer engineering parameters with respect to strength and stiffness than the same material at a higher density index.
- **Material** – Matter that meets the definitions of 'soil', 'rock', other engineered matter (i.e., concrete, bricks etc.) or non-engineered matter (organics, contaminated refuse, deleterious material).
- **May** – Indicates that the statement is an option.
- **Must** – Indicates that the statement is mandatory.
- **Natural** – In the context of soil or rock, material which is present as a result of natural geological processes and has not been subject to anthropogenic engineering processes (such as filling, excavation, replacement, etc).
- **Organic** – In the context of soil, material derived from living matter, primarily plants.
- **Overconsolidated** – a soil that has been subjected to a greater vertical stress than its current state.
- **Permeable Soil** – soil that meets the civil design permeability requirements to allow relatively rapid flow of water through the soil matrix.
- **Rock** – Any aggregate of minerals and/or materials that cannot be disaggregated by hand in air or water without prior soaking.
- **Sand** – a component of soil with particle size between 0.075 mm and 2.36 mm.
- **Select Fill** – a controlled fill which has been chosen for particular engineering characteristics (such as strength, CBR, grading, permeability, etc), commonly for use as a higher-grade capping layer or adjacent to structures. Contrast with Bulk Fill.
- **Shall** – Indicates that the statement is mandatory.
- **Should** – Indicates that the statement is a recommendation.
- **Silt** – A component of a soil with particles between 0.075 mm and 0.002 mm in size.
- **Soil** – Particulate materials that occur in the ground and can be disaggregated or remoulded by hand in air or water without prior soaking.
- **Sand** – A component of a soil with particle between 0.075 mm and 2.36 mm in size.
- **Uncontrolled Fill** – Any material that has been deposited by anthropogenic process, which does not meet the definition of 'controlled fill'.

GDR3 GEOTECHNICAL TEST METHODS AND INTERPRETATION

GDR3.1 Test Pit Excavation

Test pit excavations are formed using mechanical excavation equipment (typically an excavator) or hand dug, with the objective of inspecting (or profiling) the soil exposed in the excavation.

Typical limitations on test pit excavations are:

- Limited depth of excavation – typically governed by reach of the excavator arm.
- Cannot be excavated below groundwater in cohesionless soils, due to collapse and water ingress.
- Cannot be excavated through very stiff / very dense soils (i.e., desiccated clays or cemented soils) or most rock.
- Cannot typically obtain rock samples that are suitable for strength testing.

Test pits are usually mechanically excavated with a toothed bucket (intended for excavation in clay or weak rock) or a flat-edged bucket (typically for sands).

When hand-dug test pits are excavated, it is usually for recovery of near-surface soils or inspection of shallow in-ground elements.

We note that where test pits are excavated on a site, they are only ever loosely backfilled during our studies. They must always be located during site preparation works, over-excavated to their full depth and plan extents and re-filled with approved fill in compacted layers.

GDR3.2 Cone Penetration Tests (CPTs)

Cone penetration testing (CPT) is done by Galt or specialist contractors and typically to AS1289.6.5.1. The test involves pushing an instrumented cone into the soil with a hydraulically operated pushing frame. The test measures tip resistance and sleeve friction on the cone, which are then plotted with depth.

We interpret soil types and associated geotechnical soil parameters from CPT data using the following:

Technical Interpretations and International Guides

- Robertson P.K., Campanella R.G., Gillespie D. and Grieg J. (1986). “Use of piezometer cone data”. Proceedings of the ASCE Speciality Conference In Situ ’86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE).
- Robertson, P.K., Cabal K.L. (2016) “Guide to Cone Penetration Testing for Geotechnical Engineering 6th Edition 2015”. Gregg Drilling & Testing, Inc., California.
- Baldi G., Bellotti R., Ghionna V.H., Jamiolkowski M., Lo Presti D. C. (1989) “Modulus of sands from CPTs and DMTs”. Proc. 12th Int. Conf. on SMFE, Rio de Janeiro, Vol 1, p165-170, Balkema, Rotterdam.

Local (Perth and Western Australia) Research, Interpretation and Guides

- Fahey, M., Lehane, B., Stewart, D. (2003) “Soil stiffness for shallow foundation design in the Perth CBD”. Australian Geomechanics Vol. 8 No. 3.
- Main Roads Western Australia (MRWA) (2009) “Structures Engineering Design Manual”. Document 3912/03, Perth.
- Lehane B. (2017). “CPT-Based Design of Foundations”, E.H. Davis Memorial Lecture, Australian Geomechanics, Vol 54. No. 4’ and
- Galt’s in-house correlations between CPT data and other geotechnical testing.

GDR3.3 Borehole Drilling

Boreholes are drilled for sampling of the soil and rock, with a small disturbance footprint. Typical techniques are:

- Auger drilling (hand auger or machine auger) – for recovery of soil at relatively shallow depths only. Cannot penetrate cemented soils or rock.
- Push probe drilling – for recovery of soil at relatively shallow depths and below groundwater. Cannot penetrate cemented soils or rock.

- Air core drilling – for recovery of soil, cemented soil and rock (typically up to high strength rock). Not suited to drilling of very high strength rock.
- Diamond coring (or rotary coring) – for recovery of cemented soil, rock and some soil types (typically not sand). Suited to all strengths of rock.

If used, standard penetration tests (SPTs) are done in accordance with AS1289.6.3.1. Correlations for consistency and density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.4 Dynamic Cone Penetrometer (DCP)

The DCP is a hand-held tool for assessing penetration resistance of a soil. This comprises a 16 mm rod equipped with a 20 mm cone, hammered into the ground using a falling 9 kg weight on a 510 mm slide hammer on the top of the rod. This is done in accordance with AS1289.6.3.2 and the blow counts to hammer in the rod are measured in 100 mm penetration increments. Where provided, correlations for consistency and density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.5 Perth Sand Penetrometer (PSP)

The PSP is a variation on a DCP and uses a 9 kg weight on a 600 mm slide hammer to hammer in a 16 mm rod with a blunt (square-faced) end. Testing is done in accordance with AS1289.6.3.3, with the following typical variations:

- Testing is often done to a greater depth than the 450 mm covered in the standard.
- Blow counts are sometimes recorded in 150 mm intervals (compared to 300 mm intervals used in the standard) to provide better resolution on the tests.

Where provided, correlations for density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.6 Dynamic Probing Super Heavy (DPSH)

The DPSH test involves driving a solid cone (20 cm^2) into the ground using a 63.5 kg hammer falling 760 mm. Testing is done in accordance with EN ISO 22476-2 – Geotechnical engineering – Field testing – Part 2: Dynamic probing – DPSH-B.

Results may be presented as either:

- N10 (No. of blows required for every 100 mm penetration);
- N30 (No. of blows required for every 300 mm penetration); or
- q_d (dynamic tip resistance, analogous to CPT q_c).

GDR3.7 Inverse Auger Hole Infiltration Test (Falling Head, Unsaturated Soil)

Infiltration tests are carried out using the 'inverse auger hole' method described by:

- Cocks, G (2007), "Disposal of Stormwater Runoff by Soakage in Perth Western Australia", Journal and News of the Australian Geomechanics Society, Volume 42 No. 3, pp 101-114

This test is an unsaturated falling head test, in that it is carried out above the groundwater table and is intended to mimic the behaviour of soak wells and similar drainage elements (i.e. soakage basins), which discharge stormwater into an unsaturated medium.

The hole is wetted only for a short period prior to the testing.

The test is usually repeated three times, with the intention that the second and third tests provide similar results (within about 10%-20%). Tests are done over a short duration, typically 2 minutes to 10 minutes. The focus of the testing is generally when the head is low (200 mm or lower), such that the relevant lateral zone is as saturated as the zone directly below the borehole.

The hydraulic conductivity derived from this test is not to be used for applications where saturated hydraulic conductivity is relevant, e.g.:

- Subsoil drainage design; and

- Dewatering estimations.

Based on Galt's in-house research, this method does not completely saturate the soil in any reasonable test length, and thus may not be suitable for assessment of soils at sites where the critical drainage condition is a fully saturated soil (i.e., in areas with high groundwater tables). Our research on sand sites indicates that the test does correlate well with actual soak well performance, in unsaturated sand zones without impermeable zones.

GDR3.8 Guelph Permeameter Test (Constant Head, Quasi-Saturated Soil)

The Guelph permeameter test, conducted in accordance with the constant head test method outlined in Appendix G of AS1547, is a constant-head test in nominally "saturated" soil (in that the test is conducted until a "steady state" is reached). However, we note that this test can only be done above the groundwater table and as such, is in an unsaturated zone. Therefore, the hydraulic conductivity derived from this test should be used with caution and evaluated against other test methods (such as saturated, constant-head permeability testing from laboratory samples, or in situ saturated hydraulic conductivity testing below the groundwater table).

GDR4 GEOLOGICAL UNITS

GDR4.1 Limestone

The term 'Limestone' is used to describe a carbonate rock. Tamala Limestone is the common limestone in Western Australia, and typically comprises cemented quartz and shell fragments cemented together by calcium carbonate.

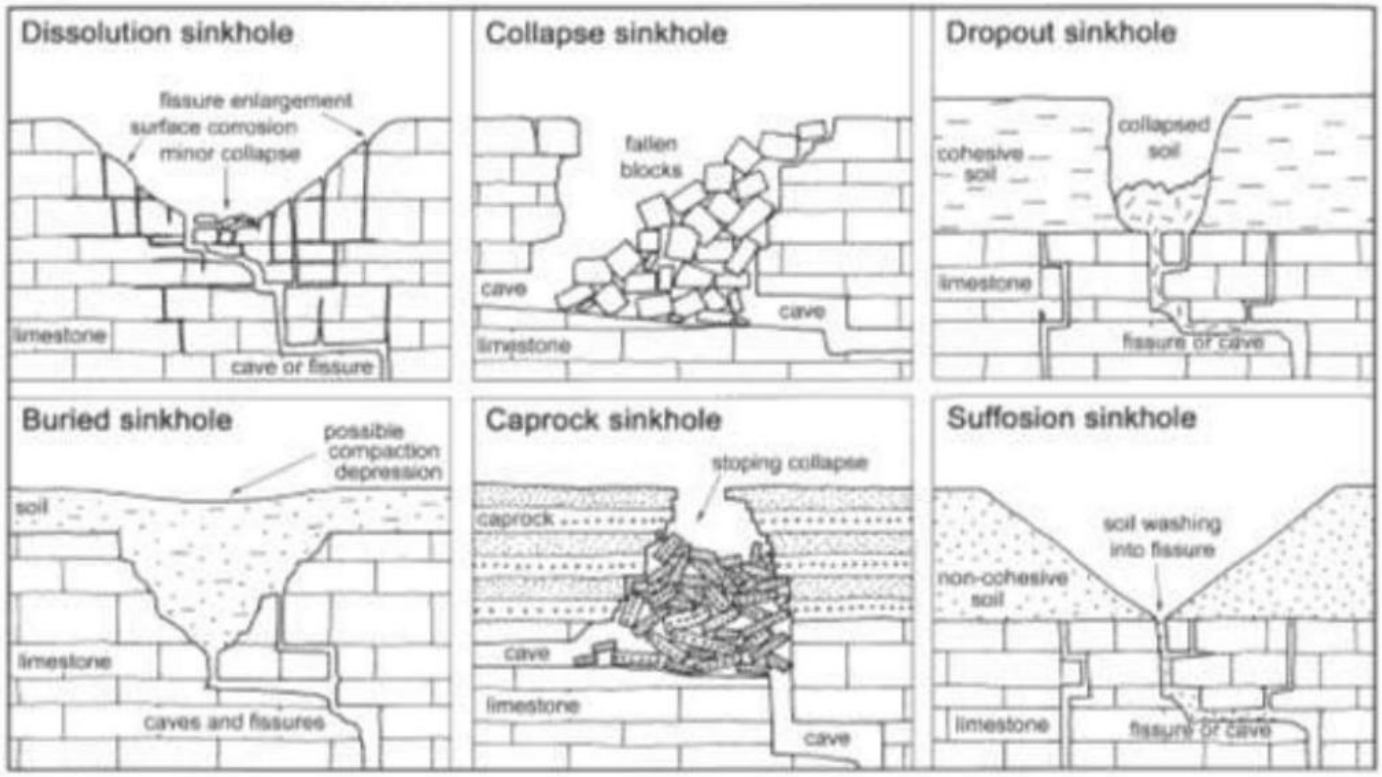
Limestone can vary significantly across short distances in composition, strength and cementation. Tamala limestones in Western Australia also have known possible geological features including:

- Caprock/calcrete – The formation of a very hard duricrust, usually due to sun exposure. Caprock may be up to 3 m thick, but typically around 1.5 m thick. Caprock is very difficult to excavate and may require the use of hydraulic rock breakers or rock saws to excavate.
- Solution features/tubes – Often initially formed due to the presence of Eucalypt and Jarrah roots during limestone formation, and often increasing in depth and size due to ongoing weathering. May be up to 500 mm in diameter. These are typically filled with very loose, unconsolidated sand.
- Pinnacles – Pinnacles are usually the limestone that is left around surrounding solution features. Often can comprise very hard limestone/caprock that can be substantially higher than surrounding areas. Pinnacles may have also been formed by surrounding erosion (i.e., wind/water).
- Karst/caves – Karst is caused by the dissolution of limestone, typically where there is interaction in low-lying areas with water and limestone. Karst manifests itself as loose near-surface sand with cavities (caves) in the underlying limestone. This can lead to sinkholes and collapse of overlying structures.

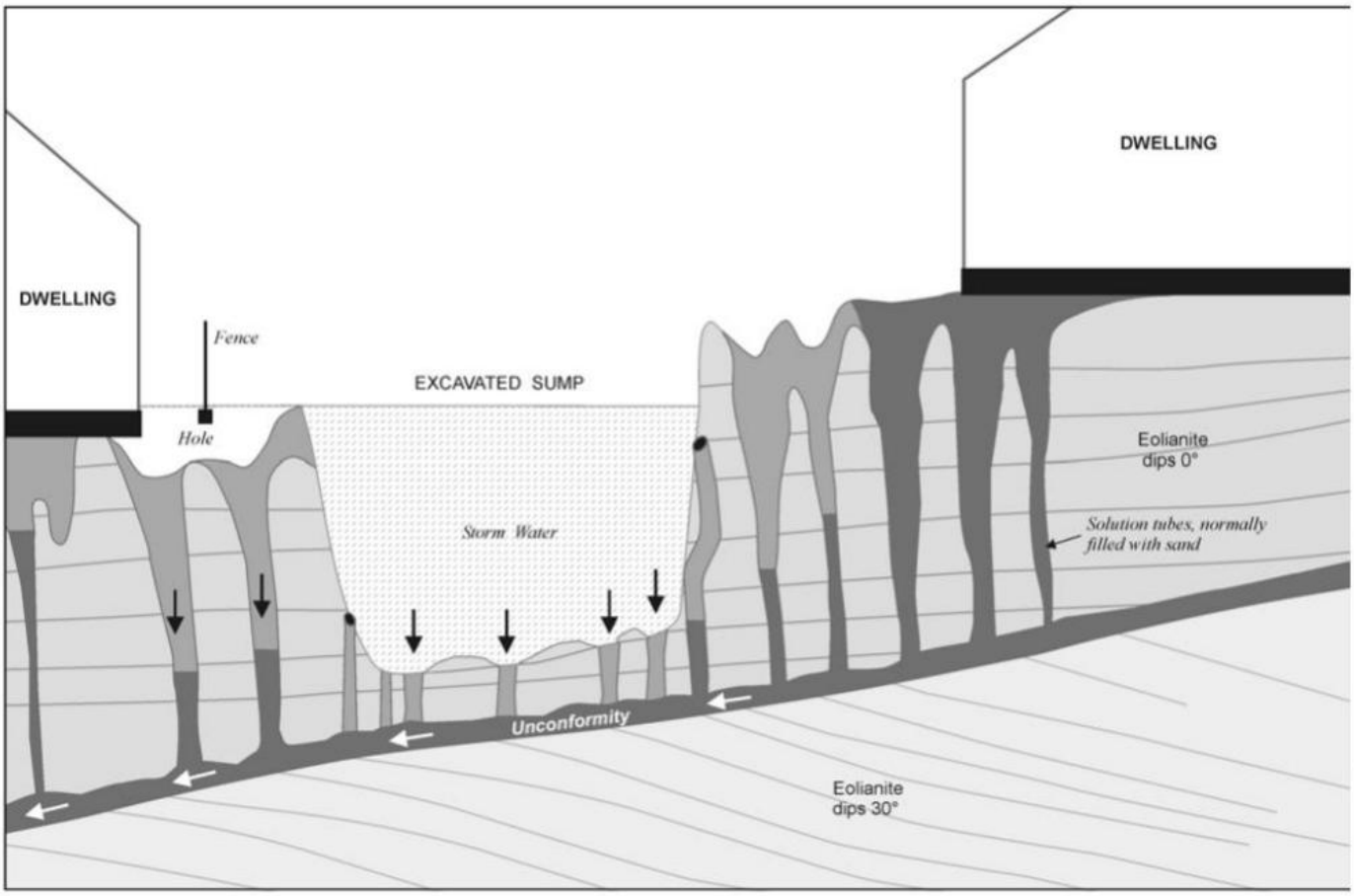
Inline images showing typical pinnacle/solution features and Karstic features follow. These are taken from:

- Gordon, R. (2003). "Coastal Limestones". Australian Geomechanics Vol.38 No. 4, The Engineering Geology of Perth.
- Waltham, A. & Fookes, P. (2003). "Engineering Classification of Karst Ground Conditions: Quarterly Journal of Engineering Geology and Hydrogeology, Vol 36.

Inline Image GDR 1 - Karstic Sinkhole Features from Waltham and Fookes (2003)



Inline Image GDR 2: Pinnacle/Solution Features from Gordon (2003)



GDR4.2 Pindan Sands and Collapsible Soils

In the Western Australian context, Pindan sands are sandy soils present predominantly across the Pilbara and Kimberley regions. Pindan sands are typically:

- Red brown in colour.
- Between 10% and 40% fines.
- Of aeolian origin, usually resulting in unconsolidated in situ conditions (nuclear density gauge testing often indicates these soils have in situ density ratios of 80%-85% of modified maximum dry density).
- Very strong when dry due to high soil suctions in the fine fraction, which create strong bonds between the sand particles.

As the grains are usually held in place by the dry fine fraction, this can lead to:

- very high settlements (i.e., “collapse”) as the grain-to-grain bonds are weakened as matric suction decreases on soaking; and
- loss of vertical and horizontal strength/stiffness as the grain-to-grain bonds weaken.

The risks associate with Pindan sands are usually quantified in terms of the collapse potential/magnitude of possible collapse events.

Other similar soils are present in Western Australia that may exhibit similar collapse potential and may not strictly be Pindan sands (i.e., have other grain-to-grain bonding mechanisms).

GDR5 SITE CLASSIFICATION

Site classification refers to the assessment of a site in reference to AS2870-2011, “Residential slabs and footings”. The method for assessing the site class is outlined in Section 2 of AS2870-2011, which indicates that this may be done by:

- assessing the characteristic surface movement, due to seasonal moisture changes in the soil profile;
- assessing the performance of existing foundations; or
- assessment of the soil profile (where there are deleterious inclusions, landfill, putrescible waste etc.).

The site classifications based on the expected characteristic surface movement are summarised in Table GDR 1.

Table GDR 1: Summary of Site Classifications (AS2870-2011)

Class	Description	Characteristic Surface Movement (y_s)
A	Most sand and rock site with little or no ground movement from moisture change	Not Defined (typically <5 mm)
S	Slightly reactive clay sites with only slight ground movement from moisture changes	0 – 20 mm
M	Moderately reactive clay sites, which may experience moderate ground movements from moisture change	20 – 40 mm
H1	Highly reactive sites, which may experience high ground movements from moisture change	40 – 60 mm
H2	Highly reactive sites, which may experience very high ground movements from moisture change	60 – 75 mm
E	Extremely reactive sites, which may experience extreme ground movements from moisture change	>75 mm
P	Sites which include soft soils, such as soft clay or silt or loose sands; landslip; mine subsidence; collapsing soils; soils subject to erosion; reactive sites subject to abnormal moisture conditions or sites which cannot be classified otherwise	Not Defined

The calculated characteristic surface movement is predominantly based on:

- the reactivity (i.e., the shrink-swell potential) of the soil (and any proposed fill);
- the design depth of soil suction change, which is the maximum expected depth of soil suction change due to seasonal soil moisture changes; and
- the depth to any bedrock and groundwater table.

The design depth of soil suction change for Western Australia has been refined using the Thornthwaite Moisture Index (TMI). We have carried out assessment using the depths as detailed in:

- Hu Y, Saraceni P, Cocks G, Zhou M (2016). "TMI assessment and climate zones in Western Australia". Australian Geomechanics Journal, Vol.51 No.3.
- Hu Y, Raj A, Cocks G, Verheyde F (2019). "Re-assessment of TMI based climate zones in metropolitan Perth, WA". ANZ Geomechanics Conference 2019, Perth Australia.

The design depth of soil suction change for Northern Territory is based on the research presented in:

- Jackson, S (2022), "Thornthwaite moisture index and climate zones in the Northern Territory", Australian Geomechanics Journal, Vol. 57 No. 3.

We highlight that AS2870-2011 does not make any reference to the fines content of a soil when assessing the site classification.

Where a site classification is provided in our reports, it is always predicated on the requirement that the recommended site preparation procedures are carried out.

We also highlight that the footing performance and shrink-swell movements of a site can be impacted by the planting or removal of trees. This should be considered where appropriate, and we refer to the CSIRO BTF 18-2011 "Foundation Maintenance and Footing Performance: A Homeowner's Guide" for further information.

AS 2870 is limited to single and double storey residential buildings with normal shallow footings with a maximum bearing pressure of 100 kPa and is not applicable where development types other than this are proposed.

GDR6 SITE PREPARATION

GDR6.1 General

The intent of the site preparation guidelines provided in the above report are to ensure that the earthworks can be constructed to meet specific requirements, i.e., minimum compaction, fill requirements, removal of unsuitable material etc. The site preparation guidelines are not exhaustive, and on-site conditions may dictate that other preparation measures may be required to meet geotechnical requirements.

GDR6.2 Site Preparation

Site preparation measures outlined in this section relate to bulk earthworks at the site in preparation for the construction of buildings, pavements and other structures.

The preparation of a site in accordance with outlined measures below or those presented in the report text does not imply that the site is suitable for heavily loaded plant or eccentric loads. This is especially applicable for working platforms for mobile plant including cranes, crawlers or the like. The site surface may still not be trafficable for mobile plant. Individual working platform assessments must be done if heavily loaded mobile plant are proposed.

GDR6.2.1 Common Measures

The common measures outlined below are to prepare standard sites in advance of proof compaction, bulk excavation and filling. These measures are applicable to most sites, however the applicability of these measures is stated in the main report.

Table GDR 2: Common Measures

Measure	Commentary
Demolish and remove structures and pavements	Demolish existing structures and pavements, including removal of all buried services and footings and dispose off-site.
Remove demolition debris and other deleterious material	Remove any demolition debris and other deleterious material from site including old footings, slabs, soak wells, buried services, paving and building rubble.
Strip uncontrolled fill (where present)	Strip any uncontrolled fill from the site (where encountered) and, if suitable, stockpile it for potential re-use as non-structural fill. If contaminated, dispose off-site. Refer to the report text for discussions on the presence of detected uncontrolled fill and its composition. It is important to realise that undetected uncontrolled fill may be present between test locations and the absence of its identification in our report does not preclude its presence. If uncontrolled fill is detected during site works, please contact us for inspection and to provide recommendations.
Remove trees	All tree roots must be removed, this may result in significant excavation in places. Where tree roots and stumps are removed, the disturbed soil must be over-excavated and replaced with controlled, compacted fill. Backfilling of over-excavations is discussed in the following sections .
Strip and stockpile topsoil.	Strip and stockpile topsoil from unpaved areas of the site for potential re-use in non-structural applications. The topsoil strip is only necessary to remove roots and we recommend a topsoil strip as necessary to remove all roots from the soil.
Carry out bulk excavation	Excavate to the required level. Stockpile suitable excavated material for potential re-use as fill (the re-use of spoil as fill , if appropriate, is discussed in the report text) and remove unsuitable or excess material off-site.
Batter edges of excavation	Excavations should be battered to a temporary slope as given in the report text where applicable and not in close proximity to adjacent structures etc. If required, construct temporary/permanent retaining walls where batters cannot be accommodated.

By following these measures, the site should have been prepared to a point where topsoil and vegetation has been removed to expose either natural soil or controlled fill. Over-excavation to the required levels may then be required for some projects. Once complete, the site is now ready for proof compaction and filling.

GDR6.2.2 Sand Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by sand.
- No collapsible soils present.
- No deep loose sand.
- Compaction of a loose upper horizon to maximum 1 m depth.
- No shallow groundwater (<1 m deep).
- No limestone or other rock present at shallow depth.
- “Common Measures” outlined in Section GDR6.2.1 have been completed (as required).

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings, pavements and any other settlement-sensitive infrastructure is proposed.

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 3: Sand Site Measures

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must **not** assume that the use of the PSP is appropriate.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.

In following this method, shallow/surficial loose sand will be compacted, and the site will be filled (where required) in preparation for supporting footings, ground slabs, pavements and the like.

GDR6.2.3 Deep Loose Sand Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by sand.
- Collapsible soils or deep loose sand present (if applicable, this is discussed in the report).
- Over-excavation, compaction and replacement of loose sand required.
- No shallow groundwater (<1 m deep).
- No limestone or other rock present at shallow depth.
- "Common Measures" outlined in Section GDR6.2.1 have been completed.

The greatest depth of compaction that can be achieved with standard compaction equipment (vibrating roller, etc) is around 1 m (for sands). As such, it is necessary to cut down the site level to a point where this compaction can be done to the lowest level needed to be improved.

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings and any other settlement-sensitive infrastructure are proposed. Not typically required for pavement subgrades, however, this is discussed in the report if required.

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 4: Deep Loose Sand Site Measures

Measure	Commentary
Over-excavate to the required depth.	Over-excavate sand soil to the depth stated in the report and, if appropriate (discussed in report) retain it for re-use as fill. Over-excavation is likely to be done in stages depending on the site area available for earthworks. Excavations must be battered to a temporary slope as given in the report text where applicable and not in close proximity to adjacent structures etc. If required, construct temporary/permanent retaining walls where batters cannot be accommodated.
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must **not** assume that the use of the PSP is appropriate.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.

Measure	Commentary
Carry out bulk filling	Where fill is required to build up levels (including restoration of the site surface level to the original level), use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction as specified in Section GDR7.1.

In following this method, deep, loose sand will be compacted to a sufficient depth to reduce settlement impacts and the site will be filled (where required) in preparation for supporting footings, ground slabs, pavements and the like.

GDR6.2.4 Clayey Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by cohesive soils (typically >12% fines, i.e., clayey enough for the fines proportion of the soil to dominate behaviour).
- No collapsible soils present.
- No deep soft soils or organic soils.
- Over consolidated clayey soils present which will not be subject to significant primary or secondary consolidation (settlements expected to be within the limit of typical seasonal movements occasioned by moisture content changes, which would be captured in assignment of an AS2870 site classification).
- No shallow groundwater (<1 m deep)
- No rock present at shallow depth.
- "Common Measures" outlined in Section GDR6.2.1 have been completed.

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings, pavement subgrades and any other settlement-sensitive infrastructure is proposed.

Unless specified otherwise in the report, the **Approved Fill** to be used is **Clay** as outlined in Section GDR8.

Table GDR 5: Clay Site Measures

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed clayey ground to achieve the density specified in Section GDR7.1 ("fine grained soils") to a depth of at least 300 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("fine grained soils") has been achieved to a depth of at least 300 mm. The use of a penetrometer for compaction control of cohesive soils is not an appropriate substitute for in situ NDG testing.
Treat areas of loose or unsuitable material	Any areas of soft clayey soils or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill**. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where excavations are done into clayey soils (e.g. to treat soft zones, remove root balls and the like), they must not be backfilled filled with sand fill (even where a sand topping layer is proposed). Where fill is required (including backfilling of excavations to remove trees), only use **Approved Fill**, moisture conditioned, placed and compacted in layers of no greater than 300 mm loose thickness. Test moisture and compaction as specified in Section GDR7.1.
Grade completed clayey surface	Surface water control is essential for clayey sites. This also applies to control of infiltrated water into sand topping layers or the like. The surface of clayey ground must be graded at a minimum of 1% crossfall to drain. This is a general recommendation, and an appropriate civil design must be done to account for surface and subsoil drainage.
Install sand topping layer	Where a sand topping layer is proposed, this should be done as outlined in Section GDR6.2.5.

These measures do not take into account the objectives of the civil design for the site, particularly with regard to surface water drainage and groundwater control (including clay grading, subsoil drainage, thickness and composition of a sand topping layer and the like). This must be taken into account by the civil designer. General commentary on drainage control measures is presented in Section GDR14.

GDR6.2.5 Sand Topping Layer

Where a sand topping layer is required:

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 6: Sand Topping Layer Measures

Measure	Commentary
Prepare Substrate	Prepare the clayey or other substrate as separately outlined prior to installing the topping layer.
Build up sand topping layer	Build up level to the required level with **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness to achieve the density specified in Section GDR7.1.

For the purposes of achieving the allowable bearing pressures and site classification discussed in the report, it is not necessary to have the bases of slabs and footings in the sand topping layer, i.e. if required, they may extend through the sand topping layer into clayey soil below.

GDR6.2.6 Limestone Sites

The preparation measures outlined below are provided for sites underlain by limestone (refer to Section GDR4.1), meeting the following criteria:

- Site underlain by sand overlying limestone.
- Compaction of a loose upper horizon to maximum 1 m depth, with localised deeper treatments between pinnacles if required.
- No shallow groundwater (<1 m deep)
- “Common Measures” outlined in Section GDR6.2.1 have been completed.

The site preparation measures outlined below are aimed at improvement of the site in preparation for construction of the structures including on-ground slabs, shallow footings, retaining walls and pavements.

Unless specified otherwise in the report, the **Approved Fill** may comprise one of the following as specified in Section GDR8 (the specific selection is subject to the requirements of the civil designer):

- **Permeable Sand** where permeable fill is required
- **General Sand** where permeable fill is not required
- **Mixed Sand/Limestone Fill** where permeable fill is not required

The re-use of any limestone for fill is subject to the requirements of the civil design and discussions in the report text. The use of **Mixed Sand/Limestone Fill** is discussed in Section GDR6.2.7. The preparation measures outlined in Table GDR 7 assume sand fill.

Table GDR 7: Standard Limestone Site Measures (Bulk Earthworks)

Measure	Commentary
Treat zones of loose sand	Where deep loose sand is present (particularly, but not exclusively, between limestone pinnacles), over-excavate to the depth as noted in the report . Sand should be retained for re-use as fill if recommended in the report. Limestone debris and pinnacles should be separated and only re-used if recommended in the report.
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm. Proof compaction of intact limestone is not required.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must not assume that the use of the PSP is appropriate. If refusal to the test method is encountered within the target test depth on limestone and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact limestone is not required.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in limestone and specific advice may apply to the installation of soakwells in limestone areas. If not discussed in our report, please contact us for further advice.

Without further consultation with the structural designer, footings for any one structure must not be founded on a mixture of sand and intact limestone. This is due to potential differential settlements between limestone zones (relatively stiff) and soil zones (relatively soft). Where this is the case, the measures outlined in Table GDR 8 must be followed, only with guidance from the structural designer and Galt.

Table GDR 8: Standard Limestone Site Measures (Footing and Slab Preparation)

Measure	Commentary
Excavate and compact for slabs, subgrades, pad or strip footings	Excavate for pad and strip footings. Where a mix of soil and limestone is present below any one structure, one of the following must be done (to be agreed with structural designer and us): ▪ **Over-excavate limestone and replace with compacted soil:** Typically where the foundation largely comprises soil and a relatively small amount of limestone is present. Where footings and slabs are founded partly on soil and partly on limestone, over-excavate the limestone by at least 300 mm below the base of footing or slab and replace the excavated material with compacted **Approved Fill**. ▪ **Remove soil from over limestone and replace with concrete**: Typically where the foundation largely comprises limestone and a relatively small amount of soil is present. Localised zones of sand and mixed sand/limestone rubble must be removed and replaced with lean-mix concrete, e.g. 10 MPa blinding concrete. ▪ **Design the structure to accommodate differential foundation movements:** For example, include construction joints or use a more heavily reinforced footing (subject to the structural designer's requirements).
Test compaction of footing bases, slabs or subgrades.	Compact the exposed bases to achieve the density specified in Section GDR7.1 ("sand"), to a depth of at least 900 mm, or to the depth where limestone is intersected. If refusal to the test method is encountered within the target test depth on limestone and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact limestone is not required. Remove, replace and compact as required with approved fill any zone not achieving the density specified in Section GDR7.1 ("sand")

GDR6.2.7 Mixed Sand/Limestone Filling

On sites where deemed appropriate by the Civil Design, **Approved Fill** may comprise limestone rubble fill (**Mixed Sand/Limestone**, as specified in Section GDR8).

The preparation measures outlined below are provided for sites meeting the following criteria:

- No shallow groundwater (<1 m deep)
- "Common Measures" outlined in Section GDR6.2.1 have been completed.
- Substrate preparation for the relevant site type has been done in preparation for further filling (as relevant for sand, limestone or clayey sites discussed in the preceding sections).

The site preparation measures outlined below are required prior to construction of structures including on-ground slabs, shallow footings, retaining walls and pavements.

Table GDR 9: Mixed Sand/Limestone Fill Measures

Measure	Commentary
Develop a method specification for the filling	A performance specification is not appropriate for compaction control in **Mixed Sand/Limestone** fill, due to oversize limestone particles and the limitations of test methods. Therefore, a method specification is required. Development of a method specification is discussed in Section GDR7.5. A tentative method specification for **Mixed Sand/Limestone** Fill preparation is also provided.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in accordance with the developed method specification.
Maintain Construction Records	As performance testing cannot be done, quality assurance records are limited. Therefore, the parameters mentioned in Section GDR7.5.1 must be kept in a comprehensive record of the earthworks done to the developed method specification. The use of the PSP is possible only to check for loose sand zones between limestone particles. High PSP blow counts, where limestone particles are intersected, are meaningless in terms of assessing density of the prepared fill. The primary means of validation of the earthworks is conformance with the developed method specification.
Install sand topping layer	Where a sand topping layer is proposed, this should be done as outlined in Section GDR6.2.5.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in limestone fill and specific advice may apply to the installation of soakwells in limestone fill areas. If not discussed in our report, please contact us for further advice.

GDR6.2.8 Rock Sites

The preparation measures outlined below are provided for sites underlain by rock, meeting the following criteria:

- Site underlain by shallow soil overlying rock, or outcropping rock.
- No shallow groundwater or surface water (>1 m deep).
- Common site preparation measures outlined in GDR6.2.1 have been completed. In addition to these measures, any surface cobbles/boulders will need to be removed from the site.

The site preparation measures outlined below are aimed at improvement of the site for construction of structures including on-ground slabs, shallow footings, retaining walls and pavements.

Approved Fill will be as specified in this report. The re-use of any rock for fill is subject to the civil design requirements and any other requirements noted in the report text. The preparation measures outlined below assume **Approved Fill**.

Table GDR 10: Standard Rock Site Measures (Bulk Earthworks)

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed ground (soil above rock) to achieve the density specified in Section GDR7.1 to a depth of at least 300 mm. Proof compaction of rock is not required.
Test proof compaction	Check that the density specified in Section GDR7.1 has been achieved to a depth of at least 300 mm. in situ NDG testing is suitable to assess compaction. Compaction control of intact rock is not required.
Treat areas of loose or unsuitable material	Any areas of loose / soft or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as **Approved Fill.**
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.
Grade surface	Surface water control may be required for lower permeability soils/rock, or at an interface where high permeability fill is placed over relatively impermeable soils/ rock. The surface of any impermeable ground / rock must be graded at a minimum of 1% crossfall to drain. This is a general recommendation, and an appropriate civil design must be done to account for surface and subsoil drainage.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in rock and specific advice may apply to the installation of soakwells in these areas. If not discussed in our report, please contact us for further advice.

Without further consultation with the structural designer, footings for any one structure must not be founded on a mixture of sand and rock. This is due to potential differential settlements between rock zones (relatively hard) and soil zones (relatively soft). Where this is the case, the measures outlined below must be followed, only with guidance from the structural designer and Galt.

Table GDR 11: Standard Rock Site Measures (Footing and Slab Preparation)

Measure	Commentary
Excavate and compact for slabs, subgrades, pad or strip footings	Excavate for pad and strip footings. Where a mix of soil and rock is present below any one structure, one of the following must be done (to be agreed with structural designer and us): ▪ **Over-excavate rock and replace with compacted soil:** Typically where the foundation largely comprises soil and a relatively small amount of rock is present. Where footings and slabs are founded partly on soil and partly on rock, over-excavate the rock by at least 300 mm below the base of footing or slab and replace the excavated material with compacted **Approved Fill**. ▪ **Remove soil from over rock and replace with concrete**: Typically where the foundation largely comprises rock and a relatively small amount of soil is present. Localised zones of sand and mixed sand/rock rubble must be removed and replaced with lean-mix concrete (e.g. 10 MPa blinding concrete) or cement stabilised sand (minimum UCS=2 MPa at 7 days). ▪ **Design the structure to accommodate differential foundation movements:** For example, include construction joints or use a more heavily reinforced footing (subject to the structural designer's requirements).

Measure	Commentary
Test compaction of footing bases, slabs or subgrades.	Compact the exposed bases to achieve the density specified in Section GDR7.1, to a depth of at least 300 mm, or to the depth where rock is intersected. If refusal to the test method is encountered within the target test depth on rock and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact rock is not required. Remove, replace and compact as required with **Approved Fill** any zone not achieving the density specified in Section GDR7.1.

GDR6.3 Guidance on Sites with Cohesive Soils

Cohesive soils (most commonly, "clayey" soils) require careful moisture conditioning to facilitate compaction. We recommend that the moisture content of the material is between optimum moisture content (OMC) and 2% wet of OMC at the time of placement and compaction. We note that compaction to the densities specified in Section GDR7.1 can be difficult to achieve for clayey material when not appropriately moisture conditioned.

Vibratory padfoot rollers are preferred for compacting cohesive fill to promote proper kneading and interlocking of subsequent layers.

Clayey soils will drain poorly when inundated following rain events and result in saturated conditions that may inhibit compaction of the soil. In general, it is preferable to avoid trying to re-work clayey sites within several days of any substantial rainfall.

We recommend that the surfaces of clayey sites are sealed by compaction (i.e., final compaction should be with a smooth drum roller) and graded to drain (to avoid low spots where water can pond and cause softening) prior to any rain events. Stripping back of softened materials to expose competent natural or compacted clayey soil is required before continuing earthworks.

If difficulties are experienced during compaction due to water, further advice should be sought from a geotechnical engineer.

GDR6.4 Preparation and Testing of Shallow Footings

GDR6.4.1 General

It is preferable to dig all footing excavations carefully with a flat-edged bucket to minimise the disturbance of underlying foundation soil.

Where the footing base is disturbed, or compaction is required, this must be done using appropriate compaction equipment particular to the task (as evaluated by the contractor) – typically a 'jumping jack', self-propelled plate compactor or an excavator-mounted plate compactor.

All footing bases must be tested to achieve the density requirements of Section GDR7.1 unless otherwise specified. PSP testing of sand foundations is only applicable where the use of the PSP is specifically approved in the report, otherwise all testing is to be done using the NDG.

Sand Topping Layer – Where a sand topping layer is present over a different soil (i.e., clay, limestone etc.), testing of the density of the sand topping layer is only necessary within the thickness of the sand topping layer. Testing does not need to extend into the underlying compacted substrate, which is separately subjected to compaction control.

Mixed Sand/Limestone Fill – Where mixed sand/limestone fill has been installed to a method specification, no compaction control testing is required, however re-compaction of the base must be done as noted above.

In situ limestone – where in situ limestone (weakly or more cemented limestone, with no sand zones or voids) is present at a footing base and no over-excavation has been done (refer to Section GDR6.2.6 regarding over-excavation of footing bases in limestone), then no compaction control testing is required.

Where loose or soft material is encountered, one of the following actions must be taken:

- Over-excavate the loose / soft layer to expose a suitable layer that does meet the required density (Section GDR7.1) and either:
- Place and compact Approved Fill (relevant to the appropriate preparation measures outlined in Section GDR6.2) to achieve the required density (Section GDR7.1); or

- Pouring blinding concrete (f'_c>15 MPa at 28 days) from the competent layer up to the underside of the footing.

All foundations must be assessed by a competent person prior to blinding.

GDR6.4.2 Footings in Clay

Where footings are excavated into natural clay and not subject to filling, density testing (e.g., NDG testing) is not required at the base of the footings. This will be highlighted in the report text if this is relevant to the site conditions. Footing bases must be dug with a flat-edged excavator bucket and the underlying soil not disturbed by trafficking or over-excavation.

In these instances, only testing with a DCP is required in accordance with AS1289.6.3.2 at the footing base to achieve the required blow counts indicated in the report text, to a minimum depth of 0.6 m below the base of the footing, or other depth as indicated in the report text. Where the minimum blow count specified cannot be met, the following options are possible to prepare the footing base:

- Scarify, moisture condition and re-compact all zones not achieving the minimum blow counts. Re-test with a DCP to confirm that any soft zones are remediated; or
- Over-excavate and replace all zones not achieving the minimum blow counts with a suitable compacted low permeability fill (e.g., crushed limestone, clayey fill or other approved fill). This fill must be compacted to the appropriate level as specified in GDR7; or
- Over-excavate and replace all zones not achieving the minimum blow counts with blinding concrete (min. 10 MPa at 28 days) or cement-stabilised sand (min. 2 MPa at 7 days). This is typically appropriate where only the upper zones below the footing base are soft.

Measures must be taken to minimise moisture changes in clayey foundation soils at the base of footing excavations. Concrete footings are to be poured soon after excavation to minimise the potential for excessive moisture change. The use of a concrete blinding layer following foundation preparation should be considered.

GDR7 COMPACTION AND MOISTURE CONDITIONING

GDR7.1 Requirements

Any soil within the significant founding zone of structures (buildings, slabs, pavements, etc.) must be suitably moisture conditioned and compacted. These soils must be compacted to the requirements as outlined below.

Table GDR 12: Compaction and Moisture Requirements

Soil Description	Soil Particle Limits	Moisture Requirement	Density Requirement (DDR)	Possible QA/QC Test Methods
Sand	<5% fines <5% gravel *Maximum particle size 9.5 mm*	MOMC ±2%	95% MMDD	PSP NDG
Gravel	<5% fines >50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG
Clayey/Silty Gravel	5-35% fines >50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG
Sand with fines or gravel	5-35% fines; and/or 5-50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG Method Specification
Fine grained soils (Clayey or Silty)	>35% fines *Maximum particle size 19.0 mm*	MOMC ±2%; or SOMC ±2%[2]	92% MMDD; or 95% SMDD	NDG Method Specification
Oversize/rubbly soil	Any soils with particles >19.0 mm	MOMC ±2%	95% MMDD (Or equivalent to)	Method Specification Detailed Assessment Based on Specific Material

NOTES: ***1.*** *DDR – Dry Density Ratio*

MMDD – Modified maximum dry density (AS1289.5.2.1)
MOMC – Modified optimum moisture content (AS1289.5.2.1)
SMDD – Standard maximum dry density (AS1289.5.1.1)
SOMC – Standard optimum moisture content (AS1289.5.1.1)
PSP – Perth Sand Penetrometer
NDG – Nuclear Density Gauge

2. *Preferably OMC to OMC +2%, for ease of compaction and producing a homogenous fill*
3. *Test frequencies are specified in Section GDR7.6.*

The soil groups and definitions outlined above are generally based on AS1726-2017. Test methods are discussed in subsequent sections.

GDR7.2 Construction Recommendations

Over-excavation and replacement of loose material must be done where the minimum DDR cannot be achieved.

Fill must be placed in horizontal layers of not greater than 300 mm loose thickness. Each layer must be compacted by suitable compaction equipment, and carefully controlled to ensure even compaction over the full area and depth of each layer.

Care will need to be taken if compacting in the vicinity of existing structures, such as the adjacent properties. This is particularly important if vibratory compaction is being carried out.

- Tynan (1973), “Ground Vibration and Damage Effects on Buildings”, Australia Road Research Board, Special Report No. 11.

Tynan (1973) provides guidance on the selection of compaction equipment for use adjacent to structures. The distance of influence (i.e., the definition of “vicinity”) will vary depending on the size of compaction plant proposed for use. Where there is concern regarding the impact on nearby structures, a dilapidation study should be done.

Care must be taken when compaction is undertaken when the site surface is within 1 m of the groundwater level, as compaction (particularly with vibration) can draw the water up to the surface. In this instance, consideration should be given to:

- Static rolling only;
- Using a pioneering layer (if possible); or
- Dewatering to keep the water at least 1 m below the surface being compacted.

GDR7.3 Nuclear Density Gauge

Where applicable, a nuclear density gauge (NDG) must be used in accordance with AS1289.5.8.1. NDG tests must be done to a depth of 300 mm or as otherwise indicated in the text of the attached report.

GDR7.4 Perth Sand Penetrometer

Where clean sand is used (<5% fines and <5% gravel), a Perth sand penetrometer (PSP) may be used for compaction control in accordance with AS1289.6.3.3. Refer to the report for recommended blow counts correlating to the specified density.

Where the fines or gravel contents of a sand soil exceed the maximum contents noted above, a PSP must not be used exclusively for compaction control. As a minimum, ongoing confirmation testing with an NDG is required. If not specified in our report, please contact us for further advice regarding test frequencies.

If difficulties are experienced recording the required blow counts, a site-specific PSP correlation should be carried out to determine the PSP blow count correlating to a DDR of 95% MMDD. In addition, a particle size distribution (PSD) test should be carried out to verify that the use of a PSP is suitable for the sands being tested. A site-specific PSP correlation must:

- be done on site;
- use the nuclear density gauge (NDG) to determine density at a minimum of 5 points with varying density to a depth of 300 mm below surface;
- include at least 1 point where the dry density ratio is in excess of 95% MMDD;
- use a calibrated PSP to determine the PSP blow count from 150 mm to 450 mm at each NDG test point; and
- be plotted on a chart of PSP blow count vs DDR.

Only where specifically stated as applicable in the report and where the use of the PSP is relevant as noted above, the following values may be taken as deemed to conform to a dry density ratio of 95% MMDD for the relevant sand type.

Table GDR 13: Deemed-to-comply Values for PSP Results in Perth Sands

Depth Interval (mm)	Bassendean	Tamala	Calcareous
0-150	SET	SET	SET
150-450	7	8	12
450-750	9	10	14
750-1050	11	12	16

NOTES:
1. *Blows per 300 mm interval*
2. *Bassendean Sand is typically a white - grey, low-fines quartz sand found on the eastern part of the Perth coastal plain*
3. *Tamala / Spearwood sand is typically yellow or orange, low-fines quartz sand found on the western part of the Perth coastal plain*
4. *Calcareous sands are typically white or yellow, calcareous sand found in low-lying areas on the western fringe of the Perth coastal plain*
5. *Values derived from Galt experience on PSP correlations done on sites across Perth for the 150-450 mm interval.*

GDR7.5 Method Specifications

GDR7.5.1 General

Where proposed, a method specification should be developed by a geotechnical engineer or similarly qualified person and ratified by us (including a site visit by us). The method specification should be confirmed by the construction of a trial pad or trial area and the compaction methodology should be checked against either:

- density, as assessed using a nuclear density gauge; or
- settlement, as assessed using a dGPS.

Specific advice should be requested for the development of a method specification, taking into consideration the material being compacted.

Method specification compliance should be maintained for all areas on a minimum 20 m grid, with the compliance to include:

- Roller used (weight, style, vibration);
- Water application rate (per lift);
- Layer thickness placed; and
- Number of passes with roller.

GDR7.5.2 Indicative Method Specification – Sand/Limestone Rubble Mix

Where mixed sand/limestone is used as structural fill, a performance specification is not appropriate due to the inaccuracies of standard test methods (NDG/PSP etc.) in this type of material. A method specification can be used instead. The following indicative method specification is provided for evaluation and trial but must be trialled and ratified by us prior to widespread employment on site. The following would be typically adopted:

- Maximum particle size: 250 mm
- Maximum loose layer thickness: 350 mm
- Minimum watering rate: 10 L/m^2/100 mm thickness of loose material (e.g. 35 L/m^2 for a 350 mm thick layer)
- Minimum 8 passes with a vibrating padfoot roller, minimum static weight 10 tonnes.
- The compacted fill must comprise closely packed particles without any significant voids between the larger particles.

GDR7.6 Testing Frequency

After compaction, verify that the required density has been achieved by testing at the base of excavation and through the full depth of any fill, and to a minimum depth of:

- 900 mm where a PSP is used; or
- 300 mm where a NDG is used.

The frequency of testing (when a method specification is not used) should be as follows:

Table GDR 14: Compaction Testing Frequency Requirements

Area	Minimum Testing Frequency	Minimum Tests Per Lot
Proof Compacted Area	1 test per 1,000 m^2 (30 m grid)	2
Structural Fill Outside of Building and Pavement Footprints	1 test per 500 m^3 2 tests per layer *Whichever is greater*	2
Structural Fill Within Building and Pavement Footprints	1 test per 500 m^3 4 tests per layer *Whichever is greater*	4
Spread/Pad Footings	1 test per 9 m^2 per footing	1
Strip Footings/Retaining Wall Foundations	Minimum 2 tests At 5 m centres *Whichever is greater*	2
On-ground slabs, pavements and rafts	Minimum 2 tests At 10 m centres 1 test per 100 m^2 *Whichever is greater*	2

NOTES: ***1.*** *A 'lot' is defined in the context of this section as a section of earthworks that is undertaken in one operation where the equipment, personnel, materials and methodology are consistent throughout the entire process. This would typically be limited to operations done in one day, but this is not mandatory.*

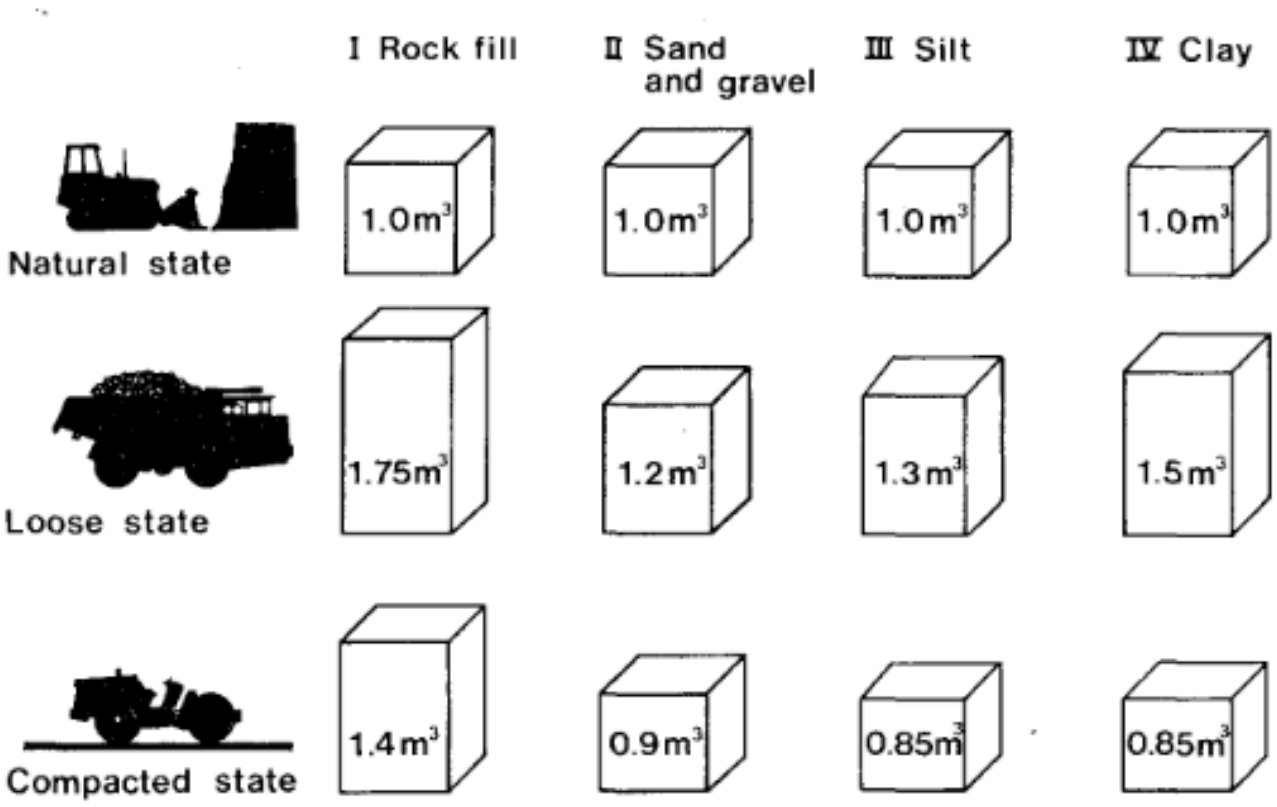
2. *There will frequently be multiple 'lots' in an earthworks process, therefore the number of tests must be adjusted according to the minimum number per lot in this table (where this is more than the frequency specified in 'testing requirements').*

GDR7.7 Bulking and Compaction Factors

All soils will "bulk" when excavated to stockpile, and "compact" when placed from stockpile to earthworks layers. Published bulk and compaction factors are presented below for conventional materials, taken from:

- Forssblad, L (1981), "Vibratory Soil and Rock Fill Compaction", Dynapac Maskin AB

Inline Image GDR 3: Volumes of Different Types of Fill Materials in Natural, Loose and Compacted State



These values are indicative only and will vary according to site specific conditions. The values provided here must not be used for commercial volume estimates or settling disputes regarding volumes.

GDR8 APPROVED FILL AND CONFORMANCE TESTING

Imported fill must comply with the material requirements as stated in AS 3798-2007, “Guidelines on Earthworks for Commercial and Residential Developments”.

Where doubt exists, a geotechnical engineer must be engaged to inspect and approve the use of potential fill materials.

The following table presents recommended material parameters for standard fill types. This does not take account of availability of materials either on site or in the local area. Refer to the report text for specific advice on fill at the subject site.

Table GDR 15: Standard Fill Recommendations

Soil Description	Application	Soil Particle Limits (%)[3]				k_{min}[1] (m/d)	OC[2] (%)	Atterberg Limits		CBR[6] (%)	Test Method[4]
		Fines	Sand	Gravel	Max.			LL (%)	PI (%)		
Permeable Sand	Permeable bulk fill Retaining wall backfill Permeable select fill	≤5	≥90	≤5	9.5	5	≤2	NP	NP	≥12	PSP NDG
General Sand	Bulk fill Select fill (permeability not required)	≤5	≥90	≤5	9.5	N/A	≤2	NP	NP	≥12	PSP NDG
Silty Sand	Bulk fill Select fill	≤35	≥55	≤10	9.5	N/A	≤2	<35	<11	≥12	NDG
Clayey Sand	Bulk fill Select fill	≤35	≥55	≤10	9.5	N/A	≤2	<40	N/A	≥12	NDG
Granular Fill	Bulk Fill	≤30[10]	Varies[10]	Varies[10]	37.5	N/A	≤2	<40	N/A	N/A	NDG
Mixed Sand/Limestone	Bulk fill (permeability not required)	≤5	≥20	≤80	250	N/A	≤2	NP	NP	N/A	NDG Method
Blue Metal Gravel[8]	Retaining wall backfill Drainage trench backfill	≤3	≤5	≥90	37.5	5	≤1	NP	NP	N/A	NDG
Clay[7]	Reinstatement of localised excavations in clay Bulk fill	≥12	Varies	≤30	19	N/A	≤2	Varies			NDG

NOTES:

1. *k_{min} – minimum saturated hydraulic conductivity (AS1289.6.7.1, remoulded to minimum DDR 100% MMDD).*
2. *OC – organic content (Walkley-Black method recommended, AS1289.4.1.1 – not loss on ignition methods)*
3. *% by mass.*
4. *Test method indicates possible compaction control methods for this material.*
   PSP – Perth sand penetrometer (AS1289.6.3.3). Where a PSP is used, a site-specific correlation must be done unless otherwise noted in the report.
   NDG – Nuclear density gauge (AS1289.5.8.1)
   Method – method specification
5. *Atterberg Limits: LL – liquid limit PI – plasticity index NP – non-plastic*
6. *CBR: California bearing ratio (for sand - remoulded to DDR 95% MMDD @ OMC, 4.5 kg surcharge). CBR values may be changed depending on the design pavement requirements.*
7. *"Clay" fill type is included for broad reference only and to illustrate preferred applications, particle size limits and recommended test method. Specific discussion on the use of clayey fills is included in the report text if applicable. Atterberg limit and CBR testing of clayey fills may be required and advice must be sought from us if not stated in the report.*
8. *"Blue metal" gravel refers to single sized, crushed, washed igneous rock gravel used for drainage purposes.*
9. *In the absence of specific test frequencies by the civil designer, the testing shown in Table GDR 16 must be done (highlights in Table GDR 15 show where the test is required).*
10. *Sand and gravel must be reasonably graded to control the risk of soil ingress from surrounding layers. Where the fines content is high (e.g. above ~15%), the gravel content should proportionally increase to meet the requirements for "granular fill". We recommend a minimum gravel content of 30% where the fines content is above 15%.*

Table GDR 16: Conformance Testing Frequency Requirements

Parameter	Frequency (m^3)	Minimum Tests per Source	AS1289 Reference
Particle size distribution	5,000	1	3.6.1
Hydraulic conductivity (permeability)	10,000	2	6.7.1
Organic content	5,000	1	4.1.1
Atterberg limits	5,000	1	3.1.1, 3.2.1, 3.3.1
CBR	10,000	2	6.1.1

NOTES: ***1.*** *Frequency is for the nominal number of cubic metres of compacted fill.*

2. *Unless stated otherwise in the report text, the conformance testing must also be carried out on site-derived materials to confirm suitability.*

GDR9 SHALLOW FOUNDATIONS

GDR9.1 Design

Footings and slabs may be designed in accordance with the assigned site classification in accordance with AS2870-2011. We note that AS2870-2011 is limited to single and double storey residential and commercial developments and may not be strictly applicable.

Where the report provides tables for shallow footing design, custom footings may be designed by the structural engineer using the data provided therein.

GDR9.2 Interpretation of Provided Values

BEARING PRESSURES

All settlement and bearing pressures estimates are provided on the assumption that the site preparation requirements outlined in the report are completed below all structures plus a minimum distance of 1 m beyond the outside edge of any footing or slab. It is essential that the soil below all foundations is appropriately prepared as outlined and meets the relevant compaction requirements.

Allowable bearing pressures for footings of intermediate plan dimensions (to any tabulated) can be interpolated. Footings that have a plan dimension either smaller or larger than those presented in the report will need to be considered individually along with other embedment depths.

Allowable bearing pressures, where provided, are considered to be the upper limit for shallow footings to limit total and differential settlements. Footings carrying eccentric loading, such as below retaining walls, must be assessed separately.

SETTLEMENTS

The reporting of settlements to any precision level is not intended to imply a high accuracy of settlement prediction. Settlements as reported should be considered ‘order of magnitude’.

Estimated settlements represent vertical downwards movement due to loading and do not take into account potential additional movement associated with the characteristic surface movement of the soil (which must be taken in addition to these settlements from loading, refer Section GDR5). The site classification is discussed in the report.

The actual settlement of any proposed structure will depend upon a number of factors including the applied pressures, footing size and base preparation. The estimated settlement(s) provided in this report are for the working bearing pressures as indicated. Differential settlements are likely between footings of similar sizes, loads and elevations (as stated in the report text). A proportion of the settlement is expected to occur during construction (i.e., during initial loading.

The provided settlement estimates (unless otherwise stated) do not include interaction effects from footings founded near other footings (i.e., groups of footings). Interaction effects will need to be considered if the spacing between adjacent footings is smaller than the dimension of the footings (i.e., the centre-to-centre spacing between footings is less than twice the width of the footing). This could act to double provided settlements, dependent on the footing configuration. Where an assessment of footing groups is required, a more detailed numerical or finite-element modelling analysis would need to be undertaken.

CREEP AND CONSOLIDATION

Creep settlement is an irreversible component of long-term soil settlement caused by sustained vertical stress. Consolidation is a time-dependent irreversible compression in a soil layer caused by a reduction in pore pressure between soil particles. Both creep and consolidation can occur in natural materials as a result of earthworks or the placement of loads on to soil layers. The settlements as presented for short-term loading do not include consideration for creep and consolidation settlements unless specifically stated.

GDR9.3 Raft Foundations

Where moduli of subgrade reactions are provided for the design of raft foundations, we highlight that these are an estimate of the elastic reaction of the soil. The values are provided based on an expected load and loaded area size. Soils are typically non-linear in their response and will have different stiffnesses at different levels of strain and load repetitions. This is due to the physical interaction of soil particles under different levels of stress.

The possibility of a non-linear response must be considered by the designer of any raft foundation.

GDR10 PILED FOUNDATIONS

Piles must be designed and tested in accordance with AS2159-2009, “Piling – Design and Installation”. We use the following interpretation/design methods to provide pile design parameters:

- Franki Africa Pty Ltd (2008) “A Guide to Practical Geotechnical Engineering in South Africa”. 4th ed.
- AFNOR (2012) “NF P 94-262 – Justification des ouvrages géo-techniques, Normes d’application nationale de l’Eurocode 7”, Afnor, Paris, July 2012.
- Lehane, B. (2017) “CPT-Based Design of Foundations”. E.H Davis Memorial Lecture, Australian Geomechanics Vol 54. No. 4.
- Lehane, B. et al. (2020) “A New ‘Unified’ CPT-Based Axial Pile Capacity Design for Drivel Piles in Sand”. Proceedings of the Fourth International Symposium on Frontiers of Offshore Geotechnics.
- Doan., Lehane, B. (2021) “CPT-Based Design Method for Axial Capacities of Drilled Shafts and Cast-in-place Piles.” American Society of Civil Engineers (ASCE), Journal of Geotechnical and Geoenvironmental Engineering.

The pile designer must:

- consider the possible variation in subsurface conditions at each pile location;
- consider any pile group effects based on the final piling configuration;
- assume that the unit shaft resistance in tension is less than 80% of the unit shaft resistance in compression to account for Poisson’s effect in sand;
- ignore pile resistance in the surficial 0.5 m or 1 x pile diameter (whichever is greater), if relevant;
- consider the impact of weak layers underlying stiffer layers (or vice versa) on end bearing capacity; and
- reduce the pile capacity in tension to no greater than 0.8 of the pile capacity in compression.

The piling contractor must:

- make their own assessment on the suitability of their equipment to install any piles at the subject site; and
- carry out or appoint a suitably experienced contractor to test the piles in accordance with AS2159.

Where dynamic or static testing of the piles does not occur, we consider that a design geotechnical reduction factor (ϕg) of 0.4 is applicable for the pile design. If testing of the piles is proposed by the piling contractor, a higher ϕg could be adopted.

Unless otherwise stated, providing pile design parameters does not specifically indicate the driveability of any piles into soil units.

A separate driveability study may be required and must be considered by the pile designer and installer. The given pile design parameters must not be used for driveability assessments as these parameters are likely to be un-conservative.

GDR11 EARTH RETAINING STRUCTURES

GDR11.1 General

Retaining structures may be designed in accordance with AS4678 (2002) "Earth Retaining Structures". Unless otherwise specifically stated, we recommend that all retaining walls are backfilled with free-draining soil (Permeable Sand or Blue Metal Gravel as defined in Section GDR8).

Where the cohesive soil is used as retaining wall backfill, a suitable, permanent drainage system must be placed behind the wall such that a build-up of pore pressure is prevented. A separator geotextile (Bidim A24, or similar, or heavier) must be used between the interface of any granular backfill and the cohesive soil.

Where drainage is not provided, the retaining wall must be designed to accommodate water pressure behind the wall (10 kPa per metre height).

GDR11.2 Earth Pressure Coefficients and Strength Parameters

Where earth pressure coefficients are provided for retaining walls, the wall designer must make an independent assessment of the parameters appropriate to the construction method to be used, including alternative values of wall friction. Unless otherwise stated, we have assumed a horizontal ground surface behind and in front of the retaining wall for provided parameters.

GDR11.2.1 Cohesionless Soils

Where cross-referenced for suitability in the report, the following parameters may be adopted for design of earth retaining structures in cohesionless soils (sand and gravel).

Table GDR 17: Retaining Wall Geotechnical Parameters (Cohesionless Soils)

Density	γ (kN/m^3)	ϕ' (^{o})	k_0	Wall Friction=0		Wall Friction=0.5ϕ		Wall Friction=0.67ϕ	
				k_a	k_p	k_a	k_p	k_a	k_p
Very Loose	17	30	0.44	0.33	3.00	0.29	4.81	0.28	5.74
Loose	17	32	0.42	0.31	3.25	0.27	5.55	0.26	6.83
Medium Dense	18	34	0.39	0.28	3.54	0.25	6.47	0.23	8.26
Dense	19	36	0.36	0.26	3.85	0.22	7.63	0.21	10.18
Very Dense (1)	19	38	0.34	0.24	4.20	0.21	9.11	0.20	12.85
Very Dense (2)	19	40	0.31	0.22	4.60	0.19	11.06	0.18	16.73

NOTES:

1. *Earth pressure coefficients are provided in this table for conditions of zero friction between the wall and the soil and with wall friction of 0.5Φ' or 0.67Φ'.*
2. *A horizontal ground surface behind and in front of the wall has been assumed.*
3. *The retaining wall designer should make an independent assessment of the parameters appropriate to the construction method to be used, including alternative values of wall friction.*
4. *γ – bulk unit weight*
   ϕ' – effective friction angle
   k_a – coefficient of active earth pressure (Coulomb – AS4678-2002, Appendix E)
   k_p – coefficient of passive earth pressure (Coulomb – AS4678-2002, Appendix E)
   k_0 – coefficient of at-rest earth pressure (Jaky)
5. *Maximum fines content 12% for applicability of this table for design purposes.*
6. *Unit weights based on Table D1 of AS4678-2002, for moist bulk weight.*
7. *Friction angle based on Equation D1 and Table D2 of AS4678-2002, based on rounded, moderately graded siliceous sand.*

GDR11.2.2 Cohesive Soils

Where cohesive soils (i.e. clayey or silty soils) are proposed for backfill, geotechnical design parameters may be provided in the form of effective strength and undrained strength parameters. We note that:

- Undrained strength parameters should be used for analysis of short-term stability, or stability under sudden loading of cohesive soils.
- The effective strength parameters should be used for analysis of free-draining soils and the long-term stability of cohesive soils.

Table GDR 18: Retaining Wall Geotechnical Design Parameters (Cohesive Soils – Undrained)

Consistency	γ_b (kN/m^3)	c_u (kPa)

Soft	17	12
Firm	18	25
Stiff	19	50
Very Stiff	20	100
Hard	20	200

NOTES:
1. *γ_b – bulk unit weight*
   c_u – undrained cohesion
   $\phi_u = 0^o$ (undrained friction angle)
2. *Unit weights based on Table D1 of AS4678-2002*
3. *Undrained cohesion based on lower end of shear strengths as define in AS1726-2017, Table 11*

Table GDR 19: Retaining Wall Geotechnical Design Parameters (Cohesive Soils – Drained)

Fines Content	PI (%)	γ_b (kN/m^3)	ϕ' (°)	c' (kPa)[5]
12-35%	All	19	32	0
>35%	10	20	30	0 – 5
>35%	20	20	26	0 – 5
>35%	30	20	23	0 – 5
>35%	40	20	21	0 – 5

NOTES:
1. *γ_b – bulk unit weight*
   c' – drained cohesion
   ϕ' – effective friction angle
   PI – plasticity index
2. *Unit weights based on Table D1 of AS4678-2002, assuming generally stiff to hard overconsolidated soils.*
3. *For fines contents <35% (silty sand and clayey sand), strength parameters based on:*
   - *Lehane, B. et al (2007) "A Laboratory Investigation of the Upper Horizons of the Perth/Guildford Formation in Perth CBD", Australian Geomechanics Vol 42. No. 3.*
4. *For fines content >35% (sandy clay), strength parameters based on:*
   - *CIVL5503 course notes (2004), "Underground Construction", University of Western Australia*
5. *c' = 0 recommended for long-term design. Table D4 of AS4678 suggests c' up to 5 kPa for 'poor' fine grained soils and 10 kPa for 'average' fine-grained soils. The use of c' for design is subject to the designer's judgement but recommended by us only for temporary works.*

Per AS4678-2002 Appendix E, horizontal earth pressures for frictional-cohesive soils may be calculated in accordance with the Rankine-Bell design model (illustrated in Figure E2 of AS4678). The earth pressures are as follows (Z = depth, all other terms have the meanings given in the above tables):

- Active: $p_a = \gamma\ Z\ tan^2\left(45 - \frac{\emptyset}{2}\right) - 2\ c\ tan\left(45 - \frac{\emptyset}{2}\right)$
- Passive: $p_p = \gamma\ Z\ tan^2\left(45 + \frac{\emptyset}{2}\right) + 2\ c\ tan\left(45 + \frac{\emptyset}{2}\right)$

GDR11.3 Design and Construction Considerations

Compaction plant can augment the lateral earth pressure acting on retaining walls. Hand operated compaction equipment is recommended within 2 m of any retaining walls to minimise compaction pressures.

Retaining walls can move and rotate under imposed soil loading resulting in settlement behind the wall. This must be considered in the design and during construction of the retaining walls in order that adjacent infrastructure is not adversely affected.

It is important to note that some ground movement will occur behind any soil retaining system, including gravity retaining walls.

GDR12 EXCAVATIONS, BATTERS AND SLOPES

GDR12.1 Excavatability

Our assessment of the excavatability of rock is based on a combination of:

- Our experience on earthworks and construction projects across Australia; and

- Figure 10 of the revised graphical method of assessing excavatability of rock by:
- Pettifer, G.S. & Fookes, P.G., "A revision of the graphical method for assessing the excavatability of rock", Quarterly Journal of Engineering Geology, 27, pp145-164, 1994.

GDR12.2 Safety

All excavations must be carried out in accordance with:

- Commission for Occupational Safety and Health (2022). "Excavation: Code of Practice", Department of Mines, Industry Regulation and Safety, 89pp, Perth.

Excavations in cohesionless soils are particularly prone to instability unless support is provided. Care must be exercised in such excavations and appropriate safety measures adopted where necessary, particularly in the vicinity of existing buildings, structures and infrastructure.

The toe of any batter must be at least 500 mm above groundwater (including perched groundwater).

Unless a specific slope stability assessment or retention design has been done, the toe of any excavation should not encroach within a line of 1V:3H to any nearby footings, pavements or other settlement-sensitive structures.

Surcharges (such as structures, plant and soil stockpiles) must not be placed at or close to the crest of unsupported excavations, without a specific slope stability assessment.

A geotechnical engineer must be consulted where there is any doubt regarding the stability or safety of unsupported excavations.

GDR12.3 Batters

Temporary batter slopes provided in the report are subject to the following conditions, unless otherwise stated:

- The maximum slope height is 2 m without specific advice and slope stability analysis.
- The groundwater level for the duration of the excavation must be at least 500 mm below the toe of the slope.
- No surcharges are present in the vicinity of the slope (i.e. must be outside a line of 1V:3H from the toe of the slope).

Unless noted specifically in the report, the following batters may be adopted (maximum height: 2 m):

Table GDR 20: Default Batter Angles

Situation	Material	Batter
Temporary	Cohesionless Soils (Sand/Gravel)	1V:2H
Temporary	Cohesive Soils – Soft	1V:2H
Temporary	Cohesive Soils – Firm, Stiff, Very Stiff or Hard	1V:1H
Temporary	Limestone – Variably Cemented	1V:1H
Temporary	Limestone – Well Cemented	1V:0.5H
Permanent	All Soils	1V:3H
Permanent	Limestone – Variably Cemented	1V:2H
Permanent	Limestone – Well Cemented	1V:1H

Where specified batters cannot be accommodated in the vicinity of existing footings, roads and services, temporary or permanent lateral support will be required.

Specific advice is required for batters higher than 2 m.

Erosion control must be considered for permanent slopes.

Rock slopes must be inspected, and all loose cobbles / boulders removed. Permanent rock slopes may require dentition works or possibly rock catch drains.

GDR12.4 Grouting

Permeation or jet grouting involves injecting a microfine cement into soil to form a grouted soil block (soilcrete) to support excavation and structures. Grouting is typically only effective where the soil has the capacity to "take" the grout and form a uniformly cemented soil mass. Permeation grouting is generally limited to relatively permeable, coarse-grained cohesionless soils (sands and gravels with <5% fines).

If grouting is proposed, we recommend the following:

- Grouting must be carried out by a suitably experienced contractor.
- Only microfine cement grout should be used (not GP or coarse cement blends) to ensure adequate penetration into the soil matrix.
- Grouting should be done on a grid of not greater than 300 m.
- Application rates must be discussed with the contractor.
- The grouted soil mass must have intimate contact with any structures it is intended to support.
- The contractor must satisfy themselves that the proposed grouting can be installed with their equipment and into the subsurface conditions encountered at the site, considering possible obstructions, groundwater, cemented layers, loose sands etc.
- Testing of the grouted soil mass must be done to ensure that the grout has adequately permeated through the soil matrix. This can be done by drilling into the soil mass to ensure the cementation is continuous.

Grouting is most effective on permeable, relatively loose natural sand. Where historical filling or other ground disturbances have occurred, the grouting process can be less effective due to the tendency of grout (or other liquids) to follow more permeable paths / zones through the disturbed soil.

GDR13 STORMWATER DISPOSAL AND DRAINAGE DESIGN

GDR13.1 Groundwater Separation – Controlled Groundwater

These recommendations ONLY apply to where regional controls on groundwater (primarily: subsoil drainage, but also surficial 'main drains') exist, i.e. only to areas where groundwater is actively controlled.

The following reference:

- IPWEA (2016), "Specification: Separation Distances for Groundwater Controlled Urban Development", Institute of Public Works Engineering Australasia

recommends the following separation distances from drainage infrastructure to groundwater:

- Underground infiltration systems: 0 mm from the 50% AEP (annual exceedance probability) phreatic surface.
- Surface infiltration systems (vegetated): 300 mm from the 50% AEP phreatic surface.

The above IPWEA reference also states that performance measures for underground infiltration systems are to have a: demonstration of acceptable volumetric capacity when groundwater is elevated above base of system and that the groundwater recedes below the invert of the system during mosquito breeding seasons (grated or partially open systems).

GDR13.2 Groundwater Separation – Uncontrolled Groundwater

These recommendations apply where regional controls on groundwater levels are not present. For infiltration into soakwells and soakage basins to be the full theoretical value, an adequate separation to groundwater must be achieved, because otherwise performance is hindered by inadequate separation to groundwater or partial submergence of the infiltrative element.

We recommend a minimum separation of 500 mm from the underside of infiltrative elements to maximum groundwater level.

- To average annual maximum groundwater level (AAMGL), where this has been defined for the site; or
- To historical maximum groundwater level, where this has been defined to the site.

GDR13.3 Design Hydraulic Conductivity Values

Where provided, the values of hydraulic conductivity (k) should be considered the maximum/upper limit design values. As discussed in Section GDR3.7, the inverse auger hole test is an unsaturated field test carried out above the groundwater table and, as such, presents the best-case conditions for drainage.

For soak wells in sand, we provide the design value taking into consideration the variability in materials and reduced permeability as a result of:

- Densification of sand during site preparation works; and
- Natural variation in sands.

Design k_{unsat} values provided for soak wells are only appropriate for the design of unsaturated soils where the base of disposal area is at least 500 mm above groundwater and 500 mm above any impermeable layer.

Where design values of k_{unsat} have been provided, clogging of the base of the soakwell / drainage basin has not been considered. Clogging will need to be controlled with maintenance over the life of the soakwell / drainage basin.

For the design of subsoil drains or modelling of saturated soil performance, a k_{sat} value must be given (in the report text) or assessed by laboratory testing (or a combination of field and laboratory testing). Unless specifically stated, k_{unsat} values presented in our report are for unsaturated conditions and intended for design of stormwater disposal elements above groundwater. If no k_{sat} value has been provided, do not use the provided k_{unsat} value for saturated drainage design. Please contact us for further advice.

For saturated or semi-saturated sands, the hydraulic conductivity must be assessed by testing of representative soil samples at a NATA accredited laboratory to determine:

- The modified maximum dry density (MMDD); and
- The constant-head permeability (AS1289.6.7.1) on a sample remoulded to at least 5% greater than the proposed specification density (i.e., sample should be remoulded to 100% MMDD if the earthworks specification requires a density ratio of 95% MMDD).

For saturated or semi-saturated clayey or silty soils, the hydraulic conductivity must be assessed by testing of representative soil samples at a NATA accredited laboratory to determine:

- The standard maximum dry density (SMDD); and
- The falling-head permeability (AS1289.6.7.2) on a sample remoulded to at least 3% greater than the proposed specification density (i.e., sample should be remoulded to 101% SMDD if the earthworks specification requires a density ratio of 98% SMDD).

GDR13.4 Soakwells

In uncontrolled groundwater environments, the base of any soakwell must be the higher of:

- At least 500 mm above the average annual maximum groundwater level (AAMGL).
- At least 500 mm above any low permeability/impermeable layers (clay, rock or otherwise).

In controlled groundwater environments (refer to Section GDR13.1), the base of any soakwell may be 0 mm above the controlled groundwater level at the location of the soakwell (as determined by the civil engineer).

Soak wells must be placed outside a line of 1V:2H extending below the edge of the nearest footing, subject to local council regulations. Discharge from soak wells has been known to promote densification of loose sandy soils, leading to settlements of footings and slabs. Soak wells should be carefully wrapped with geotextile to prevent migration of sand and fines into the soak well.

Where soak wells are proposed to dispose of water within a line of 1V:2H from any basement walls or similar, the walls must be waterproofed to prevent seepage or damp within the basement wall.

In potentially karstic terrain or areas of potentially collapsible soils, soakwells should typically be located 10 m from the nearest footing, slab or pavement.

GDR13.5 Design Groundwater Elevation

Where applicable, a recommended design groundwater elevation will be provided in the report and will be identified as such.

In the absence of a specific statement on design groundwater elevation, do not assume that:

- Absence of comments about groundwater indicates an absence of groundwater (in particular, sites that are dry in the dry season to the investigated depth may well become waterlogged in the rainy season).
- Where groundwater depths/levels are noted, that these are fixed (groundwater fluctuations occur over the course of the year and between wetter and drier years).

Where groundwater elevations are likely to be critical for a development (particularly where large-scale subdivision or large developments are proposed with substantial channelling of stormwater into on-site disposal by infiltration), a site-specific hydrology study is likely to be required to confirm design groundwater elevations.

GDR14 DRAINAGE CONTROL

In addition to the site preparation measures outlined for cohesive soils (refer Section GDR6.2.4), careful control of surface water and stormwater is essential to minimise the likelihood of cohesive soils decreasing in strength and affecting the installed infrastructure. These measures include:

- The ground surface of clayey soils should be graded to drain any seepage away from structures and prevent standing water over the cohesive soils. A grade of at least 1% is recommended.
- Pavements should be sealed to minimise water ingress.
- Stormwater disposal swales should be located at least 10 m away from buildings, retaining walls and pavements.
- Runoff from hardstandings and pavements must either be collected and discharged via pipes into discrete locations (via swales or soakage basins) at least 10 m away from structures and pavements or, alternatively, discharged over a wide area, but not allowed to collect and discharge into concentrated areas, particularly near structures and pavements.
- Spoon drains should be used to collect water at the crest of slopes to capture surface runoff and direct it away from running directly down slopes or seeping into the ground behind slopes.

These measures are general in nature only and do not take into account the civil design objectives, which must be addressed separately by the civil designer.

GDR15 DEWATERING

Dewatering may be required for excavations and construction below groundwater or perched groundwater tables. Common dewatering methods are summarised below:

Table GDR 21: Dewatering Recommendations

Material	Recommended Methods
Sandy Soils	Spears Deep Well Point
Impermeable Clay	Sump Pumping

Dewatering spears are typically suitable for small scale excavations below groundwater, with a typical recommendation for spears to be installed at 1 m below the base of any excavation. Dewatering spears may not be suitable where there are impermeable/cemented/strong transition layers, i.e., it may not be possible to extract water near an impermeable layer (rock/clay), or the spear may not be readily driven through a hard clay/cemented layer (i.e., coffee rock).

Sump pumping can be done by grading a clayey excavation to drain (i.e., by using spoon drains), and excavating a sump in the excavation. A sump can typically be backfilled with a blue metal gravel, with a pump wrapped in a geofabric (i.e., Bidim A14 or similar), with disposal of water away from the excavation.

Deep well point dewatering is typically suitable for larger excavations, where there are transitional layers or where the aquifer is confined. It may not be suitable where there are impermeable layers within the profile. It involves the installation of a deep filtered well to a depth required to draw down the groundwater level at the entire site. A deep well dewatering system must be designed by a suitable designer to provide design flow rates, draw down depths etc.

GDR16 PAVEMENT SUBGRADES

Unless otherwise specified, the provided subgrade California bearing ratio (CBR) is not a pavement design, but an assessment of the subgrade as an input into any required pavement designs.

Provided design values are based on the assumption that the relevant site preparation measures are completed for all pavement subgrades, including the use of appropriate approved fill and adequate compaction. We highlight that specific requirements such as those outlined by Main Roads WA (MRWA) or the local council in their construction specifications may have different requirements.

The provided design value is based on laboratory testing (where done), local experience, and the advice as outlined in:

- Main Roads Western Australia (2013). “Engineering Road Note 9 – Procedure for the Design of Road Pavements”. Western Australia Supplement to the Austroads Guide to Pavement Technology Part 2: Pavement Structural Design, East Perth.

Where the subgrade differs from that described in the text, the subgrade CBR must be confirmed.

The performance of any pavement is highly dependent on the surface and subsurface drainage provided (also considering factors like capillary rise from seasonally high groundwater tables). Adequate drainage must be provided to any pavements, and capillary rise must be considered by the designer.

GDR17 SOIL CORROSIVITY AND AGGRESSIVITY

The relevant exposure classifications for concrete and steel piles in soils based on the exposure conditions are presented in Table GDR 22 and Table GDR 23 respectively.

The relevant exposure classifications for concrete in sulfate soils based on the exposure conditions are presented in Table GDR 24.

Table GDR 22: Exposure Classification for Concrete Piles in Soil

Exposure Conditions				Exposure Classification	
Sulfates (expressed as SO_4)[1]					
In Soil (ppm)	In Groundwater (ppm)	pH	Chlorides in Groundwater (ppm)	Soil Conditions A[2]	Soil Conditions B[3]
< 5,000	< 1,000	> 5.5	<6000	Mild	Non-aggressive
5,000 – 10,000	1,000 – 3,000	4.5 – 5.5	6,000-12,000	Moderate	Mild
10, 000 – 20,000	3,000 – 10,000	4 – 4.5	12,000-30,000	Severe	Moderate
> 20,000	> 10,000	< 4	>30,000	Very Severe	Severe

NOTES:
1. *Approximately 100 ppm SO_4 = 80 ppm SO_3*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *Table reproduced from Table 6.4.2(C) of AS2159-2009*

Table GDR 23: Exposure Classification for Steel Piles in Soil

pH	Chlorides		Resistivity (ohm.cm)	Exposure Classification	
	In Soil (ppm)	In Water (ppm)		Soil Conditions A[2]	Soil Conditions B[3]
> 5	< 5,000	< 1,000	> 5,000	Non-aggressive	Non-aggressive
4–5	5,000-20,000	1,000–10,000	2,000 – 5,000	Mildly aggressive	Non-aggressive
3–4	20,000-50,000	10,000–20,000	1,000 – 2,000	Moderately aggressive	Mildly aggressive
< 3	> 50,000	> 20,000	< 1,000	Severely aggressive	Moderately aggressive

NOTES:
1. *1 ppm (parts per million) is equivalent to 1 mg/kg*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *Table reproduced from Table 6.5.2(C) of AS2159-2009*

Table GDR 24: Exposure Classification for Concrete in Sulfate Soils

Exposure Conditions			Exposure Classification	
Sulfates (expressed as SO_4)[1]				
In Soil (ppm)	In Groundwater (ppm)	pH	Soil Conditions A[2]	Soil Conditions B[3]
< 5,000	< 1,000	> 5.5	Mild	Non-aggressive
5,000 – 10,000	1,000 – 3,000	4.5 – 5.5	Moderate	Mild
10, 000 – 20,000	3,000 – 10,000	4 – 4.5	Severe	Moderate
> 20,000	> 10,000	< 4	Very Severe	Severe

NOTES:
1. *Approximately 100 ppm SO_4 = 80 ppm SO_3*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *For disturbed soils, the assumption of soil A conditions where accelerated corrosion is possible should be considered.*
5. *Table reproduced from Table 4.8.1 of AS3600-2018*

GDR18 LIQUEFACTION

Soil liquefaction can occur when loose, granular, Holocene age material below the groundwater table is subjected to a seismic event (typically within 15 m of the ground surface). This can cause a loss of strength and result in vertical and lateral movements of the site surface.

Where a liquefaction analysis is carried out and outlined in the report, this has been done in accordance with consideration to the design earthquake details as presented in AS1170.4-2007:

- The hazard factor is taken from Figure 3.2 (C) and Table 3.2. The Hazard Factor (Z) for Western Australia represents the 1 in 500-year annual probability of exceedance of ground motions measured in gravity (g).
- The probability factor (k_p) is taken from Table 3.1.

Unless otherwise stated, an earthquake magnitude of 7.5 for the south-west of WA is based on research by:

- Dhu T., Sinadinovski C., Edwards M., Robinson D., Jones T., Jones A. (2004) “Earthquake Risk Assessment for Perth, Western Australia”. 13th World Conference on Earthquake Engineering, Vancouver, B.C., Canada. Paper No. 2748.

GDR19 EXPECTATIONS OF THE REPORT

The following sections have been prepared to clarify what is and is not provided in your report. It is intended to inform you of what your realistic expectations of this report should be and how to manage your risks associated with the conditions on site.

Geotechnical engineering and environmental science are less exact than other engineering and scientific disciplines. We include this information to help you understand where our responsibilities begin and end. You should read and understand this information. Please contact us if you do not understand the report or this explanation. We have extensive experience in a wide variety of projects and we can help you to manage your risk.

GDR20 THIS REPORT RELATES TO PROJECT-SPECIFIC CONDITIONS

This report was developed for a unique set of project-specific conditions to meet the needs of the nominated client. It took into account the following:

- the project objectives as we understood them and as described in this report;
- the specific site mentioned in this report; and
- the current and proposed development at the site.

It should not be used for any purpose other than that indicated in the report. You should not rely on this report if any of the following conditions apply:

- the report was not written for you;
- the report was not written for the site specific to your development;
- the report was not written for your project (including a development at the correct site but other than that listed in the report); or
- the report was written before significant changes occurred at the site (such as a development or a change in ground conditions).

You should always inform us of changes in the proposed project (including minor changes) and request an assessment of their impact.

Where we are not informed of developments relevant to your report, we cannot be held responsible or liable for problems that may arise as a consequence.

Where design is to be carried out by others using information provided by us, we recommend that we be involved in the design process by being engaged for consultation with other members of the project team. Furthermore, we recommend that we be able to review work produced by other members of the project team that relies on information provided in our report.

GDR21 DATA PROVIDED BY THIRD PARTIES

Where data is provided by third parties, it will be identified as such in our reports. We necessarily rely on the completeness and accuracy of data provided by third parties in order to draw conclusions presented in our reports. We are not responsible for omissions, incomplete or inaccurate data associated with third party data, including where we have been requested to provide advice in relation to field investigation data provided by third parties.

GDR22 SOIL LOGS

Our reports often include logs of intrusive and non-intrusive investigation techniques prepared by Galt. These logs are based on our interpretation of field data and laboratory results. The logs should only be read in conjunction with the report they were issued with and should not be re-drawn for inclusion in other documents not prepared by us.

GDR23 THIRD PARTY RELIANCE

We have prepared this report for use by the client. This report must be regarded as confidential to the client and the client's professional advisors. We do not accept any responsibility for contents of this document from any party other than the nominated client. We take no responsibility for any damages suffered by a third party because of any decisions or actions they may make based on this report. Any reliance or decisions made by a third party based on this report are the responsibility of the third party and not of us.

GDR24 CHANGE IN SUBSURFACE CONDITIONS

The recommendations in this report are based on the ground conditions that existed at the time when the study was undertaken. Changes in ground conditions can occur in numerous ways including anthropogenic events (such as construction or contaminating activities on or adjacent to the site) or natural events (such as floods, groundwater fluctuations or earthquakes). We should be consulted prior to use of this report so that we can comment on its reliability. It is important to note that where ground conditions have changed, additional sampling, testing or analysis may be required to fully assess the changed conditions.

GDR25 SUBSURFACE CONDITIONS DURING CONSTRUCTION

Practical constraints mean that we cannot know every minute detail about the subsurface conditions at a particular site. We use professional judgement to form an opinion about the subsurface conditions at the site. Some variation to our evaluated conditions is likely and significant variation is possible. Accordingly, our report should not be considered as final as it is developed from professional judgement and opinion.

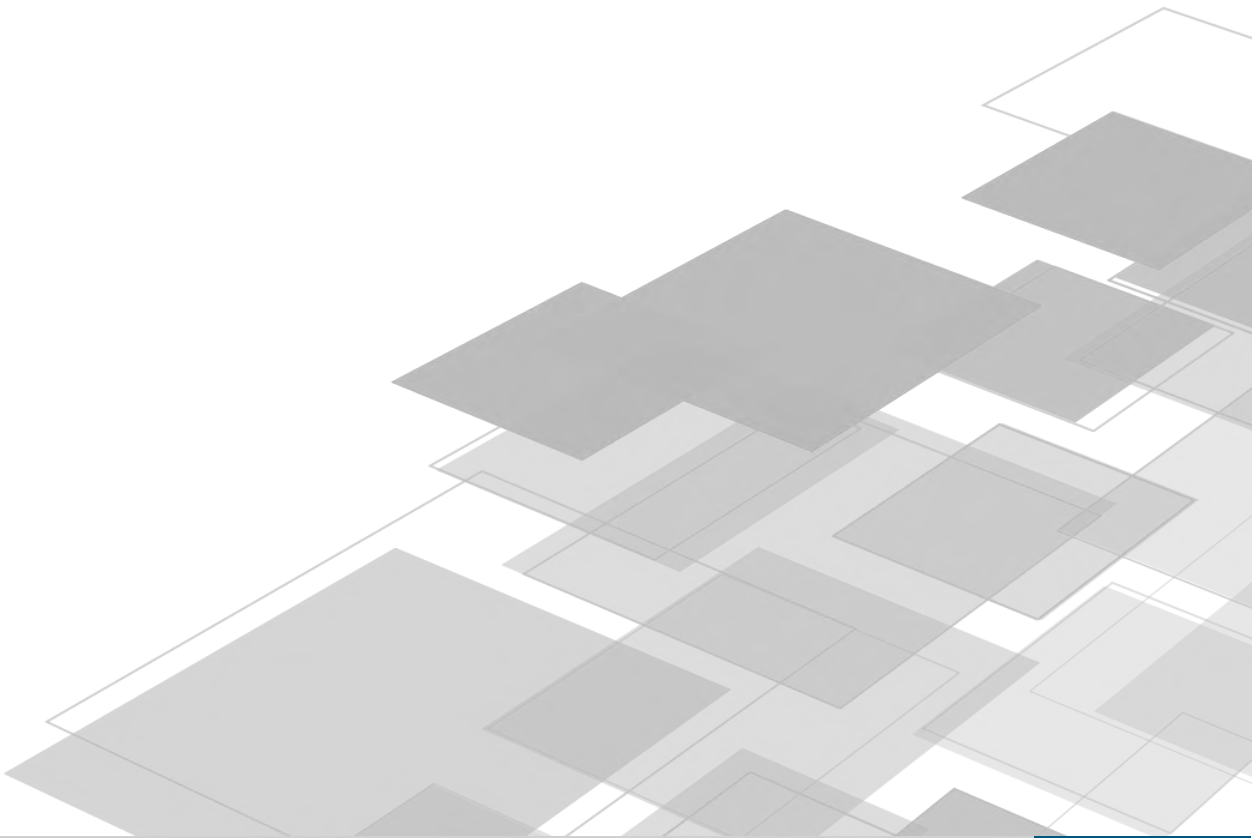
The most effective means of dealing with unanticipated ground conditions is to engage us for construction support. We can only finalise our recommendations by observing actual subsurface conditions encountered during construction. We cannot accept liability for a report's recommendations if we cannot observe construction.

GDR26 ENVIRONMENTAL AND GEOTECHNICAL ISSUES

Unless specifically mentioned otherwise in our report, environmental considerations are not addressed in geotechnical reports. Similarly, geotechnical issues are not addressed in environmental reports. The investigation techniques used for geotechnical investigations can differ from those used for environmental investigations. It is the client's responsibility to satisfy themselves that geotechnical and environmental considerations have been taken into account for the site.

Geotechnical advice presented in a Galt Environmental report has been provided by Galt Geotechnics under a sub-contract agreement. Similarly, environmental advice presented in a Galt Geotechnics report has been provided by Galt Environmental under a sub-contract agreement.

Unless specifically noted otherwise, no parties shall draw any inferences about the applicability of the Western Australian state government landfill levy from the contents of this document.





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Report on:

GENERAL SITE AND SOIL EVALUATION HATCH COURT LIGHT INDUSTRIAL AREA AND STIRLING CRESCENT PRECINCT HATCH COURT AND STIRLING CRESCENT, HIGH WYCOMBE, WA

WAG250138-01 001 R Rev0

Submitted to:

Dynamic Planning Developments
PO Box 688
INGLEWOOD WA 6932

26 September 2025

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Understanding your Report

1. INTRODUCTION

This report presents the outcomes of Galt Geotechnics' (Galt's) general site and soil evaluation (SSE) for the proposed Hatch Court Light Industrial Area (HCLIA) and Stirling Crescent Precinct (SCP), at Hatch Court and Stirling Crescent, High Wycombe ("the site").

This report is to be read in conjunction with the appended "Requirements and Limitations" found at the back of this report.

2. DEFINITIONS

Site and Soil Evaluation (SSE): an assessment of all relevant constraints and the risks to public health and the environment in accordance with AS1547-2012 "On-site domestic wastewater management". This SSE is a general assessment SSE, with the purpose being to undertake a site suitability assessment for onsite wastewater management and to recommend the type of onsite wastewater system for the proposed development.

A specific assessment is required to support an "application to install" an onsite wastewater system. This is for when a particular type of system/model is proposed, and a detailed design, including management recommendations and operation requirements. This document is not a specific assessment.

Land Application Area (LAA): The unencumbered plan area to which treated sewage from an on-site sewage system is distributed for further in-soil treatment and absorption or evaporation. This area is restricted to the distribution of treated sewage and may not be developed for other purposes.

Land Application System (LAS): The system used to apply effluent from a wastewater treatment unit into or onto the soil for further in-soil treatment and absorption or evaporation.

Effluent: The liquid discharged from a wastewater treatment unit.

Primary Treatment: The separation of suspended material from sewage in septic tanks, primary settling chambers or other structures before discharge to either a LAS or secondary treatment process.

Secondary Treatment: Microbiological digestions and physical settling and filtering processes and decomposition of sewage constituents following primary treatment.

Sewage: Any kind of sewage, faecal matter or urine, and any waste composed wholly or in part of liquid.

Infiltrative Area: Is the area within an LAA that has treated effluent directly discharged onto, and does not include setback areas. I.e., the base of leach drains, evapotranspiration beds etc.

3. GOVERNING STANDARDS, REGULATIONS AND POLICIES

SSEs are governed by various National and State Standards, Regulations and Policies, including:

- AS/NZS 1547:2012, On-site domestic wastewater management.
- Western Australia Government Sewerage Policy (2019)
- Western Australia Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations (1974)
- Western Australia State Planning Policy 2.9, Water Resources (2005)

Other regulatory requirements may become relevant depending on the outcomes of any SSE.

SSEs can be rejected on the basis of not meeting the regulatory requirements of the above. This report is intended to address all these various requirements.

4. SITE DESCRIPTION

Table 1: Summary of Site

Item	Comment
Site Extent	Refer to In-line Image 1.
Site Area	Hatch Court Light Industrial Area (HCLIA): ~30 ha (16 lots). Stirling Crescent Precinct (SCP): ~6 ha (11 lots).
Current Site Surface Elevation[1]	Around RL 20 m AHD at the north to RL 24 m AHD at the south.
Vegetation	Vegetation present in landscaped areas surrounding houses and associated infrastructure. Vegetation includes grassed areas, some mature trees and some bushes (refer Figure 1). Dense vegetation along drainage line in northern part of site.
Current Land Use	Mostly Residential developments and associated infrastructure. South west part of site (Lots 614 and 584) is a hardstand area (refer Figure 1).
Site drainage	Drainage line traverses from west to east in northern part of site. Wetland area present in western corner of site near Lewis Road. Several damp lands are apparent from historical aerial photos (refer In-line Image 2). Localised lakes are present in southern part of site, which are judged to be expressions of groundwater.
Site History[2]	**Prior to 1979**: Site mostly pastoral / agricultural land. Three residences developed on site. **1979 to 1983**: Development of residential buildings in SCP. **1983 to 1995**: Development of Hatch Court. And associated residential lots / developments. **1995 to 2018**: Site relatively unchanged. Some additional residential buildings and associated infrastructure constructed progressively during this time. **2018**: to Construction of hardstand in western corner of site. **2018 to 2024**: progressive construction of hardstand in western part of site (Lots 614 and 584).

NOTES: ***1.*** *Site levels based on survey information provided.*

2. *Site history based on aerial imagery (Landgate).*



In-line Image 1: Approximate extent of subject area



In-line Image 2: Aerial photo of site in 1961. HCLA marked in red/yellow.

5. PROPOSED DEVELOPMENT

Table 2: Summary of Proposed Development

Item	Comment
Proposed Development	Subdivision of industrial lots with associated infrastructure
Cut/Fill	Assumed typically up to about ± 1 m. Fill is generally anticipated to be required in low lying areas to achieve adequate clearance to groundwater.
Assumed Retaining Walls	Gravity walls up to about 2 m high
Assumed Stormwater Disposal	Possibly On site via soakwells.
Assumed Sewage Disposal	On site via leach drains within individual lots of proposed subdivision.

6. PRELIMINARY HYDRAULIC LOADING

No preliminary hydraulic loading is available at this stage. We have assumed a preliminary hydraulic loading of 5,000 L/day per lot. The LAA within each lot will need to be resized based on the actual hydraulic loading.

Hydraulic loading must be calculated in accordance with “Supplement to Regulation 29 – Wastewater system loading rates”. The proposed LAA must also be adequately sized to meet the zero effluent storage and Government Sewerage Policy (2019) design requirements. We have assumed that any industrial liquid waste is to be disposed off site (and not into the LAA).

7. PREVIOUS STUDIES

Galt has previously undertaken a number of geotechnical studies for individual lots within and adjacent the sites as summarised below:

- **Located within site:**
  - 27 Hatch Court in May 2025 (report reference: WAG250256-01 001 R Rev1);
  - Lots 8 and 16 Stirling Crescent in November 2024 (report reference: WAG240438-01 001 R Rev2);
- ***located north of site / not within site:***
  - 71 Stirling Crescent in March 2023 (report reference: WAG230133-01 001 R Rev1); and
  - Part of Lot 1499 Stirling Crescent in September 2023 (report reference: WAG230463-01 002 R Rev1).

Test locations from the above reports are shown on Figure 1. Relevant information from the above studies are incorporated into this report.

8. FIELDWORK

8.1. Summary

Fieldwork was carried out in the presence of a representative from Galt on 25 August and 5 September 2025 as summarised below.

Table 3: Summary of Field Data

Type	Results Appendix	Summary	Equipment Used	No. Tests	Depth Range (m)
Site Plan	Figure 1	-	Hand held GPS[1]	-	-
Photographs	A	-	-	-	-
Cone Penetration Tests (CPTs)	B	Section 11	Pagani TG 73-200	16	2.34 to 5.20
Boreholes (BH)	C	Section 11	EVH Scout on utility / 7822DT / Hand Auger	14	1.30 to 3.00
Monitoring Wells (MW)	C	Section 8.3	7822DT	3[2]	3.00
Constant Head Permeameter Tests (G)	D	Section 8.2	Guelph Permeameter	7	0.38 to 0.57

NOTES:

1. *Hand held GPS is accurate to ±5 m.*
2. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS 1547 (2012) "On-site domestic wastewater management".*
3. *One groundwater monitoring well location was unavailable for sampling after installation.*

8.2. Permeability Test Results

Table 4: Guelph Permeameter Test Results

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
G01/BH01	SAND (SP)	0.38	25.01	1
G02/BH02	SAND (SP-SM)	0.42	*0.94*[3]	*3*[3]
G03/BH03	SAND (SP)	0.57	9.05	1
G05/BH05	SAND (SP)	0.44	*0.44*[3]	*4*[3]
G07/BH15	SAND (SP)	0.53	9.82	1
G09/BH09	SAND (SP)	0.52	3.94	1
G10/BH10	SAND (SP)	0.47	3.53	1
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
G01	SAND (SP)	0.33	3.56	1
G02	SAND (SP)	0.41	2.82	2
G03	SAND (SP)	0.40	3.31	1
71 Stirling Crescent in March 2023 (WAG230133-01 001 R Rev1, l*ocated north of site / not within site)*				
IT01	*SAND (SP)*	*0.50*	*1.6*	*2*
IT02	*SAND (SP)*	*0.50*	*2.1*	*2*
IT03	*SAND (SP)*	*0.55*	*3.3*	*1*
IT04	*SAND (SP)*	*0.60*	*2.8*	*2*
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
G01	SAND (SP)	0.44	5.11	1
G02	SAND (SP)	0.50	3.17	1
G03	SAND (SP)	0.39	3.26	1
G04	SAND (SP)	0.40	10.95	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, l*ocated north of site / not within site)*				
G01	*SAND (SP)*	*1.00*	*3.9*	*1*
G01A	*SAND (SP)*	*0.80*	*2.3*	*2*
G01B	*SAND (SP)*	*0.53*	*> 15*	*1*
G02	*SAND (SP-SM)*	*0.90*	*0.07*[4]	*-*[4]
G02A	*SAND (SP)*	*0.70*	*1.74*	*2*
G02B	*SAND (SP)*	*0.70*	*1.67*	*2*
G02C	*SAND (SP)*	*0.50*	*>15*	*1*

NOTES:

1. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS1547 (2012) "On-site domestic wastewater management".*
2. *Soil type is as per Table 5.2 of AS1547-2012.*
3. *Test results likely to have been influenced by shallow groundwater*
4. *Result considered spurious, and also not from within the site.*
5. *Results in italics not from within the site.*

Table 5: Permeability Test Results (Falling Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
BH02 / IT01	SAND (SP)	0.84	3.9	1
BH07 / IT02	SAND (SP)	0.90	3.8	1
BH08 / IT03	SAND (SP)	0.84	31.3	1
BH05 / IT04	SAND (SP)	0.84	4.7	1
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
BH07 / IT01	SAND (SP)	0.88	> 15	1
BH08 / IT02	SAND (SP)	0.86	6.3	1
BH10 / IT03	SAND (SP)	0.82	3.9	1
BH16 / IT04	SAND (SP)	0.77	7.1	1
BH06 / IT06	SAND (SP)	0.77	> 15	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, *located north of site / not within site)*				
IT01	*SAND (SP)*	*0.95*	*10.6*	*1*
IT02	*SAND (SP)*	*1.00*	*9.4*	*1*

8.3. Groundwater Monitoring Wells

Groundwater monitoring wells were installed in boreholes drilled Geoprobe 6620 DT drill rig supplied and operated by Direct Push Probing.

Wells were constructed using 50 mm, class 18 flush-threaded PVC with a 2.5 m screened interval was installed at the base of each well and finished with approximate 0.6 to 0.7 m solid section extending to the surface. Refer to Appendix C for more information on construction details for each well.

A submersible pump was used to remove fine sediments and filter sand from the well. Groundwater levels were measured more than 7 days after installation and development to allow the water in the well to reach hydrostatic levels.

9. LABORATORY TESTING

Geotechnical and chemical laboratory testing of soil samples was undertaken by Western Geotechnical and Laboratory Services (WGLS) and Envirolab Services (WA) at their NATA accredited laboratories. Laboratory test results along with the test methods followed are presented in Appendix F and summarised in Attached Tables 1 and 2.

Chemical test results from previous studies are also included in Attached Table 2.

10. SITE CONDITIONS

10.1. Geology

Table 6: Summary of Geology Mapping

Map Sheet	Map Scale	Mapped Soils
Perth	1:50,000	Refer In-Line Image 3 for distribution of following units: **- Cps**: Peaty CLAY: "*dark grey and black with variable sand content of lacustrine origin [Swamp Deposits (Qhw)]*" **- S8**: Bassendean SAND: "*very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin*" **- S10**: "*Thin Bassendean Sand over Guildford formation*"

***NOTE**: Encountered subsurface profile discussed in Section 11.*



Inline Image 1: Excerpt from Perth 1:50,000 scale environmental geology map. HCLA marked in red/yellow

10.2. Groundwater and Surface Water

Table 7: Summary of Groundwater and Surface Water Levels

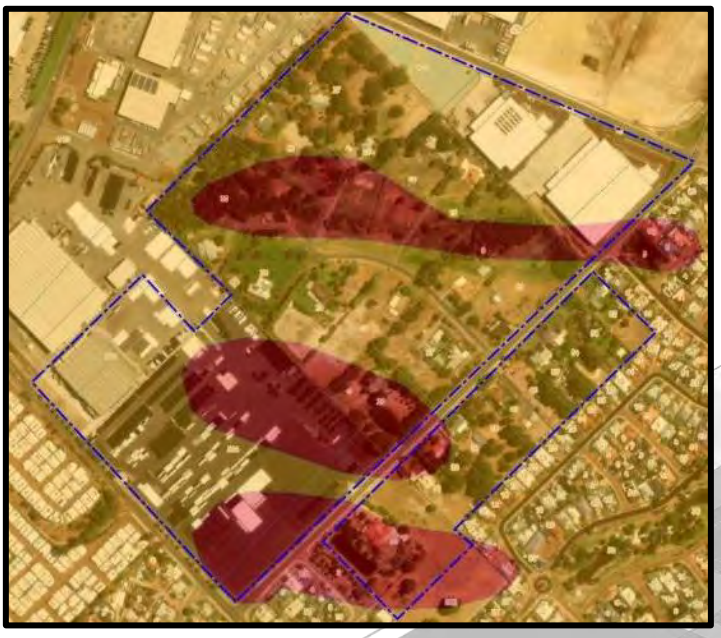
Item	Date	Depth Range (m)	Elevation Range (m AHD)	Comment
Perth Groundwater Atlas	2004	-	North: 13 South: 15	Inferred from levels measured in monitoring wells near the end of summer in 2004 only.
	2019		North west: 15.0 to 17.0 South east: 18.5 to 19.5	Inferred from maximum and minimum levels measured in monitoring wells in 2019 only.
DBCA Mapping	-	-	-	Most of the site are mapped as "Sumpland/Dampland", defined as a seasonally inundated/waterlogged area.
Site observations	Aug/Sept 2025	-	Surface to > 3 (Refer Attached Tables 3 to 7)	Groundwater also observed in lakes in southern part of site, and along drainage line in northern part of site. Groundwater could perch on underlying clay / clayey soils at the site.
Recommended Design	-	-	-	Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Filling of the site to gain separation to groundwater levels will be needed. Possibly, subsoil drains drains may be required.

NOTES: ***1.*** *Perth Groundwater Atlas observations based on monitoring wells which are not located at the site.*

2. *Elevation range for site observations is based on depth and site levels during fieldwork*

10.3. Acid Sulfate Soils

According to the DWER online ASS risk database, the proposed site is generally mapped as being within an area of 'moderate to low' ASS risk (highlighted in yellow in In-line Image 3 below) , with part of the site identified as having 'high to moderate' risk (highlighted in red in In-line Image 3 below) within the upper 3 m of the soil profile. High risk areas are judged to be associated with potential organic soils mapped in these areas (refer Section 10.1).



In-line Image 3: ASS Risk Mapping (DWER Database)

11. GROUND MODEL

The encountered subsurface conditions are summarised in Attached Tables 3 to 7, ad can be generalised as follows:

Most of Site (HCLIA and SCP):

- Surficial Topsoil / Hardstand / Sand Fill Layers; over
- **SAND (SP / SP-SM)**: fine to medium grained, sub angular to sub rounded, typically grey, typically trace fines, typically loose to depths of about 0.5 m to 2.5 m and then becomes typically medium dense, extending to depths of 2.0m to over 6.2 m; with
  - **Interbedded layers of cemented sand / 'Coffee Rock'**: encountered at some locations as cemented layer of sand typically with a higher fines content (i.e. Silty SAND in some zones) about 0.3 m to 1.0 m thick (where penetrated) and below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7 for locations encountered). Coffee rock inferred from CPT refusal at some locations. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. Layer underlain by sand; over
- **Guildford Formation interbedded CLAY / Clayey SAND / Sandy CLAY / SAND Layers (SP/SC/CL-CH)**: typically stiff to hard cohesive layers and medium dense sand layers, locations of encountered Guildford Formation summarised in Attached Tables 3 to 7.

HCLIA only: within / adjacent drainage line and wetland area[1]:

Variable organic soils were encountered as follows:

- **CPT01**: Possible inferred organic soil layer from 0.9 m to 1.2 m depth;
- **BH02**: Trace organics in Clayey SAND from 0.9 m to 2.0 m depth;
- **BH04**: Organic Clayey SAND from 0.7 m to 1.4 m depth
- **BH13/MW01**: PEAT from 0.0 m to 0.6 m depth, and then Organic SAND from 0.6 m to 1.4 m depth.

Notes:

- [1] Drainage line traverses from west to east in northern part of HCLIA site (refer Figure 1). Wetland area present in western corner of site near Lewis Road. Similar zones of organic soils could be present in lakes at the site (Refer Table 1).
- [2] An area of surficial uncontrolled fill about 1.1 m thick was encountered in the northern corner of the HCLIA site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1);

12. SITE ASSESSMENT

12.1. General

The results of our site assessment are presented in Attached Table 3.

12.2. Horizontal Setbacks

Table 8: Required Horizontal Setback Distances (AS1547)

Feature	Sub-Type	Horizontal Setback Distances (m)
Treatment tanks to buildings, property boundaries, driveways, paths and other tanks	-	1.2
Trenches, beds and soak wells to boundary, building, tanks and other land application systems	-	1.8
Trenches, beds and soak wells to trafficable areas	-	1.2
Any land application system to wells, streams, private bores or underground source of water intended for human consumption	-	30.0
Trenches, beds and soak wells to subsoil drains or open drainage channels	-	6.0
Spray irrigation	Boundaries, buildings, driveways etc.	1.8
	Subsoil and open drains	6.0
	Swimming pools	3.0
	Treatment tanks	1.2
Subsurface Drippers	Boundaries, buildings, driveways etc.	0.5
	Subsoil and open drains	3.0
	Swimming pools	2.0
	Garden bore	10.0
On-site waste system to water resources (river, stream etc.)	-	100.0

12.3. Land Application Areas

12.3.1. Government Sewerage Policy (GSP, 2019)

The minimum LAA size in accordance with the GSP (2019) has been calculated and is shown below. The LAA may need to be resized if the hydraulic loading changes.

Table 9: GSP LAA Calculation

Soil Category (AS1547)	Conversion Factor (Table 2 of GSP)	Hydraulic Loading (L/day, Section 6)	Minimum LAA (m^2)
1 to 2	0.2	5,000	1,000

12.3.2. Water Balance

Water balance calculations are presented in Appendix E.

As well as the GSP minimum, the LAA must have a minimum size to meet the water balance area requirements (in accordance with the WA Health Regulations Method), calculated as 108 m^2 per 5,000 L/day of hydraulic loading.

12.3.3. Summary

The GSP sizing will govern with a minimum 1,000 m^2 total LAA per 5,000 L/day of hydraulic loading. This may need to be resized based on the actual hydraulic loading within each proposed lot.

A detailed plan will be required with the application to install that shows that the required setbacks are met, in particular to the drainage line through the HCLIA (lot configuration will need to be done to allow LAAs to achieve the required setbacks). Provided lot configurations are suitable, there 100 m setback to drainage courses should be achievable.

13. SOIL ASSESSMENT

Details of our soil assessment are presented in Attached Table 4.

14. SITE SUITABILITY AND RECOMMENDATIONS

Based on our assessment, the site is suitable for disposal of wastewater. Wastewater must have secondary treatment (i.e., an ATU).

LAA Location and Setbacks

The exact location of the LAA has not been finalised, however, we judge that setback requirements can be met. A setback of 6 m is required from the open drainage channels, wetland areas, and lakes at the site (refer Table 8). A 100 m setback will be required from the creek line

Any proposed LAA will need to satisfy the setback requirements, including meeting the appropriate distances from site boundaries, buildings, trafficable areas and driveways etc.

Disposal Method

We considered the use of leach drains to dispose of treated effluent is appropriate. Flatbed leach drains or concrete leach drains are likely to be acceptable.

Separation to Groundwater and LAA Surface Level

A minimum 1.5 m clearance to groundwater below leach drains must be achieved.

Groundwater was encountered between 0 m below ground (in low lying areas) and over 3 m below ground (in elevated areas). Surface water (judged to be an expression of the groundwater table) was observed in the table drain, wetland areas and lakes in Section 4.

Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Filling, subsoil drains and / or table drains could possibly be required to control groundwater. Levels for leach drain invert levels can be assessed once design groundwater levels are derived for the development.

We recommend that filling requirements be assessed based on proposed lot configurations and design groundwater levels as established by a hydrologist.

Treatment Units

The wastewater may be treated using an ATU (secondary treatment), also known as aerated wastewater treatment systems (AWTS). ATU's use the processes of aeration followed by clarification to achieve biological treatment of wastewater.

ATU's (or any other proposed system) must be certified to AS1546.3 (2008) and require approval by the Chief Health Officer. A list of approved ATU's is presented in Table 2 on the Department of Health website.

Soil improvement in areas of proposed fill

Any fill at the site below leach drains must have a phosphorous retention index (PRI) of at least 20, and monitored 3-yearly, in accordance with Department of Health requirements. This can be done with a product like 'gypsum', or by using high-PRI soil. High PRI soil must be present to a minimum depth of 200 mm below the base of all infiltration zones and at least 0.5 m in plan outside the leach drain footprint area.

There is no requirement for other fill above leach drains to have a minimum PRI.

15. CLOSURE

GALT GEOTECHNICS



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https://galtgeo.sharepoint.com/sites/wag250138/shared documents/01 dpd si/03 correspondence/wag250138-01 002 r rev0 sse.docx

Attached Table 1: Summary of Geotechnical Index Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)	LS (%)	Org %	MMDD (t/m^3)	OMC (%)	CBR (%)	CBR Swell (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	4	71	25	28	5	2.5	-	-	-	-	-
BH03	1.5 to 1.8	SAND (SP)	-	98	2	-	-	-	-	-	-	-	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	2	66	32	46	6	3.0	10.7	-	-	-	-
BH06	0.6 to 1.0	SAND (SP-SC)	2	92	6	-	-	-	1.2	-	-	-	-
BH10	1.0 to 1.5	SAND (SP)	-	99	1	-	-	-	-	-	-	-	-
G07	0.5 to 0.6	SAND (SP)	-	97	3	-	-	-	0.4	-	-	-	-
G10	0.4 to 0.5	SAND (SP)	1	94	5	-	-	-	1.1	-	-	-	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)													
BH04	0.3 to 0.5	SAND (SP)	0	95	5	-	-	-	1.7	-	-	-	-
BH06	1.0 to 1.4	SAND (SP)	0	96	4	-	-	-	0.5	-	-	-	-
BH07	0.3 to 0.7	SAND (SP)	6	92	2	-	-	-	2.7	-	-	-	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)													
G01	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
BH16	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***													
BH01	0.1 to 0.5	SAND (SP)	1	96	3	-	-	-	-	1.76	12.5	20	0.0
BH03	0.6 to 1.2	SAND (SP)	-	95	5	-	-	-	-	-	-	-	-
BH04	0.1 to 0.4	SAND (SP)	-	96	4	NO	NP	0.0	-	-	-	-	-
BH06	0.5 to 1.2	SAND (SP)	-	97	3	NO	NP	0.0	-	-	-	-	-
BH07	0.0 to 0.4	SAND (SP)	1	96	3	-	-	-	-	1.73	14.5	19	0.0
G02	0.2 to 0.6	SAND (SP-SM)	5	89	6	-	-	-	-	-	-	-	-

Notes

1. *Particle size distribution (by mass)*
   - *Gravel: 2.36 mm – 63 mm*
   - *Sand: 0.075 mm – 2.36 mm*
   - *Fines: <0.075 mm*
2. *Atterberg Limits*
   - *LL: Liquid limit*
   - *PI: Plasticity index*
   - *LS: Linear shrinkage*
   - *NO: Not obtainable*
   - *NP: Non-plastic*
3. *Org: Organic content (by mass)*
4. *Modified compaction*
   - *MMDD: Modified maximum dry density*
   - *OMC: Optimum moisture content*
6. *CBR: California bearing ratio*
   - *Remoulding dry density ratio: 95% MMDD*
   - *Surcharge: 6.75 kg*
   - *Soaking: 4-day soaked*

Attached Table 2: Summary of Chemical Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Electric Conductivity (us/cm)	pH	Phosphorus Retention Index	Exchangeable Sodium Percentage (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	300	8.4	21	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	1000	4.8	200	-
BH06	0.5 to 1.0	SAND (SP-SC)	110	7.3	4.0	-
G07	0.5 to 0.6	SAND (SP)	14	7.8	0.5	-
G10	0.4 to 0.5	SAND (SP)	73	7.7	1.5	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)						
G01	0.3	SAND (SP)	66	6.6	-0.14	-
G03	0.4	SAND (SP)	60	6.6	-0.48	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)						
G01	0.1 to 0.5	SAND (SP)	32	5.8	-0.11	Not Reportable
BH16	0.1 to 0.5	SAND (SP)	36	6.2	-0.25	Not Reportable
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***						
BH04	0.1 to 0.4	SAND (SP)	-	-	0.62	-
G02	0.2 to 0.6	SAND (SP-SM)	-	-	1.2	-

Attached Table 3: Summary of encountered conditions (August / September 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])	Organic Soil layers (m BGL[1])
CPT01	5.1	0.60	0.9 to 1.2 and from 4.0	possibly from 0.9 to 1.2
CPT02	5.1	0.40	3.0	-
CPT03	5.1	1.70	2.2	-
CPT04	5.1	Collapsed[2]	***3.5***[4]	-
CPT05	2.3	0.60	-	-
CPT06	5.1	0.80	***2.0***[4]	-
CPT08	5.1	0.20	-	-
CPT09	5.1	1.40	***3.4***[4]	-
CPT10	5.1	0.20	-	-
CPT12	5.1	0.60	-	-
CPT13	5.1	0.00	4.2	-
CPT14	5.1	0.80	4.1	-
CPT15	5.1	0.80	***3.2***[4]	-
CPT16	3.0	1.10	***2.8***[4]	-
CPT19	5.1	0.80	-	-
CPT20	5.1	0.80	***2.2***[4]	-
BH01	3.0	2.10	-	-
BH02	3.0	0.80	0.9	0.9 to 2.0 - trace organics in clayey sand
BH03	3.0	1.60	***2.6***[4]	-
BH04	3.0	0.10	0.7	0.7 to 1.4 Organic clayey sand
BH05	1.3	0.60	-	-
BH06	3.0	0.40	2.6	-
BH09	3.0	1.30	-	-
BH10	3.0	1.60	-	-
BH11	3.0	1.00	-	-
BH12 / MW01	3.0	1.00	0.0 to 1.4 and 2.6	Peat from 0.0 to 0.6, Organic sand from 0.6 to 1.4
BH13	3.0	0.90	-	-
BH14 / MW03	3.0	0.28	2.0	-
BH15	3.0	1.10	-	-
BH16 / MW02	3.0	1.15	***2.0***[4]	-

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Thicker surficial organic layers encountered near / within drainage line in northern part of site as summarised above. Refer to appendices for further details.*

Attached Table 4: Summary of encountered conditions at 27 Hatch Court (May 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey soil (m BGL[1])
BH01	3	1.7	-
BH02	3	-	-
BH03	3	-	-
BH04	3	1.9	2.8
BH05	3	2.8	-
BH06	3	-	-
BH07	3	2.7	-
BH08	3	-	-
CPT01	6.5	collapsed	6.2
CPT02	5.8	collapsed	2.2
CPT03	6.3	collapsed	6.1
CPT04	6.4	collapsed	3.5
CPT05	6.4	collapsed	6.2
CPT06	6.4	collapsed	2.2

NOTES:
1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG250256-01 001 R Rev1 for further details.*

Attached Table 5: Summary of groundwater depths during fieldwork at 71 Stirling Crescent (March 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of cemented[4] soil (m BGL[1])
BH01	1.7	-	***1.7[4]***
BH02	2.0	-	-
BH03	2.0	-	-
BH04	1.0	-	***1.0[4]***

NOTES:
1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, inferred from borehole refusal.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230133-01 001 R Rev 1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 6: Summary of groundwater depths during fieldwork at Lots 8 & 16 Stirling Crescent (November 2024)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	3.00	-	-
BH02	3.00	-	-
BH03	3.00	-	-
BH04	3.00	-	-
BH05	2.70	1.2	-
BH06	3.00	-	-
BH07	3.00	-	-
BH08	2.00	-	***2.0[4]***
BH09	3.00	-	-
BH10	3.00	-	-
BH11	3.00	-	-
BH12	3.00	-	-
BH13	3.00	-	-
BH14	2.88	-	***2.5[4]***
BH15	2.30	-	***2.2[4]***
BH16	3.00	-	-
CPT01	6.90	-	6.5
CPT02	2.70	collapsed	***1.8[4]***
CPT03	6.20	collapsed	6.0
CPT04	6.20	collapsed	-
CPT05	6.20	collapsed	-
CPT06	6.20	collapsed	***3.0[4]***
CPT07	2.83	collapsed	***2.8[4]***
CPT08	2.86	collapsed	***2.8[4]***
CPT09	2.91	collapsed	***2.9[4]***
CPT10	2.51	collapsed	***2.5[4]***

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG240438-01 001 R Rev2 for further details.*

Attached Table 7: Summary of groundwater depths during fieldwork at part of Lot 1499 Stirling Crescent (September 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	2.0	-	-
BH02	2.0	1.7	-
BH03	2.0	1.1	-
BH04	2.0	1.9	-
BH05	2.0	1.9	-
BH06	2.0	-	-
CPT01	3.2	collapsed	***3.0[4]***
CPT02	8.4	2.5	***2.5 to 3.5[4]***, and from 8.0
CPT03	3.0	collapsed	***2.8[4]***
CPT04	8.2	1.9	-
CPT05	8.2	collapsed	***3.4 to 4.0[4]*** and 5.6
CPT06	2.7	collapsed	***2.6[4]***
CPT07	8.2	1.7	4.0

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230463-01 002 R Rev1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 8: Site Assessment

Consideration	Assessment / Discussion	Reference	Level of Constraint	Mitigation Measures
Geology	Refer Section 10.1. Mapped as Bassendean sand of variable thickness, with swamp deposits mapped in low lying areas (refer Inline Image 1). LAA are only to be located in areas of deep sand, at least 2 m above any clay or coffee rock layers.	Perth Sheet of the 1:50,000 Environmental Geology Series Map	Nil	-
Climate	To satisfy zero storage requirements, minimum LAA's to be sized as required for hydraulic loading.	Appendix E, Water Balance Calculation	Low	LAA to be greater than area required to meet zero storage requirement.
Exposure	Site will be cleared and broadly levelled - minimal/no tree cover or significant site aspect.	-	Low	-
Vegetation	Assumed area cleared, with minimal vegetation (i.e. limited to grass and / or shrubs)	-	Low	-
Landform and Drainage	The site generally undulates, but slopes down towards the drainage line traversing from west to east in the northern part of the site. Site drainage is controlled by this drainage line. Localised lakes are present in southern part of site, which are judged to be expressions of groundwater.	-	Moderate	Civil design to minimise rainfall run-on and run-off (using bunds/curbs etc.)
Slope	The proposed development area will be relatively flat after earthworks.	-	Low	Slope is <10% grade.
Fill (Imported)	Filling is anticipated to achieve adequate clearance to groundwater. Fill could be site derived or imported and must have similar properties as that encountered (i.e. All fill must be Soil Category 1 to 2).	-	Low	Any imported fill must have minimum hydraulic conductivity of 1.4 m/day (i.e. All fill must be Soil Category 1 to 2).
PDWSAs	The site is **not** mapped as being within a public drinking water source area.	Department of water (DoW) mapping service	-	-
SSAs	The site is mapped as a Sewage Sensitive Area, being within 1 km of a significant wetland and within the catchment of the Swan Coastal Plan.	Department of lands and heritage (DPLH) mapping service.	Moderate	The underside of any disposal area must be at least 1.5 m above the design groundwater level, provided a secondary treatment system is used.

Attached Table 8: Site Assessment CONTINUED (Page 2 of 2)

Consideration	Assessment / Discussion	Reference	Level of Constraint	Mitigation Measures
Surface gravel and rock outcrops	We did not note any significant surficial gravel and rock outcrops.	Section 11	Low	-
Groundwater Level	Groundwater currently between 0 m below ground (in low lying areas) and over 3 m below ground (in elevated areas). Surface water (judged to be an expression of the groundwater table) was observed in the table drain, wetland areas and lakes discussed above and in Section 4. Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Filling, subsoil drains and / or table drains could possibly be required.	Table 7	Moderate	The underside of any disposal area must be at least 1.5 m above the design groundwater level, provided a secondary treatment system is used.
Groundwater Separation	A minimum groundwater separation of 0.6 m is required for treated effluent at the site.	Government Sewerage Policy (2019)	Moderate	Refer comment above.
Rainfall Run-on/Seepage	Site slopes and levels will be changed significantly by bulk earthworks. Some rainfall run-on and run-off may occur.	-	Moderate	Incident rainfall must be diverted away from LAA's using curbs or diversion bunds. Similarly, any run-off must be prevented by either having a level LAA, or by using retention bunds.
Surface Water/Water Resources	As discussed in Section 4, Surface water (judged to be an expression of the groundwater table) was observed in - the table drain traversing west to east through the northern part of the site - the wetland area in the western part of the site near Lewis Road; and - lakes in the southern part of the site. It is possible some of these features will be removed as part of earthworks.	-	Moderate	LAA to be positioned so the required minimum setbacks to water resources are met. Particularly a 6 m offset from open drainage channels (refer Table 8) and 100 m offset from the creek in the HCLIA.
Flood Potential	The site is **not** mapped as a Floodplain Development Control Area	DWER floodplain mapping	-	-
Setbacks	All setbacks to be met.	Section 12.2	High	LAA to meet setback requirements.
LAA	The minimum total LAA area by the GSP 2019 method is 1,000 m^2 per 5,000 L/day of hydraulic loading. This will need to be resized as required for the actual hydraulic loading within each proposed lot.	Section 12.3.3	Low	LAA to be sized to meet the minimum required infiltrative area and setbacks.

Attached Table 9: Soil Assessment

Consideration	Assessment / Discussion				Reference	Level of Constraint	Mitigation Measures
Subsurface Soil Conditions	In proposed LAA areas, soil conditions to comprise SAND with a minimum permeability of 1.4 m/day (i.e. Soil Category 1 or 2). To a depth of no less than 2 m. This is achievable for most of the site.				Section 11	Moderate	-
Acid Sulfate Soils	Organic soils near drainage lines, wetland areas and possibly within existing lakes could have a high acid sulfate soil risk. LAA's are to be located away from these features in sand above the groundwater, and therefore no significant ASS risk is present.				Department of Environmental Regulation (DER) mapping	Low	-
Soil Category	In situ soil in proposed LAA areas is Category 1 to 2				AS1547-2012	Moderate	Any imported fill must have minimum hydraulic conductivity of 1.4 m/day to meet these assumptions (i.e. All fill must be Soil Category 1 to 2). LAA areas not to be near drainage lines or wetland areas where surficial organic clayey soils could be present.
Design Loading Rates	50 mm/day				Table L1, AS1547-2012	-	Secondary treated effluent
Laboratory Testing in SAND	**Level of Constraint**						-
	Result	**Low**	**Medium**	**High**			
Coarse Fragments[1]	Up to 6%	<10%	10-40%	>40%		Low	Erosion risk is relatively low and can be controlled around perimeter using geotextile / vegetation / etc.. as per civil design requirements. No reduction in permeability necessary to account for gravel.
Phosphorous Retention Index (PRI)[2]	-0.5 to 4.0	>20	5-20	<5		High	The upper 0.2 m of soil below leach drains must comprise high PRI (PRI>20) soil to ensure nutrient stripping capability.
pH[1]	5.8 to 7.8	6-8	4.5-6	<4.5,>8		Low to Medium	In situ soil not considered to be significantly erodible.
Exchangeable Sodium Percentage[1]	Not Reportable	<10	10-20	<20		-	
Electric Conductivity (dS/m)[1]	0.014 to 0.110	<0.3	0.3 – 2.0	>2.0		Low	
Emerson Class[1]	NIL	> 4	4	1 - 3		-	-

***Notes: 1)** Level of constraint based on our interpretation of AS1547 description of "non-dispersive soils". **2)** Phosphorus retention index requirements are based on our interpretation of The Department of Primary Industries and Regional Development Standards for Land Resource Mapping (2005), as this is not specified in AS1547.*

Figures





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

N

0 50 100 150 200 250
Meters

NOTES
Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250	(A3)
DRAWN	CED	
DATE DRAWN	11/9/2025	
CHECKED	–	
DATE CHECKED	–	
PROJECTION	GDA 1994 MGA Zone 50	

Galt Geotechnics Pty Ltd
ACN : 138 490 865
Tel : +61 (0)8 6272-0200
Address : 50 Edward Street
Osborne Park WA 6017

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CLIENT	**CLIENT**
PROJECT	PROJECT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

WAG250256-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Guelph Permeameter

WAG240438-01-TLF

- Borehole
- Borehole / Standpipe
- Cone Penetration Test
- Guelph Permeameter
- Guelph Permeameter / Standpipe
- Infiltration Test

WAG230463-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Permeability Test
- Sediment Sample

WAG230133-01-FTL

- Borehole
- Borehole / Infiltration Test
- Infiltration Test

NOTES

Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250	(A3)
DRAWN	CED	
DATE DRAWN	11/9/2025	
CHECKED	_	
DATE CHECKED	_	
PROJECTION	GDA 1994 MGA Zone 50	

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CLIENT	**CLIENT**
PROJECT	PROJECT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN WITH PREVIOUS GALT TEST LOCATIONS

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**

Appendices

Appendix A: Site Photographs

Photograph 1: Site photo near BH13. Water ponded at ground surface



Photograph 2: Near BH02 facing west. Wetland area near Lewis Road.



Photograph 3: Near BH01 facing south east



Photograph 4: Near CPT01 facing north. Wetland area near Lewis Road / drainage line in northern part of site.



Photograph 5: Near BH04 facing north



Photograph 6: Near CPT08 facing west. Drainage line adjacent borehole.



Photograph 7: Near BH10 facing east



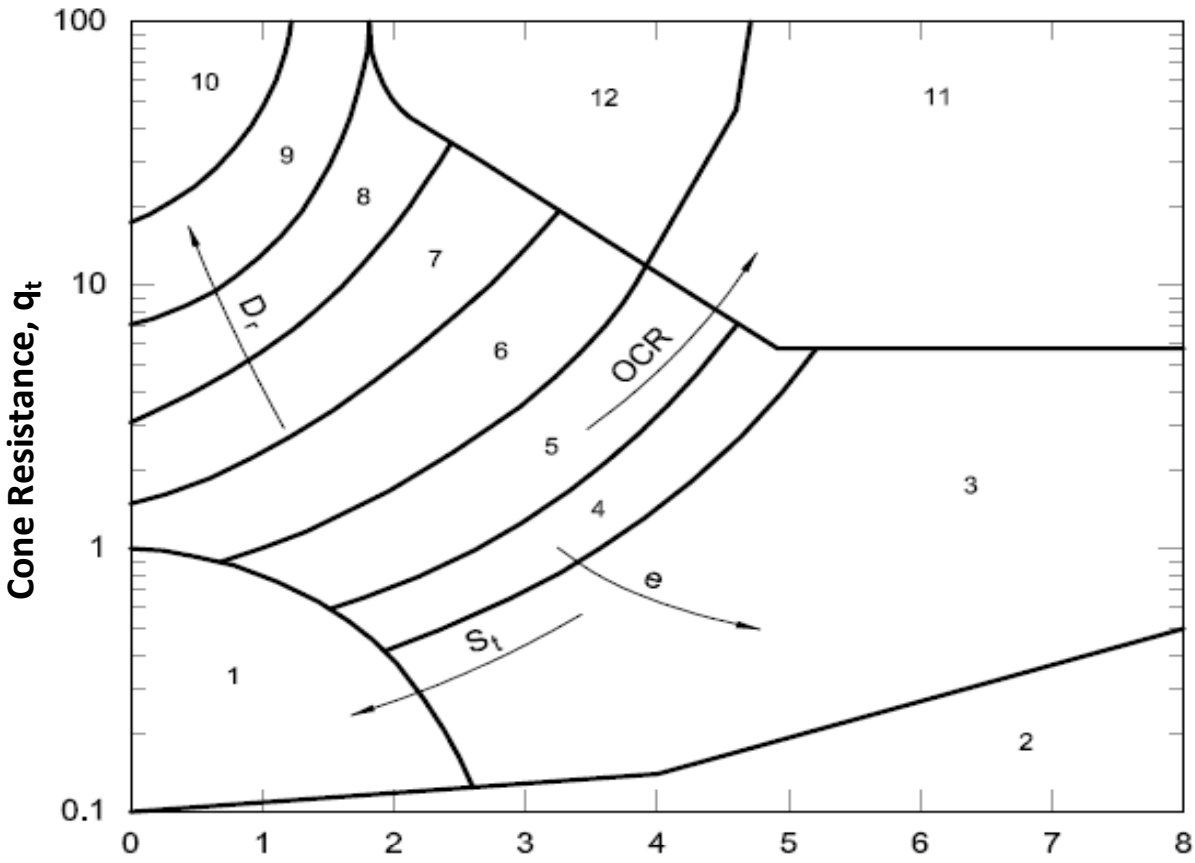
Photograph 8: Near BH15 facing south east



Photograph 9: Near BH06 facing south west



Appendix B: CPT Test Results



DEFINITIONS

q_t : Cone tip resistance corrected for pore water pressure
S_t : Sensitivity
e : Void ratio
D_r : Relative density
OCR : Overconsolidation ratio
OC : Overconsolidated

SOIL BEHAVIOUR TYPE ZONES

1. Sensitive fine grained
2. Organic material
3. Clay
4. Silty clay to clay
5. Clayey silt to silty clay
6. Sandy silt to clayey silt
7. Silty sand to sandy silt
8. Sand to silty sand
9. Sand
10. Gravelly sand to sand
11. Very stiff fine grained material (OC/cemented)
12. Sand to clayey sand (OC/cemented)

NOTES

A. Some overlap in type zones is expected
B. Local correlations are preferred and may indicate soil type boundaries that are different from those shown above

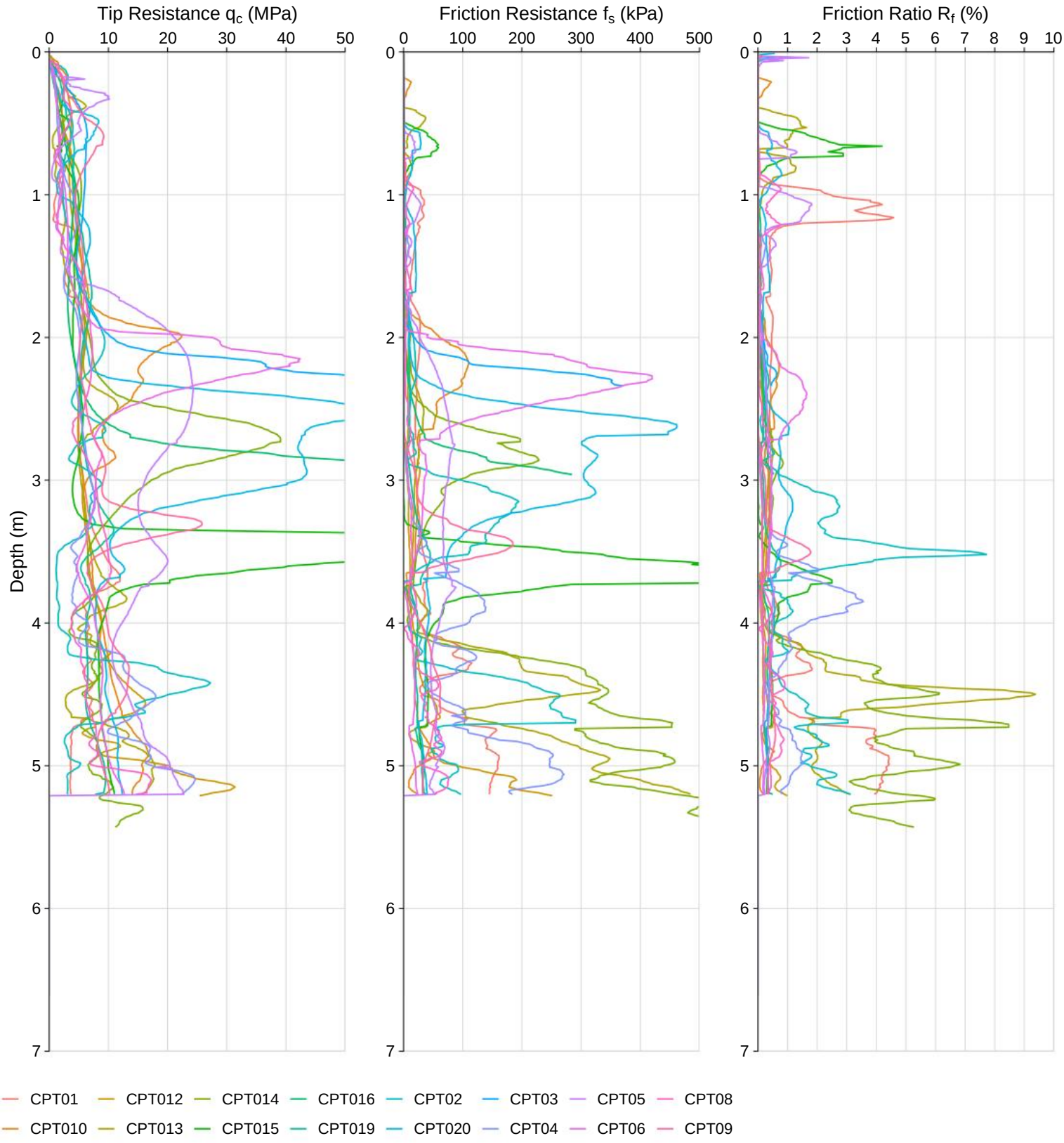
Reference: Robertson, P.K., Campanella, R.G., Gillespie, D. and Grieg, J. (1986) "Use of Piezometer Cone Data". Proceedings of the ASCE Speciality Conference In Situ '86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE)

Galt GEOTECHNICS

CONE PENETRATION TESTING (CPT) SOIL TYPE INTERPRETATION

CONE PENETRATION TEST

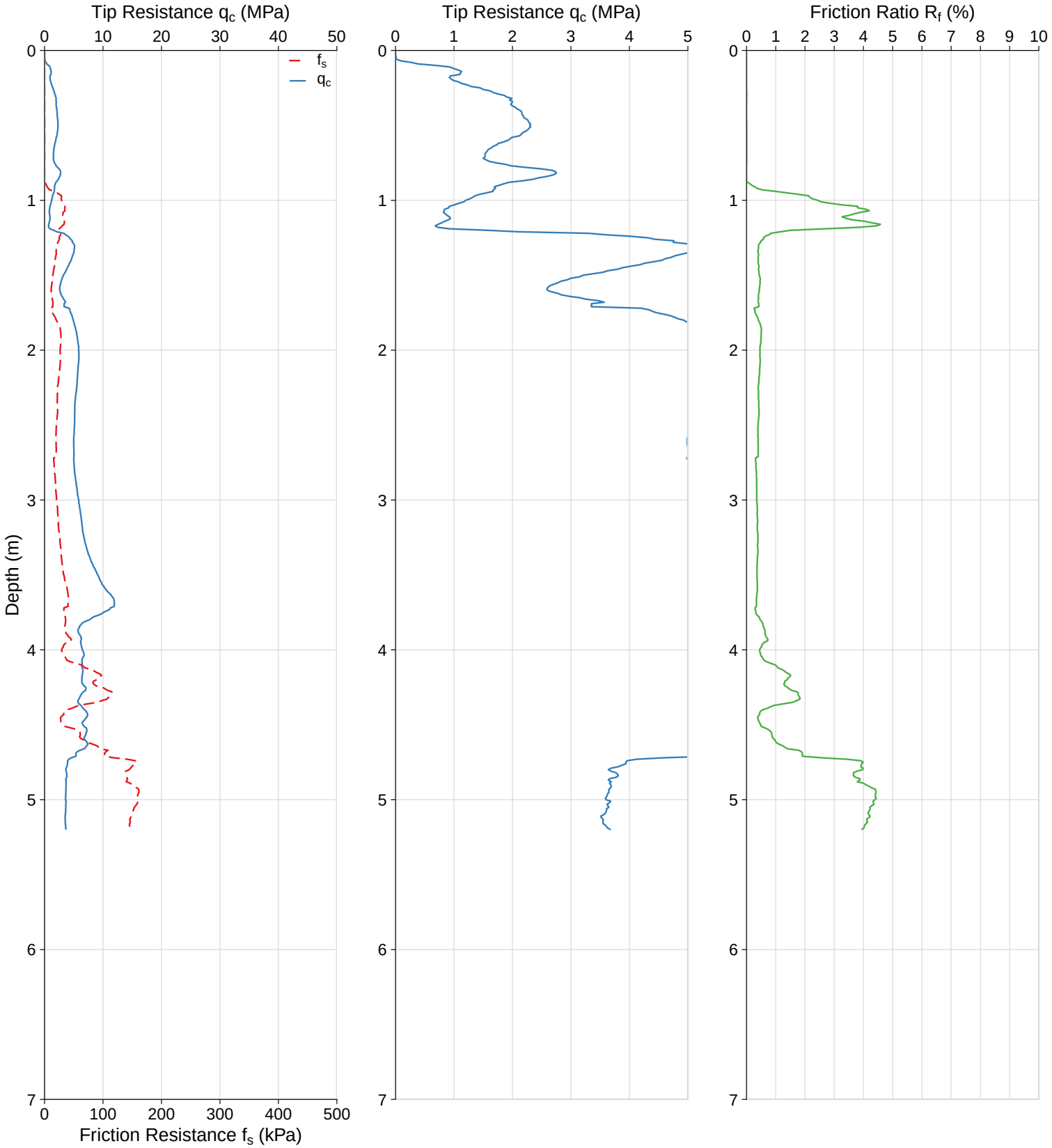
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



RIG: Pagani TG 73-200 200kN

CONE PENETRATION TEST

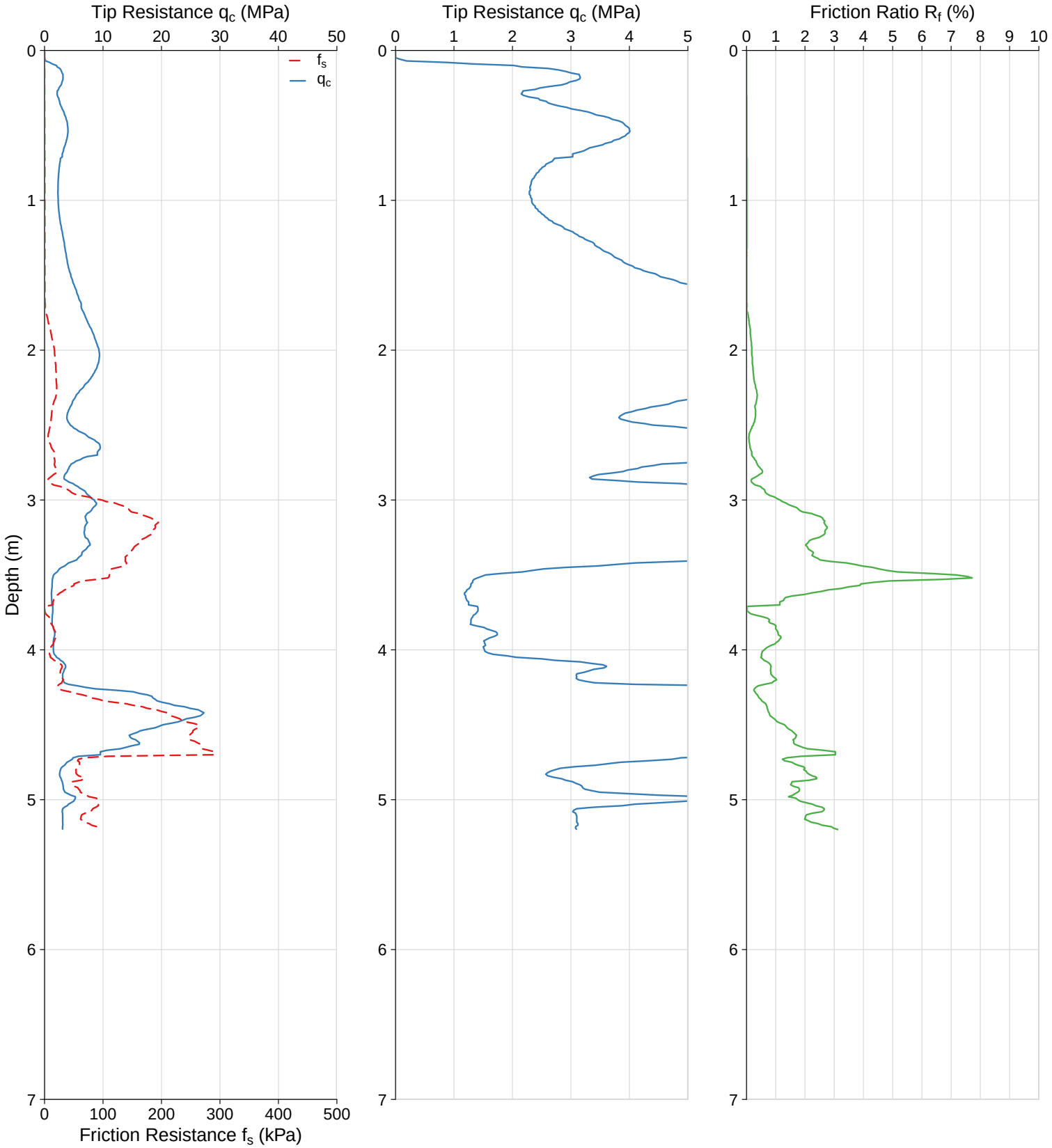
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

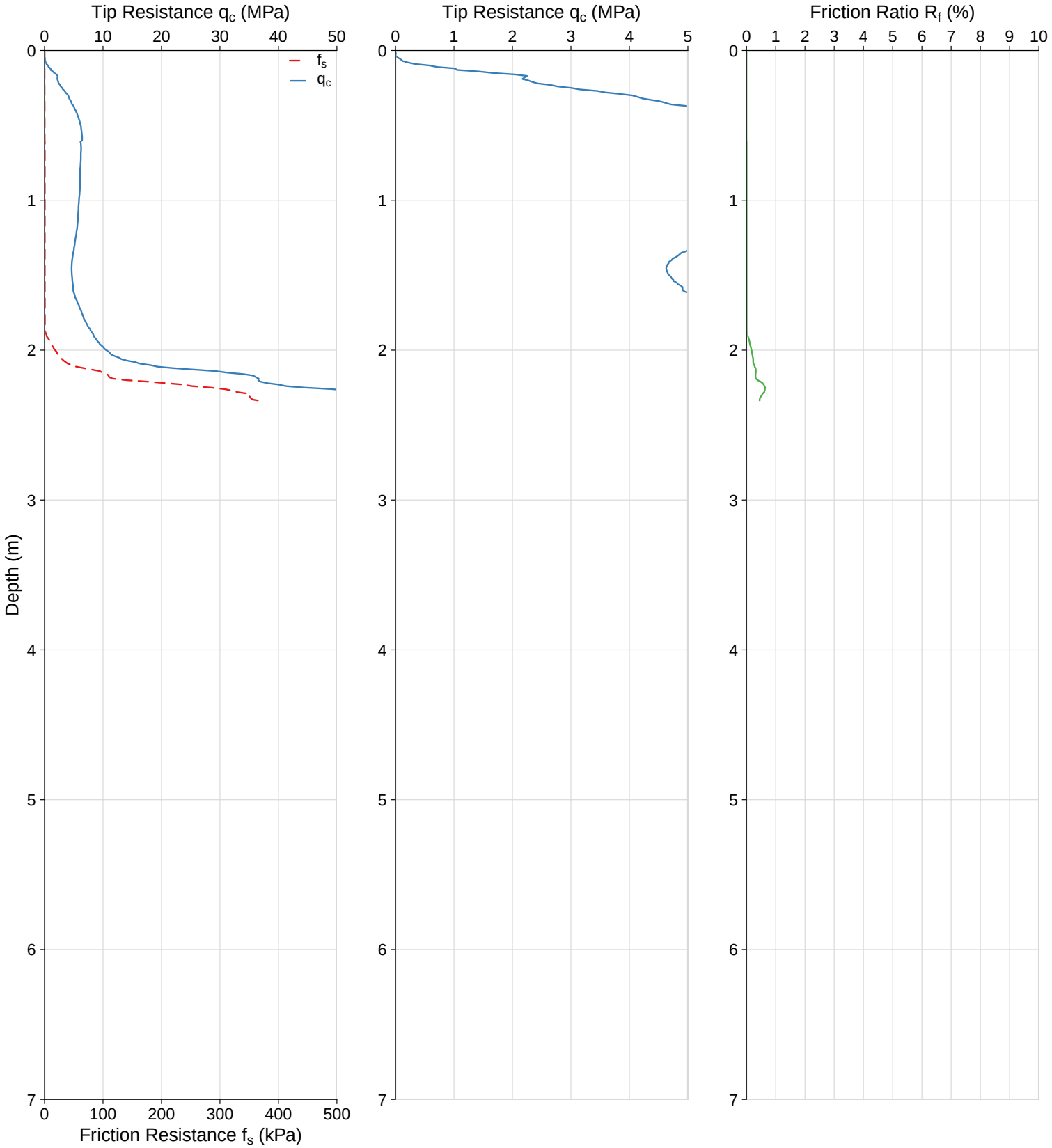
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DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

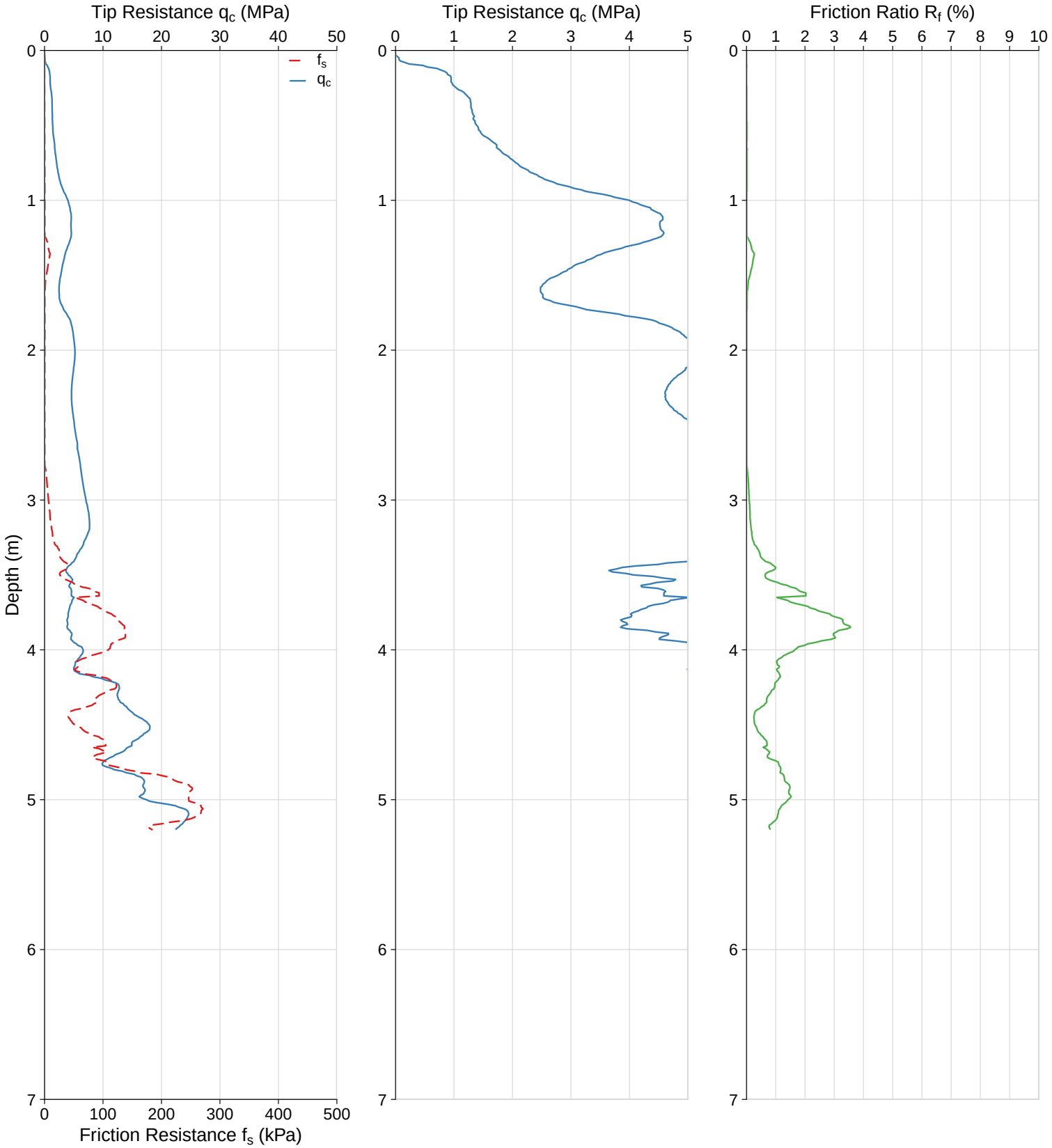
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.7m	**CO-ORDS:**	
TERMINATION:	Refused, 2.34m	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

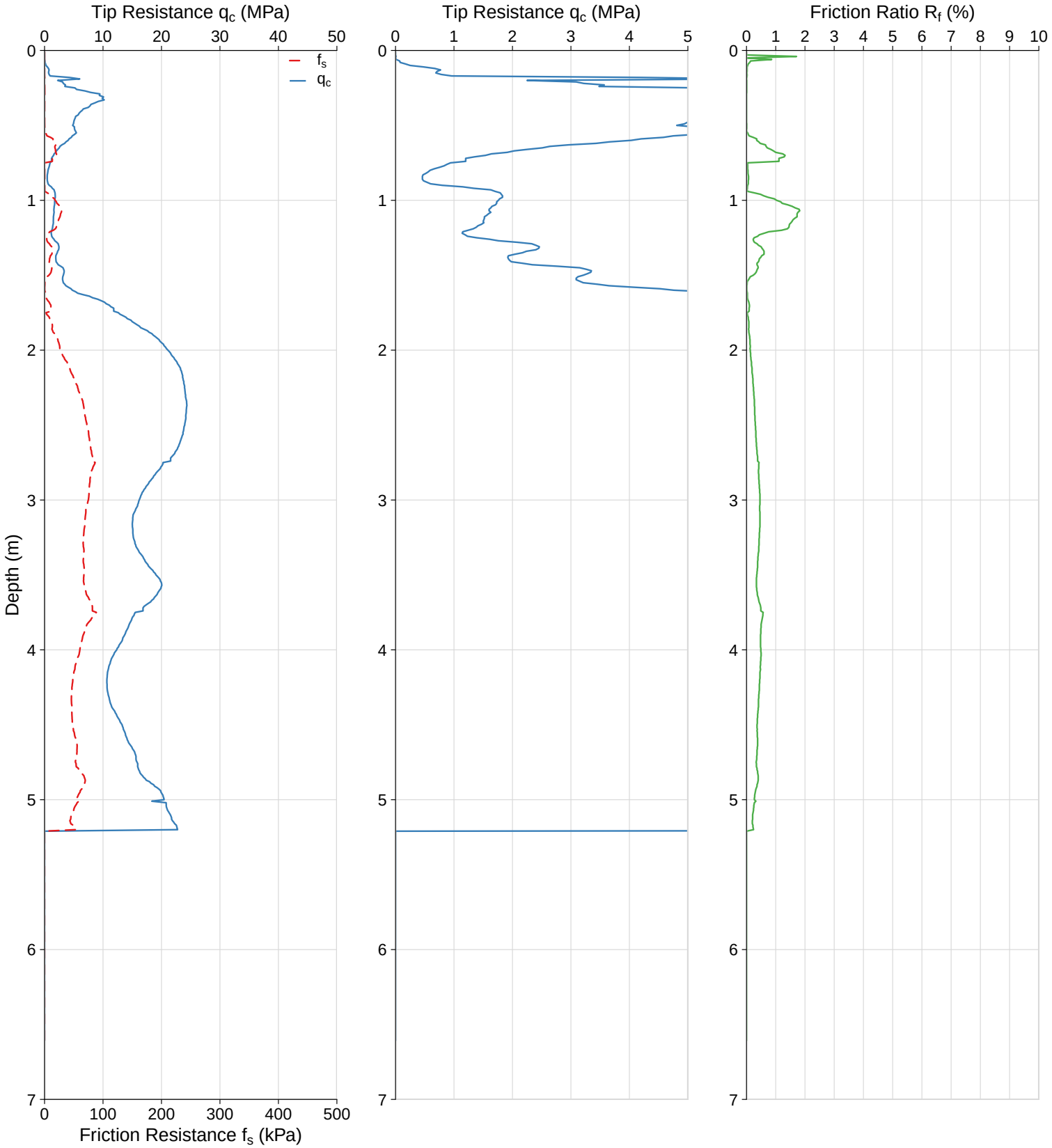
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DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

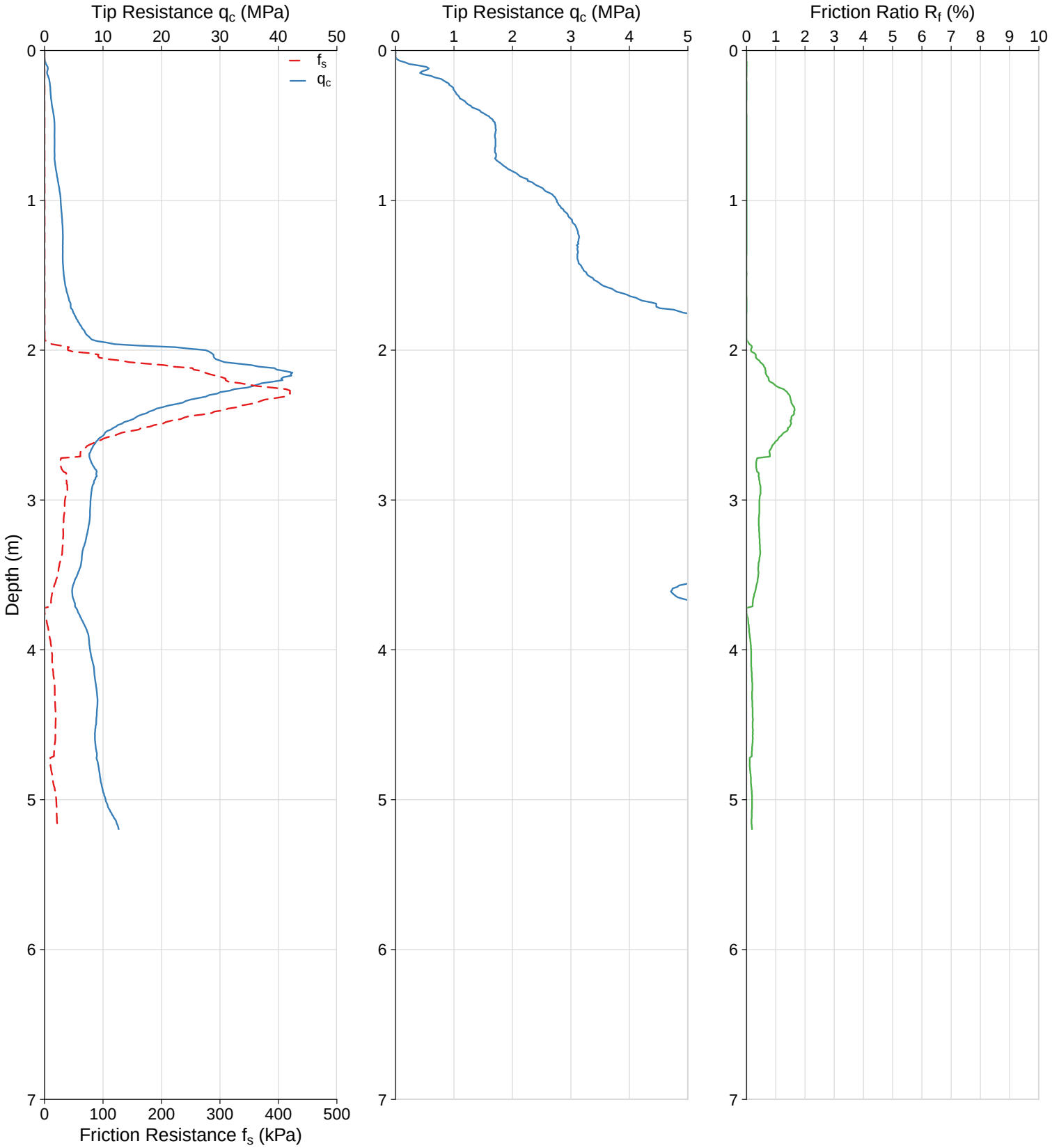
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

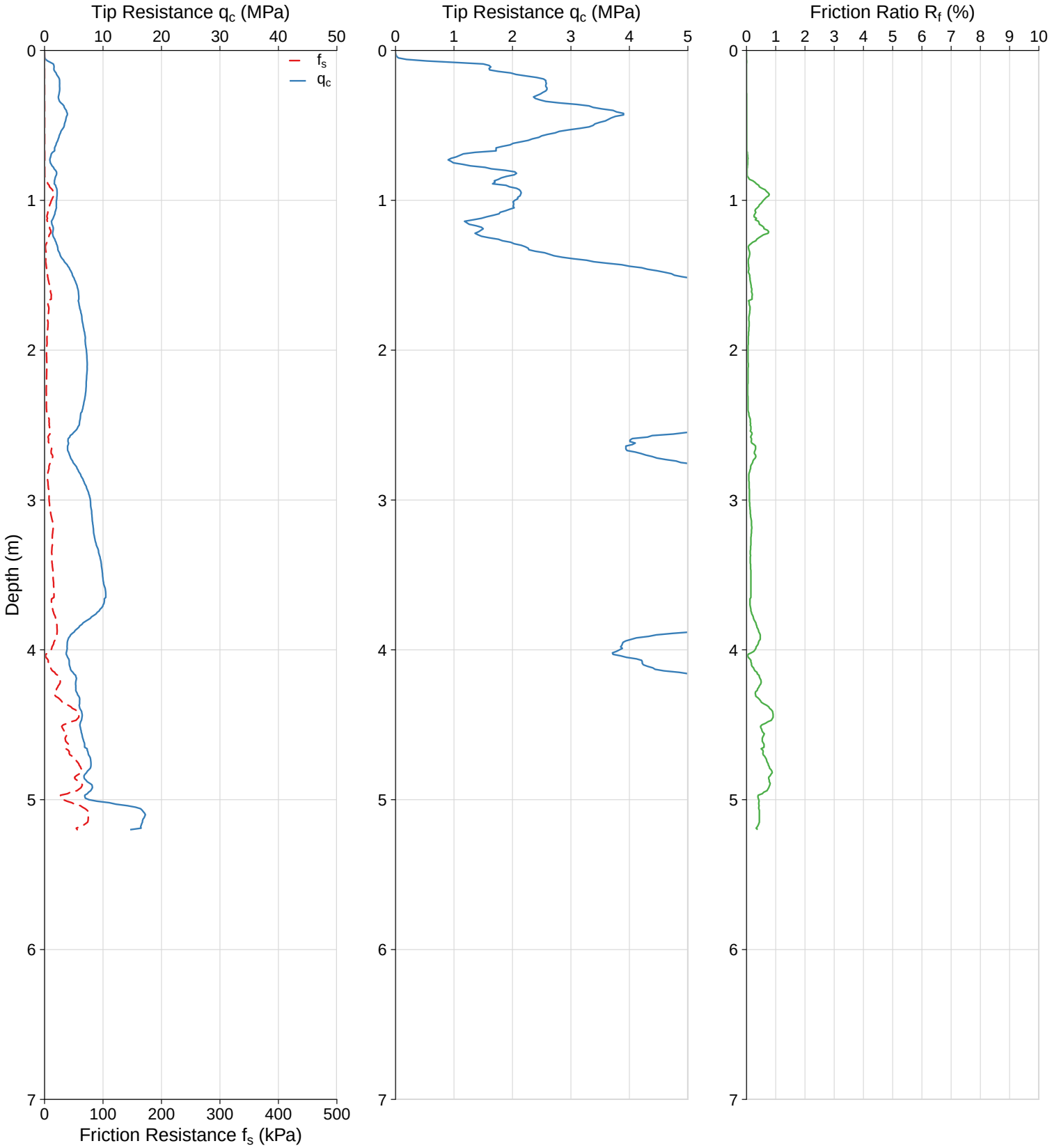
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

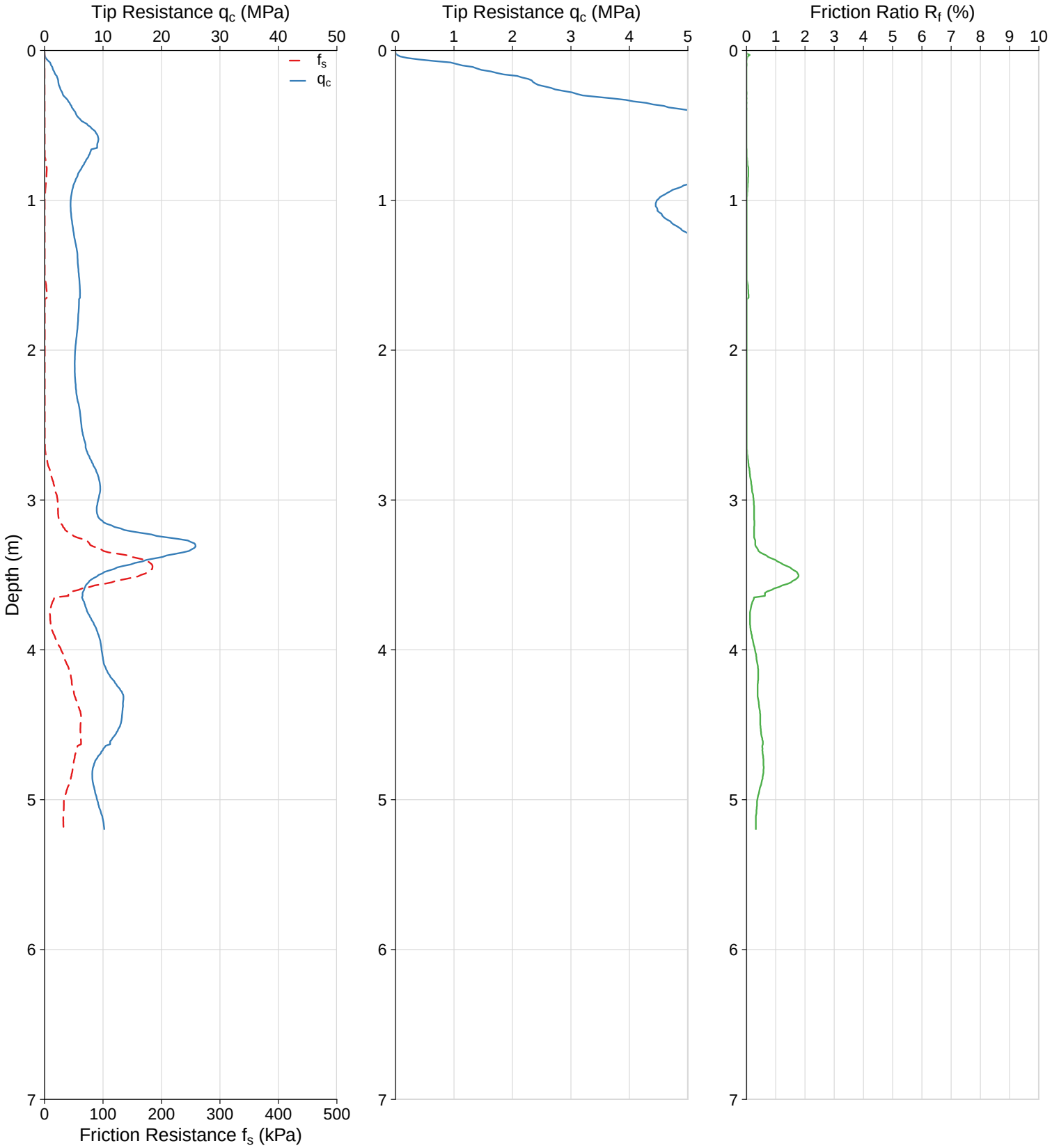
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

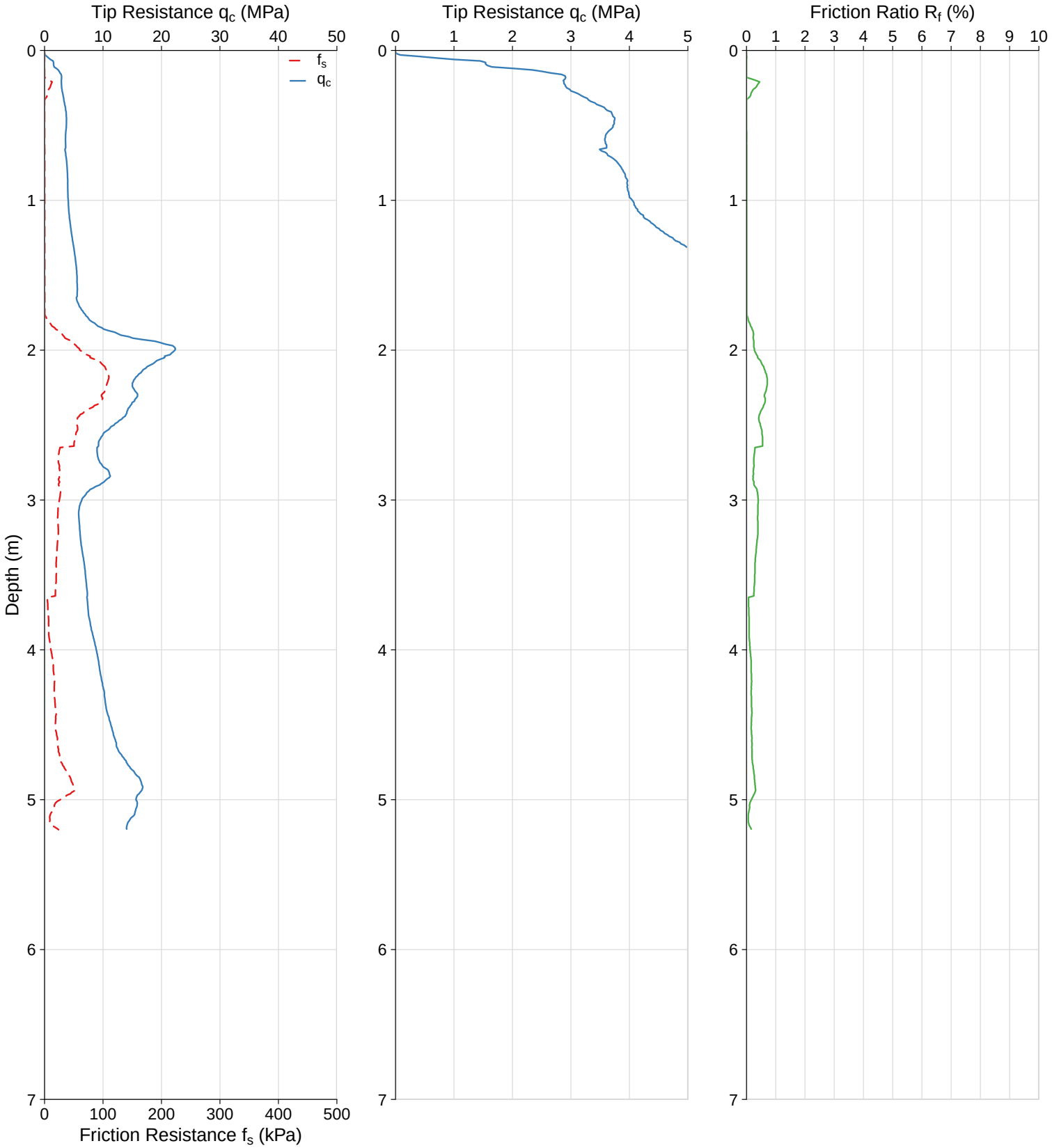
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DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

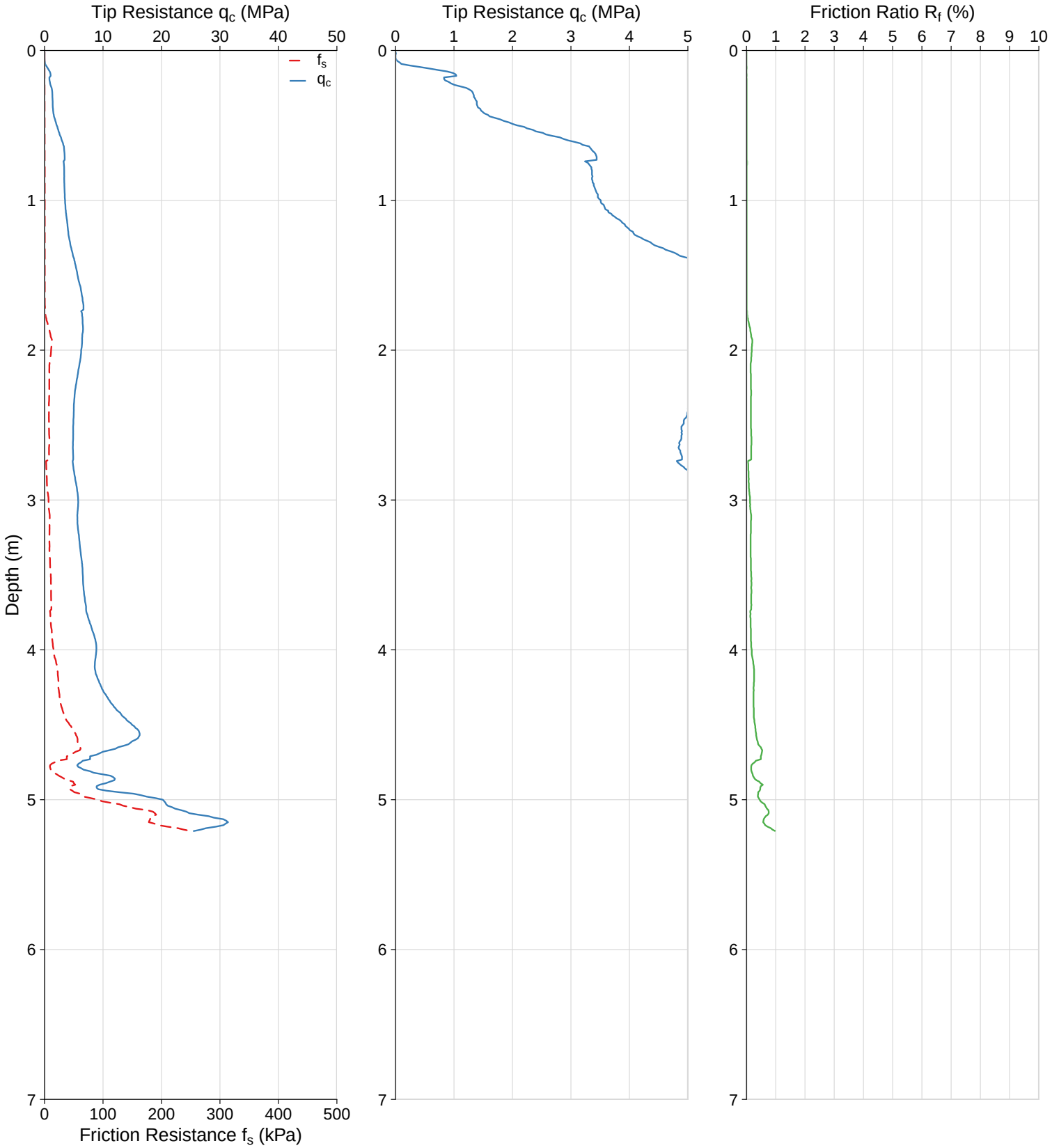
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

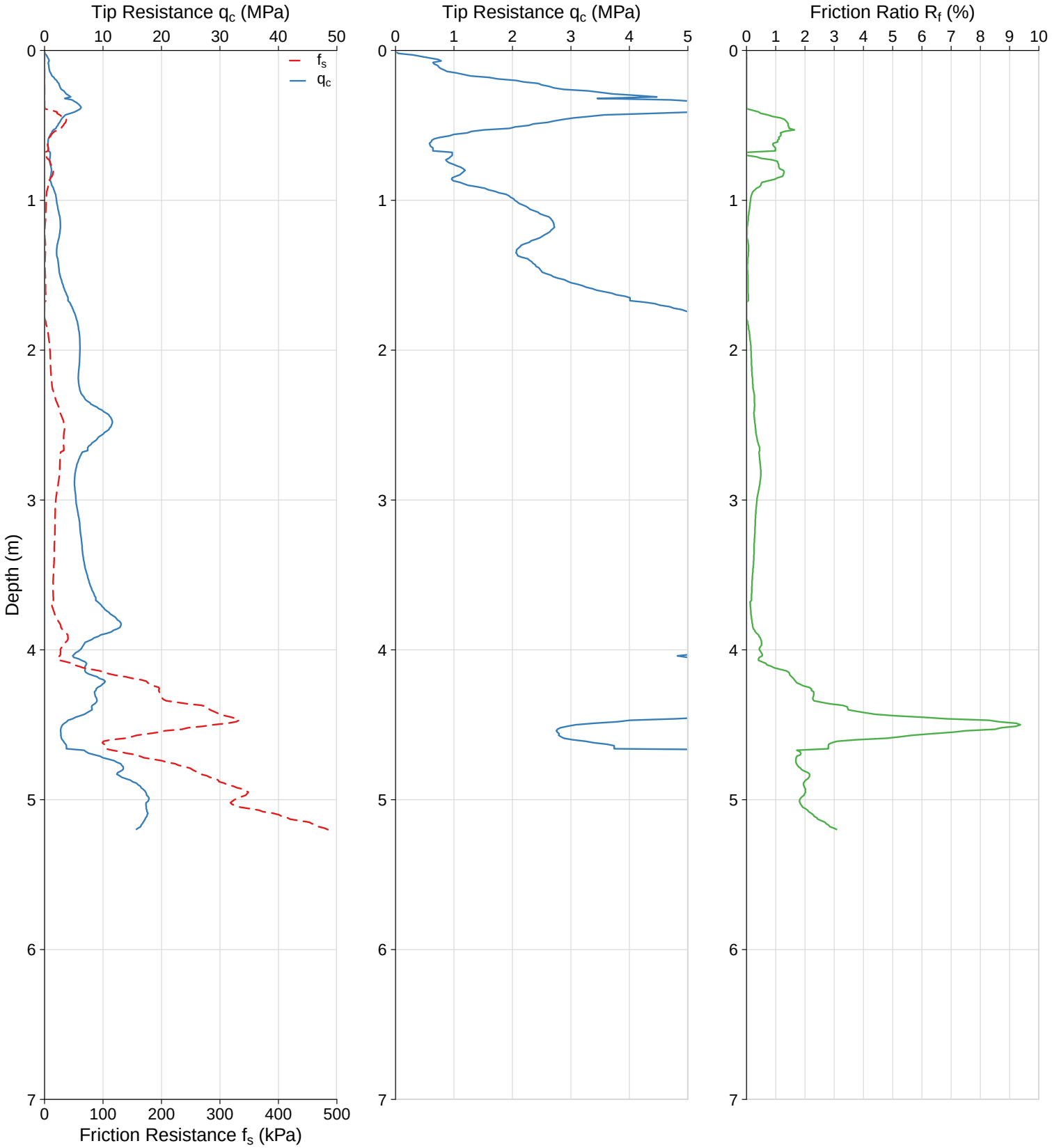
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

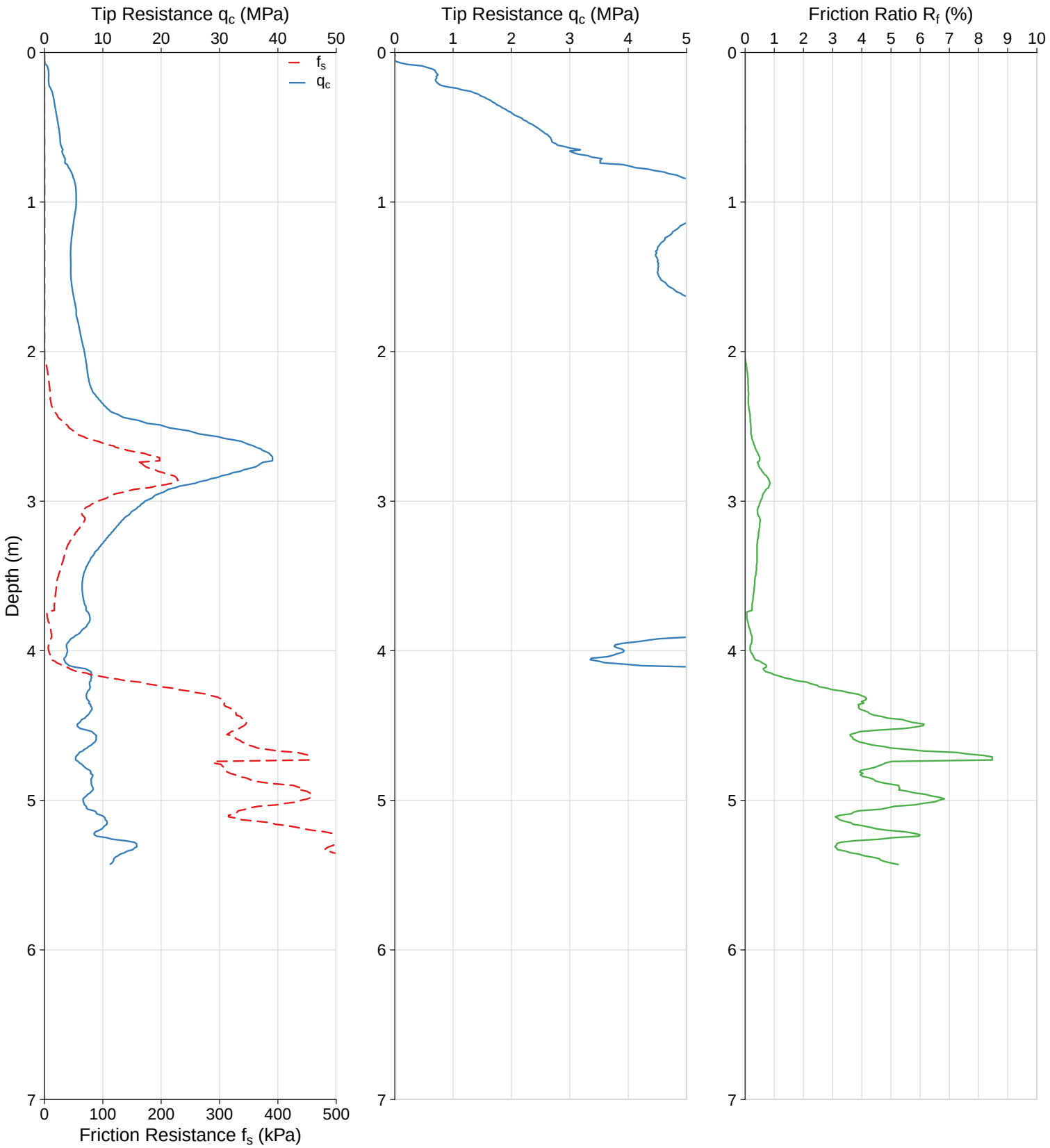
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DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Wet surface	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

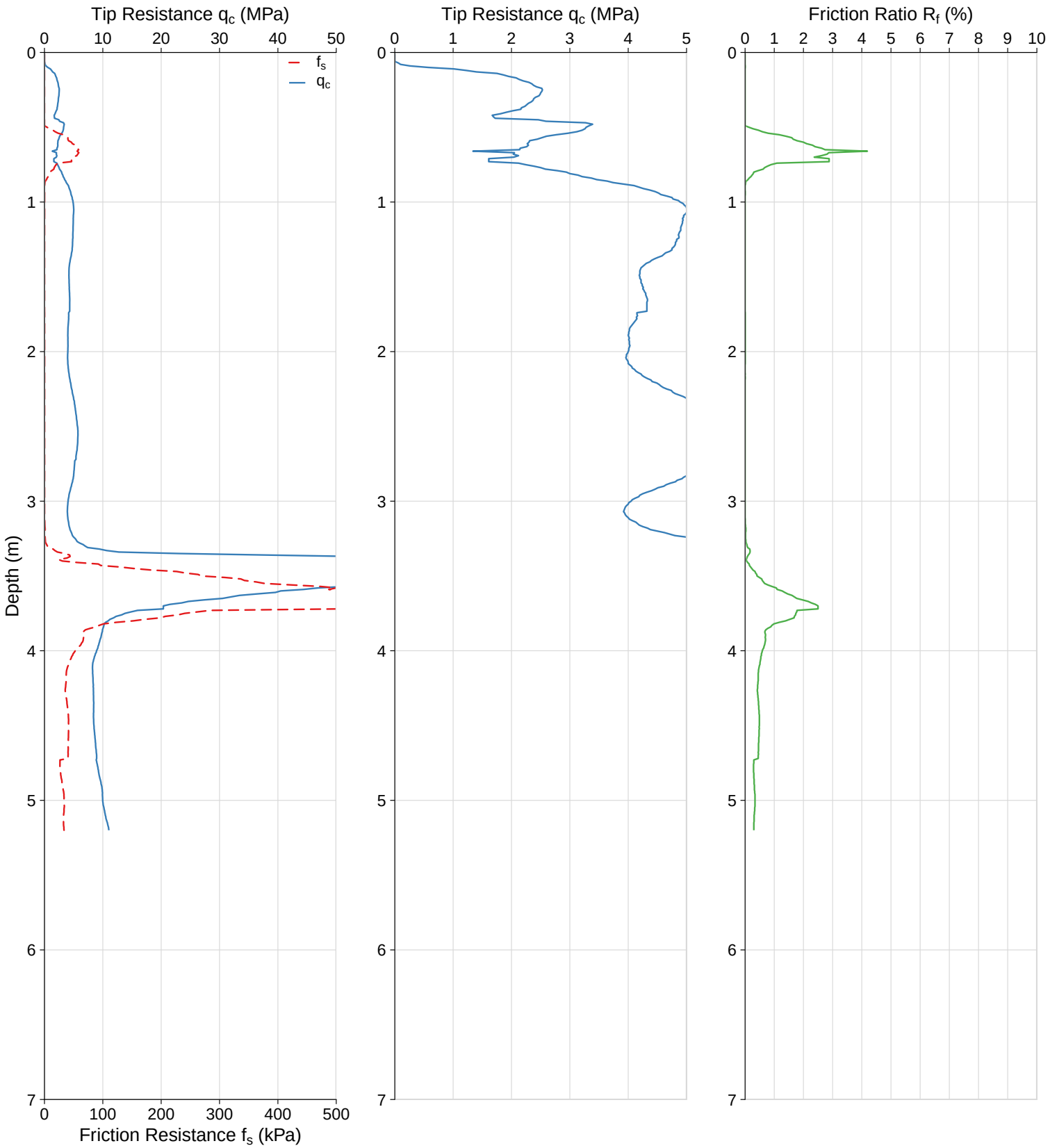
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

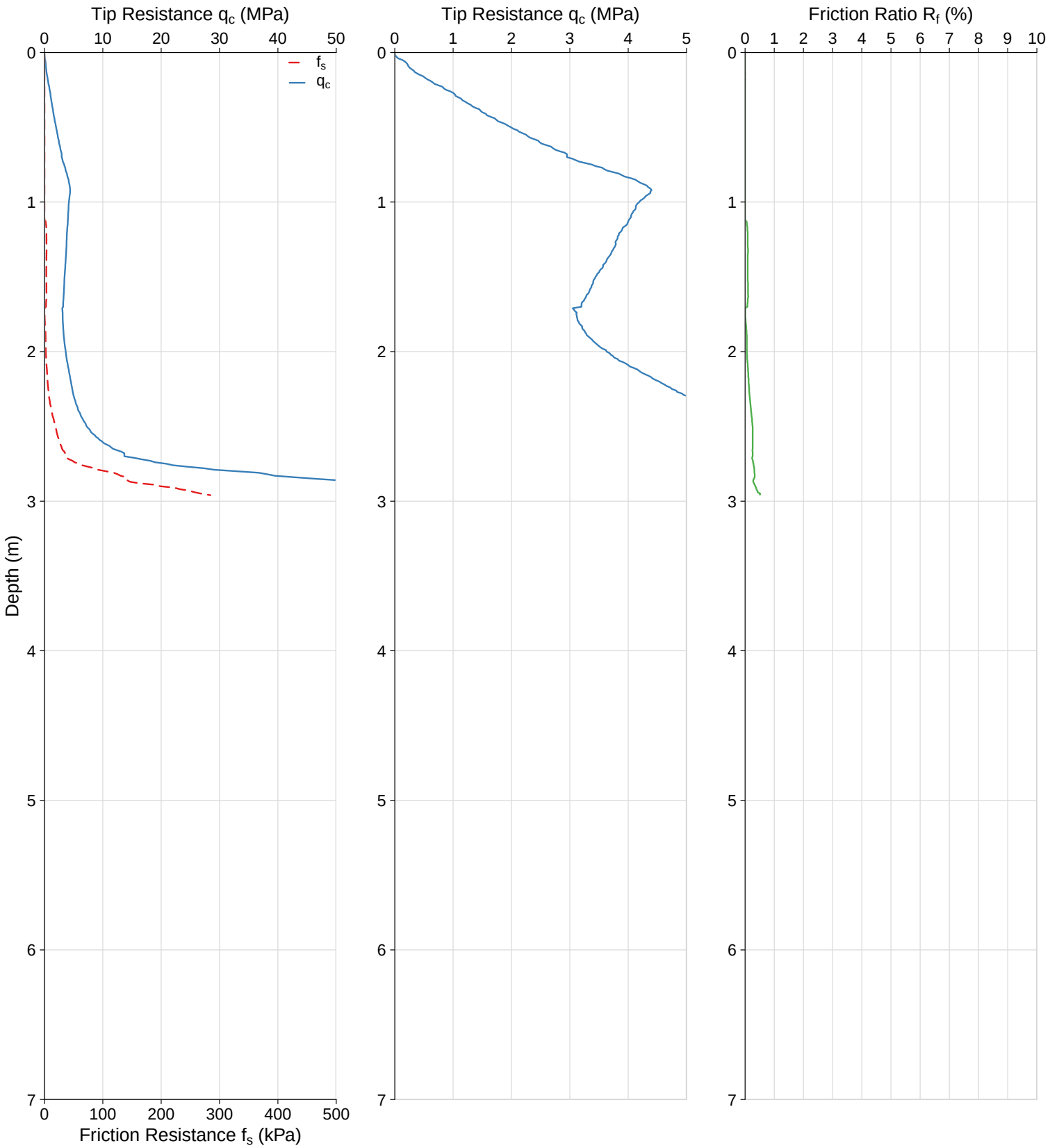
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

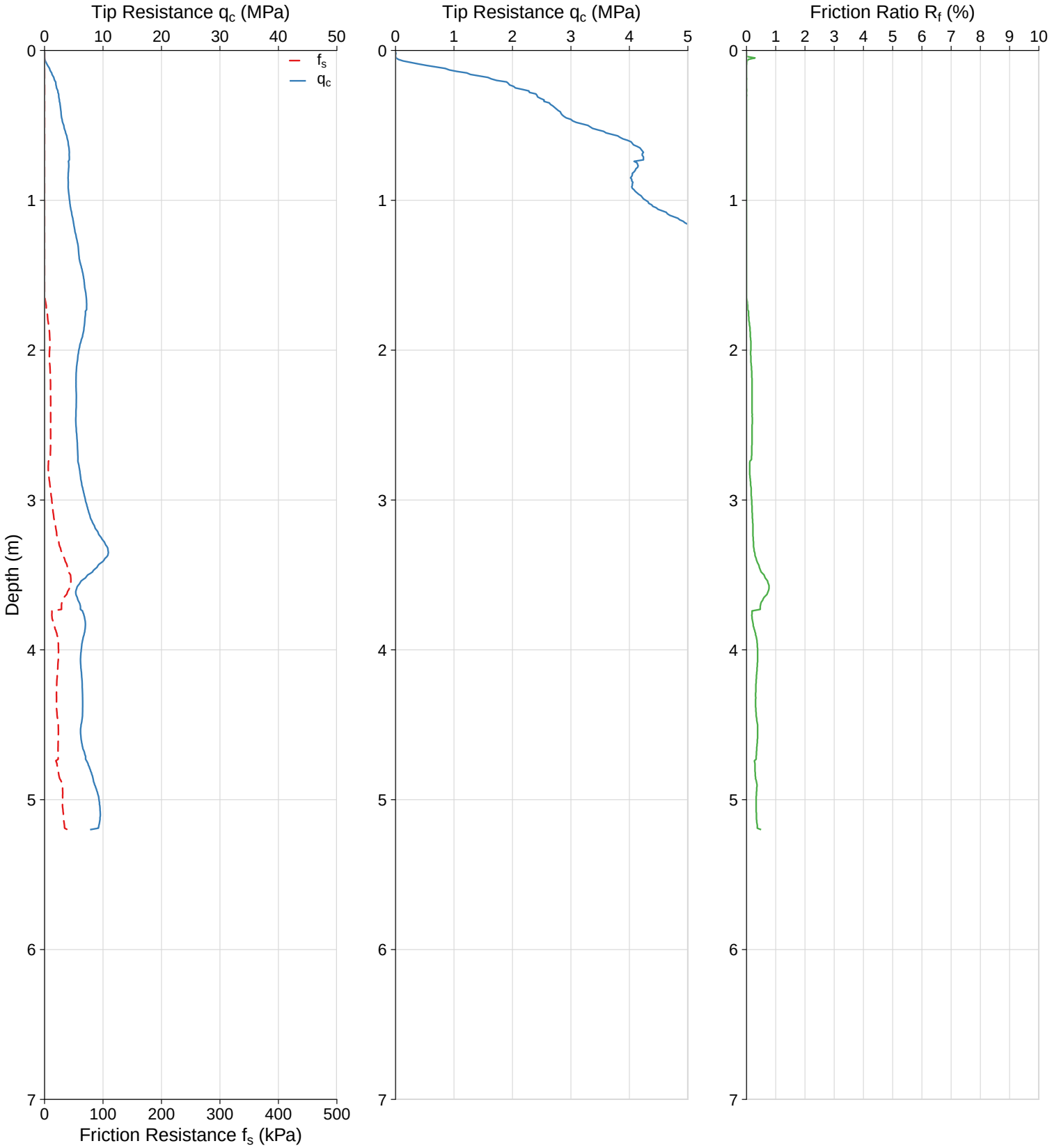
CPT ID:	CPT016	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 1.1m	**CO-ORDS:**	
TERMINATION:	Refused	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

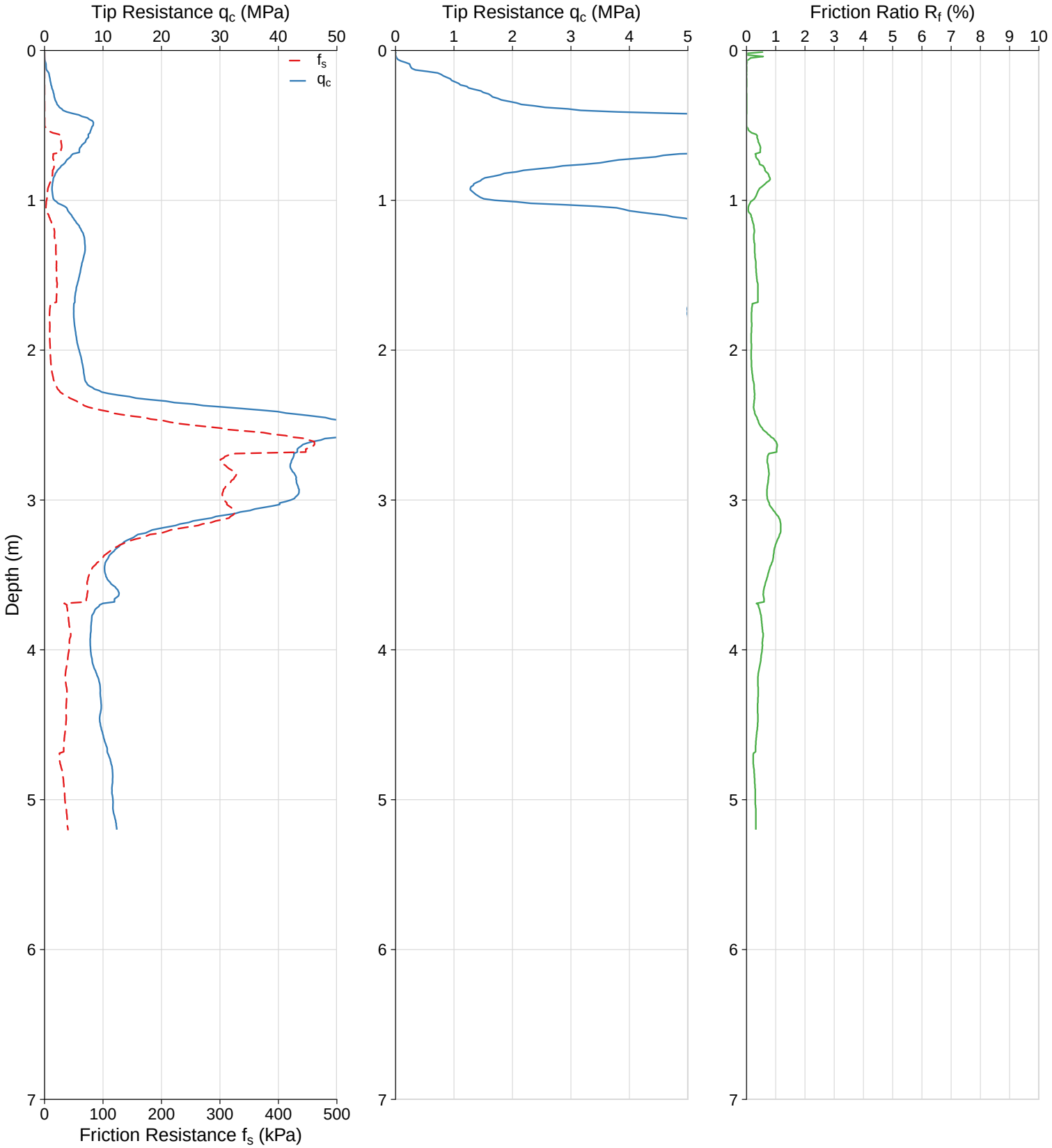
CPT ID:	CPT019	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

CPT ID:	CPT020	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

Appendix C: Machine Borehole Logs

METHOD OF SOIL DESCRIPTION
BOREHOLE AND TEST PIT REPORTS

GRAPHIC LOG & SOIL CLASSIFICATION SYMBOLS

Graphic	USCS	Soil Name
		FILL (various types)
		COBBLES / BOULDERS
	GP	GRAVEL (poorly graded)
	GW	GRAVEL (well graded)
	GC	Clayey GRAVEL
	GM	Silty GRAVEL
	SP	SAND (poorly graded)
	SW	SAND (well graded)
	SC	Clayey SAND

Graphic	USCS	Soil Name
	SM	Silty SAND
	ML	SILT (low liquid limit)
	MH	SILT (high liquid limit)
	CL	CLAY (low plasticity)
	CI	CLAY (medium plasticity)
	CH	CLAY (high plasticity)
	OL	Organic SILT (low liquid limit)
	OH	Organic SILT (high liquid limit)
	Pt	PEAT

NOTE: Dual classification given for soils with a fines content between 5% and 12%.

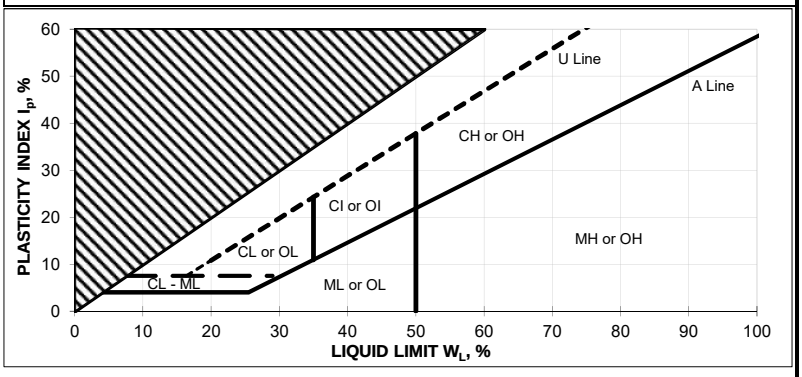
SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil descriptions are based on AS1726-2017. Material properties are assessed in the field by visual/tactile methods in combination with field and laboratory testing techniques (where used).

NOTE: AS 1726-2017 defines a fine grained soil where the total dry mass of fine fractions (<0.075 mm particle size) exceeds 35%.

PARTICLE SIZE		
Soil Name		**Particle Size (mm)**
BOULDERS		>200
COBBLES		63 to 200
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.3 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
FINES	SILT	0.002 to 0.075
	CLAY	<0.002

PLASTICITY - MODIFIED CASAGRANDE CHART - AS1726-2017



RESISTANCE TO EXCAVATION		
Symbol	**Term**	**Description**
VE	Very easy	All resistances are relative to the selected method of excavation
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION	
Symbol	**Term**
D	Dry
M	Moist
W	Wet

CEMENTATION	
Cementation	**Description**
Weakly cemented	Soil may be easily disaggregated by hand in air or water
Moderately cemented	Effort is required to disaggregate the soil by hand in air or water

CONSISTENCY		
Symbol	**Term**	**Undrained Shear Strength (kPa)**
VS	Very Soft	0 to 12
S	Soft	12 to 25
F	Firm	25 to 50
St	Stiff	50 to 100
VSt	Very Stiff	100 to 200
H	Hard	>200

ORGANIC SOILS	
Material	**Organic Content % of dry mass**
Inorganic soil	<2%
Organic soil	2% to 25%
Peat	>25%

DENSITY		
Symbol	**Term**	**Density Index (%)**
VL	Very Loose	<15
L	Loose	15 to 35
MD	Medium Dense	35 to 65
D	Dense	65 to 85
VD	Very Dense	>85

EXPLANATORY NOTES TO BE READ WITH BOREHOLE AND TEST PIT REPORTS

METHOD OF DRILLING OR EXCAVATION

AC	Air Core	E	Excavator	PQ3	PQ3 Core Barrel
AD/T	Auger Drilling with TC-Bit	EH	Excavator with Hammer	PT	Push Tube
AD/V	Auger Drilling with V-Bit	HA	Hand Auger	R	Ripper
AT	Air Track	HE	Hand Excavation	RR	Rock Roller
B	Bulldozer Blade	HQ3	HQ3 Core Barrel	SON	Sonic Rig
BH	Backhoe Bucket	N	Natural Exposure	SPT	Driven SPT
CT	Cable Tool	NMLC	NMLC Core Barrel	WB	Washbore
DT	Diatube	PP	Push Probe	X	Existing Excavation

SUPPORT

T	Timbering

PENETRATION EFFORT (RELATIVE TO THE EQUIPMENT USED)

VE	Very Easy	E	Easy	F	Firm
H	Hard	VH	Very Hard		

WATER

►	Water Inflow	▼	Water Level
◄	Water Loss (complete)		
◁	Water Loss (partial)		

SAMPLING AND TESTING

B	Bulk Disturbed Sample	P	Piston Sample
BLK	Block Sample	PBT	Plate Bearing Test
C	Core Sample	U	Undisturbed Push-in Sample
CBR	CBR Mould Sample		U50: 50 mm diameter
D	Small Disturbed Sample	SPT	Standard Penetration Test
ES	Environmental Soil Sample		Example: 3, 4, 5 N=9
EW	Environmental Water Sample		3,4,5: Blows per 150 mm
G	Gas Sample		N=9: Blows per 300 mm after
HP	Hand Penetrometer		150 mm seating interval
LB	Large Bulk Disturbed Sample	VS	Vane Shear; P = Peak
M	Mazier Type Sample		R = Remoulded (kPa)
MC	Moisture Content Sample	W	Water Sample

ROCK CORE RECOVERY

TCR = Total Core Recovery (%) $= \frac{CRL}{TCL} \times 100$

RQD = Rock Quality Designation (%) $= \frac{ALC>100}{TCL} \times 100$

TCL	Length of Core Run
CRL	Length of Core Recovered
ALC>100	Total Length of Axial Lengths of Core Greater than 100 mm Long

BOREHOLE: BH01

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V						SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, trace fines, trace organics (0.1)	M		0	
								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, trace fines				
0.5											0.5	
1									M		1	
1.5							SP				1.5	
2			▼								2	
2.5									W		2.5	
3								(3.0)			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 2.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH02

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH02-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, brown, trace to with gravel, trace fines, trace organics	M		0	
								0.3				
0.5							SP/SM	SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, with fines, trace to with organics			0.5	
								0.9				
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, low plasticity clay, trace gravel, trace organics	W		1	
1.5											1.5	
2								2.0			2	
							SC	pale grey mottled dark grey				
								2.3				
2.5							SC/CL	Sandy CLAY/Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, low to medium plasticity clay			2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH03

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH03-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.1 SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey-white, trace fines				
0.5											0.5	
1							SP		M		1	
1.5											1.5	
2								2.0 grey			2	
2.5							SP		W		2.5	
								2.6 trace coffee rock gravel				
3							SP	3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH04

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH04-01		SP/SM	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey mottled brown, trace to with fines, with organics 0.2	M		0	No Guelph testing due to high ground water
							SP/SM	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace to with fines, trace organics 0.7	W			
0.5							SC	Organic Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark brown, medium plasticity clay 1.4	W		0.5	
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, brown/grey, low plasticity clay 2.0	W		1	
1.5							SP-SC	Fine to coarse grained, sub-angular to sub-rounded, dark grey/white, with fines 3.0			1.5	
2											2	
2.5											2.5	
3								Borehole terminated at 3.0 m, target depth Groundwater encountered at 0.1 m depth			3	

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH04
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH05

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace fines, trace organics	M		0	
								0.3				
0.5							SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fines	W		0.5	
1								1.3			1	

Borehole terminated at 1.3 m, due to collapse
Groundwater encountered at 0.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH05
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH06

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH06-01		SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, brown-grey, trace fines, trace organics	M		0	
								0.3				
							SP/SC	SAND: fine to coarse grained, sub-angular to sub-rounded, brown-grey, with fines, trace organics	W			
								2.0				
							SP/SC	grey	W			
								2.6				
							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, grey, low plasticity clay	W			
								3.0				

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.4 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH06
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH09

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

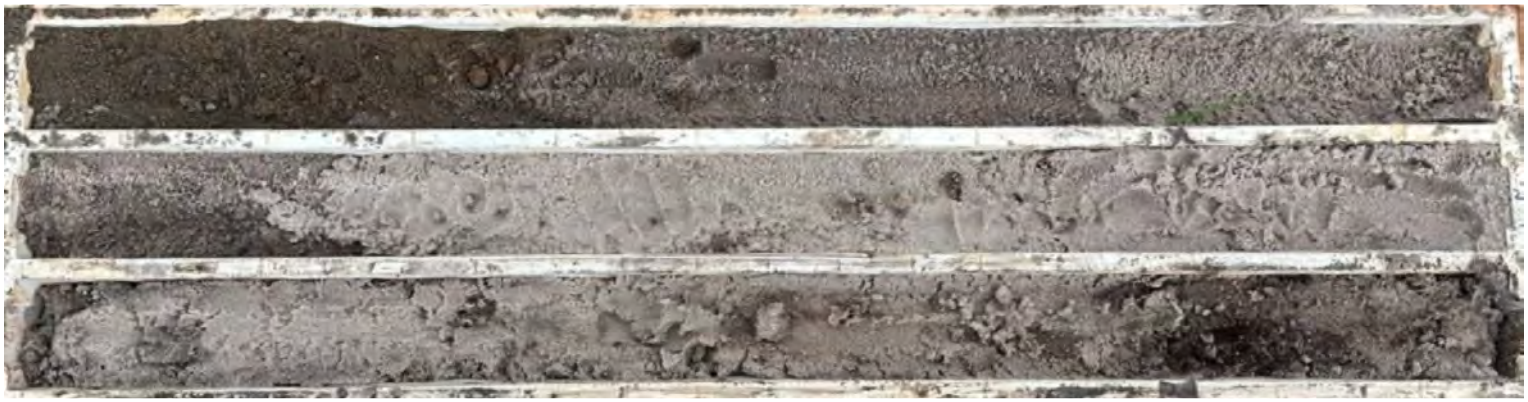
Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	FILL: TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, trace lateritic gravel, trace/with organics	M		0	
								0.3				
							SP	SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines	M			
0.5											0.5	
1								1.3			1	
							SP	pale grey	M			
1.5											1.5	
								2.0				
2							SP	pale grey mottled dark grey	W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH09
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH10

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.3				
0.5								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey/white, trace fines			0.5	
1				Bulk	BH10-01				M		1	
1.5							SP				1.5	
2									W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH10
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH11

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
				ASS	BH11/0.00			Grass 0.1			
				ASS	BH11/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, with fine to coarse grained gravel (up to 0.6 m) trace fines			
0.5				ASS	BH11/0.50			0.6	M	0.5	
				ASS	BH11/0.75		SP	becomes dark grey			
1			▼	ASS	BH11/1.00			1.1		1	
				ASS	BH11/1.25		SP	becomes fine to coarse grained, pale grey	W		
1.5	AD/V	E		ASS	BH11/1.50					1.5	
				ASS	BH11/1.75						
2				ASS	BH11/2.00					2	
				ASS	BH11/2.25						
2.5				ASS	BH11/2.50					2.5	
				ASS	BH11/2.75						
3				ASS	BH11/3.00			3.0		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH11
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH12/MW01

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH12/MW01/0.00		PT	PEAT: Fiberous, spongy, organic odour, dark brown, with sand	M	0	SUP; Concrete	SUP: +0.68 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.4 Gravel: 0.4-3.0
				ASS	BH12/MW01/0.25						Bentonite; Solid	
	0.5			ASS	BH12/MW01/0.50			0.6		0.5		
				ASS	BH12/MW01/0.75		SP	Organic SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey				
	1			ASS	BH12/MW01/1.00					1		
				ASS	BH12/MW01/1.25			1.4				
	1.5			ASS	BH12/MW01/1.50		SP	SAND: fine to medium grained, sub-angular to sub-rounded, pale brown/grey, trace fines	W	1.5		
				ASS	BH12/MW01/1.75						Gravel; Screen	
	2			ASS	BH12/MW01/2.00					2		
				ASS	BH12/MW01/2.25							
	2.5			ASS	BH12/MW01/2.50			2.6		2.5		
				ASS	BH12/MW01/2.75		SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, blue grey, low plasticity clay				
	3			ASS	BH12/MW01/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH12/MW01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH13

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH13/0.00			Grass (0.1)	M	0	
				ASS	BH13/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, trace fines			
0.5				ASS	BH13/0.50					0.5	
				ASS	BH13/0.75						
1				ASS	BH13/1.00				W	1	
				ASS	BH13/1.25						
1.5				ASS	BH13/1.50					1.5	
				ASS	BH13/1.75		SP	becomes fine to coarse grained (1.7)			
2				ASS	BH13/2.00			becomes pale brown/grey (2.0)		2	
				ASS	BH13/2.25						
2.5				ASS	BH13/2.50		SP			2.5	
				ASS	BH13/2.75						
3				ASS	BH13/3.00			(3.0)		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.9 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH13
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH14/MW03

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH14/MW03/0.00		SP	Gravelly SAND: sub-angular to sub-rounded, fine to medium grained sand, brown, rounded to sub-rounded, fine to medium grained gravel, trace fines	M	0	SUP Concrete	SUP: +0.65 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH14/MW03/0.25						Solid Bentonite	
	0.5			ASS	BH14/MW03/0.50					0.5		
				ASS	BH14/MW03/0.75			0.9				
	1			ASS	BH14/MW03/1.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace gravel (up to 1.5 m), trace fines		1		
				ASS	BH14/MW03/1.25							
	1.5			ASS	BH14/MW03/1.50			1.5		1.5		
				ASS	BH14/MW03/1.75		SP	becomes brown	W		Gravel Screen	
	2			ASS	BH14/MW03/2.00			2.0		2		
				ASS	BH14/MW03/2.25			Sandy CLAY: low plasticity, blue grey, sub-angular to sub-rounded, fine to coarse grained sand				
	2.5			ASS	BH14/MW03/2.50		CL			2.5		
				ASS	BH14/MW03/2.75							
	3			ASS	BH14/MW03/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.28 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH14/MW03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH15

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH15/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace organics, trace fines	M	0.5	
				ASS	BH15/0.25						
				ASS	BH15/0.50						
								0.7			
				ASS	BH15/0.75		SP	becomes grey			
1				ASS	BH15/1.00					1	
				ASS	BH15/1.25						
1.5				ASS	BH15/1.50					1.5	
				ASS	BH15/1.75						
								1.8			
								becomes fine to coarse grained	W		
2				ASS	BH15/2.00					2	
				ASS	BH15/2.25		SP				
2.5				ASS	BH15/2.50					2.5	
				ASS	BH15/2.75						
3				ASS	BH15/3.00			3.0		3	
								Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.1 m depth			

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH15
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH16/MW02

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0			ASS	BH16/MW02/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace rootlets (up to 0.3 m), trace fines	M	0	SUP, Concrete	SUP: +0.62 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH16/MW02/0.25						Solid, Bentonite	
	0.3							becomes grey				
	0.5			ASS	BH16/MW02/0.50		SP			0.5		
	0.7							becomes fine to coarse grained				
				ASS	BH16/MW02/0.75							
	1			ASS	BH16/MW02/1.00					1		
				ASS	BH16/MW02/1.25		SP					
	1.5	E		ASS	BH16/MW02/1.50					1.5		
				ASS	BH16/MW02/1.75				W		Gravel, Screen	
	2.0											
	2			ASS	BH16/MW02/2.00			Gravelly SAND: sub-angular to sub-rounded, fine to medium grained, dark brown, angular to subangular, fine to coarse grained gravel, with coffee rock, trace/with fines		2		
				ASS	BH16/MW02/2.25							
	2.5			ASS	BH16/MW02/2.50		SP-SM			2.5		
				ASS	BH16/MW02/2.75							
	3			ASS	BH16/MW02/3.00					3		
	3.0							Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.15 m depth				

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH16/MW02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

Appendix D: Guelph Permeameter Test Results

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH01/G01

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
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	Fixed field

Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	38	cm
H	Head of water above base	8	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	52		
0.5	40	12.00	24.00
1	30	10.00	20.00
1.5	20.5	9.50	19.00
2	10	10.50	21.00
2.5	0	10.00	20.00

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH02/G02

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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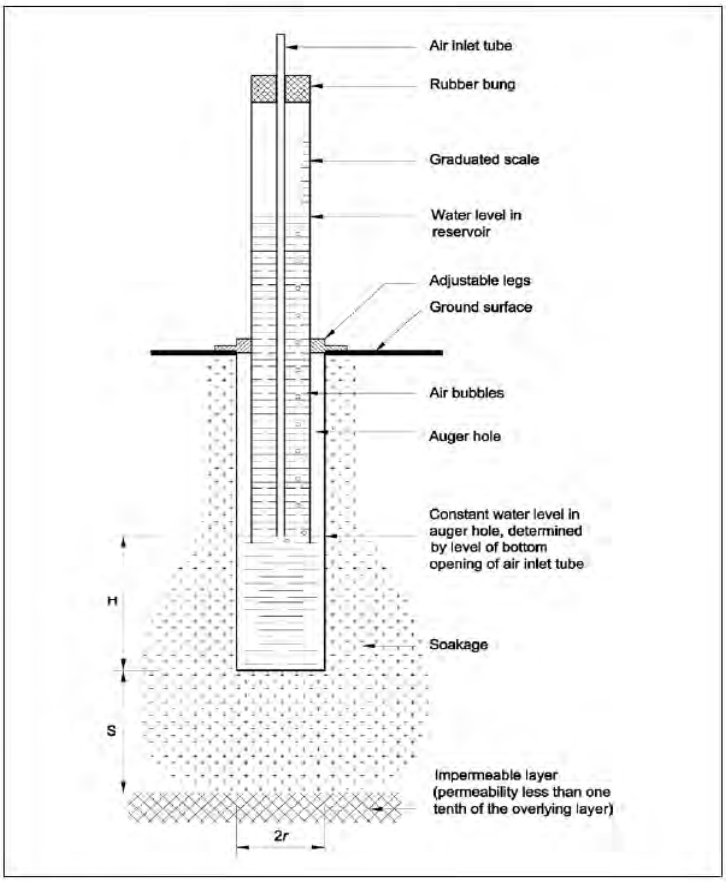
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	42	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	46.5		
2	45.5	1.00	0.50
4	42.5	3.00	1.50
6	41	1.50	0.75
8	39.5	1.50	0.75
10	36	3.50	1.75
12	34	2.00	1.00
14	32	2.00	1.00
16	29.8	2.20	1.10
AVERAGE - LAST 5 READINGS			1.12

Calculation

Steady State Flow	1.12	cm/min
Flow from reservoir (Q)	40.66	cm^3/min
K_{sat}	0.065	cm/min
K_{sat}	1.091E-05	m/s
K_{sat}	**0.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH03/G03

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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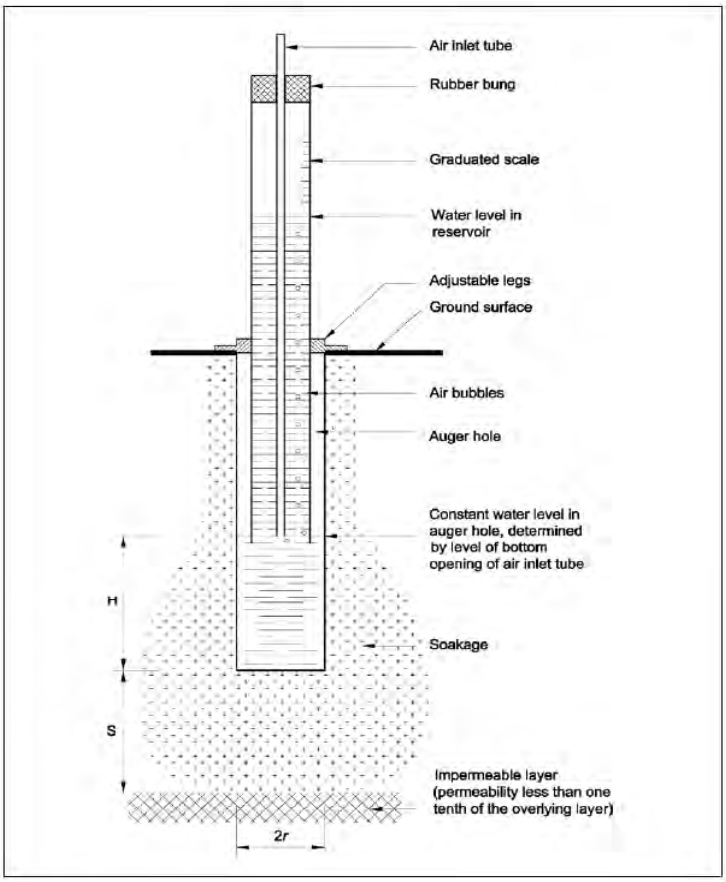
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	57	cm
H	Head of water above base	23	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	71		
0.33	66	5.00	15.15
0.66	59	7.00	21.21
1.33	45	14.00	20.90
1.66	38	7.00	21.21
1.99	28	10.00	30.30
2.33	21	7.00	20.59
2.66	11	10.00	30.30
2.99	1	10.00	30.30
		AVERAGE - LAST 5 READINGS	26.54

Calculation

Steady State Flow	26.54	cm/min
Flow from reservoir (Q)	963.47	cm^3/min
K_{sat}	0.628	cm/min
K_{sat}	1.047E-04	m/s
K_{sat}	**9.05**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH05/G05

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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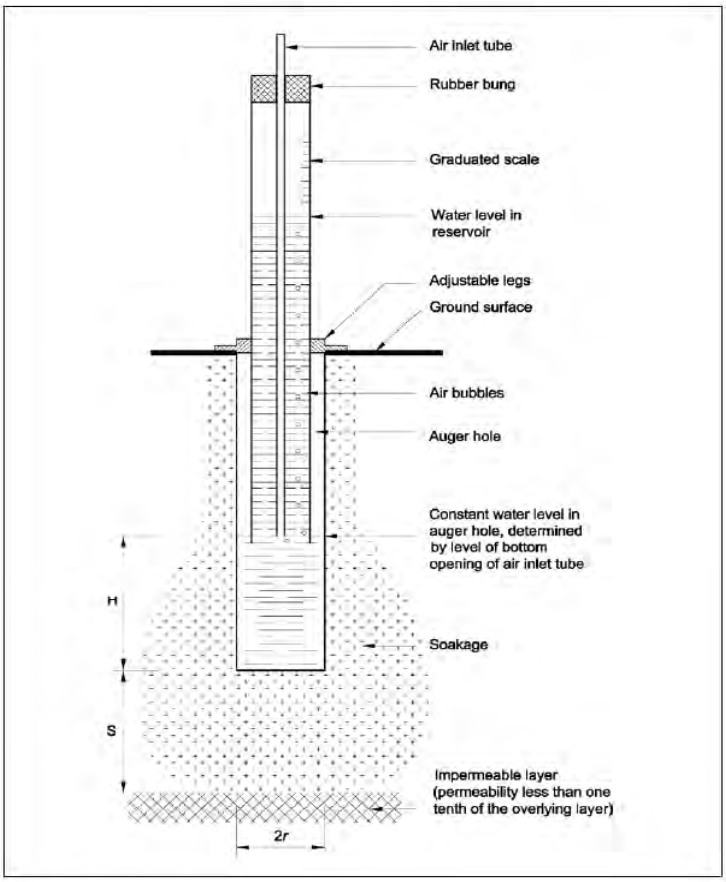
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	44	cm
H	Head of water above base	14	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	53.5		
5	49	4.50	0.90
10	45	4.00	0.80
15	41	4.00	0.80
20	38	3.00	0.60
25	35	3.00	0.60
30	31.5	3.50	0.70
AVERAGE - LAST 5 READINGS			0.70

Calculation

Steady State Flow	0.70	cm/min
Flow from reservoir (Q)	25.41	cm^3/min
K_{sat}	0.031	cm/min
K_{sat}	5.139E-06	m/s
K_{sat}	**0.44**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH09/G09

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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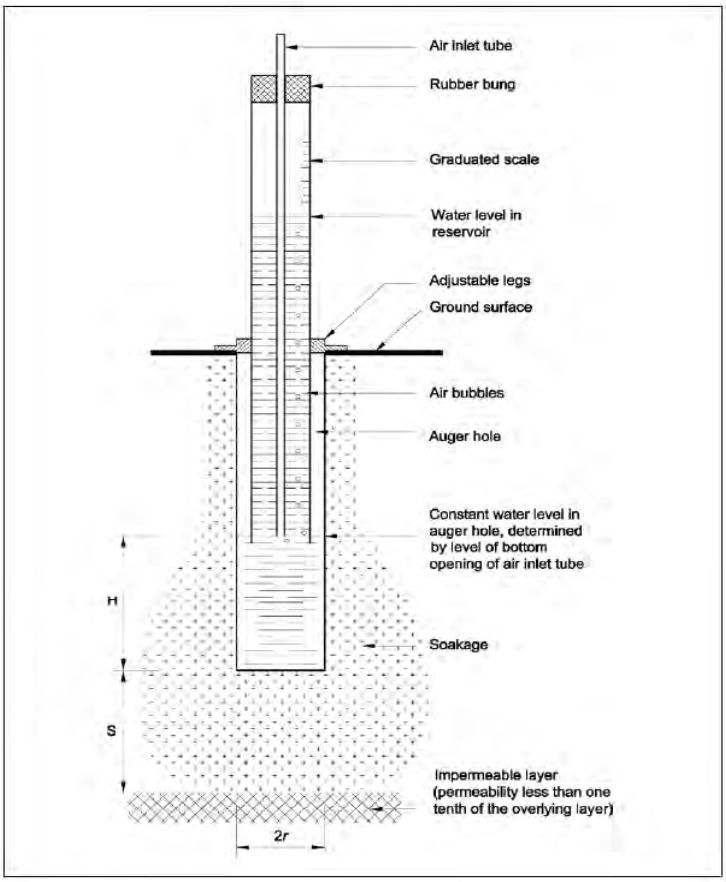
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	52	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	72.5		
1	62	10.50	10.50
2	52.5	9.50	9.50
3	46	6.50	6.50
4	38	8.00	8.00
5	28.5	9.50	9.50
6	23.6	4.90	4.90
7	14.5	9.10	9.10
8	8	6.50	6.50
9	1.5	6.50	6.50
AVERAGE - LAST 5 READINGS			7.30

Calculation

Steady State Flow	7.30	cm/min
Flow from reservoir (Q)	264.99	cm^3/min
K_{sat}	0.274	cm/min
K_{sat}	4.559E-05	m/s
K_{sat}	**3.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH10/G10

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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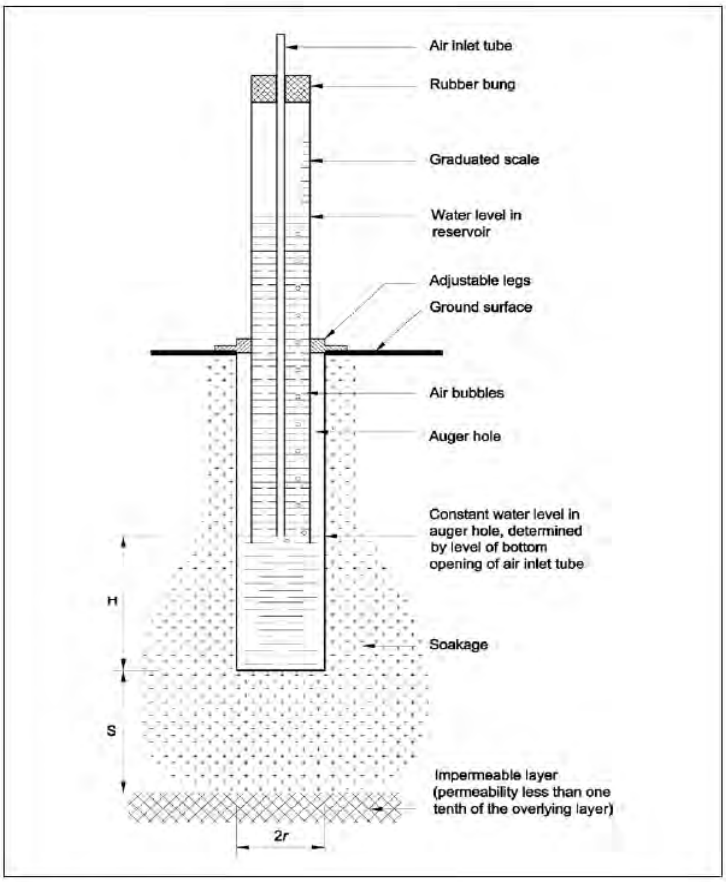
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	47	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	58		
1	53	5.00	5.00
2	50	3.00	3.00
3	44	6.00	6.00
4	40	4.00	4.00
5	36	4.00	4.00
6	32	4.00	4.00
AVERAGE - LAST 5 READINGS			4.20

Calculation

Steady State Flow	4.20	cm/min
Flow from reservoir (Q)	152.46	cm^3/min
K_{sat}	0.245	cm/min
K_{sat}	4.090E-05	m/s
K_{sat}	**3.53**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH15/G07

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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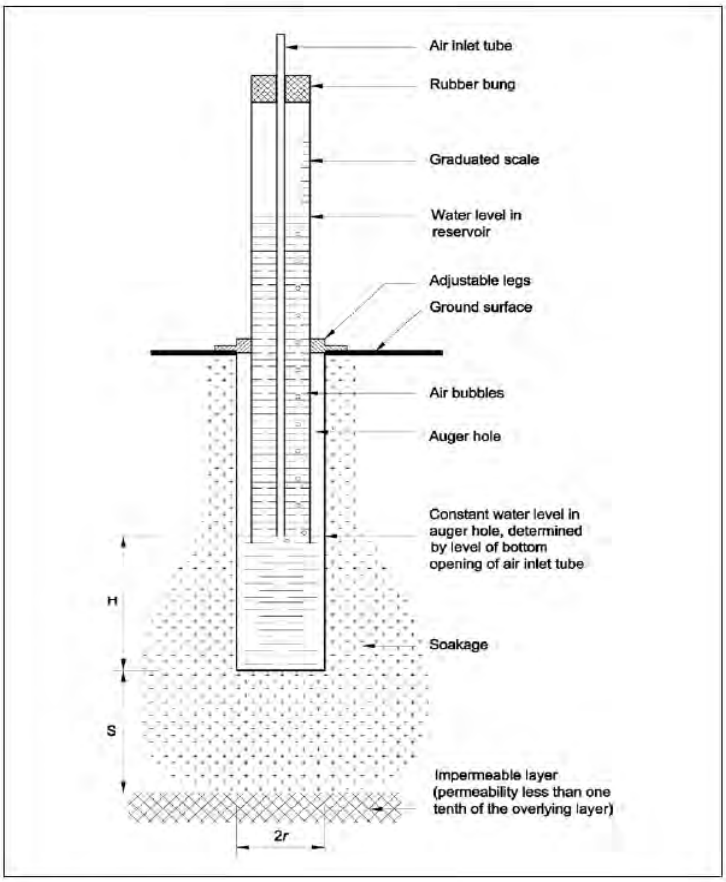
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	53	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	60		
0.5	48	12.00	24.00
1	38	10.00	20.00
1.5	31	7.00	14.00
2	20	11.00	22.00
2.5	12	8.00	16.00
3	2.5	9.50	19.00
AVERAGE - LAST 5 READINGS			18.20

Calculation

Steady State Flow	18.20	cm/min
Flow from reservoir (Q)	660.66	cm^3/min
K_{sat}	0.682	cm/min
K_{sat}	1.137E-04	m/s
K_{sat}	**9.82**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Appendix E: Water Balance

WA Site & Soil Evaluation
Irrigation area sizing

Please read the attached notes before using this spreadsheet

Water Balance for Zero Storage

Site Address:	**Hatch Court and Stirling Crescent, High Wycombe WA**		
Date:	Wednesday, 24 September 2025	**Assessor:**	Tyrone Mardesic

INPUT DATA

Design Wastewater Flow	Q	5,000	L/day	Based on maximum potential occupancy and derived from the Supplement to Regulation 29 and Schedule 9 - Wastewater system loading rates
Design Irrigation Rate	DIR	50.0	mm/day	Based on soil texture class/permeability and derived from Table M1 of AS/NZS 1547:2012
Nominated Land Application Area	L	108	m^2	[1]
Crop Factor	C	0.8-1.0	unitless	Estimates evapotranspiration as a fraction of pan evaporation; varies with season and crop type[2]
Rainfall Runoff Factor	RF	1.0	unitless	Proportion of rainfall that remains onsite and infiltrates, allowing for any runoff
Mean Monthly Rainfall Data		Midland		BoM Station and number
Mean Monthly Pan Evaporation Data		Upper Swan		BoM Station and number or data from the Evaporation Data for Western Australia Report (https://researchlibrary.agric.wa.gov.au/cgi/viewcontent.cgi?article=1058&context=rmtr

Parameter	Symbol	Formula	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Days in month	D		days	31	28	31	30	31	30	31	31	30	31	30	31	**365**
Rainfall	R		mm/month	10	13.1	16.9	40.3	100.1	159.1	162	122.1	74.1	46.7	22.3	10.7	**777.4**
Evaporation	E		mm/month	327	281	241	136	89	63	60	87	110	161	221	303	**2079**
Crop Factor	C		unitless	1.00	1.00	0.90	0.90	0.80	0.80	0.80	0.80	0.90	1.00	1.00	1.00	
OUTPUTS																
Evapotranspiration	ET	ExC	mm/month	327	281	217	122	71	50	48	70	99	161	221	303	**1970.5**
Percolation	B	DIRxD	mm/month	1550.0	1400	1550.0	1500.0	1550.0	1500.0	1550.0	1550.0	1500.0	1550.0	1500.0	1550.0	**18250.0**
Outputs		ET+B	mm/month	1877.0	1681	1766.9	1622.4	1621.2	1550.4	1598.0	1619.6	1599.0	1711.0	1721.0	1853.0	**20220.5**
INPUTS																
Retained Rainfall	RR	RxRF	mm/month	10	13.1	16.9	40.3	100.1	159.1	162	122.1	74.1	46.7	22.3	10.7	**777.4**
Applied Effluent	W	(QxD)/L	mm/month	1435.2	1296.3	1435.2	1388.9	1435.2	1388.9	1435.2	1435.2	1388.9	1435.2	1388.9	1435.2	**16898.1**
Inputs		RR+W	mm/month	1445.2	1309.4	1452.1	1429.2	1535.3	1548.0	1597.2	1557.3	1463.0	1481.9	1411.2	1445.9	**17675.5**
STORAGE CALCULATION																
Storage remaining from previous month			mm/month	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Storage for the month	S	(RR+W)-(ET+B)	mm/month	-431.8	-371.6	-314.8	-193.2	-85.9	-2.4	-0.8	-62.3	-136.0	-229.1	-309.8	-407.1	
Cumulative Storage	M		mm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Maximum Storage for Nominated Area	N		mm	0.00												
	V	NxL	L	0												
LAND AREA REQUIRED FOR ZERO STORAGE			m^2	83	84	89	95	102	108	108	104	98	93	88	84	

MINIMUM AREA REQUIRED FOR ZERO STORAGE: 108 m^2

CELLS

	Please enter data in blue cells
XX	Enter available Land Application Area
XX	Data in yellow cells is calculated by the spreadsheet, DO NOT ALTER THESE CELLS

NOTES

[1] This value should be the largest of the following: land application area required based on the most limiting nutrient balance or minimum area required for zero storage

[2] Values selected are suitable for grass in WA

Appendix F: Laboratory Test Results

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.1, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.1	**Liquid Limit (%)**	**28**
AS 1289.3.2.1	**Plastic Limit (%)**	**23**
AS 1289.3.3.1	**Plasticity Index (%)**	**5**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**2.5**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen:**	**-**

Comments:

Approved Signatory:



Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

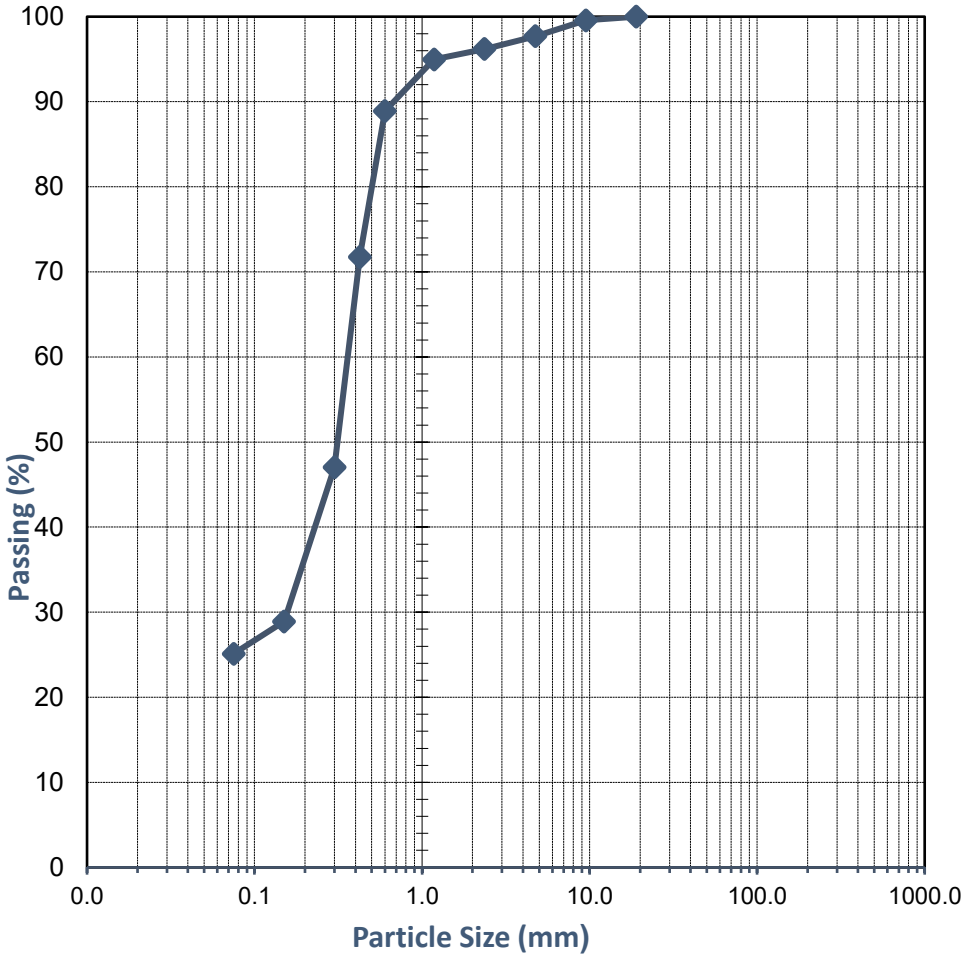
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	98
2.36	96
1.18	95
0.600	89
0.425	72
0.300	47
0.150	29
0.075	25



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

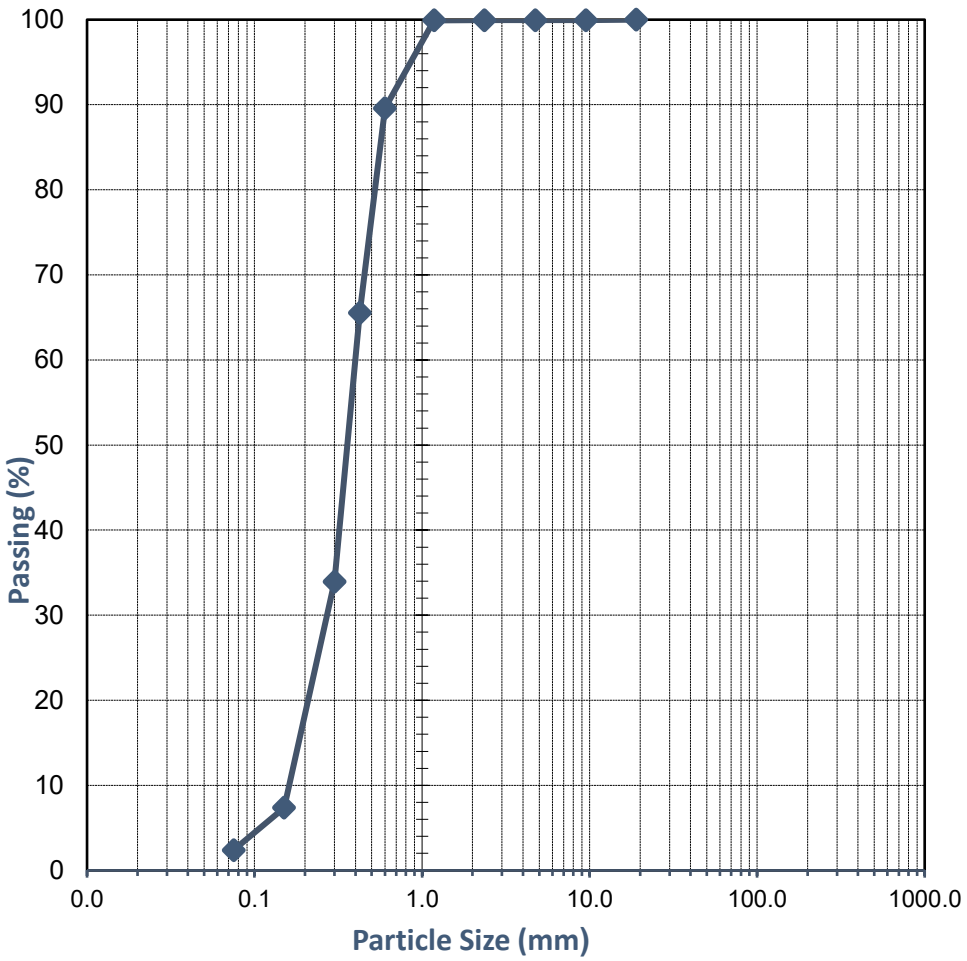
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15433_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15433
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH03 (1.5 - 1.8m)	*Date Tested:*	15/09 - 17/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	100
2.36	100
1.18	100
0.600	90
0.425	66
0.300	34
0.150	7
0.075	2



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.2, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.2	**Liquid Limit (%)**	**46**
AS 1289.3.2.1	**Plastic Limit (%)**	**40**
AS 1289.3.3.1	**Plasticity Index (%)**	**6**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**3.0**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen**	**-**

Approved Signatory:

Name: Danielle Reynolds

Date: 18/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

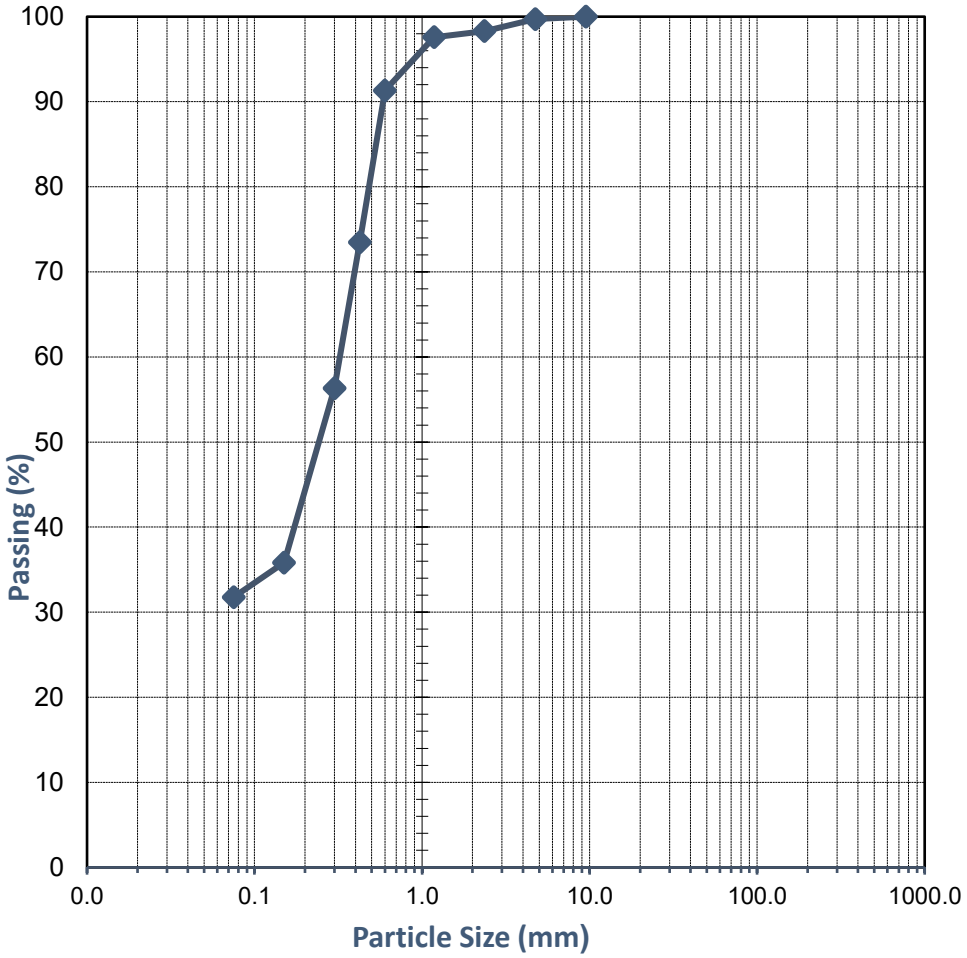
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	98
1.18	98
0.600	91
0.425	73
0.300	56
0.150	36
0.075	32



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

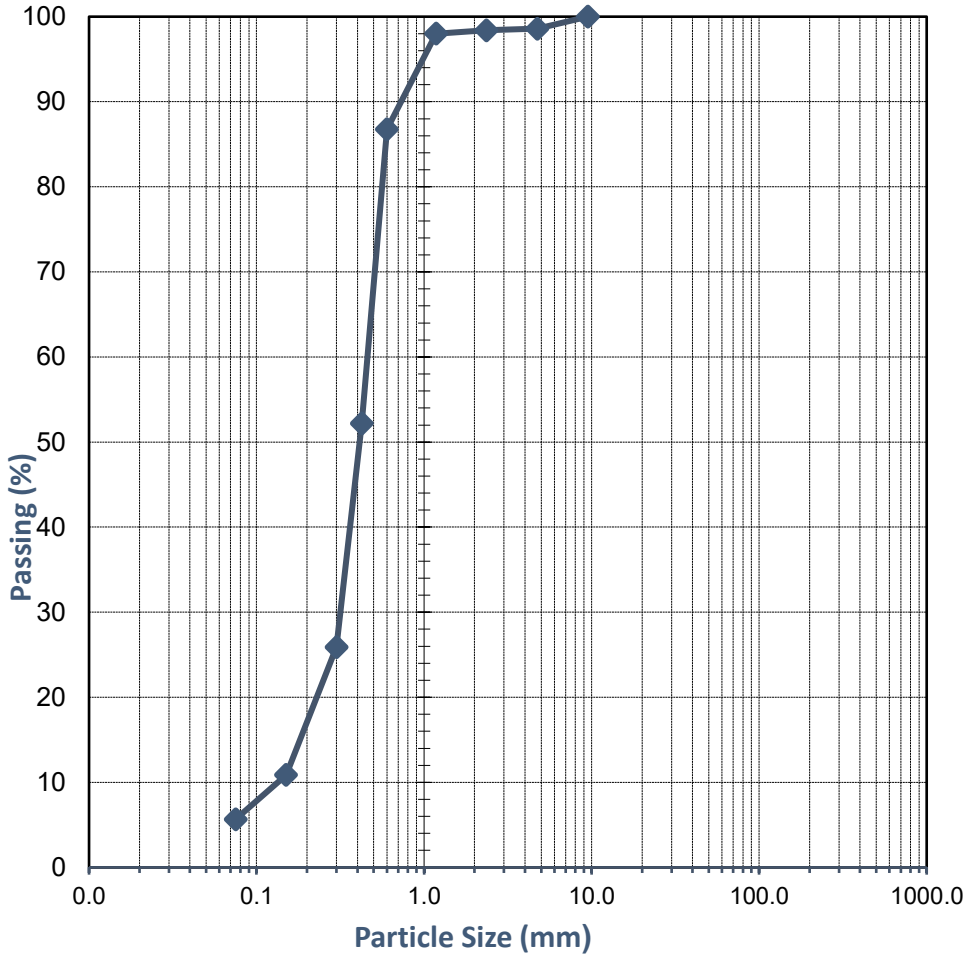
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15435_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15435
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH06 (0.6 - 1.0m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	99
2.36	98
1.18	98
0.600	87
0.425	52
0.300	26
0.150	11
0.075	6



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

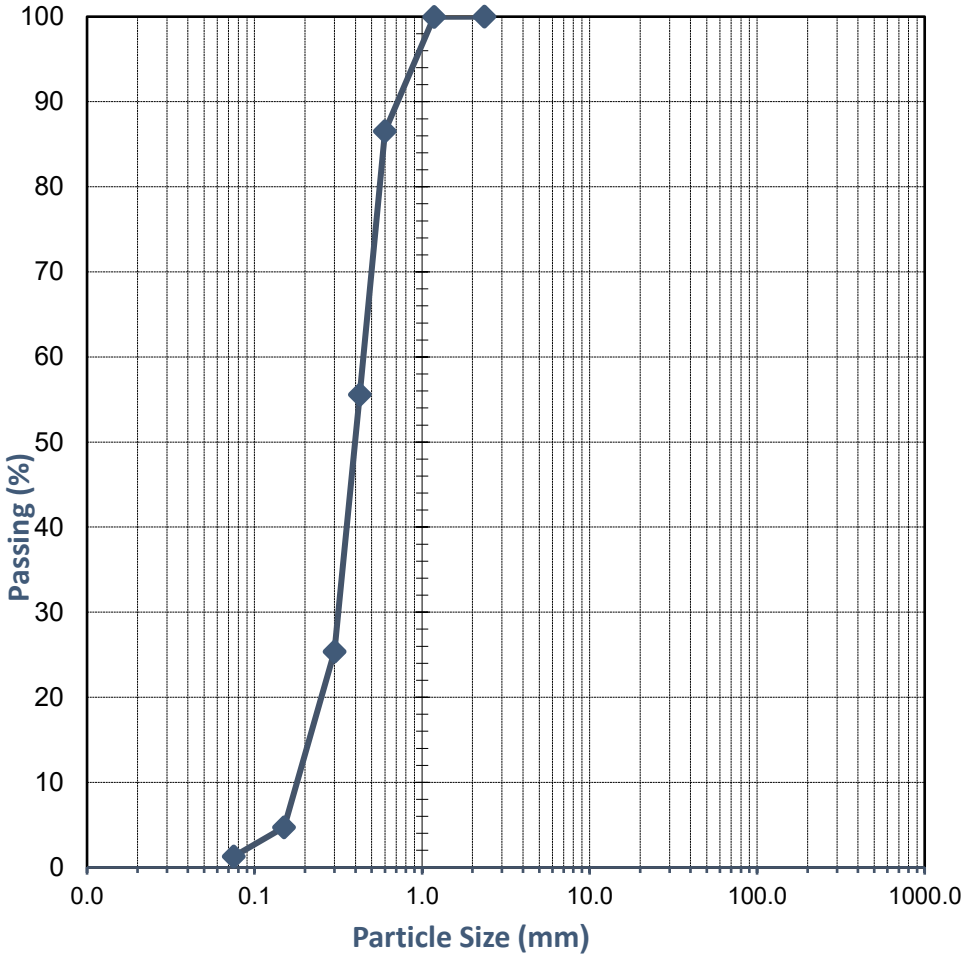
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15436_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15436
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH10 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	
2.36	100
1.18	100
0.600	87
0.425	56
0.300	25
0.150	5
0.075	1



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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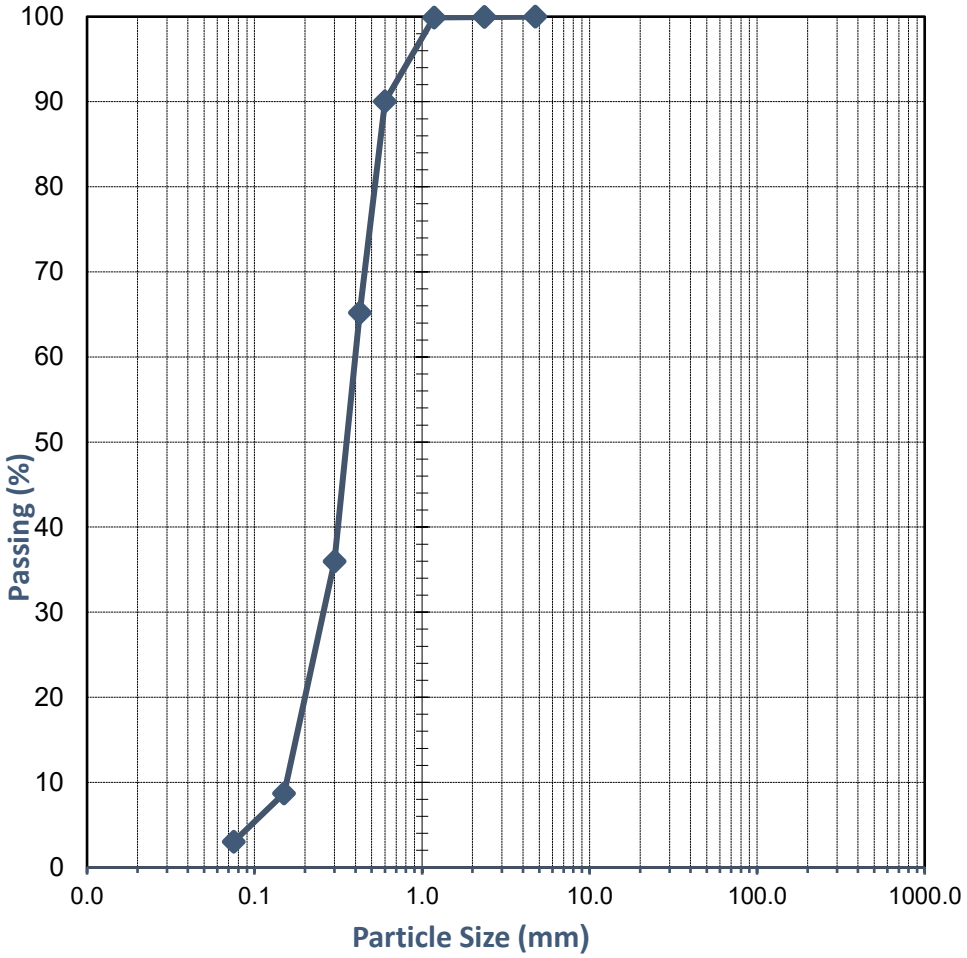
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15437_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15437
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G07 (0.5 - 0.6m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	100
2.36	100
1.18	100
0.600	90
0.425	65
0.300	36
0.150	9
0.075	3



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

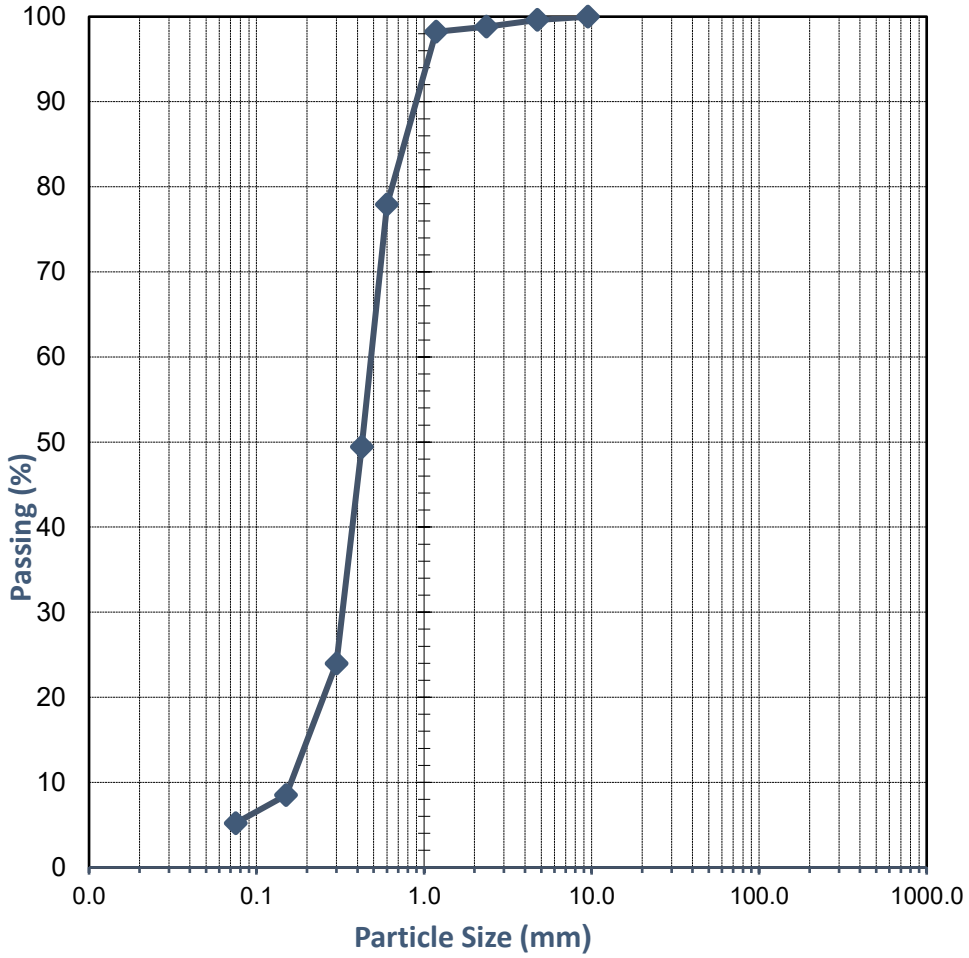
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15438_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15438
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G10 (0.4 - 0.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	99
1.18	98
0.600	78
0.425	49
0.300	24
0.150	8
0.075	5



Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.4.1.1

Client:	Dynamic Planning and Developments	*Ticket No.*	C597
Client Address:	-	*Report No.*	WC25.779-782_1_OMC
Project:	Proposed HCLIA	*Sample No.*	WC25.779-782
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	Not Specified
Sample Identification:	Various - see below	*Date Tested:*	16/09/2025 - 17/09/2025

TEST RESULTS - Organic Matter Content of Soil - Normal Method

Sampling Method: **Sampled by Client, Tested as Received**

Sample Number	Sample Identification	Material Description	Organic Matter (%)
WC25.779	BH04 (1 - 1.4m)	Sandy Silt	10.7
WC25.780	BH06 (0.6 - 1.0m)	Sand	1.2
WC25.781	G07 (0.5 - 0.6m)	Sand	0.4
WC25.782	G10 (0.4 - 0.5m)	Sand	1.1

Comments:

Approved Signatory:

Name: Courtney Watt

Date: 18/September/2025

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Envirolab Services (WA) Pty Ltd trading as MPL Laboratories
ABN 53 140 099 207
7-11 Catalano Road Canning Vale WA 6155
ph +61 8 9317 2505
lab@mpl.com.au
www.mpl.com.au

Certificate of Analysis PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Contact	Laboratory
Address	235 Bank Street, WELSHPOOL, WA, 6101

Sample Details

Your Reference	S18630 / Proposed HCLIA
Number of Samples	5 Soil
Date Samples Received	12/09/2025
Date Instructions Received	12/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	23/09/2025
Date of Issue	19/09/2025

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Authorisation Details

Results Approved By	Lien Tang, Assistant Operations Manager Lucas Yii, Inorganics Team Leader Varsha Ho Wing, Inorganics and Metals Supervisor
Laboratory Manager	Michael Kubiak

Certificate of Analysis PGI0989

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGI0989-01	WG25.15432 / BH02 (1-1.5m)	Soil	12/09/2025	12/09/2025
PGI0989-02	WG25.15434 / BH04 (1-1.4m)	Soil	12/09/2025	12/09/2025
PGI0989-03	WG25.15435 / BH06 (0.6-1.0m)	Soil	12/09/2025	12/09/2025
PGI0989-04	WG25.15437 / G07 (0.5-0.6m)	Soil	12/09/2025	12/09/2025
PGI0989-05	WG25.15438 / G10 (0.4-0.5m)	Soil	12/09/2025	12/09/2025

Certificate of Analysis PGI0989

Inorganics - General Physical Parameters (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
pH	pH units		8.4	4.8	7.3	7.8	7.7
Electrical Conductivity	µS/cm	2.0	300	1000	110	14	73

Certificate of Analysis PGI0989

PBI/PRI (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
Phosphorus Retention Index	-		21	200	4.0	0.50	1.5

Method Summary

Method ID	Methodology Summary
AGRI-003_PRI	Phosphorous Retention index (PRI) is the ratio of adsorbed phosphorus to the equilibrium concentration. Phosphorus is extracted using KCl and determined colourimetrically. Result value is used to calculate PRI as per Allen and Jefferey.
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed. Blanks may yield EC readings >1µS/cm, this is likely due to adsorption of Carbon Dioxide while the blank sample is sat on the instrument autosampler prior to analysis. The values are generally insignificant (<5µS/cm) compared to most actual sample conductivities.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from the latest "Australian Drinking Water Guidelines", published by NHMRC. No guideline values have been set for Total Coliforms in drinking water. Increased concentrations should be investigated. Total Coliforms are not considered useful as indicators of the presence of faecal contamination.

Where we have provided guideline values eg. ADWG Health Value, it is the responsiblity of the reader to decide if the water is fit for consumption. Please note that the tests we have conducted are just a selection of common tests to give you a general idea of drinking water quality. There are many other tests included in the ADWG that we have not tested for.

Data Quality Assessment Summary PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Your Reference	S18630 / Proposed HCLIA
Date Issued	19/09/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary PGI0989

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
EC | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
pH | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
PRI | Soil	1-5	12/09/2025	16/09/2025	18/09/2025	Yes

Quality Control PGI0989

INORG-001|Inorganics - General Physical Parameters (Soil) | Batch BGI2590

Analyte	Units	PQL	Blank	DUP1 PGI0989-03 Samp | QC | RPD %	LCS %
pH	pH units		5.9	7.3 | 7.5 | 2.43	102
Electrical Conductivity	µS/cm	2.0	<2.0	108 | 108 | 0.00	98.4

AGRI-003_PRI|PBI/PRI (Soil) | Batch BGI2709

Analyte	Units	PQL	Blank	DUP1 PGI0989-01 Samp | QC | RPD %	LCS %
Phosphorus Retention Index	-		0.00	20.5 | 20.3 | 1.08	75.6

Understanding your Report

1. EXPECTATIONS OF THE REPORT

The following sections have been prepared to clarify what is and is not provided in your report. It is intended to inform you of what your realistic expectations of this report should be and how to manage your risks associated with the conditions on site.

Geotechnical engineering and environmental science are less exact than other engineering and scientific disciplines. We include this information to help you understand where our responsibilities begin and end. You should read and understand this information. Please contact us if you do not understand the report or this explanation. We have extensive experience in a wide variety of projects and we can help you to manage your risk.

2. THIS REPORT RELATES TO PROJECT-SPECIFIC CONDITIONS

This report was developed for a unique set of project-specific conditions to meet the needs of the nominated client. It took into account the following:

- the project objectives as we understood them and as described in this report;
- the specific site mentioned in this report; and
- the current and proposed development at the site.

It should not be used for any purpose other than that indicated in the report. You should not rely on this report if any of the following conditions apply:

- the report was not written for you;
- the report was not written for the site specific to your development;
- the report was not written for your project (including a development at the correct site but other than that listed in the report); or
- the report was written before significant changes occurred at the site (such as a development or a change in ground conditions).

You should always inform us of changes in the proposed project (including minor changes) and request an assessment of their impact.

Where we are not informed of developments relevant to your report, we cannot be held responsible or liable for problems that may arise as a consequence.

Where design is to be carried out by others using information provided by us, we recommend that we be involved in the design process by being engaged for consultation with other members of the project team. Furthermore, we recommend that we be able to review work produced by other members of the project team that relies on information provided in our report.

3. DATA PROVIDED BY THIRD PARTIES

Where data is provided by third parties, it will be identified as such in our reports. We necessarily rely on the completeness and accuracy of data provided by third parties in order to draw conclusions presented in our reports. We are not responsible for omissions, incomplete or inaccurate data associated with third party data, including where we have been requested to provide advice in relation to field investigation data provided by third parties.

4. SOIL LOGS

Our reports often include logs of intrusive and non-intrusive investigation techniques prepared by Galt. These logs are based on our interpretation of field data and laboratory results. The logs should only be read in conjunction with the report they were issued with and should not be re-drawn for inclusion in other documents not prepared by us.

5. THIRD PARTY RELIANCE

We have prepared this report for use by the client. This report must be regarded as confidential to the client and the client's professional advisors. We do not accept any responsibility for contents of this document from any party other than the nominated client. We take no responsibility for any damages suffered by a third party because of any decisions or actions they may make based on this report. Any reliance or decisions made by a third party based on this report are the responsibility of the third party and not of us.

6. CHANGE IN SUBSURFACE CONDITIONS

The recommendations in this report are based on the ground conditions that existed at the time when the study was undertaken. Changes in ground conditions can occur in numerous ways including anthropogenic events (such as construction or contaminating activities on or adjacent to the site) or natural events (such as floods, groundwater fluctuations or earthquakes). We should be consulted prior to use of this report so that we can comment on its reliability. It is important to note that where ground conditions have changed, additional sampling, testing or analysis may be required to fully assess the changed conditions.

7. SUBSURFACE CONDITIONS DURING CONSTRUCTION

Practical constraints mean that we cannot know every minute detail about the subsurface conditions at a particular site. We use professional judgement to form an opinion about the subsurface conditions at the site. Some variation to our evaluated conditions is likely and significant variation is possible. Accordingly, our report should not be considered as final as it is developed from professional judgement and opinion.

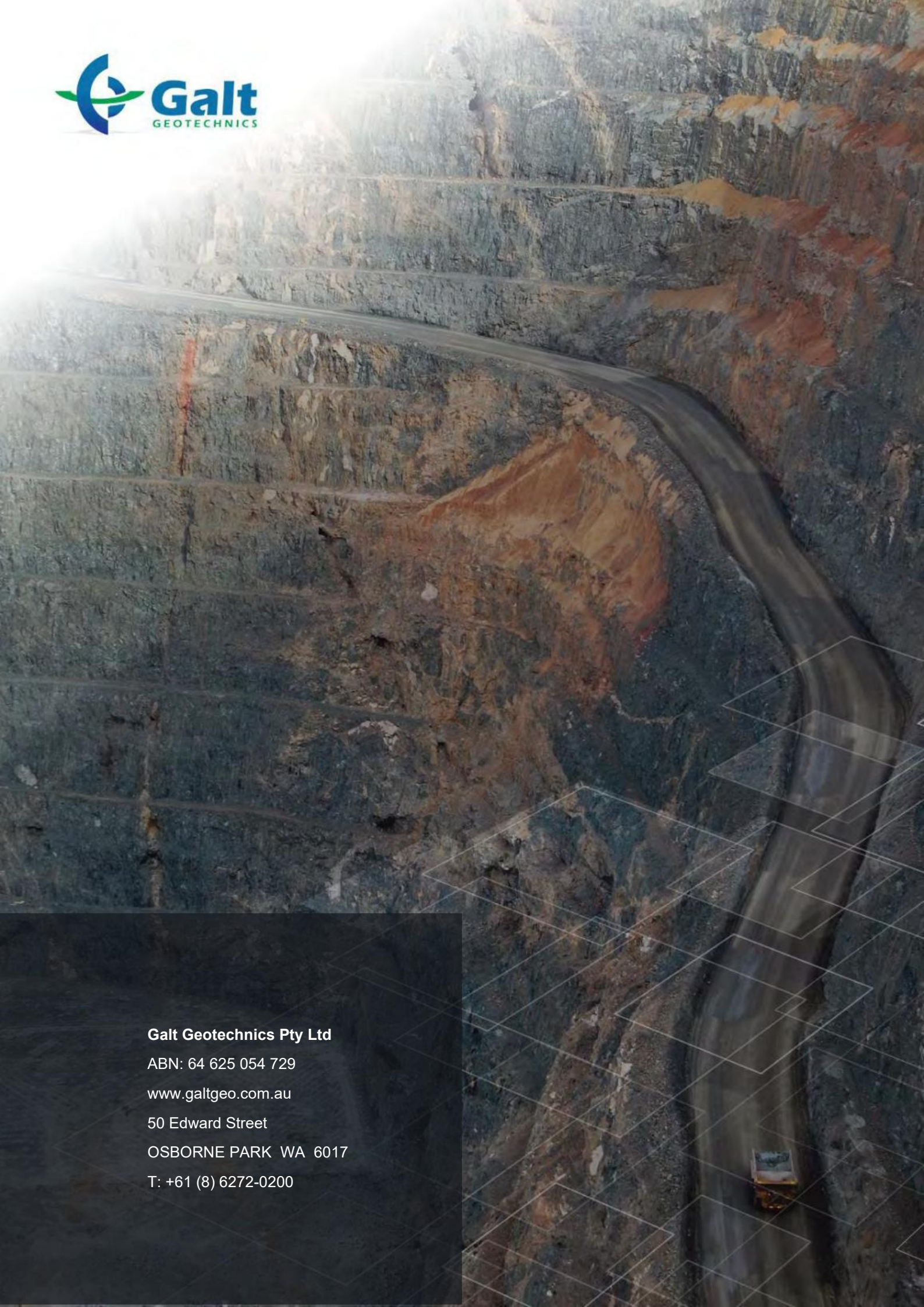
The most effective means of dealing with unanticipated ground conditions is to engage us for construction support. We can only finalise our recommendations by observing actual subsurface conditions encountered during construction. We cannot accept liability for a report's recommendations if we cannot observe construction.

8. ENVIRONMENTAL AND GEOTECHNICAL ISSUES

Unless specifically mentioned otherwise in our report, environmental considerations are not addressed in geotechnical reports. Similarly, geotechnical issues are not addressed in environmental reports. The investigation techniques used for geotechnical investigations can differ from those used for environmental investigations. It is the client's responsibility to satisfy themselves that geotechnical and environmental considerations have been taken into account for the site.

Geotechnical advice presented in a Galt Environmental report has been provided by Galt Geotechnics under a sub-contract agreement. Similarly, environmental advice presented in a Galt Geotechnics report has been provided by Galt Environmental under a sub-contract agreement.

Unless specifically noted otherwise, no parties shall draw any inferences about the applicability of the Western Australian state government landfill levy from the contents of this document.



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Appendix C REPORTS

FORMER LWMS AND SURROUNDING WATER MANAGEMENT

EXECUTIVE SUMMARY

This Local Water Management Strategy (LWMS) has been prepared to support a Scheme Amendment for Hatch Court - Stirling Crescent, High Wycombe (the site) being made by Hames Sharley. The site is currently zoned *urban* under the Metropolitan Region Scheme (MRS) and zoned *urban development* under the Local Planning Scheme No 3 (LPS 3) (District Scheme). The Scheme Amendment, will seek rezoning of the lots under the Local Planning Scheme, from '*Urban Residential*' to '*Light Industrial*'.

The total area of the site is approximately 31 hectares and bound by Adelaide St to the north, Stirling Crescent to the east, Kalamunda Rd to the south and Perth Airport land to the west, The Scheme Amendment proposal for the site seeks to create a light industrial development consisting of 16 lots, varying in size from 1 ha to 3 ha, and include 18m wide road reserves to service the lots. The existing resource enhancement wetlands on site will be rehabilitated and protected and a site specific wetland management plan prepared and implemented as part of the development.

The current land use of the site is rural residential. The topography of the site is relatively flat, varying from 24.0 mAHD to 20.0 mAHD. The majority of the site consists of Bassendean Sands but three large areas of peaty clay soils associated with the resource enhancement sumpland wetlands (DPaW, 2015) and drainage easement are present on site. High to moderate risk of acid sulfate soils (Class III ASS risk as per DER, 2016) occurring within 3 m of the natural ground surface within these areas exist and shall be further investigated as part of future development stages.

Groundwater investigations conducted on site (ENV Australia, 2009) indicated that depth to maximum groundwater levels ranged from 0.45 to 2.14 m and the geotechnical and engineering services reports (Brown Geotechnical, 2014 and Development Engineering Consultants, 2014) indicated that imported clean fill sand ranging from 1 to 3m in depth will be required to achieve appropriate separation between finished levels and the groundwater.

In terms of water management, sustainable water use within the development will be achieved via the use of water efficient fixtures and fittings in buildings, water wise landscaping on lot and off lot and implementation of rainwater tanks to manage roof runoff and augment non-potable use in buildings.

The stormwater management strategy is based on detention and treatment of the 1 year 1 hour ARI event at source using a combination of swales and bioretention systems and attenuation of post development flows up to 1 in 100 year ARI event, (i.e. maintaining post development flow rates at pre-development rates) via rainwater tanks (on lot) and above and below ground detention and infiltration (on and off-lot). Conveyance of the 5 year ARI event

from road and upstream catchments will be achieved via a combination of piped system and through the rehabilitation of the existing open drain into a living stream within the boundaries of the resource enhancement wetland and buffer.

Future development of the site is expected to occur over a number of years. There are likely to be changes to water management best practices in this time, as such there may be a need to modify the approach taken in this document to reflect this. Any changes will be addressed during the development phase, within Urban Water Management Plans (UWMP) prepared for individual stages of the development. Such UWMPs will need to comply with the requirements of this LWMS and those set by the overarching Kalamunda Rd District Water Management Strategy (ENV Australia, 2009).

1.0 INTRODUCTION

Syrinx Environmental was commissioned by Hames Sharley to prepare a Local Water Management Strategy (LWMS) to support a Scheme Amendment for Lots 1, 8, 9 and 1499 Stirling Crescent, Lots 10 – 16 and 51 – 53 Hatch Court and Lot 200 and 201 Kalamunda Road, High Wycombe (hereafter referred to as the site). The Scheme Amendment for the site will seek rezoning of the lots under the Local Planning Scheme from *'Urban Residential'* to *'Light Industrial'*.

The site is approximately 31 hectares in area and bound by Adelaide St to the north, Stirling Crescent to the east, Kalamunda Rd to the south and Perth Airport land to the west, in High Wycombe, Shire of Kalamunda (Figure 1).

This LWMS has been prepared in general accordance with the overarching *Kalamunda Road District Water Management Strategy* (ENV Australia, 2009), the *Better Urban Water Management* (WAPC, 2008) and the *Stormwater Management Manual for WA* (DoW, 2007), and provides an integrated whole of water cycle management approach to support the Scheme Amendment. The proposed light industrial development is currently in concept design stage, therefore it is expected that further investigations will be required in future design stages to support future Urban Water Management Plans (UWMPs).

1.1 INTEGRATED WHOLE OF WATER CYCLE MANAGEMENT PRINCIPLES

The processes of integrating whole of water cycle management in new developments is described in the *Better Urban Water Management* (WAPC, 2008) with due consideration given to urban water in different stages of the planning system in Western Australia. The key principles of integrated water cycle management as outlined in the *State Planning Policy 2.9 Water Resources* (Government of WA, 2006) are:

1. Consideration to all water resources, including wastewater, in water planning;
2. Integration of water and land use planning;
3. The sustainable and equitable use of all water sources, having consideration to the needs of all water users, including the community, industry and the environment;
4. Integration of human water use and natural water processes; and
5. A whole of catchment integration of natural resource use and management.

Achieving integrated urban water management can be facilitated through the use of Water Sensitive Urban Design (WSUD) employed during planning. General objectives of WSUD (WAPC, 2008) are:

1. To manage a water regime;

2. To maintain and where possible enhance water quality;
3. To encourage water conservation;
4. To maintain and where possible enhance water related environmental values; and
5. To enhance water related recreational and cultural values.

The above mentioned principles and objectives are further addressed in Section 8.0 of this report.

1.2 PLANNING BACKGROUND

The site is zoned *urban* under the Metropolitan Region Scheme (MRS) and zoned *urban development* under the Local Planning Scheme No 3 (LPS 3) (District Scheme).

This LWMS has been prepared as part of the Scheme Amendment and is consistent with the planning framework detailed in the Better Urban Water Management (WAPC 2008). The context of this document within the planning framework is demonstrated in Table 1.

Table 1 Context of this document within the land planning and water planning processes.

Planning Stage	Planning Document	Supporting Urban Water Management Document
Metropolitan Region Scheme - Scheme Amendment	MRS Scheme amendment Document	Kalamunda Rd District Water Management Strategy (ENV Australia, 2009)
Local	Local Structure Plan / Local Planning Scheme Amendment	Hatch Court - Stirling Crescent Scheme Amendment Local Water Management Strategy **This document**
Subdivision	Subdivision Proposal	Urban Water Management Plan (for individual stages of development) **Future preparation by developers**

1.3 PREVIOUS STUDIES

Previous relevant studies covering land planning, water, environmental and geotechnical aspects of the site include:

- *Kalamunda Rd District Water Management Strategy* (ENV Australia, 2009).
- *Hatch Court - Stirling Crescent High Wycombe Local Water Management Strategy* (Hyd2o Hydrology, 2015).

- *Geotechnical Investigation for Local Structure Plan Stirling Crescent / Hatch Court High Wycombe Western Australia* (Brown Geotechnical 2014).
- *Hatch Court - Stirling Crescent Local Structure Plan* (Planning Solutions, 2015)
- *Hatch Court - Stirling Crescent High Wycombe Environmental Assessment Report* (PGV Environmental 2014a).
- *Hatch Court - Stirling Crescent High Wycombe Review of Wetland Management Category and Boundary* (PGV Environmental, 2014b).

2.0 PROPOSED DEVELOPMENT

The proposed light industrial development consists of 16 lots varying in size from 1 ha to 3 ha. The development will maintain 18m wide road reserves to service the lots. A concept development plan has been provided by Hames Sharley and is shown in Figure 2.

The proposed development has considered the existing adjacent industrial developments to the east, (within Perth Airport's land), and to the north (north of Adelaide Street), and the pre-development site features such as the large lot sizes, the presence of three resource enhancement wetlands, which will be retained and protected with appropriate buffers (see Section 4.2), the modified drainage line dissecting the northern portion of the site west to east, and finally the presence of shallow groundwater and variety of soil conditions, which will be addressed via imported fill and subsoil drainage (see Section 6.1). The proposed development has also been guided by the overarching *Kalamunda Rd District Water Management Strategy*.

3.0 DESIGN CRITERIA

Key design criteria for the development have been guided by the following documents:

- *Better Urban Water Management* (WAPC 2008);
- *Kalamunda Rd District Water Management Strategy* (ENV Australia, 2009);
- *Stormwater Management Manual for WA* (Department of Water, 2007); and
- *Decision Process for Stormwater Management in WA* (Department of Water 2009).
- *On-Site Stormwater Detention: Commercial, Industrial, Institutional and Community Developments. General conditions, specifications and guidelines for the construction of on-site stormwater detention facilities (Shire of Kalamunda, 2011)*

3.1 WATER AND WASTEWATER SERVICING

Water efficiency / demand management: reduction of overall consumption and reduction in water wastage or wasteful uses by using technologies, appliances and processes that increase the efficiency of water use.

Fit for purpose water supply: incorporation of harvesting, recovery, use and reuse of alternative water sources for the most beneficial purpose. Water sources available on-site are: rainwater, groundwater, stormwater and wastewater. In accordance with best practice, the cleanest water should be used for the cleanest purposes where possible (i.e. the '*fit for purpose*' approach).

Wastewater Servicing: provision of a reticulated wastewater system which meets agency requirements.

Stormwater management: The stormwater management strategy for this site has been developed with the following design objectives:

- Detention and treatment of the 1 year 1 hour ARI event (or initial 17mm of rain) as close to source as possible;
- Lot stormwater not to be discharged to adjoining properties;
- Conveyance of the 5 year peak ARI event within pipe/swale systems; and
- Attenuation of post development increased flows up to 1 in 100 year ARI event, i.e. maintaining flow rates at pre-development rates.

4.0 PRE DEVELOPMENT ENVIRONMENT

The 31 hectare site is bound by Adelaide St to the north, Stirling Crescent to the east, Kalamunda Rd to the south and Perth Airport land to the west, in High Wycombe, Shire of Kalamunda (Figure 1).

The current site use consists of rural residential lots. The site contains grass covered paddocks, residential buildings, trees and shrub vegetation. A few ornamental water bodies are present within private lots. Three resource enhancement wetlands, to be retained, protected and managed, are present on site and these are further discussed in Section 4.2. An open drain connects the two northern wetlands, traversing the northern portion of the site from east to west, just north of Hatch Court. The southern portion of lot 200 currently receives road runoff from Stirling Crescent.

4.1 TOPOGRAPHY

The site is relatively flat with minor contour variations ranging from 24 m AHD (metres Australian Height Datum) to 20 mAHD, and a general fall to the west (Figure 3). A gentle depression and open channel runs from east to west across the site with elevations of 21.0 mAHD at the eastern boundary to 20mAHD at the western boundary. The northern boundary of the site sits around 24.0 mAHD, while the southern boundary sits around 23.0 mAHD. The northern portion of the site falls towards the open channel. Topographic data for the site was obtained from the *Perth Groundwater Atlas* (DoW, 2004).

4.2 WETLAND CLASSIFICATION

According to the geomorphic wetland, Swan Coastal Plain dataset (WA Atlas, Landgate Shared Land Information Platform), three resource enhancement wetlands (sumplands) are present on site (Figure 4). Two of these resource enhancement sumplands (Unique Feature Identifier UFI 15939 and 15940) are located on the northern portion of the site and form part of the existing drainage line, which transverses the site east to west. The third resource enhancement sumpland (UFI 15778) is located in the central / south-eastern portion of the site. Resource enhancement wetlands are classified as wetlands that may have been partially modified, but still support substantial ecological attributes and functions (EPA, 2008). The management objectives for these wetlands include, revegetation protection and

The remainder of the site, except for the northwest corner, is classified as multiple use wetlands (sumplands UFI 15777, 15780 and 15898 and damplands UFI 15267 and 15779). Multiple use wetlands are classified as wetlands that are significantly degraded, possessing few natural attributes and limited human-use interest (EPA, 2008).

The boundary of wetlands, including a 30m buffer zone to protect the resource enhancement wetlands, as defined by PGV Environmental (2014), is illustrated in Figure 4. All resource enhancement wetlands will be retained within the proposed development, enhanced via weed control and protected by fencing and signage and (as discussed in Section 7.0).

4.3 DER CONTAMINATED SITE REGISTRY

A Basic Summary of Records Request was conducted online, within the DER database of known contaminated sites. The search did not identify the site as a known contaminated site, either prior to, or after, the commencement of the *Contaminated Sites Act 2003*.

It is important to note that the database does not contain information pertaining to other classifications, including sites classified as '*report not substantiated*', '*possibly contaminated – investigation required*', '*not contaminated – unrestricted use*' and '*decontaminated*'.

The closest DER registered contaminated site is located approximately 1.0 km to the northeast of the proposed development, at street address 390 Stirling Crescent, Hazelmere, WA 6055, classified as *Remediated for restricted use* due to the presence of metals and hydrocarbons (such as from degraded diesel or oil) in groundwater.

4.4 SOILS AND GEOLOGY

Geological information for the area was obtained from the *Geological Survey of Western Australia (GSWA), 1:50,000 Environmental Geology Series Maps* (Gozzard, 1986) and is shown in Figure 5. Regional mapping indicates that the site is characterised by areas of the following geological units:

- S8 - Sand - white to pale grey at surface, yellow at depth, fine-medium grained, moderately sorted, subangular and subrounded, minor heavy minerals of Aeolian origin. (Bassendean Sand);
- S10 - Sand - as S8 over sandy clay to clayey sands of the Guildford Formation of Aeolian origin (Bassendean Sand over Guildford Formation); and
- Cps - Peaty Clay - dark grey to black with variable sand content of lacustrine origin.

The underlying Guildford formation has low permeability, is associated with a high water table and is prone to flooding. The peaty clay unit is associated with local depressions. (Gozzard, 1986).

Brown Geotechnical completed a detailed geotechnical investigation of the site in August 2014 (Brown Geotechnical 2014) for Marwon Pty Ltd. A total of 43 excavation pits were profiled to a depth of 2.5 m below ground level (mBGL). Topsoil was present over the majority of the site to a maximum depth of 0.4 mBGL and average thickness of approximately 0.2m. The top soil was underlain by (Brown Geotechnical 2014):

- Organic Deposits - consisting of loose dark grey and black organic rich silty sand deposits between 0.4 - 1.0 m thick in test holes near the wetlands and open drain/ stream area.
- Fill material - uncontrolled fill consisting of dense brown clayey sand with some building rubble and organics. This material was observed near low lying areas / wetlands and likely used to raise ground levels for paddocks.
- Silty Sands - generally encountered below the peaty organic deposits associated with wetlands and low lying areas and also present below 1.5m depth under layer of coffee rock in the northern portion of the site.
- Sands - medium dense, medium grained, grey sand present below the topsoil or fill material in the majority of the site with the exception of the wetland areas.

- Coffee Rock - consisting of dense, weakly cemented, fine to medium grained, dark brown iron rich, silty sand coffee rock was present below 2m depth in the central portion of the site and present intermittently below 1.5m in the northern portion of the site.

Brown Geotechnical (2014) indicated that the majority of the site soils presented good drainage characteristics, with permeability of the in-situ sands ranging from $4x10^{-4}$ m/s to $5x10^{-4}$ m/s, typical of the Bassendean sands ($1x10^{-4}$ to $1x10^{-5}$ m/s). The clayey sand fill material and silty sands associated with the low lying peaty areas (wetlands) presented poor drainage characteristics.

4.5 ACID SULFATE SOILS

Acid Sulfate Soils are naturally occurring soils, sediment and peats that contain iron sulfide, predominantly in the form of pyrite materials. These soils are commonly found in low-lying coastal land, estuarine and saline wetlands, and freshwater groundwater-dependent wetlands in WA (DER, 2015).

The environmental risks associated with ASS are through oxidation, as a result of direct exposure to oxygen (e.g. open excavations), or from the lowering of the water table during dewatering (e.g. dewatering operations for construction projects). When left undisturbed in a benign, anoxic state (PASS), there is a relatively low risk to the environment and human health.

When disturbed (AASS), oxygen from the atmosphere reacts with iron sulfides in the soil, resulting in the production of sulfuric acid. This acidity releases elements such as metals and nutrients from the soil profile, which can then be mobilised and transported to waterways, wetlands and groundwater systems. This has the potential to cause significant environmental and economic impacts including fish kills, contamination of groundwater resources, and corrosion of concrete and steel infrastructure.

A review of maps identifying the risk and presence of ASS in Western Australia, developed by the DER (DER, 2016), shows the majority of the site is located within an area classified as *Class II 'low to moderate risk of acid sulfate soils occurring within 3 m of the natural soil surface'*. However, three large areas of *Class III 'High to moderate risk of acid sulfate soils occurring within 3 m of the natural soil surface'*, associated with the presence of peaty clay soils, drainage line and the resource enhancement wetland areas, occur on site. This information is presented in Figure 6.

As such, future works involving land disturbance or modifications to drainage and/or the water table may require local site specific ASS investigations and subsequent management, in accordance with DER guidelines.

4.6 GROUNDWATER

Previous groundwater investigations have been undertaken by ENV Australia and are presented in the *Kalamunda Rd DWMS* (ENV Australia, 2009). The investigation showed that the average annual maximum groundwater levels (AAMGL) sit at, or near the surface, across the site (Figure 7) and depth to groundwater (AAMGL) ranged from 0.45m (MW02) to 2.14m (MW06) across the site (ENV Australia, 2009). Groundwater flows in a northerly direction. These results indicate that a combination of subsoil drainage and raised lots (with imported clean sand fill) will be required to manage groundwater levels within the development.

A review of groundwater quality was conducted by Hyd2o (Hyd2o, 2015) as part of a previous LWMS prepared for portions the site. The Hyd2o review identified that groundwater pH across the site indicates neutral to slightly acidic water quality (ranging from 4.10 at MW05) to 6.25 at MW06) and mean total nitrogen (TN) concentrations ranging from 1.5 mg/L (MW05) to 3.2 mg/L (MW04). Mean total phosphorus (TP) concentrations ranged from 0.05 mg/L (MW05) to 2.75 mg/L (MW04), which are in exceedance of ANZECC (2000) guidelines.

The review concluded that the level of nutrients in groundwater at the site is typical of expected groundwater quality in Perth's semi-rural areas. A summary of the groundwater levels and water quality data is provided in the Table 2 below (ENV Australia, 2009; Hyd2o 2015):

Table 2 Summary of previously collected groundwater data

Bore	Maximum recorded groundwater level (mAHD)	AAMGL (mAHD)	Depth to AAMGL	EC (ms/cm)	pH	TP (mg/L)	PO4 (mg/L)	TN (mg/L)	NOx (mg/L)
MW01	22.27	22.07	1.22	ND	ND	ND	ND	ND	ND
MW02	21.48	21.28	0.45	ND	ND	ND	ND	ND	ND
MW03	21.45	21.25	1.75	0.47	**5.57**	**0.27**	**0.20**	**2.5**	0.03
MW04	21.17	20.97	0.89	0.74	**5.77**	**2.75**	**2.72**	**3.2**	0.05
MW05	19.85	19.65	1.56	0.34	**4.1**	0.05	0.02	**1.5**	**0.19**
MW06	22.00	21.80	2.14	0.62	**6.25**	**0.73**	**0.76**	**2.0**	**0.33**

Table Notations:

'ND' denotes no data.

Highlighted cell indicates result in exceedence of ANZECC (2000) fresh water guidelines.

4.7 SITE SURFACE DRAINAGE

An existing open drain transverses the site, running in a westerly direction, along Stirling Crescent and then through the central area of the site. The drain then discharges into a control weir, and is piped underneath the adjacent industrial lot downstream of the site, within Perth Aiport's land. The discharge point is located to the western side of Abernethy Road.

Between July 2008 and May 2009, the maximum recorded water level in the drain was 21.39 mAHD, which is approximately 1 m below the existing natural surface (ENV Australia, 2009). The drain is steep sided, with an approximate depth of 1 m to 1.5 m, and a maximum width of 5 m. The drain receives flow from road catchments along both Stirling Crescent and Adelaide Street, in addition to excess flows from the Jacaranda Springs residential estate compensating basin along Stirling Crescent. Within the Jacaranda Springs estate, there exists a number of stormwater compensating basins, which attenuate flows prior to discharging from the development (Hyd2o, 2015).

According to information provided by Perth Airport Pty Ltd (PAPL), the estimated 100 year ARI peak flow from the upstream catchment is 0.273 m^3/s the Site. It has previously been noted that the 10 year outflow estimate from Jacaranda springs was advised as being 0.07 m^3/s, which is considerably lower than PAPL calculations (Hyd2o, 2015). While there is no data available for 100 year ARI flows from Jacaranda Springs to the drain, Hyd2o (2015) estimated a peak flow capacity of approximately 100 l/s for the piped culvert outflow from the downstream Jacaranda Spring basin without overtopping of Stirling Crescent.

As part of the Scheme Amendment, the drain alignment will be maintained as it provides connectivity between the resource enhancement wetlands and drainage flow path for upstream catchments, including Jacaranda Springs. Within the wetlands and buffer areas the drain will be rehabilitated into a living stream and pipe/culverts will be provided under roads and impervious areas of the industrial lot.

4.7.1 Pre Development Discharge Estimates

The site is located within the Perth Airport Northern Drain Catchment; the ultimate discharge point is located on land owned by PAPL. Previous modelling work undertaken by PAPL has calculated that the site's pre-development 100 year peak flow is 0.801 m^3/s (Hyd2o, 2015). In order to comply with current Department of Water, WAPC and PAPL requirements, peak post-development flow rates cannot exceed 0.801 m^3/s.

4.8 ENVIRONMENTAL ASSESSMENT

PGV Environmental (2014) conducted an environmental assessment of the northern portion of the site (excluding lot 200 and 201) in 2014. PGV's findings for flora and fauna are summarised below:

4.8.1 Vegetation Condition

The site has been heavily modified due to historical clearing for rural purposes. The native vegetation remaining on site occurs sporadically and is generally in poor condition. In general, PGV Environmental (2014) concluded that the vegetation on the majority of the site is Completely Degraded to Degraded, with the exception of a small portion the resource enhancement wetland along Stirling Crescent where vegetation condition varied from Degraded to Good due to the presence of a small stand of dense *Melaleuca raphiophylla* over *Astartea fascicularis* and *Lepidosperma longitudinale*. Similar to other areas of the Site this area is surrounded by the Declared Weeds Arum Lily (*Zantedeschia aethiopica*); *Cotton Bush (Gomphocarpus fruticosus)*, and other introduced species such as Bulrush (*Typha orientalis*), kikuyu grass, Japanese pepper and other pasture species.

According to PGV Environmental (2014), the likelihood of significant flora species listed as Endangered, Threatened or Priority occurring on site varies from none to highly unlikely.

On the 16 February 2016, Syrinx conducted a site visit and ascertained the vegetation condition reported by PGV Environmental (2014). Our findings are in general accordance with PGV Environmental. In addition, the vegetation condition within lots 200 and 201 was assessed and, found to range from Degraded, within the resource enhancement wetland

(which had sporadic occurrences of *Melaleuca preissiana* amongst weeds), to Completely Degraded (Cleared) in the remainder of the lots 200 and 201.

4.8.2 Fauna

In relation to fauna habitat classification, PGV Environmental (2014) concluded that the quality of the fauna habitats on site is very limited, due to the significant loss of native vegetation, and that the upland, wetland and cleared areas of the site can be classified as '*Disturbed fauna habitat*' to '*Highly degraded fauna habitat*'. The wetlands and drainage line are disturbed fauna habitat but provide habitat for some frog and waterbird species and there is anecdotal evidence that it supports a population of Oblong Turtles (*Chelodina oblonga*).

Significant fauna species likely to occur on Site include: Carnaby's Black-Cockatoo, Calyptorhynchus latirostris, Peregrine Falcon *Falco peregrines*, Southern Brown Bandicoot, *Isoodon obesulus* subsp. *fusciventer* and Rainbow Bee-eater, *Merops ornatus*. Fauna management strategies to be adhered to during construction are detailed in PGV Environmental (2014).

5.0 WATER USE SUSTAINABILITY INITIATIVES

This section discusses the water sustainability initiatives to be undertaken at the site. Under consideration are potable and non-potable uses and scheme, groundwater and rainwater supply options.

5.1 WATER SUPPLY

The Water Corporation Integrated Water Supply System will service the future development at the site.

Given the large roof areas of buildings typical of light industrial areas and potential demand for non-potable use, rainwater tanks to collect roof runoff and supply water for non potable-uses are proposed to be used within the industrial lots. Potential uses include toilet flushing, process water (where applicable and demand exists), washdown and fire fighting. Rainwater tanks will also assist in reducing stormwater runoff volumes to be managed and in reducing the use of scheme water. Tank sizing and location requirements are to be addressed at future UWMP stages and can be included in development specific Design Guidelines.

The site is within the Perth (Superficial-Swan) Groundwater Management Area (GMA), Shire of Kalamunda sub-area. There are currently no existing DoW groundwater licences within the site, however the superficial aquifer is not fully allocated within this sub area and

groundwater is available for abstraction (Hyd2o, 2015), should it be considered for irrigation or other non potable uses.

5.2 WATER EFFICIENCY MEASURES TO REDUCE DEMAND

5.2.1 Building Internal Water Use

All buildings are to comply with the building Code of Australia requirements of:

- All tap fittings (other than bath outlets and garden taps) will be minimum of 4-star WELS rated.
- All showerheads will be a minimum 3-star WELS rated
- All toilet flushing systems will be a minimum dual flush, 4-stars WELS rated and urinals will be a minimum of 3-stars WELS rated.

The use of rainwater for no potable uses such as toilet flushing, machine washing and process applications shall be investigated by developers.

5.2.2 External Water Use

In order to reduce water demand outside the building, the development will be consistent with water wise principles and include:

- Water wise landscape with the use of native plants on-lot, on road verges, landscape strips and wetland buffer areas.
- Maximise on site retention of stormwater which serves to irrigate landscaped areas and recharge the superficial aquifer.

5.3 WASTEWATER MANAGEMENT

Wastewater at the site will be managed via discharge to the Water Corporation reticulated network. Appropriate site control measures such as grease traps and solids control, commensurate with the industry serviced, will be addressed as part of future UWMP and building approval stages, in accordance with the Water Corporation requirements.

6.0 GROUNDWATER MANAGEMENT STRATEGY

6.1 SUBSOIL DRAINAGE / IMPORTED FILL

Previous groundwater investigations indicate that the average annual maximum groundwater levels (AAMGL) sit at or near the surface across the site (ENV Australia, 2009). As such, a combination of subsoil drainage and imported fill will be required to allow for a sufficient clearance of groundwater below each developed lot.

A detailed engineering services investigation was undertaken by Development Engineering Consultants (2014) as part of the previous LSP for residential purposes for Lots 1, 8, 9 and 1499 Stirling Crescent and Lots 10 – 16 and 51 – 53 Hatch Court. Their report recommended that imported fill levels of between 1 m to 3 m would be required across the site ahead of any future development, in order to meet the DoW requirement that all sub-soil drainage be free draining and that appropriate clearance is achieved between the invert of infiltration area and the AAMGL.

Where subsoil drainage is required, the depth of the subsoil drainage should be placed at the AAMGL, with a minimum 1.5 m clearance above the invert of the drains (Hyd2o, 2015).

Post-development groundwater levels are to be maintained to pre-development levels. The levels of the finished lots and the depth of required fill shall be addressed at the detailed design phase and within the UWMP.

7.0 WETLAND MANAGEMENT STRATEGY

PGV Environmental conducted an environmental assessment (PGV Environmental 2014a) and review of the wetland management boundary and category for the resource enhancement wetlands on the northern portion of the site (PGV Environmental 2014b) and acknowledged that future developments should protect and enhance the resource enhancement wetlands on site and identified the inclusion of a 30 m nominal buffer zone around the wetlands from where development should be precluded.

As per the recommendations of PGV Environmental (2014a) and in accordance with the Wetland Conservation Policy for Western Australia (Government of Western Australia, 1997), a Wetland Management Plan for the resource enhancement wetlands will need to be completed for the development so that key environmental values and functions of the wetlands are maintained. The management plan will likely be required as a condition of the subdivision so that wetland management procedures are implemented to protect the wetlands from being impacted by development, including construction and post construction

activities. The drainage alignment with the resource enhancement wetlands and buffer zones will be rehabilitated into a living-stream and include appropriate native riparian vegetation.

Pre and post construction weed management within the wetlands will need to be undertaken by qualified weed contractors in order to enhance the wetlands' ecological attributes. The wetlands and buffer zones will be protected with appropriate fencing and signage.

Water sensitive urban design measures, such as swales and bioretention basins, will be implemented on-lot and off-lot to manage the 1 year 1hour ARI event (or equivalent first 16 mm) and prevent untreated flows from reaching the wetlands. Post development, the wetlands will however continue to provide a site drainage function with 100 year peak flow rates maintained at pre-development levels (as discussed in Section 8.0).

8.0 STORMWATER MANAGEMENT STRATEGY

The stormwater management strategy for this site has been developed in line with the BUWM (WAPC) principles and guided by the *On Site Stormwater Detention Guidelines* (Shire of Kalamunda, April 2011), (Appendix 1), resulting in the following design objectives:

- **Ecological Protection:** Detention and treatment of the 1 year 1 hour ARI event (or equivalent initial 16 mm of rain) as close to source as possible;
- **Serviceability:** Conveyance of the 5 year peak ARI event within pipe/swale systems; and
- **Property / Public / Ecological Protection:** Attenuation of post development increased flows up to 1 in 100 year ARI event, i.e. maintaining flow rates at pre-development rates. Lot stormwater not to be discharged to adjoining properties;

8.1 STORMWATER MODELLING

A concept plan for the site has been developed by Hames Sharley (Figure 2) and localised catchments considered based on this plan. Given the on lot requirements to detain stormwater, each lot was considered as an individual catchment, resulting in sixteen (16) industrial lot catchments. The roads internal to the development were split in two (2) catchments. Figure 8 outlines the 18 catchment boundaries used in the stormwater modelling and summarises the stormwater management plan for the site. Note that the location of control measures at the lot level have not been assigned at this stage and will be addressed as part of future design work and captured within subdivision specific UWMPs. The volumes and flows to address ecological protection (1 year 1 hour ARI event), serviceability (5 year peak flow) property/public protection (attenuation of 100 year post development flows) are outlined in this document as discussed below.

Pre-development and post-development conditions have been considered for the site. For the pre-development scenario, currently developed residential lots have been assumed to be 75% pervious and undeveloped lots have been assumed to be 100% pervious. The post-development scenario assumes that industrial lots will be 10% pervious (90% impervious) with the exception of lots containing the resource enhancement wetlands, which will have comparatively higher percentage pervious areas given that the wetlands and buffer areas will be preserved in the post development scenario. The road reserves have been assumed to be 100 % impervious.

Time of concentrations (t_c) required for input were calculated using the Rational Method, based on flow path length, area and slope of catchments. Table 3 and Table 4, provided below, summarise the catchment areas, percentage perviousness and times of concentration for the pre and post-development scenarios, respectively.

Table 3 Pre development scenario (note use is post development)

Pre-development Scenario				
Catchments	Current Use	Area (ha)	% pervious	tc (mins)
1	Rural Residential	2.422	75%	29.68
2	Rural Residential	1.911	75%	30.13
3	Rural Residential	2.931	75%	34.63
4	Rural Residential	1.707	75%	25.94
5	Rural Residential	2.363	75%	23.43
6	Rural Residential	2.519	75%	19.29
7	Rural Residential	1.537	75%	28.16
8	Rural Residential	2.494	75%	29.52
9	Rural Residential	3.021	75%	21.23
10	Undeveloped	0.746	100%	22.25
11	Undeveloped	0.977	100%	22.67
12	Undeveloped	0.933	100%	22.91
13	Undeveloped	1.504	100%	28.24
14	Undeveloped	1.006	100%	22.62
15	Undeveloped	1.011	100%	23.37
16	Undeveloped	1.651	100%	28.73
17	Rural Residential	0.933	75%	35.22
18	Rural Residential	1.013	75%	32.11

Table 4 Post development scenario

Post-development Scenario				
Catchments	Proposed Use	Area (ha)	% pervious	tc (mins)
1	Industrial Lot	2.422	11%	15.22
2	Industrial Lot	1.911	10%	15.45
3	Industrial Lot	2.931	25%	17.76
4	Industrial Lot	1.707	12%	13.30
5	Industrial Lot	2.363	44%	12.02
6	Industrial Lot	2.519	69%	9.89
7	Industrial Lot	1.537	10%	14.44
8	Industrial Lot	2.494	39%	15.14
9	Industrial Lot	3.021	52%	10.89
10	Industrial Lot	0.746	10%	11.41
11	Industrial Lot	0.977	10%	11.63
12	Industrial Lot	0.933	10%	11.75
13	Industrial Lot	1.504	10%	14.48
14	Industrial Lot	1.006	10%	11.60
15	Industrial Lot	1.011	10%	11.98
16	Industrial Lot	1.651	10%	14.73
17	Road	0.933	0%	18.06
18	Road	1.013	0%	16.47

Stormwater modelling for the site has been completed using the following methodologies:

- Rational Method (based on Book VIII of ARR 1998) – spreadsheet based; and
- ILSAX Standard – DRAINS;

Type 2.2 soil was used for DRAINS/ILSAX modelling, which is classified as medium to slow draining.

A review of the results of both methodologies indicated that there are only minor variations in calculated peak flow rates between the two methodologies. The ILSAX Standard - DRAINS methodology has been adopted for this assessment. Following on from the adopted design concept, design values for each catchment have been calculated as follows:

- Detention, treatment and Infiltration of the 1 year 1 hour ARI event at source - volumes calculated based on the post-development 1 year 1 hour ARI event.
- Conveyance of the 5 year peak ARI event within pipe/swale systems - flows calculated based on the peak event flow rate for each catchment.

- Attenuation of post-development flows up to 1 in 100 year ARI event to pre-development rates - storage volumes calculated based on increased flows for the 100 year peak event.

As the post-development time of concentration for each lot is relatively small (at or near 10 minutes), the 20 minute storm is considered the critical storm duration.

The results of the ISLAX Standard - DRAINS modelling are presented in Table 5 below. It should be noted that the 100 year storage volume for each catchment is the volume required to ensure that the existing pre-development flow rates are not exceeded.

Table 5 Post development modelling results

		1 Year, 1 Hour Event	5 Year Peak Event	100 Year Event. Storage required to maintain flows at pre-development rates
Catchment	Use	Volume (m^3)	Flow (m^3/s)	Volume (m^3)
1	Industrial Lot	330.8	0.367	372.2
2	Industrial Lot	264.0	0.290	298.9
3	Industrial Lot	337.4	0.339	380.1
4	Industrial Lot	230.5	0.280	251.0
5	Industrial Lot	203.1	0.257	185.1
6	Industrial Lot	119.8	0.166	60.2
7	Industrial Lot	212.3	0.244	236.6
8	Industrial Lot	233.5	0.260	236.1
9	Industrial Lot	222.6	0.295	181.5
10	Industrial Lot	103.0	0.134	151.0
11	Industrial Lot	135.0	0.174	198.3
12	Industrial Lot	128.9	0.165	189.8
13	Industrial Lot	207.7	0.238	319.4
14	Industrial Lot	139.0	0.179	204.3
15	Industrial Lot	139.6	0.177	206.4
16	Industrial Lot	228.0	0.258	352.0
17	Road	143.2	0.273	109.2
18	Road	155.5	0.315	117.4

The storage requirements for each industrial lot catchment (Catchments 1 - 16) will be achieved on-lot. A combination of aboveground and belowground systems will be used as follows:

- Swales and bioretention systems will be adopted to treat and infiltrate flows generated by the 1 year, 1 hour ARI event from carparks, roads and lay down areas. Additional treatment requirements will be imposed on lot (such as oil - water separators, sand filters, gross pollutant traps) in accordance with the proposed light industrial use and the DoW Water Quality protection note 52 'Stormwater management at industrial sites' (May 2010).

- Above and below ground detention and infiltration to manage up to the 100 year event. This will be achieved via a combination of rainwater tanks to assist with the management of roof runoff and detention and infiltration galleries to manage runoff form carparks, roads and lay down / storage areas. A minimum 0.5m clearance between the invert of the infiltration measures and the AAMGL will be achieved with the use of imported clean fill sand (see Section 6.1).

In addition to the treatment, and storage areas identified above, implementation of pervious pavement within the lot, particularly at staff and visitor parking areas and areas not subject to heavy vehicle traffic loads are to be investigated by the developer at the UWMP stage. Pervious pavement plays an important role in reducing runoff volume and promoting hydrograph attenuation and their use may further reduce the requirements for treatment and infiltration areas on lot.

It is expected that the details of the above structural controls, including location and sizing of swales, bioretention swales/basins and tanks, will be described at the Urban Water Management Plan (UWMP) stage.

Catchments 17 & 18 are road reserves and indicative locations and areas required for the storage & infiltration of the 1 year 1 hour event and attenuation of the increased 100 year peak event from these catchments are shown in Figure 8. At this stage, one bioretention system for each road catchment is proposed. The average storage depth for the bioretention basin for these catchments is assumed to be 0.6m; thus Catchment 17 will require a 240m² basin, and Catchment 18 will require 260m² basin. Basins are to be designed in accordance with the latest biofilter design guidelines provided by Department of Water and include appropriate filtration medium, vegetation selection and include a minimum free board of 0.3m with overflow to the resource enhancement wetland in Catchment 17 and to the drainage easement in catchment 18.

In order to protect property and the public, building floor levels shall be set at 0.5m above the estimated 100 year ARI flood levels, which will be modelled once proposed finished levels for the development are determined and addressed as part of future UWMP.

Further modelling should be undertaken at the UWMP stage, to accurately determine the detailed design requirements of the drainage system.

8.2 INVESTIGATION AND MANAGEMENT OF ACID SULFATE SOILS

Further detailed ASS investigations will be required ahead of future development. Within the existing wetland enhancement areas, there is a moderate to high chance of ASS occurring. Details of further investigations and required management should be included in the future UWMP, and should be undertaken in accordance with relevant Department of Environment Regulation (DER) ASS guidelines.

9.0 SUBDIVISION STAGE - URBAN WATER MANAGEMENT PLANS

For each stage of development within the site, an Urban Water Management Plan (UWMP) will be required to support the subdivision application. The items below will be required to be addressed within each UWMP:

- Demonstrate compliance with this LWMS;
- Provide details of water conservation measures to be implemented on & off lot;
- Provide detailed, lot specific, stormwater management design including location and sizing of rainwater tanks, swales or basins and infiltration galleries and proposed permeable pavement areas;
- Groundwater management - including finished lot levels, depths of fill required and levels of subsoil drainage where required;
- Provide details of ASS management requirements;
- Provide detailed landscape & reticulation plans for irrigation use, where necessary;
- Provide details of any monitoring and reporting to be undertaken;
- Details of the implementation of the UWMP including roles, responsibilities, funding and maintenance arrangements; and
- Provide details of any contingency plans.

10.0 MONITORING

10.1 PRE-DEVELOPMENT MONITORING

It is not expected that any further monitoring events will be undertaken ahead of the sub-division process.

10.2 POST-DEVELOPMENT MONITORING

A detailed surface water and groundwater monitoring program should be undertaken post-development. Monitoring locations should be identified as part of the UWMP stage and monitoring undertaken for three years following practical completion of each stage of the subdivision. An indicative post-development monitoring program and parameters is outlined in Table 6 below.

Table 6 Post-development indicative monitoring program

Monitor	Parameter	Frequency	Trigger	Contingency Action
Groundwater	Level	Every 2 monhts for 3 years	Increase from pre-development levels over two successive winters	Developer to investigate reasons for any change. Notify Shire, DoW and lot owners.
Groundwater	PhysChem, Nutrients, Heavy Metals	Quarterly for 3 years	Increase in TP & TN from predevelopment levels over two consecutive sampling events	Developer to investigate reasons for change. Notify Shire, DoW and lot owners. Identify and remove sources of pollution.
Surface water	PhysChem, Nutrients, Heavy Metals	Quarterly for 3 years	Increase in TP & TN from predevelopment levels over two consecutive sampling events	Developer to investigate reasons for change. Notify Shire, DoW and lot owners. Identify and remove sources of pollution.

11.0 IMPLEMENTATION

The strategies outlined in this LWMS shall be the responsibility of the developer, the Shire of Kalamunda and Department of water. The roles and responsibilities for future stages of work are specified in Table 7 below.

Table 7 Implementation Roles and responsibilities

Item to be implemented	Preparation of UWMPs	Design and Construct	Review and Approval	Short Term Maintenance (Prior to handover)	Long Term Maintenance
On-lot Stormwater Systems	Developer	Lot Owner	Shire and DoW	-	Lot Owner
Off-lot Stormwater Systems	Developer	Developer	Shire and DoW	Developer	Shire
Waterwise Efficiency Packages	Developer	Lot Owner (on-lot) Dveloper (off-lot)	Shire and DoW	-	-
Sustainability Information Packages	Developer	Lot Owner (on-lot) Dveloper (off-lot)	Shire and DoW	-	-
Post Development Monitoring	Developer	Developer	Shire and DoW	Developer (3 years)	-

12.0 REFERENCES

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PGV Environmental (2014b) Hatch Court - Stirling Crescent, High Wycombe. R*eview of Wetland Management Category and Boundary.*

FIGURES

Figure 1 Site Location



N

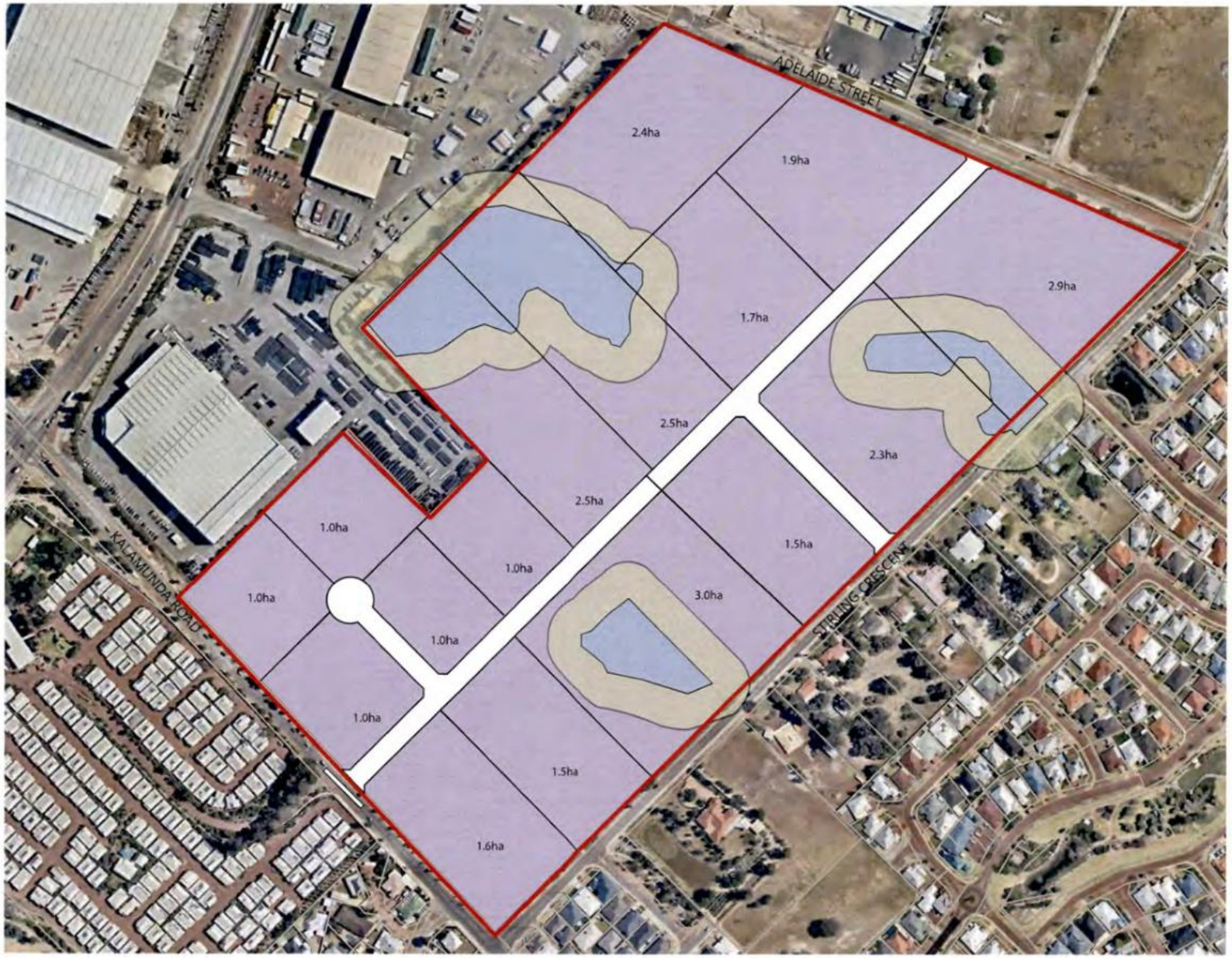
Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 1: Location Plan

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 16 Mar 2016

0 50 100 200 300 400 Meters

SYRINX environmental pl

Figure 2 Development Concept Plan



Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 2: Hames Sharley Concept Plan (received 18/02/2016)

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 01 Apr 2016

SYRINX environmental pl

Figure 3 Topography



Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 3: Elevation (1m contours)

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 02 Mar 2016

N

0 50 100 200 300 400 Meters

SYRINX environmental pl

Figure 4 Wetland Classification Map

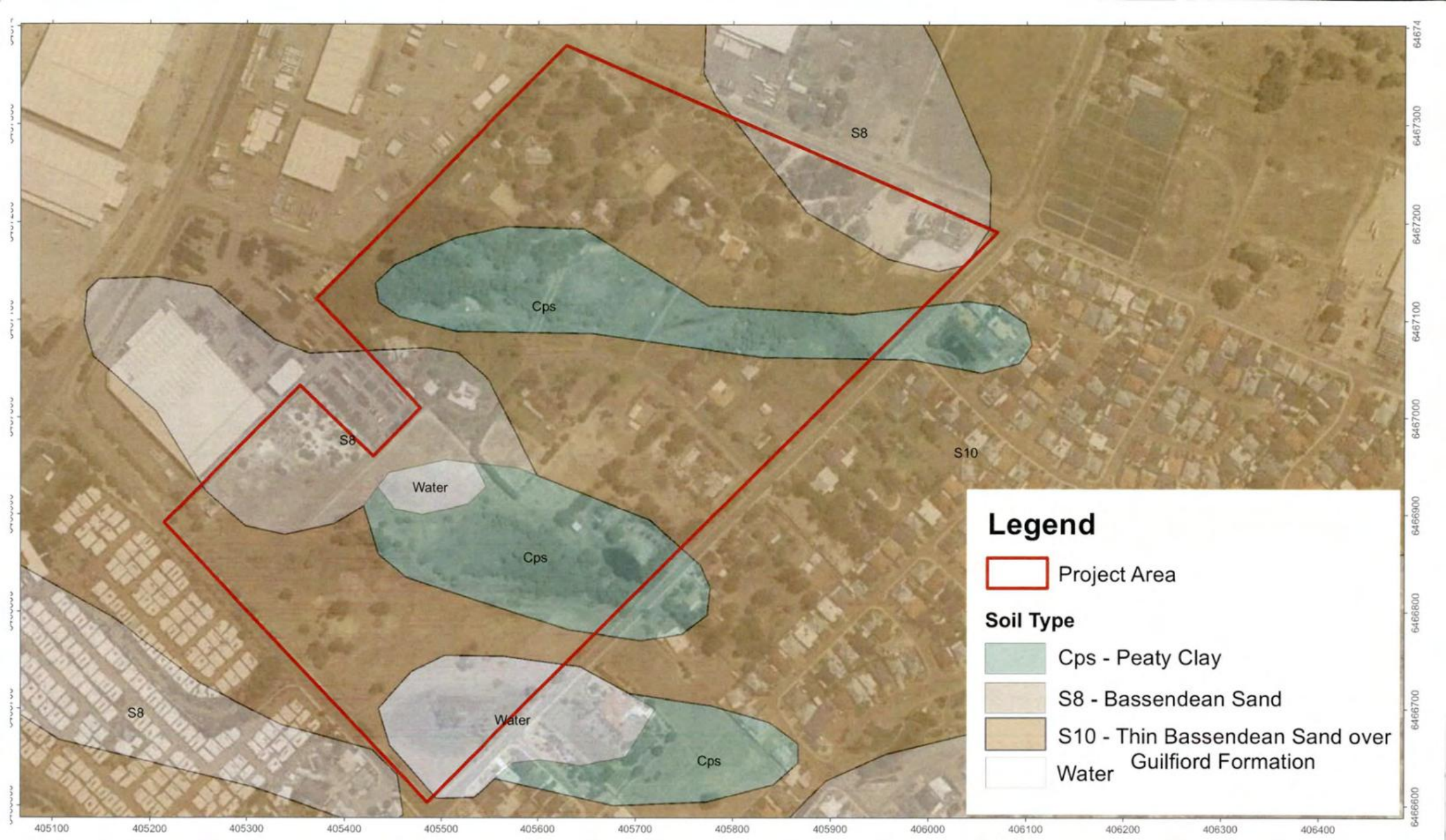


Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 4: Wetland Classification with Resource Enhancement Wetland Buffer

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 01 Apr 2016

SYRINX environmental pl

Figure 5 Soil Map



Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 5: Surface Geology

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 02 Mar 2016

SYRINX environmental pl

Figure 6 Acid Sulfate Soil Risk Map

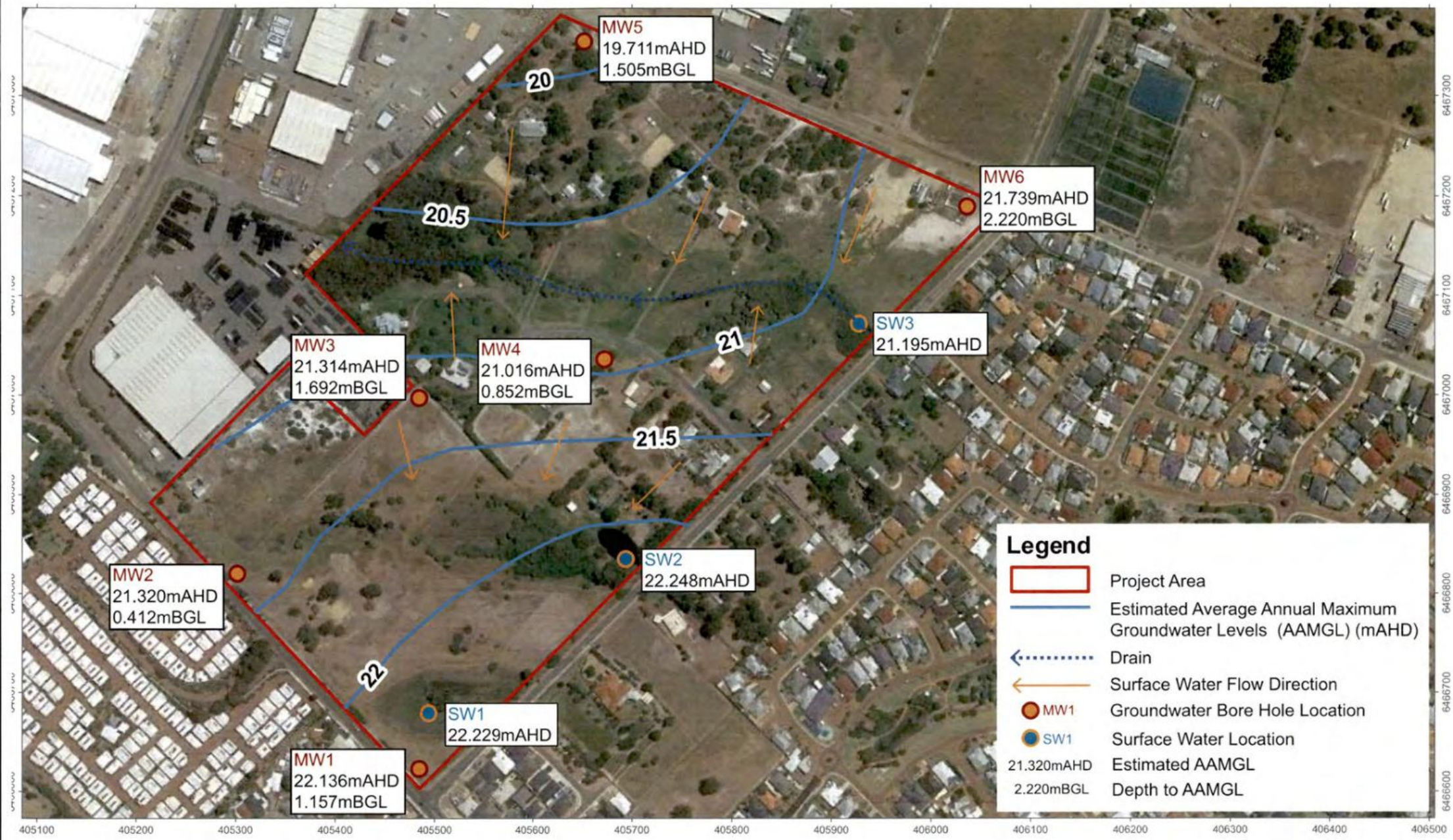


Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 6: Acid Sulfate Soils Risk of Occuring Within 3m of Surface

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 02 Mar 2016

SYRINX environmental pl

Figure 7 Groundwater Contour Map



Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 7: Site Hydrology (data from ENV (2009))

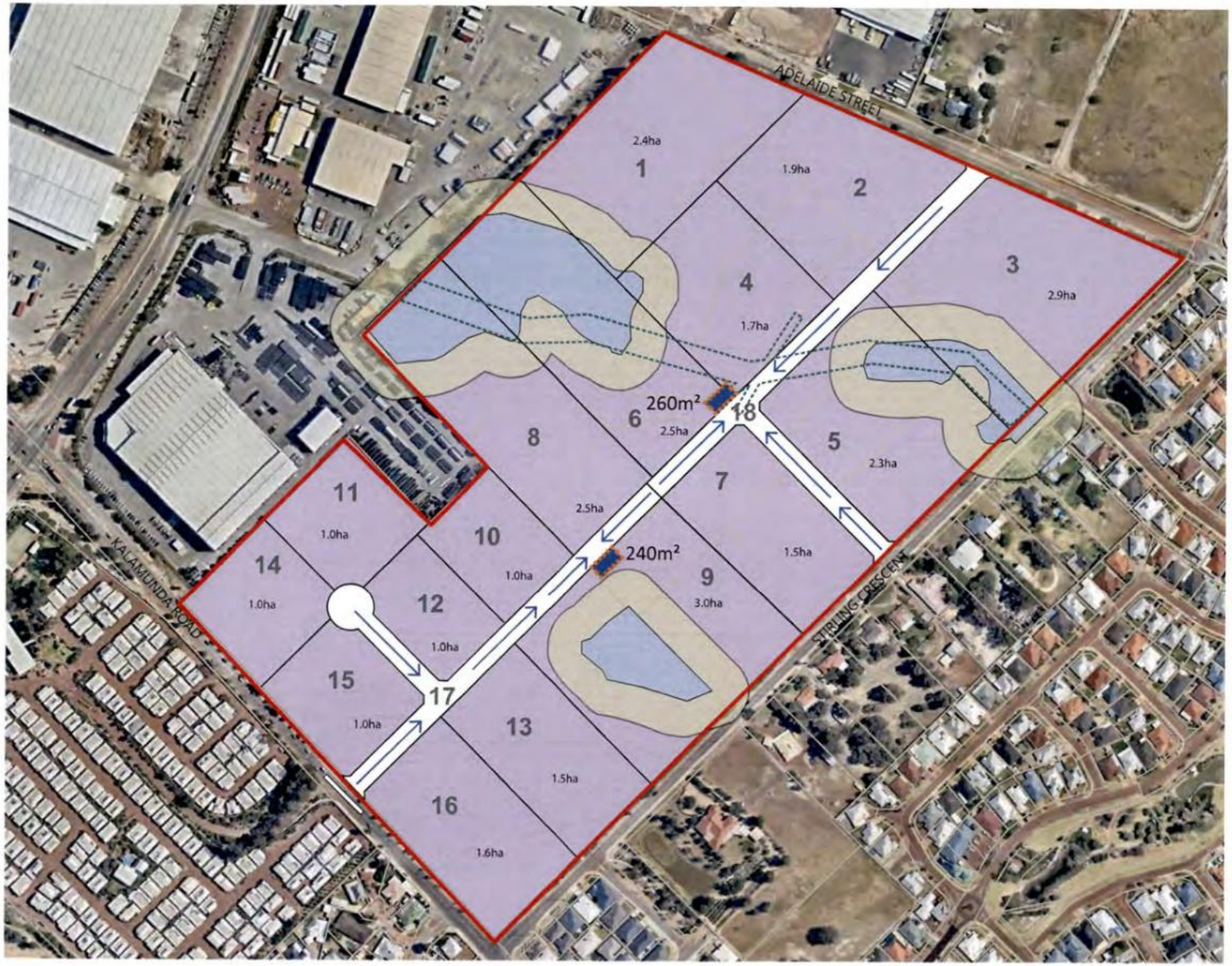
Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 31 Mar 2016

N

0 50 100 200 300 400 Meters

SYRINX environmental pl

Figure 8 Stormwater Management Strategy



Catchment	Use	1 Year, 1 Hour Event Volume (m^3)	5 Year Peak Event Flow (m^3/s)	100 Year Peak Event. Storage required to maintain flows at pre-development rates Volume (m^3)
1	Industrial Lot	330.8	0.367	372.2
2	Industrial Lot	264.0	0.290	298.9
3	Industrial Lot	337.4	0.339	380.1
4	Industrial Lot	230.5	0.280	251.0
5	Industrial Lot	203.1	0.257	185.1
6	Industrial Lot	119.8	0.166	60.2
7	Industrial Lot	212.3	0.244	236.6
8	Industrial Lot	233.5	0.260	236.1
9	Industrial Lot	222.6	0.295	181.5
10	Industrial Lot	103.0	0.134	151.0
11	Industrial Lot	135.0	0.174	198.3
12	Industrial Lot	128.9	0.165	189.8
13	Industrial Lot	207.7	0.238	319.4
14	Industrial Lot	139.0	0.179	204.3
15	Industrial Lot	139.6	0.177	206.4
16	Industrial Lot	228.0	0.258	352.0
17	Road	143.2	0.273	109.2
18	Road	155.5	0.315	117.4

Table: Stormwater modelling

Legend

- Project Area
- Flow direction
- 1 year 1 hour infiltration area
- 100 year peak event storage volume required to maintain flows at pre-development flow rates
- 1 Catchment number
- Drainage Easement
- Light Industrial Land Use
- Wetland Reserve
- 30m Wetland Buffer

Notes:

Industrial lot storage and infiltration required to be provided on-lo
Road storage and infiltration requirements as shown.
Average storage depth is assumed at 0.6m.

N

Hatch Court - Stirling Cresent Scheme Amendment, High Wycombe LWMS
Figure 8: Stormwater Mangement Plan

Author: Syrinx Environmental PL
Project ID: 1552
Scale: 1:5000
Projection: GDA94 MGA Zone 50
Date: 16 Mar 2016

0 50 100 200 300 400 Meters

SYRINX environmental pl

07 July 2025

Your Ref:
Our Ref: H25037Av1

Glenn Coffey
Hesperia Projects Pty Ltd
PO Box 782
Subiaco, WA 6904

Dear Glenn,

LOT 14 (LOT 2) HATCH COURT, HIGH WYCOMBE STORMWATER MANAGEMENT PLAN

This Stormwater Management Plan (SMP) has been prepared by Hyd2o on behalf of Hesperia Projects Pty Ltd in support of the development of Lot 14, High Wycombe. This document pertains to Lot 2, herein referred to as the site, which is a parcel resulting from the subdivision of Lot 14 and amalgamation with a portion of Lot 9000 Adelaide St to the northeast.

The site is located within the City of Kalamunda and proposes the establishment of an industrial tenancy. The proposed development will create warehouse space with associated infrastructure and area of hardstand. A copy of a site plan is included as Appendix A.

In relation to water management planning approvals, Better Urban Water Management (Western Australian Planning Commission, WAPC, 2008) typically require an Urban Water Management Plan (UWMP) to be prepared for subdivisions in excess of 25 lots. Based on the scale of the proposed development, a brief letter report Stormwater Management Plan (SMP) is therefore considered appropriate rather than a UWMP to guide future stormwater management planning and engineering design for the site.

This SMP provides an assessment of the site and an overarching plan for stormwater and groundwater management for the site. It contains interpretation of groundwater level data and the required characteristics of the stormwater system based on modelling outcomes and specified discharge requirements of downstream Perth Airport stormwater management infrastructure. Subsequent engineering design for the lots will be required to comply with this SMP.

This SMP has been prepared to meet the requirements of the City of Kalamunda, Department of Water and Environmental Regulation (DWER), and the Better Urban Water Management framework (WAPC, 2008).

1. SITE CHARACTERISTICS

A site conditions plan is included as Figure 1. The site is generally described as having the following existing characteristics:

- The site has been largely cleared for historic use as a rural property. A rural dwelling and associated infrastructure are located in the southwest region.

- The site is surrounded by rural properties to the west, south and east. Industrial lots along Adelaide St are located to the north. Driveway access to the property occurs via Hatch Court to the south. Lot 14 forms part of a collection of rural lots with access via Hatch Court located within a greater area already developed for industrial and residential.
- Based on DWER LiDAR topography the site ranges between 20 mAHD and 22 mAHD with a general grade down from Adelaide St on the northern boundary towards the southwest.
- According to the Perth Sheet 2034 II and Part Sheets 2034 II and 2134 III, Environmental Geology Series (Gozzard, 1986) the site is characterised by having Bassendean sand or Bassendean sand overlaying pebbly silt of the Guildford Formation. The sand is noted to be light grey at surface, yellow at depth, medium to coarse grained, moderately sorted, subangular to sub-rounded quartz of eolian origin. Galt Geotechnics (2025) undertook a due diligence geotechnical investigation at the site in May 2025 and across 8 test pits the general subsurface profile was described as grey/white fine to medium grained sand typically loose at shallow depths becoming medium dense to dense at depth extending to depths from 2m to over 6.5m overlaying the Guilford Formation. These findings were generally consistent with Gozzard (1986). Groundwater was encountered at 4 pit locations at depths ranging from 1.7 to 2.8m below natural surface. During the same investigation permeability tests were conducted and yielded in-situ saturated hydraulic conductivity rates ranging from 2.8 to 3.6 m/d and unsaturated hydraulic conductivity rates ranging from 4 to 39.3 m/d. The geotechnical report is contained in Appendix B.
- The DBCA's geomorphic wetland dataset shows a multiple use wetland extending to the site's southern boundary (UFI#15899). The area to which it extends has been predominantly cleared for present land uses.
- Published DWER acid sulphate risk (ASS) mapping indicates that the site is predominantly mapped as a low to moderate risk of ASS occurring within 3m of natural soil surface.
- DWER's contaminated site database mapping reports no contaminated sites located within the site or in neighbouring lots.
- According to DWER's online Water Register no groundwater license currently exists over the site however there is allocation available in the Perth – Superficial Swan aquifer to facilitate a license application (Appendix C).

2. SURFACE WATER

There are no open water bodies, waterways or drains within the site and the site does not receive any flow from external catchments. Currently any minor event rainfall would infiltrate on site, with any excess in major events occurring as diffuse overland flow towards the southwestern boundary consistent with the natural topography.

Beyond the boundary, flow would continue in this direction towards a City of Kalamunda open drain located in an easement as shown in Figure 2.

The drain ultimately forms part of the Perth Airport Precinct 3 (PAP3) drainage network with the entirety of the site falling within an identified sub-catchment of this network (Catchment 16). A catchment plan for Perth Airport Precinct 3 is contained in Appendix D.

The receiving drain is typically steep sided with an approximate depth of 1m and width of 5m and runs in a southwest direction in an easement through a series of rural landholdings before reaching a wetland which effectively acts as a compensation storage with twin 900mm dia. pipe outlets. This is the discharge point for the sites associated PAP3 sub-catchment into the Lewis Rd drainage system. Based on Perth Airport advice allowable discharge at this point results in a pro-rata discharge rate of 41 L/s/ha for land within this sub-catchment (Appendix D). This estimate was based on predevelopment modelling for this catchment and maintaining post development flows at predevelopment levels to protect downstream environments and infrastructure. The allowable discharge also accounts for inflow from the Jacaranda Springs residential catchment upstream.

3. GROUNDWATER

DWER's online Perth Groundwater Map (DWER, 2025b) shows groundwater flow to the north-west with groundwater levels generally between 17 to 18 mAHD at the site. It is understood that these levels reflect a maximum condition of readings at regional DWER bores in 2019. It should be noted that accuracy of the regional mapping at the site is limited due to the proximity of DWER bore data in the area with the nearest bore located approximately 1.8 km away.

Groundwater has been historically monitored in the local area to facilitate development which included the installation of a bore in close proximity to the site identified as MW5 (Figure 3). The average annual maximum groundwater level (AAMGL) reported at this bore location is 19.71 mAHD as per Hyd2o (2022) as shown in Table 1.

To provide an estimate of groundwater levels across the site MW5 has been used as a point of reference in interpretation of the findings of the preliminary geotechnical investigation undertaken by Galt Geotechnics in May 2025. During pit excavation it was noted that groundwater was encountered at 4 of the 8 pits with all pits excavated to a target depth of 3m. To better interpret this variability in occurrence, depths to groundwater were translated to mAHD based on LiDAR digital elevation model (DEM) at each pit location. The DEM is based on 1 point per square meter survey and is understood to be current to 2008, which would be more recent than the establishment of the current rural property.

The resulting interpretation to groundwater is shown in Table 2 and on Figure 3. Results indicate some inconsistency in groundwater readings in establishing an estimate of regional groundwater at the site. BH4 provides an inferred groundwater reading of 19 mAHD which is considered of relatively large difference to inferred levels of 17.7 mAHD or less at pits approximately 60 to 70m away (no groundwater encountered at BH3 and BH6). As such it is suspected that BH4 is a perched reading. This assumption would also be supported by observations of clayey sand at the base of pit BH4 which is unique to the site as all remaining pits recorded sand throughout.

It is noted that the pits were excavated at the end of May which is generally reflective of a seasonal low condition. As such it would be expected that groundwater would need to rise a full seasonal magnitude in order to achieve a winter condition to what would be more relative to an AAMGL condition. Seasonal fluctuation at MW5 was reported to be in the magnitude of approximately 1m with readings taken from 2008 to 2009 (ENV, 2009). Adding 1m to inferred readings at BH5 and BH7 would generally integrate with the AAMGL of 19.71 mAHD at MW5. The no groundwater reading at BH8 would be inconsistent with this however would still be a reasonable range of analysis error on the basis that groundwater may occur just below the base of the pit.

No readings taken at bores BH2, BH3 & BH6) would infer that groundwater flows in a general southwest direction which would be consistent with the drain and ultimate outlet location southwest of the site.

Based on analysis of available data it is estimated that the AAMGL at the site would occur at approximately 20 mAHD on the northeast boundary and be lower in the remainder of the site. Perching at BH4 appears to be localised and any rise in winter would be expected to be regulated by the continuous permeable sand layer found across the pits.

Table 1: Historic Bores AAMGL

Bore	Easting	Northing	Seasonal Variation 02-10-08 to 16-04-09 (m)	AAMGL (mAHD)
MW5	405657	6467362	0.95	19.71

Table 2: Site Geotechnical Pit Groundwater Interpretation

Pit	Pit Depth (m)	Pit Soil Profile	Depth to GW 28-05-25 (m)	Natural Surface via LiDAR (mAHD)	Base of Pit (mAHD)	Inferred Groundwater Level (mAHD)
BH1	3.0	Sand	1.7	20.3	17.3	18.6
BH2	3.0	Sand	NE	20.2	17.2	-
BH3	3.0	Sand	NE	20.3	17.3	-
BH4	3.0	Sand with Clayey Sand at base	1.9	20.9	17.9	19
BH5	3.0	Sand	2.8	21.3	18.3	18.5
BH6	3.0	Sand	NE	20.7	17.7	-
BH7	3.0	Sand	2.7	21.3	18.3	18.6
BH8	3.0	Sand	NE	21.5	18.5	-

*NE = not encountered

4. WATER USE SUSTAINABILITY

Water supply will be provided via extension of the Water Corporation's Integrated Water Supply System. Rainwater tanks will not be mandated however given large contributing roof areas, use of rainwater tanks as both a water supply source and stormwater management device may be a suitable way to partially offset stormwater storage requirements.

The tenancy may wish to integrate rainwater tanks as part of their water supply and overall stormwater management systems, and this will be provided for by their engineering team during the design and building application process.

Water conservation measures within the development will be consistent with Water Corporation's Waterwise land development criteria and include the implementation of waterwise practices and stormwater treatment and detention compliant with requirements as detailed in Section 5.

5. STORMWATER MANAGEMENT

The key elements of the stormwater management strategy for the site as shown in the site plan (Appendix A) are as follows, consistent with downstream Perth Airport systems requirements, City of Kalamunda Stormwater Design Guidelines (2023) and Better Urban Water Management (WAPC, 2008) requirements as well as integrating principles of Water Sensitive Urban Design (DWER, 2011):

- Permissible discharge of 41 L/s/ha for the site consistent with ultimate development modelling of the downstream drainage system by Perth Airport, based on estimated predevelopment (existing) flows from the associated catchment.
- Hardstand areas to direct stormwater away from building levels and towards dedicated storage areas.
- Retention of first 15mm of hardstand runoff within landscaped biofiltration swale areas.
- Flood storage on site sized to detain up to and inclusive of the 1% AEP event.
- Flood storage provided on site sized to detain up to the 5% AEP event below pad level
- Beyond the 5% AEP event and in management of the 1% AEP event, hardstand areas permitted to provide storage up to a ponding depth of 50mm.

Based on an approximate site area of 0.8 ha, the permissible discharge for the site is 33 L/s to guide modelling and design. In consultation with the project design team the implementation of perimeter drainage swales was considered a suitable option in implementing the stormwater management criteria detailed above. These swales would overflow to the outlet once at capacity.

Stormwater modelling of the proposed system was done using XP-Storm. XP-Storm is an industry standard program that performs detailed hydraulic and hydrological calculations to simulate the performance of stormwater systems for a range of design storm events. The design storms modelled by XP-Storm were based on methodology in Australian Rainfall & Runoff (Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, 2016) and the Bureau of Meteorology Computerised Design Intensity Frequency Duration (IFD) Rainfall

System. Storms modelled ranged from 30 minutes to 72 hour duration for the 1% Annual Exceedance Probability (AEP) event.

Runoff parameters used are indicated in Table 3, consistent with those used in stormwater management planning for nearby industrial developments (Hyd2o, 2024).

Based on in-situ permeability testing results (Galt, 2025) and considering typical biomedia/amended soil performance and potential clogging, a permeability rate of 2.5 m/d was applied to drainage swales for design purposes. It is considered that these swales will act as retention devices with overflow to occur to a drainage pit from which the permissible discharge will be regulated.

Results of the modelling are shown in Table 3 and Figure 4 with XP-Storm modelling outputs contained as Appendix E. It should be noted that given the spill to grate configuration modelled the XP-Storm model outputs include spill heights and volumes associated with indicative flow. These have been specified accordingly in Table 3.

Results show that a drainage swale volume of 186 m^3 equating to an area of 310 m^2 and a depth of 0.6m would be sufficient in meeting the 5% AEP stormwater management criteria. An indicative area to provide this requirement is shown on Figure 4 with swale lengths located along the southwestern perimeter. The 1% AEP event would require 43 m^3 of additional hardstand storage equating to approximately 15% of the remaining hardstand area to a pond at a depth of 50mm.

It should be noted that this stormwater management system concept pertains to Lot 2 to be developed as part of Lot 14. The balance of Lot 14 has been earmarked for development in future. As such a connection with be required to facilitate discharge from the separate stormwater management system and to external infrastructure downstream. This proposed connection will occur via a pipe underneath the proposed site drainage swale as shown in Figure 4. Notably this has been located within the drainage corridor marked on the site plan for this purpose (Appendix A).

Table 3: Stormwater Management

Warehouse Catchment	
Roof @ 95% RO (ha)	0.12
Hardstand @ 100% RO(ha)	0.64
Landscaped/Pervious @ 33% RO (ha)	0.05
Equiv Imp Area (ha)	0.75
Permissible Peak Discharge (L/s)	33
Drainage Swale	
AAMGL (mAHD)	<19.7
Nominal Invert (mAHD)	20.4
Base Area (m^2)	310
Side Slopes (v:h)	1:0
Permeability (m/d)	2.5
15mm Event	
Flood Rise (m)	0.22
Volume (m^3)	68
5% AEP Event	
Flood Rise (m)	0.6 (+0.01 spill height)
Swale Volume (m^3)	186 (+4 spill height vol)
Hardstand Volume (m^3)	0
Peak Discharge (L/s)	32
Critical Duration (hr)	3
1% AEP Event	
Flood Rise (m)	0.6 (+0.03 spill height)
Swale Volume (m^3)	186 (+10 spill height vol)
Hardstand Volume (m^3)	43
Peak Discharge (L/s)	33
Critical Duration (hr)	3

6. GROUNDWATER MANAGEMENT

Based on discussions with the project design team it is understood that site development levels will interface with Adelaide St at approximately 22 mAHD and fall to the rear of the lot at approximately 21 mAHD.

It is noted that the warehouse space is located to the front of the lot and as such it is estimated that the warehouse will have a clearance in excess of 2m to the AAMGL.

With swales located at the rear of the lot and conceptually designed at 0.6m depth, the current minimum swale elevation for consideration is approximately 20.4 mAHD. As such it is estimated that drainage swales will have a minimum clearance in excess of 0.5m to AAMGL in relation to the regional water table. As discussed in Section 3 there appears to be an area of localised perching in the southeast region of the site however groundwater is expected to be regulated by sandy profile connected to the remainder of the site absent of any perching.

Drainage swales will be designed with consideration of the Adoption Guidelines for Stormwater Biofiltration Systems (CRC for Water Sensitive Cities, 2015).

Based on available data it is expected that drainage swales will be able to function on the basis of infiltration without the need of underlying subsoil however as additional data is collected it is recommended that findings are reviewed in reference to detailed design levels.

7. IMPLEMENTATION PLAN

Roles and responsibilities for implementation of this SMP are detailed in Table 4 below.

Construction of the stormwater system within the site will be the responsibility of the developer. Maintenance and management of stormwater infrastructure will be the responsibility of the lot owner and tenant.

Long term maintenance of stormwater drainage infrastructure outside of the site will be the responsibility of the City of Kalamunda.

Maintenance will include but not be limited to street sweeping to reduce any particulate build up, removal of sediment and rubbish in manholes and removal of debris and vegetation build up within biofiltration areas, storages, and council open drain to prevent stormwater blockages.

Table 4: Actions and Responsibilities

Action	Responsibility		
	Developer	City of Kalamunda	Lot Owner / Tenant
Preparation of SMP (this document)	✓		
Review and Assessment of SMP		✓	
Construction of stormwater infrastructure within the site	✓		
Maintenance and management of stormwater infrastructure within site boundaries			✓
Maintenance and management of stormwater infrastructure outside site boundaries		✓	

8. REFERENCES

Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors) (2016). Australian Rainfall and Runoff: A Guide to Flood Estimation, Commonwealth of Australia.

Galt Geotechics (2025), Due Diligence Geotechnical Study Proposed Industrial Subdivision 27 Hatch Court High Wycombe, WA, June 2025.

City of Kalamunda (2025), Intramaps (online, accessed November 2025).

City of Kalamunda (2022), Stormwater Design Guidelines for Subdivisional and Property Development.

CRC for Water Sensitive Cities (2015), Adoption Guidelines for Stormwater Biofiltration Systems.

Department of Water & Environmental Regulation (2025a), Water Register (online, accessed June 2025)

Department of Water & Environmental Regulation (2025b), Perth Groundwater Map (online, accessed June 2025)

Department of Water (2022), Stomwater Management Manual for Western Australia.

Department of Water (2011), Water Sensitive Urban Design, June 2021.

ENV Australia (2009) Kalamunda Rd District Water Management Strategy, October 2009

Hyd2o (2022). Lot 1499 Hatch Court, High Wycombe Stormwater Management Plan, December 2022.

Hyd2o (2024). Lot 119 & 808 Lakes Rd, Hazelmere Stormwater Management Plan, August 2024.

Gozzard, J.R. (1986) Perth, Sheet 2034 II and part 2034 III and 2134 III, Perth Metropolitan Region 1:50,000 Environmental Geology Series, Geological Survey of Western Australia.

Landgate (2025). Landgate Map Viewer (accessed online June 2025)

Western Australian Planning Commission (2008). Better Urban Water Management. Government of Australia, October 2008.

Should you have any queries regarding this report, please do not hesitate to contact Sean O'Sullivan or Sasha Martens of this office.

Yours sincerely,



Sean O'Sullivan, Senior Engineering Hydrologist

Attachments

Figure 1: Site Conditions Plan
Figure 2: Surface Water Plan
Figure 3: Groundwater Plan
Figure4: Stormwater Management Plan

Appendix A: Site Plan
Appendix B: Galt Geotechnics Due Diligence Geotechnical Report
APPENDIX C: DWER Water Register Extract
Appendix D: Perth Airport Drainage Advice
Appendix E: XP-Storm Modelling Outputs

This document is published in accordance with and subject to an agreement between Hyd2o and the Client for whom it has been prepared, and is restricted to those issues that have been raised by the Client in its engagement of Hyd2o. It has been prepared using the skill and care ordinarily exercised by hydrologists in the preparation of such documents.

Hyd2o recognise site conditions change and contain varying degrees of non-uniformity that cannot be fully defined by field investigation. Measurements and values obtained from sampling and testing in this document are indicative within a limited timeframe, and unless otherwise specified, should not be accepted as conditions on site beyond that timeframe.

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FIGURES

Date: 23/06/2025 Job No. H25037



Site

DWER LiDAR Contours 1m (mAHD)

Geotech Sites (Galt Geotechnics, 2025)

DBCA Wetlands

Resource Enhancement

Multiple Use

ASS Risk

Moderate to low risk

High to moderate risk

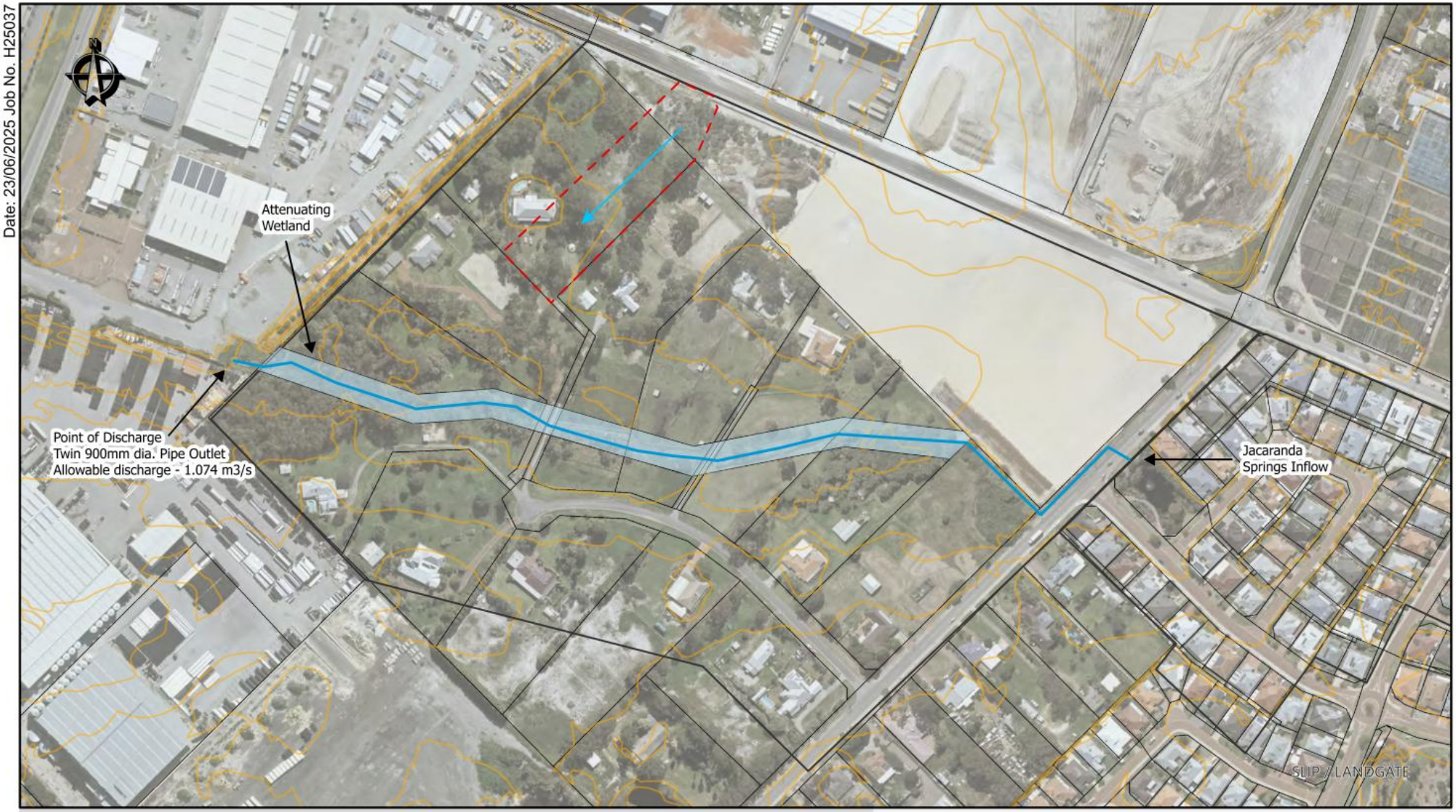
hyd2o

Lot 14 (Lot 2) Hatch Court High Wycombe SMP

Site Conditions Plan

Figure 1

Date: 23/06/2025 Job No. H25037



Site
DWER LiDAR Contours 1m
Predevelopment Surface Flow
Perth Airport P3 Contributing Catchments
Drainage Easement
Drain

hyd2o

Lot 14 (Lot 2) Hatch Court High Wycombe SMP

Surface Water Plan

Figure 2

Date: 23/06/2025 Job No. H25037



Site

DWER LiDAR Contours 1m

Regional GW DWER 2019 Maximum Contours (mAHD)

Geotech Pits (Undertaken May 2025)

GW Found - Inferred GW Level (mAHD)

No GW - Inferred Base of Pit (mAHD)

Historical Monitoring Bores

AAMGL (mAHD)

Inferred Regional GW Flow Direction

Drain

hyd2o

Lot 14 (Lot 2) Hatch Court High Wycombe SMP

Groundwater Plan

Figure 3

Date: 26/06/2025 Job No. H25037



Site
Drainage Swale
Surface Flow
Indicative Drainage Network
Pipe Beneath Swale
(To provide connection for future development lot)
Roof
Hardstand
Landscape/Pervious

hyd2o

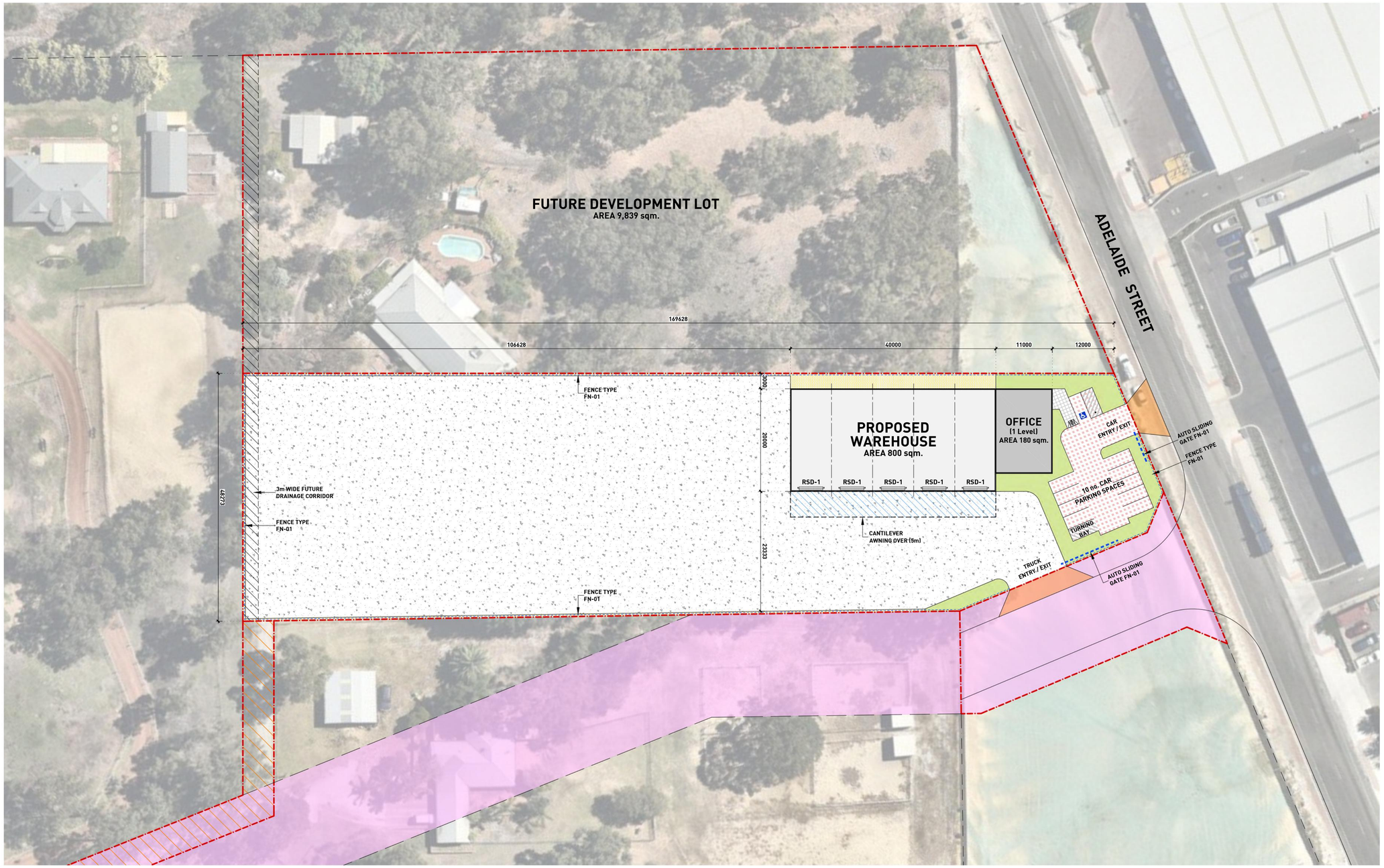
Lot 14 (Lot 2) Hatch Court High Wycombe SMP

Stormwater Management Plan

Figure 4

APPENDIX A
Site Plan

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DEVELOPMENT SUMMARY

PROPOSED SITE AREA	7,987	sqm. approx.
Proposed Warehouse Area	800	sqm.
Office Area (1 Level)	180	sqm
TOTAL BUILDING AREA	980	sqm.
Total Heavy Duty Paving Area	6,010	sqm. approx.
Total Light Duty Paving Area	350	sqm. approx.
Total Aggregate Paving Area	260	sqm. approx.
Total Warehouse Awning Area	200	sqm. approx.
Total Car Parking Provided	10	spaces

PROPOSED FUTURE ROAD RESERVE EXTENSION TO HATCH COURT
(Alignment to be confirmed)

PROPOSED LOT 2 LAND TO BE CONSIDERED FOR FUTURE ROAD RESERVE ACQUISITION
(Subject to separate subdivision proposal)

EXTENT OF HEAVY DUTY PAVING AREA
(Concrete Hardstand)

EXTENT OF LIGHT DUTY PAVING AREA
(Red Asphalt)

EXTENT OF AGGREGATE PAVING AREA

EXTENT OF LANDSCAPE AREA

EXTENT OF WAREHOUSE AWNING AREA

RSD-1 ROLLER SHUTTER DOOR 4.5mW x 4.5mH

LANDSCAPING
Landscaping to be in accordance with requirements of City of Kalamunda. Refer to Landscape Consultant's drawings and specifications for full details.

LIGHTING
External lighting must be designed, baffled and located so as to prevent any adverse effect on adjoining land to the satisfaction of the Responsible Authority. Building mounted flood lights to be provided within the car park area.

CAR PARKING
Car parking spaces to be 5400mm long x 2500mm wide (unless noted otherwise) and be in accordance with requirements of City of Kalamunda.

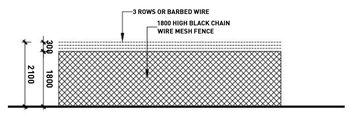
Disabled car parking spaces to be 5400mm long x 2500mm wide, with a shared vacant space of equal size to one side of the allocated disabled space in accordance with A.S. 2890.6 (2009).

All car parking bays to be line marked in 80mm wide white weatherproof paint in accordance with A.S. 2890.1 (2004).

VEHICLE CROSSINGS AND ACCESS
All new vehicle crossings shall be to the requirements of the relevant Statutory Authority.

PLANT & EQUIPMENT
All external plant and equipment to be screened or positioned to prevent unreasonable visual impact.

DISABILITY ACCESS
All building entrances are to be in accordance with A.S. 1428.1 (2009).



FENCE TYPE FN-01
TYPICAL BOUNDARY FENCE & GATE ELEVATION
SCALE 1:100

Site Plan

Drawing Type: Development Application | Drawing No: DA-011(A) | Project No: 2411-430 | Date: 10 June 2025 | Scale: 1:400 @ A1

0 20 40

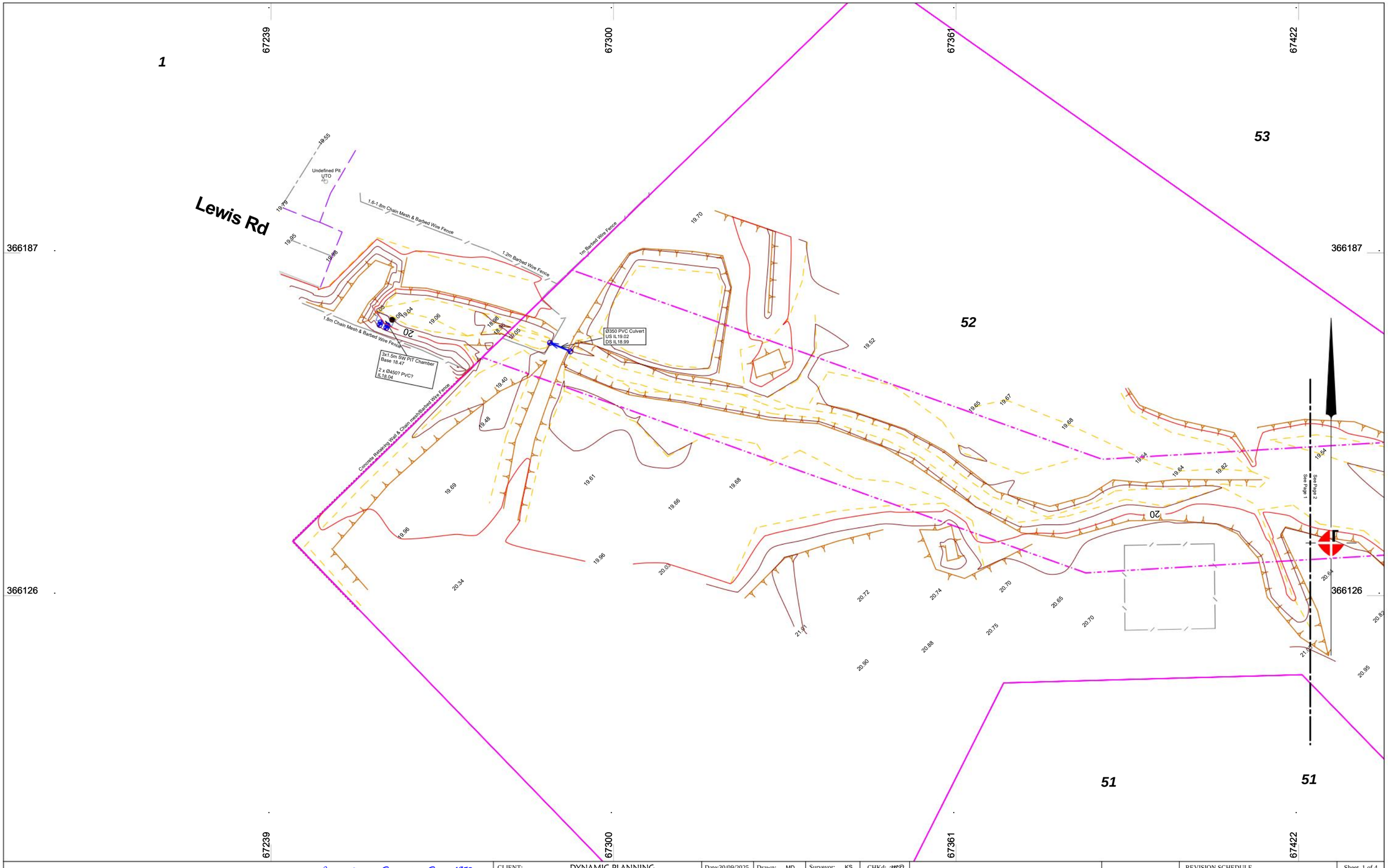
PROPOSED DEVELOPMENT

Proposed Lot 2 at Lot 14 Hatch Court & Lot 1499 Stirling Crescent, High Wycombe WA

HESPERIA

APPENDIX B
Galt Geotechnics (2025) Geotech Report

Appendix D SURVEY AND LIDAR



Thompson surveying consultants

Innovators in Surveying Since 1952

Licensed Surveyors, Project Managers & Engineering Surveyors

A.C.N. 008 938 903 ABN 78 008 938 903

Unit 6, 18 Casuarina Drive, Bunbury
PO Box 1719 BUNBURY WA 6231

Phone: (08) 9721 4000
eMail: info@thompsonsurveying.com.au

CLIENT:	DYNAMIC PLANNING	Date:30/09/2025	Drawn: MD	Surveyor: KS	CHKd: MD
PROJECT:	Hatch Court Light Industrial Area, HIGH WYCOMBE	File:23537-002a			
		Scale (@A3)	1:600		
TITLE:	Drainage and Feature Survey				
DATUM	HOR: PCG94	VERT: A.H.D.			

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NOTE: All services plotted from information supplied by others, site verification required prior to construction. Boundary position is not deemed to be correct until a resurvey has been carried out. Check Certificate of Title for any easements etc. No responsibility accepted for changes occuring after date of survey.

REVISION SCHEDULE

No.	Date	Description

Sheet 1 of 4

Z:\+ MD\23537\Survey\Field data - downloads\250922 - Hatch Court FS\23537FS.mjo - 23537-p1

67422 67483 67544 67605

53 13 12 11

366126 366126

20.64 20.82 20.76 20.87 20.76 20.86 20.76

19.54 19.43 19.35 19.37 19.76 19.43

20.05 20.11 20.10 19.78 20.50 20.68 20.42 20.53 20.84 20.72 20.69 20.65 20.61 20.54 20.29 20.39 20.35 20.33 20.64

Ø350 PVC, Unable to View Pipe
US IL19.3 (APPROX ONLY)
DS IL 19.37

Unable to View Pipe
US IL19.46
DS IL 19.56

Unable to View Pipe
US IL19.95
DS IL 19.92

Unable to Locate Pipe Outlet Inside Shed

See Page 1
See Page 2
See Page 2
See Page 3

52

51

15

16

1m Wire & Wooden Post Fence

Elec.
Water
Telstra
Asphalt Driveways
Hydrant
Asphalt Driveway
WMA Pit
Grass Driveway
Brick Paving Driveway
Concr. Drive
14m Aluminium Fence

Ø300 RCP
IL 20.52

Ø150 PVC
IL 20.35

Pit
Base 20.50

Ø150 PVC
IL 20.37

Hatch Ct

Brick & Tile Building

See Page 2
See Page 4

366065 366065

67422 67483 67544 67605

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Unit 6, 18 Casuarina Drive, Bunbury
PO Box 1719 BUNBURY WA 6231
Phone: (08) 9721 4000
eMail: info@thompsonsurveying.com.au

CLIENT:	DYNAMIC PLANNING	Date: 30/09/2025	Drawn: MD	Surveyor: KS	CHKd: MD
PROJECT:	Hatch Court Light Industrial Area, HIGH WYCOMBE	File: 23537-002a			
		Scale (@A3)	1:600		
TITLE:	Drainage and Feature Survey				
DATUM	HOR: PCG94	VERT: A.H.D.			

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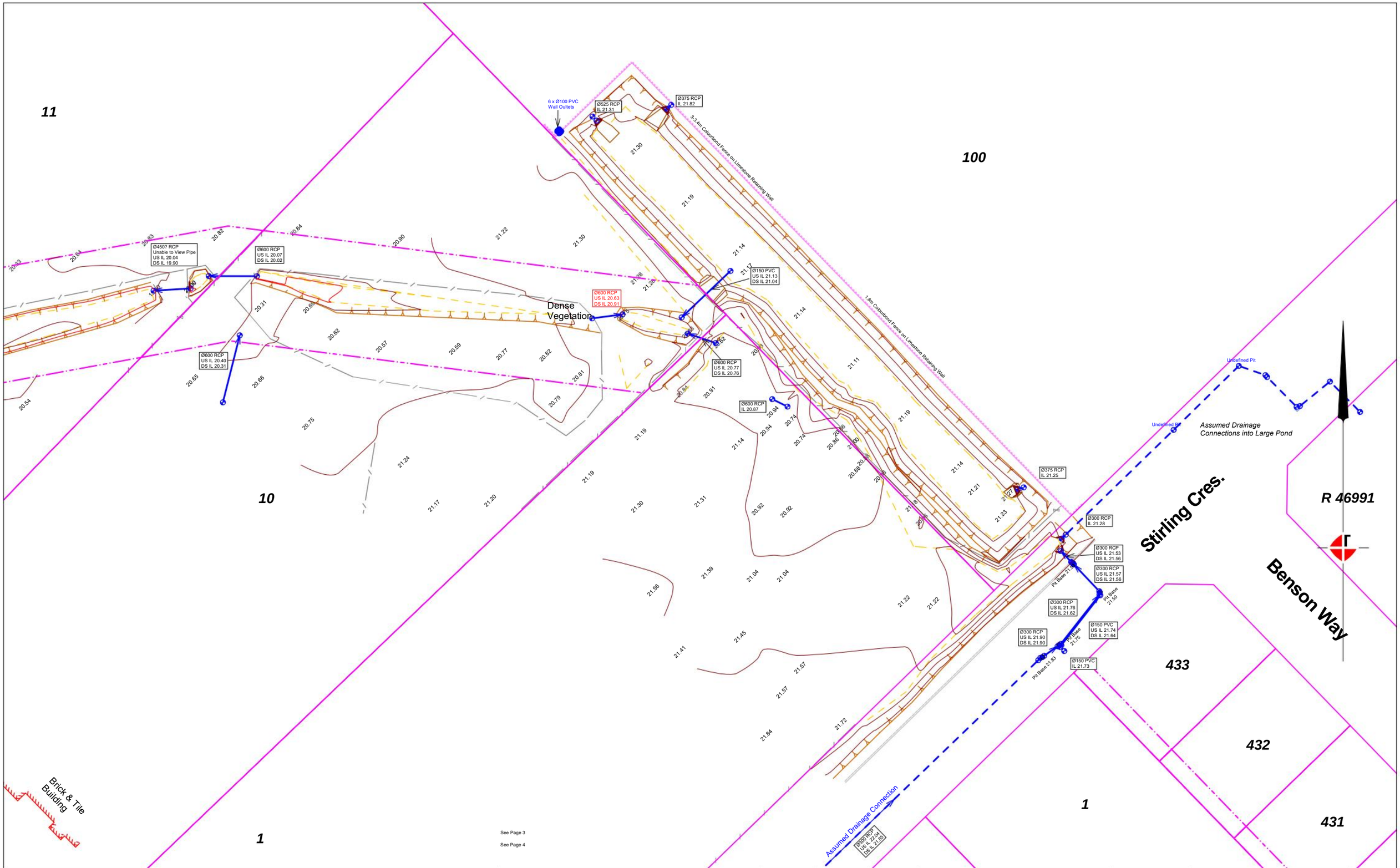
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REVISION SCHEDULE

No.	Date	Description

Sheet 2 of 4

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CLIENT:	DYNAMIC PLANNING	Date: 30/09/2025	Drawn: MD	Surveyor: KS	CHKd: MD
PROJECT:	Hatch Court Light Industrial Area, HIGH WYCOMBE	File: 23537-002a			
		Scale (@A3)	1:600		
TITLE:	Drainage and Feature Survey				
DATUM	HOR: PCG94	VERT: A.H.D.			

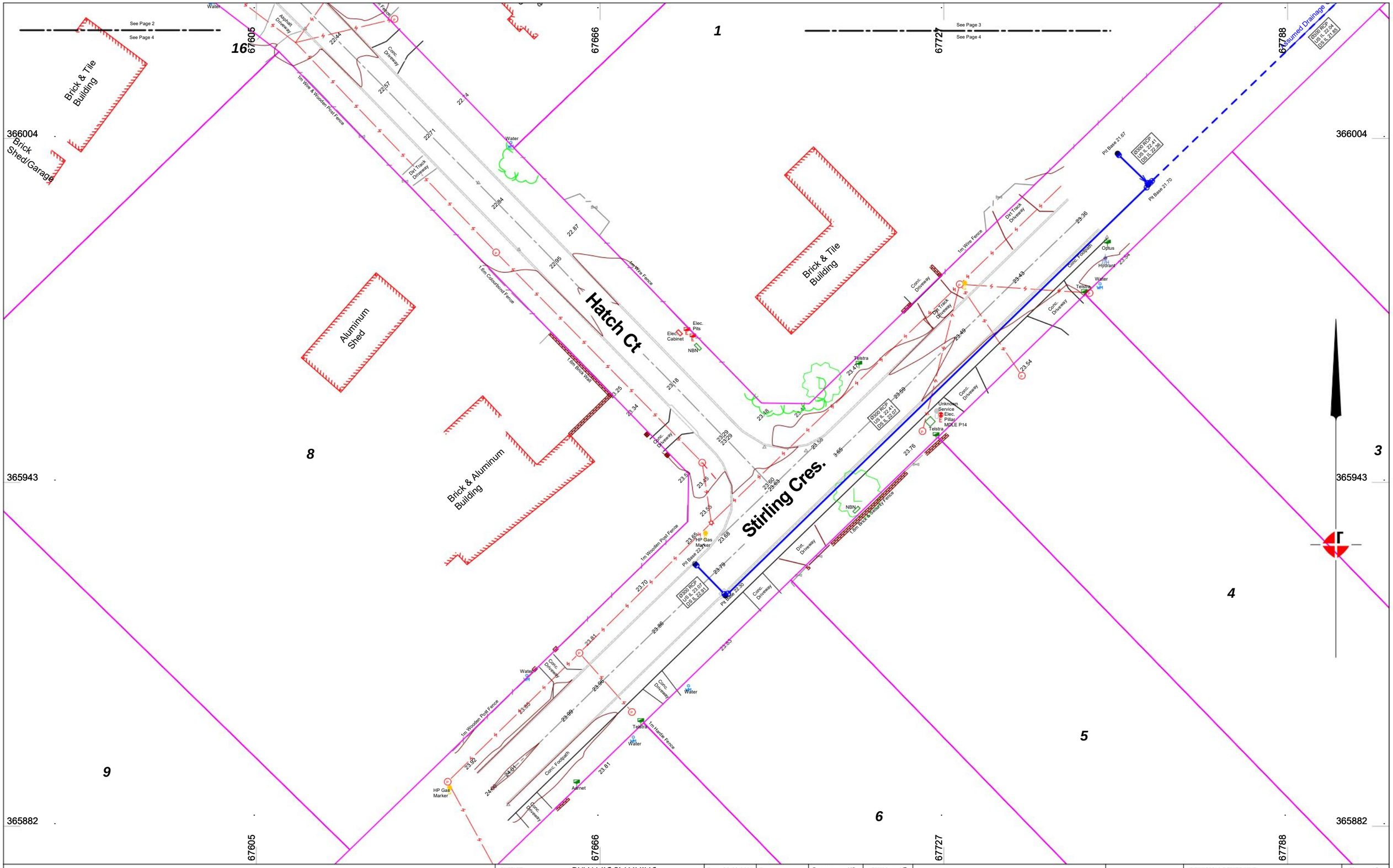
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REVISION SCHEDULE — Sheet 3 of 4

No.	Date	Description

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CLIENT:	DYNAMIC PLANNING	Date: 30/09/2025	Drawn: MD	Surveyor: KS	CHKd: MD
PROJECT:	Hatch Court Light Industrial Area, HIGH WYCOMBE	File:23537-002a			
		Scale (@A3)	1:600		
TITLE:	Drainage and Feature Survey				
DATUM	HOR: PCG94	VERT: A.H.D.			

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REVISION SCHEDULE — Sheet 4 of 4

No.	Date	Description

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NOTE : The ground contours and grid heights shown on this plan have been derived from Lidar data supplied by Landgate and captured on the 21/1/2022, utilising Lidar classification types of Ground and Road.

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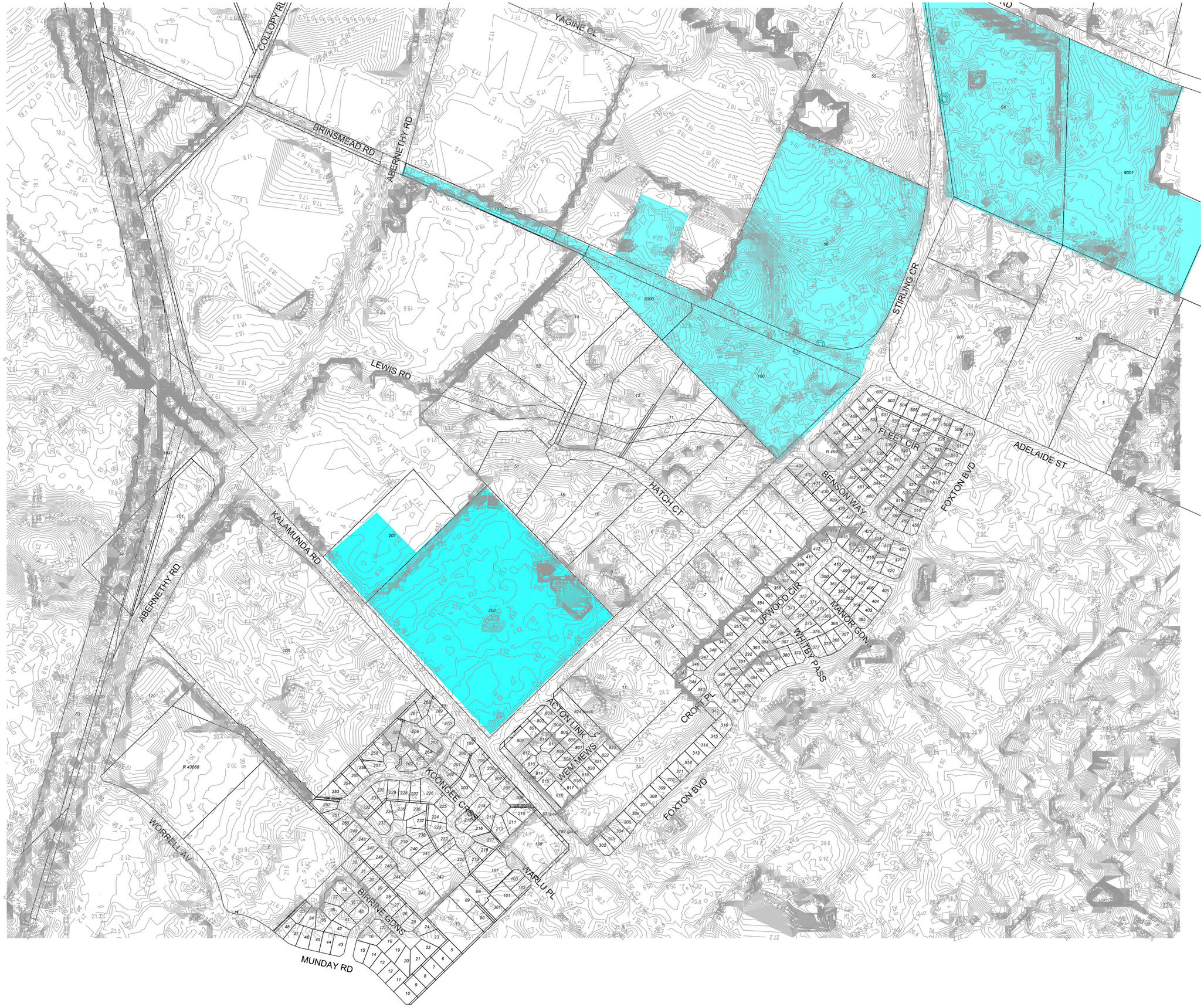
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PROJECT:	HATCH COURT LIGHT INDUSTRIAL AREA	File: 23537FS - Drawing001			
		Scale (@A1)	1:4000		
TITLE:	LATEST AERIAL IMAGERY				
DATUM	HOR: P.C.G. 2020	VERT: A.H.D.			
A.H.D. HEIGHTS DERIVED FROM :	LIDAR DATA				

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0 80 160 240 320 400

REVISION SCHEDULE			Sheet 1 of 1
No.	Date	Description	

Z:\+ MD\23537\Survey\Feature Survey\23537FS.mjo - Drawing001


YAGINE CL
COLLOPY RD
BRINSMEAD RD
ABERNETHY RD
LEWIS RD
STIRLING CR
ADELAIDE ST
FLEET CIR
BENSON WAY
FOXTON BVD
HATCH CT
KALAMUNDA RD
ABERNETHY RD
UPWOOD CIR
MANOR GDNS
WHITBY PASS
CROFT PL
ACTON LINK
WEM MEWS
FOXTON BVD
KOONGEE CRES
WARLU PL
BIRRINE GDNS
WORRELL AV
MUNDAY RD
R 43068
R 469
9001
9000
100
200
201
56
55
54
800
192
3
14
12
11
13

Appendix E DRAINAGE CATCHMENTS

Post Development Catchments

Hatch Court/ Stirling Crescent Structure Plan area

NOTE: External catchments have been further divided into lot catchments and road catchments to allow for on lot detention to be incorporated into the drainage model

ABERNETHY ROAD

ADELAIDE STREET

KALAMUNDA ROAD

HATCH COURT

STIRLING CRESCENT

E2Lb 6,669m²
IN1L 23,323m²
E1B 3,184m²
EXR 1,153m²
IN1P 21,284m²
IN1R 4,020m²
IN3L 25,446m²
E2La 35,823m²
E9R 11,083m²
E12L 12.5345ha
E10R 3,970m²
E8R 2,772m²
E3L 3,296m²
E11L 4,484m²
IN3P 8,379m²
E20P 2,173m²
IN2P 6,360m²
IN2L 16,298m²
E20L 23,045m²
E13R 7,254m²
E13L 13,115m²
E14R 10,127m²
IN3R 7,045m²
IN4L 12,916m²
E14L 5,310m²
E15R 3,211m²
IN5L 27,893m²
E7R 5,488m²
E20R 8,650m²
IN8L 20,254m²
IN9La 5,209m²
E15L 8,116m²
IN9Lb 5,127m²
IN6R 5,036m²
IN10L 8,986m²
IN6L 10,031m²
IN11La 5,275m²
IN7L 80,774m²
IN11Lb 5,268m²
E5R 3,266m²
IN7R 5,672m²
E17L 6,110m²
IN13L 5,065m²
E17R 5,636m²
E4R 2,835m²
IN12L 9,982m²
IN4P 5,027m²
E19P 2,511m²
E18L 12,688m²
E16C 12,333m²
E19R 3,400m²

LEGEND

- Subject land
- Cadastre
- Main Drainage Line
- Indicative POS Detention area
- Catchment Boundary
- Catchment Identifier & Area (IN5L 27,893m²)
- Internal flow direction
- External flow direction

Appendix F ENVIRONMENTAL REPORTS

HATCH COURT LIGHT INDUSTRIAL AREA, HIGH WYCOMBE

ENVIRONMENTAL ASSESSMENT REPORT

Prepared for:	Dynamic Planning and Developments
Report Date:	11 May 2026
Version:	2
Report No.	2025-921

pgv ENVIRONMENTAL

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1 INTRODUCTION

1.1 Location

The Hatch Court Light Industrial Area ('the site') is located in the City of Kalamunda, approximately 13km east-north-east of the Perth Central Business District (Figure 1). The site is made up of 16 lots bounded by Perth Airport Land to the north-west, Kalamunda Road to the south-west, Stirling Crescent to the south-east and Adelaide Street to the north-east (Figure 2). The site is approximately 30ha in size.

1.2 Background

The site was originally intended for residential use by rezoning to 'Urban' under the Metropolitan Region Scheme (Amendment 1187/57) in 2010. In February 2017, Council supported a request to rezone the HCLIA under subject Scheme Amendment 80 from 'Urban Development' to 'Light Industry'. It was considered that the proposed amendment would generate the need to prepare a local structure plan given previous issues raised by residents concerning traffic, access and management of the surrounding residential interface.

In January 2018, the Minster approved Scheme Amendment 80. The approval included amendments requested by the Western Australian Planning Commission (WAPC) which introduced additional site and development requirements under Clause 5.23 to the City's Local Planning Scheme No.3 (LPS3) including a Local Structure Plan.

Dynamic Planning and Developments commissioned PGV Environmental to prepare an Environmental Assessment Report (EAR) to provide an assessment of the environmental attributes of the site to assess the proposed Structure Plan (Appendix 1) to ensure that any significant environmental features of the site are considered during planning.

1.3 Scope of Works

The Environmental Assessment Report includes:

- A description of the recent and present land use including:
  - Surrounding land uses;
  - Assessment of current and historical activities on the site and surrounding areas; and
  - A search of the Department of Water and Environmental Regulation Contaminated Sites and Water Information; and
  - Heritage features.
- A description of the physical characteristics including:
  - Geology and Soils;
  - Hydrology;
  - Acid Sulphate Soil Risk Mapping.
- A description of the flora, vegetation and fauna values from the site visit and previous studies undertaken on the site;

- A wetland/creekline assessment including a site visit, mapping of wetland vegetation and determining foreshore values as per guidance including:
    - Operation Policy 4.3: *Identifying and establishing waterways foreshore areas* (DoW 2012);
    - Guidance Note 6: *Identifying and establishing waterways foreshore areas* (DoW 2013); and
    - Water Note 23: *Determining foreshore reserves* (WRC 2001).
- Implications, if any, under Western Australian policies and legislation such as the Environmental Protection Act 1986 and *Biodiversity Conservation Act 2016* and the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*.

2 LEGISLATION, POLICY AND GUIDELINES

The environmental assessment of the site has taken into consideration the following legislation, policy and guidelines and these will guide the required and expected management outcomes from the Commonwealth, State and Local government agencies.

2.1 Commonwealth Legislation

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is the Australian Government's central piece of environmental legislation. It provides a legal framework to protect and manage nationally and internationally important heritage places, ecological communities, flora and fauna that are defined in the Act as Matters of National Environmental Significance (MNES).

The Environmental Assessment identifies any MNES that may be impacted by development on the site. There is some habitat for listed species of Black Cockatoos in the Structure Plan Area. Impacts on Black Cockatoo habitat will be quantified.

2.2 State Legislation

2.2.1 *Environmental Protection Act 1986*

The *Environmental Protection Act 1986* (EP Act) is administered by the Department of Water and Environment Regulation (DWER). The Act provides for conservation, preservation, protection, enhancement and management of the environment and for matters incidental to or connected with it. The Act establishes head powers to provide mechanisms for the development of Environmental Protection Policies (EPP), the referral and assessment of proposals, the control of pollution and enforcement.

The Act also provides for an Environmental Protection Authority (EPA) that is a statutory authority and is the primary provider of independent environmental advice to Government (Environmental Protection Authority, 2024). The EPA is assisted by the Office of the EPA that forms part of DWER.

The EP Act has several Parts that are particularly relevant to the proposed Light Industrial development.

Clearing Permit

The EP Act regulates the clearing of native vegetation under Part V, Division 2 (sections 51A–51T). Under the EP Act, clearing of native vegetation requires a permit from DWER unless there is an exemption under the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*. Proposals that have approval by means of a subdivision are exempt from requiring a clearing permit to clear native vegetation if implementing the subdivision in accordance with the subdivision conditions requires the clearing of native vegetation.

Works Approval

Works approvals in Western Australia are regulated under Part V, Division 3 of the Environmental Protection Act 1986 (EP Act). This section mandates that construction or modification of prescribed

premises, which have the potential to cause pollution or emissions, requires a works approval before work commences. Individual development may require approval under this party of the EP Act.

2.2.2 *Biodiversity Conservation Act 2016*

The *Biodiversity Conservation Act 2016* (BC Act) protects all native species and threatened ecological communities The BC Act recognises that activities involving the taking of flora or fauna (other than threatened species) and the disturbing of fauna (including threatened species) that are approved under the EP Act do not require further approval under the BC Act, if they are undertaken in accordance with any biodiversity conservation conditions that are applied to an authorisation. These activities include clearing of native vegetation done in accordance with an implementation decision under Part IV of the EP Act.

2.2.3 *Contaminated Sites Act 2003*

The *Contaminated Sites Act 2003* (WA) is legislation that establishes a framework for identifying, reporting, classifying, and remediating land contaminated by hazardous substances above background levels in Western Australia. It forces responsible parties (polluters or owners) to manage risks to human health and the environment.

2.2.4 *Aboriginal Heritage Act 1972*

The *Aboriginal Heritage Act 1972* (AH Act) protects all Aboriginal sites whether or not they are known and registered under the AH Act.

If any artefacts or other heritage values are discovered during preliminary searches consultation, clearing or construction works they will be required to be managed according to the AH Act.

2.3 State Policy and Guidance

2.3.1 State Planning Policy No. 2.8 Bushland Policy for the Perth Metropolitan Region

State Planning Policy No. 2.8 Bushland Policy for the Perth Metropolitan Region (SPP 2.8) (Government of Western Australia, 2010) in conjunction with Bush Forever (Government of Western Australia, 2000) seeks to ensure the protection of at least 10 per cent of the original extent of each vegetation complex within the Perth Metropolitan Region. SPP 2.8 was developed to ensure that bushland protection and management issues are appropriately addressed and integrated as a part of future land use. Bush Forever identified approximately 51,200 hectares of regionally significant vegetation for retention. The management of these areas include reservation and acquisition by the State government, negotiated planning solutions with owners who are seeking urban and/or industrial development and advice, assistance and incentive programs to support private conservation.

There is no vegetation on the site that has been identified for protection under Bush Forever and no Bush Forever sites adjacent to the site.

2.3.2 State Planning Policy No. 2.9 Water Resources

State Planning Policy No. 2.9 Water Resources (SPP 2.9) (Government of Western Australia, 2006) aims to ensure the protection and appropriate management of water resources in line with state guidelines as included within the planning framework. The broad aims of this policy are to:

- Protect, conserve and enhance water resources;

- Assist in ensuring the availability of suitable water resources to maintain essential requirements for human and other biological life and to maintain or improve the quality and quantity of water resources; and
- Promote and assist in the management and sustainable use of water resources.

As a part of implementing this policy, the Better Urban Water Management framework was developed (WAPC, 2008). The framework provides detail on how water resources should be considered at each stage of planning by identifying the various actions and investigations required with regard to regional and local planning strategies, town planning schemes, structure plans, subdivisions, strata subdivision and development applications (WAPC, 2008).

2.3.3 Waterways Policy

Government policy and guidance relating to waterways foreshore areas is primarily administered by Department of Water and Environmental Regulation (DWER). A number of guidance documents assist with the determination of foreshore areas. These documents include:

- Operation Policy 4.3: *Identifying and establishing waterways foreshore areas* (DoW 2012);
- Guidance Note 6: *Identifying and establishing waterways foreshore areas* (DoW 2013); and
- Water Note 23: *Determining foreshore reserves* (WRC 2001).

2.3.4 Environmental Guidance for Planning and Development

The purpose of Environmental Protection Authority (EPA) Guidance Statement No. 33 *Environmental Guidance for Planning and Development* (EPA, 2008) is to outline the significance of environmental factors and to provide the key definitions associated with the environmental factors. Ensuring that environmental factors are considered in line with the EPA's principals and objectives and within the planning framework is what this EAR is primarily targeted at. In particular, EPA Guidance Statement No. 33 aims to:

- Provide an overview to environmental protection processes and information;
- Describe the referral and environmental impact assessment process under Part IV of the EP Act; and
- Provide the EPA's position and advice on a range of environmental factors, outlining how to protect, conserve and enhance the environmental values.

2.4 City of Kalamunda

The City of Kalamunda has a number of Local Planning Policies (LPPs) that detail the Shire's expectations with regard to managing the environment during planning and development as well as the factors that need to be considered throughout the planning process. Key LPPs and other guidelines that are applicable to the site and the environmental values within the site are outlined below:

- City of Kalamunda *Local Planning Scheme No.3* (WAPC, 2007) which requires Structure planning for the precinct to include:

    1. *A structure plan is to be prepared and approved for the land pursuant to Part 4 of the deemed provisions and is to specifically address:*

(a) *Traffic management including:*
   - *Provision of future vehicular access to be primarily via Adelaide Street;*
   - *Ensuring any vehicular access to Kalamunda Road does not reduce existing levels of access for adjacent properties; and*
   - *Access for lots with frontage to Stirling Crescent being provided via an internal road only.*

(b) *Appropriate interface with existing residential development along Stirling Crescent including setbacks, landscaping, fencing and façade treatment provisions;*

(c) *The identification and protection of environmentally significant areas within the land through the provision of appropriate buffers; and*

(d) *The identified bushfire risk in accordance with State Planning Policy 3.7 and Guidelines for Planning in Bushfire Prone Areas.*

2. *Subdivision and / or development is to generally be in accordance with the approved structure plan.*

- City of Kalamunda *Local Biodiversity Strategy 2023-2030* (City of Kalamunda, 2023) which outlines the overarching management of Local Natural Areas and environmental assets in the City;
- City of Kalamunda Draft Local Planning Policy (LPP) 34 *Wetlands and Waterways* (City of Kalamunda, 2021) which outlines the planning considerations for wetlands and waterways. Relevant to the site the LPP requires the following;

3. *Waterway foreshore areas are determined by several biophysical characteristics that contribute to the health and function of the waterway ecosystem. The width of a waterway foreshore should therefore reflect the biophysical characteristics of the waterway.*

4. *Planning applications for proposals adjacent to waterways shall be accompanied by a biophysical assessment to determine an appropriate foreshore width, undertaken in accordance with the Department of Water's (now Department of Water and Environment Regulation) Operational Policy: Identifying and Establishing Waterway Foreshore Areas and the Water and Rivers Commission's (now Department of Water and Environment Regulation) Determining Foreshore Reserves.*

5. *The biophysical assessment shall be undertaken by a suitably qualified professional and shall include:*

   a) *The extent, type and condition of the riparian and terrestrial native vegetation associated with or influencing the waterway.*

   b) *Flood prone land and areas subject to waterway channel changes, including the floodway and flood fringe.*

   c) *Riverine landform (topography and geomorphology).*

   d) *Landforms, soil types and soil characteristics that influence the extent of foreshore vegetation, erosion and the movement of nutrients and contaminants (including acid sulfate soils).*

   e) *Aquatic and riparian flora and fauna and their habitat.*

   f) *Land use compatibility.*

   g) *Heritage - archaeological and ethnographic sites.*

h) *Mapping of biophysical features and proposed foreshore boundary over recent aerial imagery.*

i) *Justification as to the location and extent of the proposed foreshore boundary.*

6. *In the absence of a biophysical assessment, the City may agree to a conservative foreshore width that adequately protects and enhances the hydrological, ecological, and social values of the waterway. In determining a conservative foreshore width, the City may rely on recent, high-quality aerial imagery, as well as a site visit to ensure waterway values will be adequately protected and enhanced.*
7. *The foreshore width to a waterway shall not be less than 15 m in width, measured each side of the waterway, extending outwards from the high water line.*
8. *Permissible activities or actions as part of, or as a result of, development proposals within the waterway foreshore include:*
   a) *Rehabilitation of disturbed areas, including vegetation restoration, weed control and erosion control measures*
   b) *Retention of all native vegetation*
   c) *Passive recreation such as footpaths, where native vegetation is not adversely impacted*
   d) *Conservation fencing and gates to controlled undesired access.*

Local Planning Policy 34 also provides a guideline for buffer distance to wetlands as outlined in Table 1.

Table 1: Buffer Distances as per Draft LPP 34

Category	Wetland Management Category Objective (Hill *et al* 1996)	Buffer Distance (unless varied in accordance with Clause 6)
Geomorphic Wetland-Conservation Category Wetland	To preserve wetland (natural) attributes and functions.	50 m
Geomorphic Wetland-Resource Enhancement Wetland	To restore wetlands through maintenance and enhancement of wetland functions and attributes.	30 m
Geomorphic Wetland-Multiple Use Wetland	To use, develop and manage wetlands in the context of water, town, and environmental planning.	No buffer requirement.

Source: Draft LPP 34 City of Kalamunda, 2021

- City of Kalamunda Draft Local Planning Policy (LPP) 35 *Hatch Court Light Industrial Precinct* (City of Kalamunda, 2022) which provides guidance for progressing the development potential of the site.

3 EXISTING ENVIRONMENT

3.1 Land Use

3.1.1 Historic Land Use

A review of historical aerial photography shows a mixture of dry and wet areas. The earliest aerial photography available is from 1953 (Landgate, 2025a) and shows the site has heavily cleared and disturbed probably for grazing at this early date (Plate 1). Some native vegetation remains.

Plate 1: Aerial Photograph from 1953 (Landgate, 2025a)



In aerial photography from 1985 a creekline is apparent, running from east to west through the middle of the site. A drainage channel has been constructed through the creekline (Plate 2). The 1985 photograph also show that development of the Stirling Precinct is underway as well as construction on Lot 200 Kalamunda Road.

The photograph from 1995 shows further development on the site (Plate 3). Lot 200 Kalamunda Road was fully developed for hardstand in 2023 to 2024 (Plate 4).

Plate 2: Aerial Photograph from 1985 (Landgate, 2025a)



Plate 3: Aerial Photograph from 1995 (Landgate, 2025a)



Plate 4: Aerial Photograph from 2000 (Landgate, 2025a)



The site is not a known or suspected contaminated site as listed under the *Contaminated Sites Act 2003* (DWER, 2025a). There may be small areas of contamination that may require investigation and possibly remediation prior to development.

3.1.2 Surrounding Land Use

To the north and west of the site is developed industrial land and to the south and east are residential areas and a retirement village. Ollie Worrel Reserve is approximately 300m to the south and contains breeding habitat for birds.

3.2 Heritage

3.2.1 European Heritage

Heritage sites can be listed under the following lists/registers:

- World Heritage Sites;
- National Heritage Sites;
- Commonwealth Heritage Sites;
- Sites on the register of the National Estate;
- Sites on the Western Australian Heritage Council Register; and
- Sites listed in the City of Kalamunda Municipal Heritage Inventory List.

There are no listed Heritage Sites or Interim Heritage Sites on the site (National Map, 2025; Heritage Council of Western Australia, 2025; DCCEEW, 2025).

3.2.2 Aboriginal Cultural Heritage

There is part of a listed Aboriginal Cultural Heritage Site mapped on the site, Site ID 3719 Munday Swamp (Appendix 2). There is also a lodged Aboriginal Cultural Heritage Site ID 30039, Stirling Crescent Swamp. Lodged Aboriginal Cultural Heritage Sites are mapped from information which has been received in relation to an Aboriginal cultural heritage place, but is yet to be assessed under Section 5 of the *Aboriginal Heritage Act 1972.*

3.3 Topography

The site is predominantly low lying and flat ranging from 21.15m Australian Height Datum (AHD) in the south-east, 24m AHD in the north and 22m AHD in the north-east corner (Figure 2). The site rises gently from the south-east to the north-west (Figure 2).

3.4 Geomorphology and Soils

3.4.1 Geology

The site is located on the eastern side of the Swan Coastal Plain. The Swan Coastal Plain is generally flat and is approximately 20 to 30 kilometres wide, consisting of a series of geomorphic entities running parallel to the coastline. The site is mapped as being part of the Pinjarra Plain System (DPIRD, 2025). The Pinjarra Plain has successive layering of soils formed from erosion of material from the scarp and east of the scarp (van Gool, 1999).

The Pinjarra Plain System consists of broad low relief plain west of the foothills, comprising predominantly Pleistocene fluvial sediments and some Holocene alluvium associated with major current drainage systems (Bolland, 1998). The major soils are naturally poorly drained and many swamps occur (DPIRD, 2025).

3.4.2 Soils

The soil phases mapped on the site are:

- Pinjarra, Ya2 Phase (213Pj_Ya2) is located on plain and swamp margins with deep, poorly drained, grey siliceous sand overlying clay.
- Pinjarra, Phase Gf7 (213Pj_Gf7) is located on minor rises with deep, rapidly drained brownish, siliceous or bleached sands underlain by mottled yellow clay (DPIRD, 2025).

3.4.3 Land Degradation Risks

The Land Degradation Risk Categories of the soil phases mapped on the site are outlined in Table 2.

Table 2: Land Degradation Risk Categories

Soil Type	Water Erosion	Wind Erosion	Waterlogging	Flooding	Salinity risk
Pinjarra, Ya2 Phase	<3% of map unit has a high to extreme water erosion risk	50-70% of map unit has a high to extreme wind erosion risk	>70% of map unit has a moderate to very high risk	<3% of the map unit has a moderate to high hazard	3-10% of the map unit has a moderate to high hazard

Soil Type	Water Erosion	Wind Erosion	Waterlogging	Flooding	Salinity risk
Pinjarra, Phase Gf7	<3% of map unit has a high to extreme water erosion risk	>70% of map unit has a high to extreme wind erosion risk	10-30% of map unit has a moderate to very high risk	<3% of the map unit has a moderate to high hazard	<3% of the map unit has a moderate to high hazard

In summary, all of the soils on the site have a risk of wind erosion. There is a low risk associated with the soils of water erosion or flooding and only the Pinjarra phase has a risk of waterlogging and salinity.

3.4.4 Acid Sulphate Soils

Acid sulphate soils (ASS) are wetland soils and unconsolidated sediments that contain iron sulphides which, when exposed to atmospheric oxygen in the presence of water, form sulphuric acid. ASS form in protected low energy environments such as barrier estuaries and coastal lakes and commonly occurs in low-lying coastal lands such as Holocene marine muds and sands. When disturbed, these soils are prone to produce sulphuric acid and mobilise iron, aluminium, manganese and other heavy metals. The release of these reaction products can be detrimental to biota, human health and built infrastructure.

The ASS Risk on the site has been mapped by the Department of Water and Environmental Regulation (DWER) (Landgate, 2025b) as being Moderate to Low (<3m from the surface) over most of the site (areas in orange on Plate 5). The areas associated with the wetter areas of the site are mapped as having a High to Moderate risk (<3m from the surface) (areas in red on Plate 5).

Plate 5: Acid Sulphate Soils Risk Mapping



3.5 Flora and Vegetation

3.5.1 Previous Studies

Previous studies undertaken on the site include:

- A flora and vegetation survey of Lot 200 Kalamunda Road was undertaken by ENV Australia (2009).
- A review of the flora, vegetation and wetland values of Lot 200 by Mattiske Consulting Pty Ltd (2010).
- Wetland assessment of the eastern part of the creekline (PGV Environmental, 2012);
- A vegetation appraisal for the northern section of the site in 2014 (PGV Environmental, 2014).

3.5.2 Desktop Searches

Searches of the following databases were undertaken prior to the site survey:

- DBCA Threatened and Priority Flora Databases including the WA Herbarium database (WAHerb) and Threatened (Declared Rare) and Priority Flora Species List (TFPL) (Appendix 3) (DBCA, 2025) for a radius of 10 km (Search Reference: 10-0925FL) that provides a list of Threatened and Priority species recorded in the area;
- Atlas of Living Australia (ALA, 2025) (Appendix 4) which shows all species that have been recorded within a 10km radius of the site.
- The EPBC Act Protected Matters Search Tool (DCCEEW, 2024) (Appendix 5) which identifies species that are listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) that could potentially have habitat within a 5km radius of the site.
- DBCA Threatened and Priority Ecological Community Database (Appendix 6) for a radius of 10km that provides a list of Threatened and Priority ecological communities recorded in the area (DBCA, 2025b) (Search Reference: 65-0825EC).

3.5.3 Survey Methodology

A Reconnaissance Flora and Vegetation Survey of the site was undertaken by PGV on 7 July 2025 in accordance with the Environmental Protection Authority Technical Guidance: *Flora and Vegetation Surveys for Environmental Impact Assessment* (2016). The survey included a review of previous studies and a thorough site walkover.

3.5.4 Flora Database Search Results

The results of the database searches and their likelihood to occur on the site is outlined in Table 3. Many of the species identified are from the Perth Hills or claypan habitats and do not have habitat on the site.

None of the species identified have been previously recorded on the site and there are no species expected to occur on the site as there is no suitable habitat due to previous clearing of the site.

Conservation codes are in Appendix 7.

Table 5: Identified Significant Flora Species and Likelihood of Occurring on the Site

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Caladenia huegelii	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	Critically Endangered	Endangered	The Grand Spider-orchid prefers deep grey-white sand usually associated with the Bassendean sand-dune system, however, rare plants have been known to extend into the Spearwood system (in which calcareous yellow sands dominate) in some areas (DEC, 2009a). This species generally does not survive in disturbed areas.	Highly Unlikely – the site is on the Pinjarra Plain
Calectasia cyanea	Blue Tinsel Lily	Critically Endangered	Critically Endangered	The Blue Tinsel Lily prefers white, grey or yellow sand or gravel. This species is restricted to Torndirrup National Park and Albany region of the South West Botanical Province (Barrett and Dixon, 2001).	No – species record in error – outside of species range
Calytrix breviseta subsp. *breviseta*	Swamp Starflower	Critically Endangered	Endangered	The Swamp Starflower occurs in sandy clay in swampy flats.	Highly Unlikely – not suitable habitat
Drakaea elastica	Glossy-leafed Hammer Orchid	Critically Endangered	Endangered	The Glossy-leafed Hammer Orchid prefers low-lying situations adjoining winter-wet swamps and grows on bare patches of sand within otherwise dense vegetation in low-lying areas alongside winter-wet swamps, typically in banksia (*Banksia menziesii*, *B. attenuata* and *B. ilicifolia*) woodland or spearwood (*Kunzea glabrescens*) thicket vegetation (DEC, 2009b).	Highly Unlikely – not suitable habitat
Eremophila nivea	Silky Eremophila	Critically Endangered	Endangered	Silky Eremophila occurs on sandy clay, clay loam on undulating plains, road verges.	No – species record in error – outside of species range
Eucalyptus x balanites	Cadda Road Mallee	Critically Endangered	Endangered	The Cadda Road Mallee prefers sandy soils with lateritic gravel.	Highly Unlikely – not lateritic habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Gastrolobium hamulosum	Hook-point Poison	Critically Endangered	Endangered	Hook-point Poison prefers sandy, often gravelly soils or clay and flats, slopes, ridges.	No – species record in error from 1844 – outside of species range
Grevillea maccutcheonii	McCutcheon's Grevillea	Critically Endangered	Endangered	McCutcheon's Grevillea prefers shallow soils over laterite, clay on seasonally inundated sites near Busselton.	No – species record in error – outside of species range
Grevillea thelemanniana	Spider Net Grevillea	Critically Endangered	Critically Endangered	Spider Net Grevillea occurs on sandy clay soil in flat seasonally wet damplands and limestone soils are associated with some of the sites (TSSC, 2018).	Highly Unlikely – not suitable habitat
Hemiandra rutilans	Sargents Snakebush, Colourful Snakebush	Critically Endangered	Endangered	Sargents Snakebush grows in yellow/grey sand and was originally collected at Sand Springs, south-west of York, which is now extinct. The most recent confirmed location was south of Dowerin where it grew in low Banksia prionotes woodland with *Eremaea pauciflora*, *Nuytsia floribunda* and *Verticordia densiflora* (DEC, 2008a).	No – species record in error from 1877 – outside of species range
Ptilotus pyramidatus	Pyramid Mulla-mulla	Critically Endangered	Critically Endangered	The Pyramid Mulla-mulla in known from one location and occurs on seasonally inundated flat (floodplain) with *Melaleuca acutifolia*, *Verticordia plumosa* var. *brachyphylla*, *Hypocalymma angustifolium*, *Meeboldii cana*, *Chorizandra enodis*, rushes, sedges and species-rich native annual herbs and geophytes (DPaW, 2016).	Highly Unlikely – not suitable habitat
Thelymitra dedmaniarum	Cinnamon Sun-orchid	Critically Endangered	Endangered	Cinnamon Sun-orchid is known from only two locations in the Gidgegannup area. It is confined to open wandoo woodland on red-brown sandy loam associated with dolerite and granite outcropping (DEC, 2012).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Thelymitra magnifica	Crystal Brook Star-orchid	Critically Endangered		The Crystal Brook Star-orchid occurs on stony ridges with granite outcrops (Brown et al., 2013)	Highly Unlikely – not suitable habitat
Thelymitra variegata	Queen of Sheba	Critically Endangered		The Queen of Sheba orchid grows on sandy clay, sand and laterite. The orchid is found in banksia and Jarrah woodland (Brown *et al*., 2013)	Highly Unlikely – not suitable habitat
Acacia denticulosa	Sandpaper Wattle	Endangered	Vulnerable	Sandpaper Wattle occurs in sand, loam, clay on granite outcrops, rarely on sandplains.	Highly Unlikely – not suitable habitat
Austrostipa bronweniae		Endangered	Endangered	*Austrostipa bronweniae* is recorded from wetlands seasonally waterlogged muddy sand with *Gahnia trifida*, *Actinostrobus pyramidalis*, *Grevillea thelemanniana*, *Melaleuca viminea* subsp. *viminea* (Australian National Herbarium, 2009).	Unlikely – not typical habitat
Byblis gigantea	Rainbow Plant	Endangered		The Rainbow Plant occurs in sandy-peat swamps in seasonally wet areas.	Highly Unlikely – not suitable habitat
Darwinia apiculata	Scarp Darwinia	Endangered	Endangered	The Scarp Darwinia grows in lateritic soils.	Highly Unlikely – not suitable habitat
Diplolaena andrewsii	Native Wild Rose	Endangered	Endangered	The Native Wild Rose occurs on loam, clay in association with granite outcrops and hillsides.	No – species record in error – outside of species range
Diuris drummondii	Tall Donkey Orchid	Endangered	Vulnerable	The Tall Donkey Orchid grows in low-lying depressions in peaty and sandy clay swamps (DEC, 2008), in areas that contain surface water well into summer (Brown *et al*., 2013).	Highly Unlikely – not suitable habitat
Diuris purdiei	Purdie's Donkey-orchid	Endangered	Endangered	Purdie's Donkey Orchid occurs in grey-black sand in moist winter-wet swamps with winter inundation in dense heath with scattered trees and amongst native sedges and dense heath with scattered emergent *Melaleuca preissiana*, *Corymbia calophylla*, *E. marginata* and *Nuytsia floribunda*.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Drakaea micrantha	Dwarf Hammer-orchid	Endangered	Vulnerable	Dwarf Hammer-orchid usually occurs on cleared fire breaks or open sandy patches in Banksia, Jarrah and Sheoak woodlands or forest and often found under Spearwood thickets.	Unlikely – not typical habitat
Eremophila glabra subsp. *chlorella*		Endangered	Endangered	*Eremophila glabra* subsp. *chlorella* occurs in sandy clay in winter-wet depressions associated with *Casuarina obesa*, *Viminaria juncea, Melaleuca lateritia, M. acutifolia, M. rhaphiophylla, M. viminea, M. teretifolia, M. brevifolia, Chorizandra enodis, Eucalyptus wandoo, E. loxophleba*, *Acacia saligna, A. microbotrya, Banksia telmatiaea, B. nivea* subsp. *nivea*, *Regelia ciliata, Petrophile seminuda, Verticordia densiflora* var. *densiflora* and *Calothamnus hirsutus* (DPaW, 2016).	Highly Unlikely – not suitable habitat
Grevillea curviloba	Narrow curved-leaf Grevillea	Endangered	Endangered	Narrow curved-leaf Grevillea prefers sand, sandy loam in winter-wet heath.	Highly Unlikely – not suitable habitat
Lepidosperma rostratum	Beaked Lepidosperma	Endangered	Endangered	Beaked Lepidosperma is found in peaty sand, clay associated with *Banksia telmatiaea* and *Calothamnus hirsutus*.	Highly Unlikely – not suitable habitat
Macarthuria keigheryi	Keighery's Macarthuria	Endangered	Endangered	Keighery's Macarthuria prefers white or grey sand on low-lying winter-wet damp sands growing among heathland, Jarrah and Sheoak/Banksia woodland and Banksia/Eucalypt Woodland (DEC, 2008b).	Highly Unlikely – not suitable habitat
Thelymitra stellata	Star Sun-orchid	Endangered	Endangered	The Star Sun-orchid grows in gravelly loam among low heath and scrub in *Eucalyptus marginata* (Jarrah) and *E. wandoo* (Wandoo) woodland, and in low heath on lateritic hill tops.	Highly Unlikely – not suitable habitat
Trithuria occidentalis	Swan Hydatella	Endangered	Endangered	Swan Hydatella grows partly submerged on the edge of shallow, winter-wet claypans in very open shrubland of Robin Redbreast Bush (*Melaleuca lateritica*) and numerous annual herbs.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Acacia anomala	Grass Wattle, Chittering Grass Wattle	Vulnerable	Vulnerable	The Grass Wattle prefers lateritic soils and slopes.	Highly Unlikely – not suitable habitat
Acacia aphylla	Leafless Rock Wattle	Vulnerable	Vulnerable	Leafless Rock Wattle occurs in sand, loam, clay loam on granite outcrops, hills.	Highly Unlikely – not suitable habitat
Andersonia gracilis	Slender Andersonia	Vulnerable	Endangered	Slender Andersonia occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps. Vegetation type is low open heath with shrubs over sedges (DEC, 2006).	Highly Unlikely – not suitable habitat
Anigozanthos viridis subsp. *terraspectans*	Dwarf Green Kangaroo Paw	Vulnerable	Vulnerable	The Dwarf Green Kangaroo Paw occurs on grey sand, clay loam in winter-wet depressions.	No – outside of species range
Anthocercis gracilis	Slender Tailflower	Vulnerable	Vulnerable	Slender Tailflower occurs in sandy or loamy soils near granite outcrops.	Highly Unlikely – not suitable habitat
Banksia mimica	Summer Honeypot	Vulnerable	Endangered	Summer Honeypot prefers white or grey sand over laterite, sandy loam.	Highly Unlikely – not suitable habitat
Boronia adamsiana	Barbalin Boronia	Vulnerable	Vulnerable	Barbalin Boronia occurs in yellow sand/loam over laterite on flats, road verges.	No – species record in error from 1889 – outside of species range
Chamelaucium lullfitzii	Gingin Wax	Vulnerable	Endangered	Gingin wax is restricted to a very small area associated with the Gingin scarp, south of Gingin where plants grow on white, grey, or yellow sands in low open banksia woodland (Marchant, 2019).	Highly Unlikely – not suitable habitat
Conospermum undulatum	Wavy-leaved Smokebush	Vulnerable	Vulnerable	Wavy-leaved Smokebush occurs on sand and sandy clay soils, often over laterite, on flat or gently sloping sites between the Swan and Canning Rivers with a few records from slightly swampy habitat (DEC, 2009c).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Diuris micrantha	Dwarf Bee-orchid	Vulnerable	Vulnerable	The Dwarf Bee-orchid is usually found on brown loamy clay in winter-wet swamps, in shallow water.	Highly Unlikely – not suitable habitat
Eleocharis keigheryi	Keighery's Eleocharis	Vulnerable	Vulnerable	Keighery's Eleocharis occurs in clay, sandy loam and is emergent in freshwater: creeks, claypans.	Highly Unlikely – not suitable habitat
Gastrolobium lehmannii	Cranbrook Pea	Vulnerable	Vulnerable	The Cranbrook Pea occurs in red clay, laterite on low hilltop of breakaway.	No – record in error – outside of species range
Grevillea flexuosa	Zig Zag Grevillea	Vulnerable	Vulnerable	Zig Zag Grevillea occurs in red-brown sand with laterite and gravel, sand over granite on ridgetop plateaus and associated breakaways.	Highly Unlikely – not suitable habitat
Morelotia australiensis (Listed as *Tetraria australiensis*)	Southern Tetraria	Vulnerable	Vulnerable	Southern Tetraria occurs in grey sand over clay; also described as yellow and sandy or clayey lateritic soils favouring winter-wet swampy depressions, drainage lines or rises surrounding swamps.	Unlikely – not typical habitat
Ptychosema pusillum	Dwarf Pea	Vulnerable	Vulnerable	Dwarf Pea occurs in sand on rises.	No – record in error – outside of species range
Ricinocarpos trichophorus	Barrens Wedding Bush	Vulnerable	Endangered	Barrens Wedding Bush grows in sandy clay, loam on breakaways, among sandstone rocks.	No – record in error – outside of species range
Amanita quenda	Quenda lepidella	Priority 1		Quenda lepidella are solitary or scattered, in moist sandy soil in wetland vegetation (Davidson *et al*., 2015).	Unlikely – not typical habitat
Bolboschoenus fluviatilis	River Bulrush	Priority 1		River Bulrush occurs on the margins of wetlands and rivers.	Unlikely – not typical habitat
Boronia humifusa		Priority 1		*Boronia humifusa* grows in gravelly clay loam over laterite in Jarrah-marri open forest.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Calandrinia sp. Bayswater (C. Andrews s.n. 11/1902)		Priority 1		*Calandrinia* sp. Bayswater is known from Bayswater growing in grey sand over sand.	Highly Unlikely – not suitable habitat
Drosera paleacea	Dwarf Sundew	Priority 1		Dwarf Sundew occurs in white sand, sandy clay.	No – record in error – occurs near Albany
Drosera patens		Priority 1		*Drosera patens* occurs in sandy soils on the margins of winter-wet depressions, swamps and lakes.	Unlikely – not typical habitat
Drosera x sidjamesii		Priority 1		*Drosera x sidjamesii* grows in peaty sand along lake margins, close to winter high-water line.	Highly Unlikely – not suitable habitat
Hydrocotyle striata		Priority 1		*Hydrocotyle striata* occurs in clay near springs.	Highly Unlikely – not suitable habitat
Korthalsella leucothrix	Jointed Mistletoe	Priority 1		Jointed Mistletoe occurs on *Acacia acuminata* and *A. craspedocarpa*.	No – record in error – outside of species range
Levenhookia preissii	Preiss's Stylewort	Priority 1		Preiss's Stylewort occurs in grey or black peaty sands in swamps.	Highly Unlikely – not suitable habitat
Senecio gilbertii		Priority 1		Senecio gilbertii grows in peaty sand near swamps on slopes.	Highly Unlikely – not suitable habitat
Acacia benthamii		Priority 2		*Acacia benthamii* grows on sand, typically on limestone breakaways	Highly Unlikely – not limestone habitat
Calectasia grandiflora	Blue Tinsel Lily	Priority 2		Blue Tinsel Lily occurs in white, grey or yellow sand, sandy clay, gravel, laterite and granite in swampy areas, rock outcrops, flats, slopes and ridges.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Calymperastrum latifolium		Priority 2		*Calymperastrum latifolium* is recorded from a shaded *Macrozamia* stem on a large rocky outcrop (Western Australian Herbarium, 1994).	No – no host plants on the site
Commersonia sp. Lesmurdie (A.A. Mitchell 11429)		Priority 2		*Commersonia* sp. Lesmurdie is recorded from sloping seepage with brown cracking clay soil on basalt sill (Western Australian Herbarium, 2022).	Highly Unlikely – not suitable habitat
Johnsonia pubescens subsp. *cygnorum*		Priority 2		Johnsonia pubescens subsp. cygnorum occurs on grey-white-yellow sand often overlying clays in Jarrah/Banksia woodland (Keighery, 2001) on flats on seasonally-wet sites	Highly Unlikely – not suitable habitat
Lepyrodia curvescens		Priority 2		*Lepyrodia curvescens* occurs in sand, laterite in seasonally inundated swampland.	Highly Unlikely – not suitable habitat
Leucopogon sp. Busselton (D. Cooper 243)		Priority 2		*Leucopogon* sp. Busselton is recorded from a seasonal dampland in seasonally wet, white sand (Western Australian Herbarium, 2011).	Highly Unlikely – not suitable habitat
Petrophile carduacea		Priority 2		Petrophile carduacea occurs in gravelly soils.	No – record in error – occurs in the Stirling Range
Poranthera moorokatta		Priority 2		*Poranthera moorokatta* grows in white silica sand and has been recorded in Banksia woodland and in a shallow dampland (Barrett, 2012).	Highly Unlikely – not suitable habitat
Scaevola paludosa		Priority 2		Scaevola paludosa prefers sandy soils.	No – record in error – occurs near Esperance
Stylidium falcatum	Slender Beaked Triggerplant	Priority 2		Slender Beaked Triggerplant occurs in sand, gravelly clay loam on plains, lateritic ridges.	No – record in error – occurs near Albany

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Thomasia brachystachys		Priority 2		*Thomasia brachystachys* occurs in littered, organic brown soil in high, open or dense forests.	No – record in error – occurs in the Stirling Range
Acacia drummondii subsp. *affinis*		Priority 3		*Acacia drummondii* subsp. *affinis* grows in lateritic gravelly soils.	Highly Unlikely – not suitable habitat
Acacia horridula		Priority 3		*Acacia horridula* grows in gravelly soils over granite, sand on rocky hillsides.	Highly Unlikely – not suitable habitat
Acacia oncinophylla subsp. *oncinophylla*		Priority 3		*Acacia oncinophylla* subsp. *oncinophylla* occurs in granitic soils	Highly Unlikely – not suitable habitat
Allocasuarina grevilleoides		Priority 3		*Allocasuarina grevilleoides* grows in sand over laterite, gravel.	Highly Unlikely – not suitable habitat
Amanita carneiphylla	Miller's Pink-Gilled Lepidella	Priority 3		Miller's Pink-Gilled Lepidella is a deeply rooting species and grows in sandy soil with *Eucalyptus*, *Banksia*, and *Allocasuarina* and at one site, Mediterranean *pine* (Pinus) was also found (Tulloss, 2022).	Highly Unlikely – not suitable habitat
Amanita drummondii	Drummond's Grisette	Priority 3		Drummond's Grisette is solitary to gregarious in leaf litter in association with *Agonis flexuosa, A. theiformis, Allocasuarina fraseriana, Corymbia calophylla, Eucalyptus marginata, E. patens, E. staeri, Jacksonia furcellata, Kunzea glabrescens, Melaleuca sp., Podocarpus drouynianus, Taxandria parviceps*. (Davidson *et al*., 2015) growing in sandy soil (Amanitaceae Org, 2015).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Amanita fibrillopes	Peach Amanita	Priority 3		Peach Amanita is recorded from sandy or gravelly soil in dry sclerophyll forest and Banksia woodland, or in humus rich soil in seasonally wet eucalypt and paperbark woodland, often associated with *Eucalyptus marginata, E. jacksonii, Allocasuarina fraseriana, Corymbia calophylla, Melaleuca preissiana* and *Agonis* sp. (Davison *et al*., 2013).	Highly Unlikely – not suitable habitat
Amanita kalamundae	Kalamunda Lepidella	Priority 3		Kalamunda Lepidella is found In deep litter under *Eucalyptus patens* and *Agonis eriofolia* (Amanitaceae Org, 2018).	Highly Unlikely – not suitable habitat
Amanita preissii	Cinnamon-ring Lepidella	Priority 3		Cinnamon-ring Lepidella is found under shrubs and Eucalyptus in West Australia (Amanitaceae Org, 2015) in sandy soil and lateritic gravel, associated with *Allocasuarina fraseriana, Acacia pulchella, Corymbia calophylla, Callitris sp., Eucalyptus gomphocephala, E. marginata, Macrozamia fraseri* and *Pinus pinaster* (Davidson *et al.,* 2017).	Highly Unlikely – not suitable habitat
Angianthus drummondii		Priority 3		*Angianthus drummondii* grows in grey or brown clay soils, ironstone on seasonally wet flats.	Highly Unlikely – not suitable habitat
Angianthus micropodioides		Priority 3		*Angianthus micropodioides* occurs in saline sandy soils on river edges, saline depressions, claypans.	Highly Unlikely – not suitable habitat
Asteridea gracilis		Priority 3		Asteridea gracilis prefers sand, clay, gravelly soils.	Highly Unlikely – not suitable habitat
Babingtonia urbana	Coastal Plain Babingtonia	Priority 3		Coastal Plain Babingtonia occurs in orange sand, brown loam, white sandy clay on low flats, winter-wet swamps.	Highly Unlikely – not suitable habitat
Banksia pteridifolia subsp. *vernalis*		Priority 3		*Banksia pteridifolia* subsp. *vernalis* occurs in white/grey sand over laterite.	Unlikely – not typical habitat
Beaufortia purpurea	Purple Beaufortia	Priority 3		Purple Beaufortia occurs in lateritic or granitic soils on rocky slopes.	Unlikely – not typical habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Carex tereticaulis		Priority 3		Carex tereticaulis prefers black peaty sand.	Highly Unlikely – not peaty habitat
Chamaescilla gibsonii		Priority 3		*Chamaescilla gibsonii* grows in clay to sandy clay on winter-wet flats, shallow water-filled claypans.	Highly Unlikely – not claypan habitat
Comesperma rhadinocarpum	Slender-fruited Comesperma	Priority 3		Slender-fruited Comesperma occurs in sandy soils	Unlikely – not typical habitat
Conostylis bracteata		Priority 3		Conostylis bracteata occurs in sand, limestone on consolidated sand dunes.	Highly Unlikely – not dune habitat
Cupaniopsis anacardioides	Tuckeroo	Priority 3		Tuckeroo occurs in vine thickets.	No – record in error – occurs in the Kimberley
Cyathochaeta teretifolia		Priority 3		*Cyathochaeta teretifolia* occurs in grey sand, sandy clay on swamps, creek edges.	Unlikely – not typical habitat
Dampiera sericantha		Priority 3		*Dampiera sericantha* occurs in sand, sometimes with gravel on plains.	No – record in error – occurs in on the south coast
Dampiera triloba		Priority 3		*Dampiera triloba* grows in loamy sand (Australian National Herbarium, 2009) in lower lying areas.	Unlikely – not typical habitat
Dillwynia dillwynioides		Priority 3		*Dillwynia dillwynioides* occurs in sandy soils in winter-wet depressions.	Highly Unlikely – not suitable habitat
Eryngium subdecumbens		Priority 3		*Eryngium subdecumbens* grows in clay, grey sand on seasonally wet flats, claypans, swamps.	Highly Unlikely – not claypan habitat
Grevillea dissectifolia		Priority 3		*Grevillea dissectifolia* occurs in gravelly loam in moist areas and on roadsides.	Highly Unlikely – not suitable habitat
Haemodorum loratum		Priority 3		*Haemodorum loratum* prefers grey or yellow sand, gravel.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Halgania corymbosa		Priority 3		*Halgania corymbosa* prefers gravelly soils, soils over granite.	Highly Unlikely – not suitable habitat
Isopogon autumnalis	Autumn Isopogon	Priority 3		Autumn Isopogon occurs in white, grey or yellow sand, often over laterite.	Unlikely – not typical habitat
Jacksonia gracillima		Priority 3		*Jacksonia gracillima* occurs in grey and brown well-drained sand.	Highly Unlikely – not suitable habitat
Lasiopetalum glutinosum subsp. *glutinosum*		Priority 3		*Lasiopetalum glutinosum* subsp. *glutinosum* occurs in lateritic and granitic soils.	Highly Unlikely – not suitable habitat
Lasiopetalum membranaceum		Priority 3		*Lasiopetalum membranaceum* grows in sand over limestone.	Highly Unlikely – not limestone habitat
Meionectes tenuifolia		Priority 3		*Meionectes tenuifolia* occurs on swamp margins on seasonally wet poorly drained flats or granite flats in shallow soils.	Highly Unlikely – not suitable habitat
Myriophyllum echinatum		Priority 3		*Myriophyllum echinatum* grows in clay on winter-wet flats.	Highly Unlikely – not clay habitat
Pimelea calcicola		Priority 3		Pimelea calcicola occurs in sand on coastal limestone ridges.	Highly Unlikely – not limestone habitat
Pithocarpa corymbulosa	Corymbose Pithocarpa	Priority 3		Corymbose Pithocarpa occurs in gravelly or sandy loam amongst granite outcrops.	Highly Unlikely – not clay habitat
Platysace ramosissima		Priority 3		*Platysace ramosissima* prefers sandy soils over limestone.	Highly Unlikely – not limestone habitat
Schoenus benthamii		Priority 3		*Schoenus benthamii* prefers white, grey sand, sandy clay in winter-wet flats, swamps.	Unlikely – not typical habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Schoenus capillifolius		Priority 3		*Schoenus capillifolius* grows in brown mud on claypans.	Highly Unlikely – not claypan habitat
Sporobolus blakei		Priority 3		*Sporobolus blakei* grows in red sandy clay, loam associated with creeks.	Unlikely – not typical habitat
Stackhousia sp. Red-blotched corolla (A. Markey 911)		Priority 3		*Stackhousia* sp. Red-blotched corolla is recorded from light brown yellow silty-gravel, with surface granite and lateritic gravel and cobbels, on a very steep slope (Western Australian Herbarium, 1996)	Highly Unlikely – not suitable habitat
Stylidium aceratum		Priority 3		*Stylidium aceratum* occurs in sandy soils in swamp heathland.	Highly Unlikely – not suitable habitat
Stylidium paludicola		Priority 3		*Stylidium paludicola* prefers peaty sand over clay in winter wet habitats in Marri and Melaleuca woodland, Melaleuca shrubland.	Highly Unlikely – not peaty habitat
Styphelia filifolia		Priority 3		*Styphelia filifolia* occurs in sandy soils of the coastal plain (with one known occurrence from the northern Darling Scarp), usually in Banksia or Jarrah woodland and in low-lying situations (Hislop and Lelièvre, 2017).	Unlikely – not typical habitat
Thysanotus anceps		Priority 3		*Thysanotus anceps* grows on white or grey sand, lateritic gravel, laterite.	Highly Unlikely – not lateritic habitat
Tricostularia drummondii	Drummond's Tricostularia	Priority 3		Drummond's Tricostularia grows in low woodland or mallee over sand or laterite, on flats, rises or sometimes in swampy areas (Barrett *et al*., 2021).	Unlikely – not typical habitat
Acacia oncinophylla subsp. *patulifolia*		Priority 4		*Acacia oncinophylla* subsp. *patulifolia* occurs on granitic soils, occasionally on laterite.	Highly Unlikely – not suitable habitat
Aponogeton hexatepalus	Stalked Water Ribbons	Priority 4		Stalked Water Ribbons grow in freshwater: ponds, rivers, claypans	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Calothamnus accedens		Priority 4		*Calothamnus accedens* occurs in sandy soils over laterite on road verges.	Highly Unlikely – not suitable habitat
Cyanothamnus tenuis	Blue Boronia	Priority 4		Blue Boronia prefers laterite, stony soils, granite.	Highly Unlikely – not suitable habitat
Darwinia pimelioides		Priority 4		*Darwinia pimelioides* prefers loam, sandy loam on granite outcrops.	Highly Unlikely – not suitable habitat
Dodonaea hackettiana	Hackett's Hopbush	Priority 4		Hackett's Hopbush occurs in sand with outcropping limestone.	Highly Unlikely – not limestone habitat
Drosera occidentalis	Western Sundew	Priority 4		The Western Sundew occurs in sandy and clayey soils in swamps and wet depressions.	Highly Unlikely – not suitable habitat
Grevillea pimeleoides		Priority 4		*Grevillea pimeleoides* grows in gravelly soils over granite on rocky hillsides.	Highly Unlikely – not suitable habitat
Hydrocotyle lemnoides	Aquatic Pennywort	Priority 4		Aquatic Pennywort occurs in swamps	Highly Unlikely – not suitable habitat
Jacksonia sericea	Waldjumi	Priority 4		Waldjumi grows in calcareous and sandy soils.	Highly Unlikely – not calcareous habitat
Lasiopetalum bracteatum	Helena Velvet Bush	Priority 4		Helena Velvet Bush occurs in sandy clay, clay, lateritic gravel along drainage lines, creeks, gullies, granite outcrops.	Highly Unlikely – not suitable habitat
Microtis quadrata	South Coast Mignonette Orchid	Priority 4		South Coast Mignonette Orchid occurs on clay based coastal flats (Brown *et al*., 2013).	Highly Unlikely – not suitable habitat
Ornduffia submersa		Priority 4		Ornduffia submersa grows in freshwater 0.05-0.6 m deep in pools, lakes, swamps, winter-wet depressions, claypans.	Highly Unlikely – not suitable habitat
Pimelea rara	Summer Pimelea	Priority 4		Summer Pimelea occurs in lateritic soils.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Schoenus griffinianus		Priority 4		*Schoenus griffinianus* grows in white sand in low heath (Wilson, 1997).	Highly Unlikely – not suitable habitat
Senecio leucoglossus		Priority 4		*Senecio leucoglossus* prefers gravelly lateritic or granitic soils with granite outcrops on slopes.	Highly Unlikely – not suitable habitat
Stylidium longitubum	Jumping Jacks	Priority 4		Jumping Jacks prefer sandy clay, clay in seasonal wetlands.	Highly Unlikely – not clay habitat
Thysanotus glaucus		Priority 4		*Thysanotus glaucus* occurs in white, grey or yellow sand, sandy gravel.	Unlikely – not typical habitat
Verticordia lindleyi subsp. *lindleyi*		Priority 4		*Verticordia lindleyi* subsp. *lindleyi* prefers sand, sandy clay in winter-wet depressions.	Highly Unlikely – not suitable habitat

* sourced from Florabase as well as the DBCA database searches unless otherwise denoted

3.5.5 TEC/PEC Database Search

A search of DBCA's Threatened (TEC) and Priority Ecological Communities (PEC) database identified six TECs and seven PECs (Appendix 5) as having been recorded within 10km of the site. Two of the PECs are part of a Federally listed TEC. The communities identified in the database searches are outlined in Table 4.

Table 4: TEC and PECs Identified in Database Search

Number	Description	Conservation Status in Western Australia	Status under the EPBC Act
SCP02	Southern wet shrublands, Swan Coastal Plain (floristic community type 2 as originally described in Gibson et al. 1994)	Critically Endangered	
SCP3a	*Corymbia calophylla - Kingia australis* woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	Critically Endangered	Endangered
SCP3b	*Corymbia calophylla - Eucalyptus marginata* woodlands on sandy clay soils of the southern Swan Coastal Plain (floristic community type 3b as originally described in Gibson et al. 1994)	Endangered	
SCP3c	*Corymbia calophylla - Xanthorrhoea preissii* woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	Endangered	Endangered
SCP20a	*Banksia attenuata* woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	Critically Endangered	Endangered as part of the Banksia WL SCP
SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	Critically Endangered	Endangered
SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	Endangered	Critically Endangered as part of the Herb Rich Saline Shrublands in Clay Pans
SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	Endangered	Critically Endangered as part of the Herb Rich Saline Shrublands in Clay Pans
SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	Endangered	Critically Endangered

Number	Description	Conservation Status in Western Australia	Status under the EPBC Act
Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	Endangered	Endangered
SCP21c	Low lying *Banksia attenuata* woodlands or shrublands	Priority 3	Endangered as part of the Banksia WL SCP
Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered
Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable
Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4	

The Banksia Woodland TEC is mapped on the site over an area that is mapped as *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily which is not representative of the TEC and therefore the mapping is in error.

3.5.6 Flora

No Threatened or Priority flora species have been recorded on the site and none were recorded during the Reconnaissance survey. A low number of native species were recorded on the site including:

- *Eucalyptus rudis* (Flooded Gum);
- *Melaleuca rhaphiophylla* (Paperbark);
- *Astartea fascicularis*;
- *Typha orientalis* (Bulrush);
- *Juncus pallidus* (Pale Rush);
- *Hypocalymma angustifolium* (Pink-flowered Myrtle);
- *Lepidosperma longitudinale* and
- *Dielsia stenostachya.*

Most of the trees on the site are planted exotic species.

Weed species recorded on the site included:

- *Arctotheca calendula* (Cape Weed);
- *Cenchrus clandestinus* (Kikuyu);
- *Conyza bonariensis* (Fleabane);
- *Cynodon dactylon* (Couch);
- *Eragrostis curvula* (African Lovegrass);
- *Holcus lanatus* (Yorkshire Fog grass);
- *Leptospermum laevigatum* (Victorian Teatree);

- *Moraea flaccida* (Cape Tulip);
- *Oxalis pes-caprae* (Soursob);
- *Paspalum dilatatum* (Paspalum);
- *Pelargonium capitatum* (Rose Pelargonium);
- *Rumex acetosella* (Sorrel);
- *Schinus terebinthifolia* (Brazilian Pepper trees);
- *Taraxacum officinale* (Dandelion);
- *Taraxacum officinale* (Dandelion);
- *Trifolium* sp. (Clover); and
- *Vicia sativa* (Common Vetch).

The creekline has a weedy understorey of:

- *Cenchrus clandestinus* (Kikuyu);
- *Zantedeschia aethiopica* (Arum Lily) – a Declared Pest and Weed of National Significance (WoNS);
- *Washingtonia filifera* (Cotton Palm);
- *Gomphocarpus fruticosus* (Cotton Bush), a Declared Pest; and
- *Arundo donax* (False Bamboo).

3.5.7 Vegetation Complex

Vegetation Complexes are a broad level of vegetation description which is based on the underlying geomorphology and rainfall (Heddle *et al*., 1980). The vegetation on the site is part of the Southern River Vegetation Complex (Heddle *et al.,* 1980). The Southern River Vegetation Complex is described as "open woodland of *Corymbia calophylla-Eucalyptus marginata-Banksia* species with fringing woodland of *Eucalyptus rudis-Melaleuca rhaphiophylla* along creek beds". This vegetation is too degraded to be a good example of this vegetation complex.

3.5.8 Vegetation Types

Five vegetation types have been described on the site in 2014 and the 2025. The vegetation previously recorded on Lot 200 Kalamunda Road, Lot 100 and Lot 9000 Adelaide Street has since been cleared from earlier observations. The remaining vegetation types are:

Cleared Areas that contain no, or very few, native plants and are vegetated by exotic species.

ErMr *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily.

Er *Eucalyptus rudis* Woodland to Low Forest over Pasture.

Mr *Melaleuca rhaphiophylla* Low Woodland over Typha and Arum Lily.

MrAf *Melaleuca rhaphiophylla/Astartea fascicularis* Thicket to Low Woodland (Figure 3).

3.5.9 Vegetation Condition

The condition of the vegetation was assessed according to the system devised by Keighery and described in Bush Forever (Government of Western Australia, 2000) (Table 5).

Table 5: Vegetation Condition Rating Scale

Condition	Description
Pristine	Pristine or nearly so, no obvious signs of disturbance.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
Very Good	Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Source: Government of Western Australia, 2000.

A large area of the site has been cleared for rural purposes or contains only introduced species and is Completely Degraded. The northern area is considered to be Degraded to Completely Degraded and consists of native trees over bare sand and weeds. The small eastern area of remnant vegetation associated with the RE wetland is considered to be in Degraded to Good Condition and consists of a native tree and sedge species with a number of weed species present. The western area of wetland vegetation is considered to be in Degraded Condition with native trees over weeds.

There is an abundance of the Declared Weed *Zantedeschia aethiopica* (Arum Lily) in the western area. In addition, the aggressive wetland species *Typha orientalis* (Bulrush) is abundant in the drainage line.

Vegetation condition is shown in Figure 4.

3.5.10 Conservation Significance of Flora and Vegetation

3.5.10.1 Flora

The were no conservation significant species that were deemed likely to be on the site. The overall poor condition of the vegetation suggests the potential for any of these species to occur is extremely low. All species identified are perennial species so would have been present during the reconnaissance survey.

3.5.10.2 Vegetation Association

The Southern River complex has 18.43% of its pre-European extent remaining, of which 1.37% is protected for conservation purposes (DBCA, 2018). The EPA considers that vegetation complexes with less than 10% remaining in constrained areas such as the Perth Metropolitan Region are regionally significant and that for these complexes there is a presumption that all areas of remnant native

vegetation where less than 10% remains will be retained and conserved. The 18.43% retention amount for the Southern River Complex is above the 10% target.

The vegetation on the site is too degraded to be a good representation of this vegetation complex.

3.5.10.3 Threatened and Priority Ecological Communities

There is no intact vegetation on the site and therefore no vegetation that is representative of a Threatened or Priority Ecological Community.

3.6 Fauna

3.6.1 Methodology

A Basic Fauna Survey was undertaken in accordance with EPA Technical Guidance *Fauna Surveys for Environmental Impact Assessment* (EPA, 2020). Desktop studies were undertaken to identify habitats and potential threatened species that may occur on the site.

Searches of the following databases were undertaken prior to the site survey:

- Atlas of Living Australia (ALA, 2025) which shows all species that have been recorded within a 10km radius of the site (Appendix 2).
- The EPBC Act Protected Matters Search Tool (DCCEEW, 2025) (Appendix 3) which identifies species that are listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) that could potentially have habitat within a 5km radius of the site.

A site reconnaissance was conducted by PGV Environmental on 7 July 2025 to describe the fauna habitats on the site. Desktop studies were undertaken to identify habitats and potential threatened species that may occur on the site. The likelihood of the site providing habitat to identified conservation significant fauna species was determined.

3.6.2 Fauna Habitats

There are four fauna habitats on the site as follows:

- Upland Banksia sp. and Eucalyptus todtiana scattered over cleared understorey;
- Wetland with Melaleuca rhaphiophylla and Eucalyptus rudis over weedy understorey;
- Wetland with weeds; and
- Cleared paddocks with scattered exotic trees.

The cleared hardstand area is not considered to have any fauna habitat value.

Fauna habitat can be assessed using a number of factors including, the size of the habitat, the level of habitat connectivity, availability of specific resources (e.g., tree hollows) and overall vegetation quality. The habitat was assessed according to the categories in Table 6.

Table 6: Fauna Habitat Value

Habitat Value	Description
High Quality Fauna Habitat	These areas closely approximate the vegetation mix and quality that would have been in the area prior to any disturbance. The habitat has connectivity with other habitats and is likely to contain the most natural vertebrate fauna assemblage.

Habitat Value	Description
Very Good Fauna Habitat	These areas show minimal signs of disturbance (e.g., grazing, clearing, fragmentation, weeds) and generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be minimally affected by disturbance.
Good Fauna Habitat	These areas showed signs of disturbance (e.g., grazing, clearing, fragmentation, weeds) but generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be affected by disturbance.
Disturbed Fauna Habitat	These areas showed signs of significant disturbance. Many of the trees, shrubs and undergrowth are cleared. These areas may be in the early succession and regeneration stages. Areas may show signs of significant grazing, contain weeds or have been damaged by vehicle or machinery. Habitats are fragmented or have limited connectivity with other fauna habitats. Fauna assemblages in these areas are likely to differ significantly from what might be expected in the area had the disturbance not occurred.
Highly Degraded Fauna Habitat	These areas often have a significant loss of vegetation, an abundance of weeds, and a large number of vehicle tracks or are completely cleared. Limited or no fauna habitat connectivity. Faunal assemblages in these areas are likely to be significantly different to what might have been in the area pre-disturbance.

From: Coffey Environments, 2009

The quality of the fauna habitat on the site is also limited due to it being fragmented from other areas of native vegetation, the closest being Munday Swamp approximately 1km to the south-west. The scattered parkland trees are considered to be Highly Degraded Fauna Habitat due to the cleared understorey.

The wetland areas on the site containing native trees are considered to be Disturbed Fauna Habitat. The understorey consists completely of weeds apart from a small section in the eastern area containing *Lepidosperma longitudinale*. The eastern section has been invaded by Japanese Pepper trees and the western section contains an abundance of Arum Lily. The drainage line with weeds such as False Bamboo and Bulrushes is considered to be Highly Degraded Fauna Habitat due to the absence of any native flora species.

The cleared paddocks with scattered exotic trees on the site consist of Highly Degraded Fauna Habitat due to the significant loss of vegetation. The increased amounts of grass and weed species are likely to result in a high abundance of introduced fauna species such as House Mice and Black Rats. The drainage line is disturbed fauna habitat but provides habitat for some frog and waterbird species and there is anecdotal evidence that it supports a population of Oblong Turtles (*Chelodina oblonga*).

3.6.3 Conservation Significant Species

Outlined in Table 7 is a short description of the preferred habitat for each of the species that were identified in the database searches and their preferred habitats. The preferred habitat has been compared to the habitats on the site described above and the likelihood of each species to be present was determined. Species recorded in the database search results that live in the ocean or birds that are marine and pelagic have not been included in the assessment. No records are located on the site.

Table 7: Identified Significant Fauna Species and Likelihood of Occurring on the Site

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Bettongia penicillata ogilbyi	Woylie, Brush-tailed Bettong	Critically Endangered	Endangered	The Woylie habitat types ranged from forest to grassland, coastal and inland. During the day the Woylie shelters under patches of dense undergrowth, logs and rock-cavities and occasionally in burrows.	Highly Unlikely – not suitable habitat and the site is too disturbed
Calidris ferruginea	Curlew Sandpiper	Critically Endangered	Critically Endangered	Curlew Sandpipers mainly occur on intertidal mudflats in sheltered coastal areas, such as estuaries, bays, inlets and lagoons, and also around non-tidal swamps, lakes and lagoons near the coast, and ponds in saltworks and sewage farms.	Highly Unlikely – not suitable habitat and the site is too disturbed
Cherax tenuimanus	Margaret River Hairy Marron	Critically Endangered	Critically Endangered	The Margaret River Hairy Marron occurs in fresh water in the Margaret River Area.	No – no suitable habitat
Numenius madagascariensis	Eastern Curlew	Critically Endangered	Critically Endangered	The Eastern Curlew is most commonly associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass. Occasionally, the species occurs on ocean beaches (often near estuaries), and coral reefs, rock platforms, or rocky islets.	Highly Unlikely – not suitable habitat and the site is too disturbed
Pseudemydura umbrina	Western Swamp Tortoise	Critically Endangered	Critically Endangered	The Western Swamp Tortoise is restricted to very few wild populations. During winter and spring, the tortoises live in the water. This species is carnivorous feeding on insects, larvae and tadpoles (Burbidge and Kuchling, 1994). In the drier, hotter months they shelter under leaf litter and in holes and aestivate (sleep).	No – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Pseudocheirus occidentalis	Western Ringtail Possum, Ngwayir	Critically Endangered	Critically Endangered	The Western Ringtail Possum is a medium sized nocturnal marsupial. This species occurs in and near coastal Peppermint Tree (*Agonis flexuosa*) forest and Tuart (*Eucalyptus gomphocephala*) dominated forest with a Peppermint Tree understorey.	No – not suitable habitat
Botaurus poiciloptilus	Australasian bittern	Endangered	Endangered	The Australasian Bittern occurs mainly in densely vegetated freshwater wetlands and, rarely, in estuaries or tidal wetlands.	Highly Unlikely – not suitable habitat and the site is too disturbed
Leioproctus douglasiellus	A Short-tongued Bee	Endangered	Critically Endangered	The short-tongued bee species is only known from three locations within the Perth metropolitan area ranging from Cannington to Forrestdale. Specimens have been collected on two plant species, Goodenia filiformis and Anthotium junciforme (TSSC, 2013).	Highly Unlikely – no suitable host plants
Myrmecobius fasciatus	Numbat, Walpurti	Endangered	Endangered	Numbats occur in eucalypt forests and woodlands dominated by *Eucalyptus marginata*, *Corymbia calophylla* and *Eucalyptus wandoo*.	Highly Unlikely – not suitable habitat and the site is too disturbed
Rostratula australis	Australian Painted Snipe	Endangered	Endangered Marine/ Migratory	The Australian Painted Snipe has been recorded at wetlands in all states of Australia but is most common in eastern Australia. It generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. It also uses inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include a cover of vegetation, including grasses.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Zanda baudinii	Baudin's Black Cockatoo	Endangered	Endangered	Baudin's Black-Cockatoo mainly occurs in eucalypt forests, especially Jarrah (Eucalyptus marginata), Marri (Corymbia calophylla), also Karri (Eucalyptus diversicolor) forest, often feeding in the understorey on proteaceous trees and shrubs, especially banksias (DAWE, 2022).	Possible intermittent visitor– limited habitat occurs on the site
Zanda latirostris	Carnaby's Black Cockatoo	Endangered	Endangered	Carnaby's Cockatoo is found in the south-west of Australia from Kalbarri through to Ravensthorpe. It has a preference for feeding on the seeds of Banksia, Hakea, Eucalyptus, Grevillea, Pinus and Allocasuarina spp. It is nomadic often moving toward the coast after breeding. It breeds in tree hollows that are 2.5 - 12m above the ground and have an entrance 23-30cm with a depth of 1-2.5m. Nesting mostly occurs in smooth-barked trees (e.g. Salmon Gum, Wandoo, Red Morrell) (DAWE, 2022).	Possible intermittent visitor– limited habitat occurs on the site
Calyptorhynchus banksii naso	Forest Red-tailed Black-Cockatoo	Vulnerable	Vulnerable	Forest Red-tailed Black Cockatoos frequent the humid to sub-humid south-west of Western Australia from Gingin in the north, to Albany in the south and west to Cape Leeuwin and Bunbury (DAWE, 2022). It nests in tree hollows with a depth of 1-5m, that are predominately Marri (Corymbia calophylla), Jarrah (Eucalyptus marginata) and Karri (Eucalyptus diversicolor) and it feeds primarily on the seeds of Marri (DAWE, 2022).	Possible intermittent visitor– limited habitat occurs on the site
Charadrius leschenaultii	Greater Sand Plover	Vulnerable	Vulnerable/ Marine/ Migratory	In Australasia, the Greater Sand Plover is almost entirely coastal, inhabiting littoral and estuarine habitats. They mainly occur on sheltered sandy, shelly or muddy beaches with large intertidal mudflats or sandbanks, as well as sandy estuarine lagoons.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Dasyurus geoffroii	Chuditch, Western Quoll	Vulnerable	Vulnerable	The Chuditch have been known to occupy a wide range of habitats including woodlands, dry sclerophyll forests, riparian vegetation, beaches and deserts. They are opportunistic feeders, and forage on the ground at night, feeding on invertebrates, small mammals, birds and reptiles.	Highly Unlikely –the site is too disturbed and surrounded by development
Leipoa ocellata	Mallee Fowl	Vulnerable	Vulnerable	Mallee fowl have been found in mallee regions of southern Australia from approximately the 26th parallel of latitude southwards in mallee bushland.	No – not mallee habitat
Macrotis lagotis	Bilby, Dalgyte, Ninu	Vulnerable	Vulnerable	The greater Bilby is a nocturnal omnivorous marsupial that shrub species, such as *Acacia kempeana* and *A. hilliana*, which have root-dwelling larvae that provide a constant food source for the Greater Bilby. They also utilise Spinifex hummocks which are quite uniform and discrete, providing runways between hummocks, enabling easier movement and foraging.	Highly Unlikely – species occurs in northern Australia
Setonix brachyurus	Quokka	Vulnerable	Vulnerable	Quokkas were originally very common on the Swan Coastal Plain, however, their distribution is now limited to Rottnest Island and a few isolated areas in the south-west of WA. On the mainland, they prefer densely vegetated areas around wetlands and streams, whereas on Rottnest Island they inhabit low scrubby coastal vegetation where water is not readily available year-round.	Highly Unlikely – not suitable habitat and the species is thought to be locally extinct
Sternula nereis nereis	Australian Fairy Tern	Vulnerable	Vulnerable	The Fairy Tern (Australian) nests on sheltered sandy beaches, spits and banks above the high tide line and below vegetation.	Highly Unlikely – not suitable
Westralunio carteri	Carter's Freshwater Mussel	Vulnerable	Vulnerable	Carter's Feshwater Mussel is South-West Western Australia's only freshwater mussel (Murdoch University & SERCUL, 2012). Carter's Freshwater Mussel occurs in freshwater streams, rivers, reservoirs and lakes (ICUN, 2015b) and is intolerant to dehydration for more than three days and salinity (Murdoch University & SERCUL, 2012).	No - not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Actitis hypoleucos	Common Sandpiper	Migratory	Marine/ Migratory	The Common Sandpiper is mostly found around muddy margins or rocky shores. Generally the species forages in shallow water and on bare soft mud at the edges of wetlands.	Highly Unlikely – not suitable habitat and the site is too disturbed
Apus pacificus	Fork-tailed Swift	Migratory	Marine/Migratory	The Fork-tailed Swift is almost exclusively aerial and is not known to breed in Australia. They are seen in inland plains but sometimes above foothills or in coastal areas. They often occur over cliffs and beaches and also over islands and sometimes well out to sea. They also occur over settled areas, including towns, urban areas and cities. Apus pacificus subsp. pacificus is the only subspecies to migrate to Australia.	Highly Unlikely – may fly overhead but unlikely to land
Arenaria interpres	Ruddy Turnstone	Migratory	Vulnerable/ Marine/ Migratory	The Ruddy Turnstone is mainly found on coastal regions with exposed rock coast lines or coral reefs. It also lives near platforms and shelves, often with shallow tidal pools and rocky, shingle or gravel beaches.	Highly Unlikely – not suitable habitat
Calidris acuminata	Sharp-tailed Sandpiper	Migratory	Vulnerable/ Marine/ Migratory	The Sharp-tailed Sandpiper prefers muddy edges of shallow fresh or brackish wetlands, with inundated or emergent sedges, grass, saltmarsh or other low vegetation.	Highly Unlikely – not suitable habitat and the site is too disturbed
Calidris melanotos	Pectoral Sandpiper	Migratory	Marine/ Migratory	The Pectoral Sandpiper prefers shallow fresh to saline wetlands and is found at coastal lagoons, estuaries, bays, swamps, lakes, inundated grasslands, saltmarshes, river pools, creeks, floodplains and artificial wetlands.	Highly Unlikely – not suitable habitat and the site is too disturbed

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Limosa lapponica	Bar-tailed Godwit	Migratory	Marine/ Migratory	The Bar-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays.	Highly Unlikely – not suitable habitat and the site is too disturbed
Limosa limosa	Black-tailed Godwit	Migratory	Endangered /Migratory/ Marine	The Black-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It is found often around beds of seagrass and, sometimes, in nearby saltmarsh.	Highly Unlikely – not suitable habitat and the site is too disturbed
Motacilla cinerea	Grey Wagtail	Migratory	Migratory/ Marine	The Grey Wagtail is mostly recorded in coastal areas in Western Australia (ALA, 2015) however is widespread. There is non-breeding habitat only in Australia and the species has a strong association with water, particularly rocky substrates along water courses but also lakes and marshes.	Highly Unlikely – the site is too disturbed
Pandion haliaetus	Osprey	Migratory	Marine/ Migratory	Ospreys occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They feed on fish, especially mullet where available, and rarely take molluscs, crustaceans, insects, reptiles, birds and mammals.	Highly Unlikely – not suitable habitat
Plegadis falcinellus	Glossy Ibis	Migratory	Marine/Mig ratory	The Glossy Ibis is the smallest ibis known in Australia. This species preferred habitat for foraging and breeding are fresh water marshes at the edges of lakes and rivers, lagoons, flood-plains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and cultivated areas under irrigation but do not breed in South-west Western Australia.	Highly Unlikely – not suitable habitat and the site is too disturbed

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Pluvialis fulva	Pacific Golden Plover	Migratory	Marine/ Migratory	Pacific Golden Plovers usually occur on beaches, mudflats and sandflats (sometimes in vegetation such as mangroves, low saltmarsh such as *Sarcocornia*, or beds of seagrass) in sheltered areas including harbours, estuaries and lagoons, and also in evaporation ponds in salt works.	Highly Unlikely – not suitable habitat and the site is too disturbed
Pluvialis squatarola	Grey Plover	Migratory	Vulnerable/ Marine/ Migratory	Grey Plovers occur almost entirely in coastal areas, where they usually inhabit sheltered embayments, estuaries and lagoons with mudflats and sandflats, and occasionally on rocky coasts with wave-cut platforms or reef-flats, or on reefs within muddy lagoons.	Highly Unlikely – not suitable habitat
Tringa nebularia	Common Greenshank	Migratory	Endangered /Marine/ Migratory	The Common Greenshank is a wader and does not breed in Australia. This species can be found in many types of wetlands and has the widest distribution of any shorebird in Australia. This species typically feeds on molluscs, crustaceans, insects, and occasionally fish and frogs.	Highly Unlikely –the site is too disturbed
Xenus cinereus	Terek Sandpiper	Migratory	Vulnerable/ Marine/ Migratory	The Terek Sandpiper mostly forages in the open, on soft wet intertidal mudflats or in sheltered estuaries, embayments, harbours or lagoons. The species has also been recorded on islets, mudbanks, sandbanks and spits, and near mangroves and occasionally in samphire (Halosarcia spp.).	Highly Unlikely – not suitable habitat and the site is too disturbed
Ardea alba	Great Egret, White Egret		Marine	The Eastern Great Egret has been reported in a wide range of wetland habitats and usually frequents shallow waters. This species feeds on fish, insects, crustaceans, molluscs, frogs, lizards, snakes and small birds and mammals.	Highly Unlikely –the site is too disturbed

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Bubulcus ibis	Cattle Egret		Marine	The Cattle Egret occurs in tropical and temperate grasslands, wooded lands and terrestrial wetlands with breeding in Western Australia recorded in the far north in Wyndham in colonies in wooded swamps such as mangrove forest. This species forages away from water on low lying grasslands, improved pastures and croplands generally in areas that have livestock eating insects, frog, lizards and small mammals.	Highly Unlikely – the site is too disturbed
Egretta sacra	Eastern Reef Egret, Eastern Reef Heron		Marine	The Eastern Reef Egret nests in trees in island woodlands, or on the ground under shrubs or rock ledges and feeds on small fish, crustaceans and insects (Birdlife Australia, 2014).	Highly Unlikely – not suitable habitat and the site is too disturbed
Haliaeetus leucogaster	White-bellied Sea-eagle		Marine	The White-bellied Sea-Eagle is found in coastal habitats with large areas of open water, especially those close to the sea-shore. This species feeds opportunistically on a variety of fish, birds, reptiles, mammals and crustaceans, and on carrion and offal.	Highly Unlikely – not suitable habitat
Himantopus himantopus	Black-winged Stilt		Marine	The Black-winged Stilt is found near coastal lagoons and shallow freshwater or brackish pools with extensive areas of mudflats, salt meadows, saltpans, coastal marshes and swamps (Birdlife International, 2014a).	Highly Unlikely – not suitable habitat
Merops ornatus	Rainbow Bee-eater		Marine	Populations of the Rainbow Bee-eater that breed in northern Australia are considered to be resident, and in many northern localities the Rainbow Bee-eater is present throughout the year. The Rainbow Bee-eater nests in a burrow dug in the ground. It is found across the better-watered parts of WA including islands preferring lightly wooded, sandy country near water.	Possible intermittent visitor to the site but unlikely to rely on the site for survival

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Recurvirostra novaehollandiae	Red-necked Avocet		Marine/ Migratory	The Red-necked Avocet occurs in wetland areas including bogs, marshes, swamps and permanent saline, brackish or alkaline lakes generally preferring saline habitats (BirdsSA, 2025).	Highly Unlikely – not suitable habitat
Glossurocolletes bilobatus	A Short-tongued Bee (southwest)	Priority 2		The *Glossurocolletes bilobatus* bee species is known to utilise the yellow flowering pea, *Gompholobium aristatum* (Phoenix, 2010).	Highly Unlikely – no host plants occur on the site
Acanthophis antarcticus	Southern Death Adder	Priority 3		Southern Death Adders inhabit a range of habitats, including rainforest, scrubland, semi arid zones and rocky outcrops. Typically during the day they remain mostly buried beneath sand, soil or debris, with just the tail and top of the head exposed. They do not actively hunt their prey but are cryptic snakes which sit motionlessly, sometimes for months on end, constantly watching for any animal which unwittingly comes within striking distance (Pilbara Pythons, 2014).	Highly Unlikely – not suitable habitat and the site is too disturbed
Ctenotus ora	Coastal Plains Skink	Priority 3		The Coastal Plains Skink has been identified on coastal plains in dune habitats (AROD, 2012).	Possible – may occur in sandier areas of the site
Euoplos inornatus	Inornate Trapdoor Spider (northern Jarrah Forest)	Priority 3		The Inornate Trapdoor Spider is recorded from clay creek banks (ALA, 2019).	Highly Unlikely – not suitable habitat
Geotria australis	Pouched Lamprey	Priority 3		The Pouched Lamprey is spawned in freshwater systems and then migrate to sea before returning to freshwater to spawn and die (OzFishNet, 2014).	No – no suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Idiosoma sigillatum	Swan Coastal Plain shield-backed trapdoor spider	Priority 3		The Swan Coastal Plain Shield-backed Trapdoor Spider arranges fallen twigs from the sheoak tree around the rim of its burrow entrance, enabling it to feel the vibrations of unsuspecting prey that wander by (Curtin, 2018).	Highly Unlikely – not suitable habitat
Lerista lineata	Perth Slider, Lined Skink	Priority 3		The Lined Skink is a burrowing species that occurs in pale sandy soils with coastal heath and shrubland areas in isolated populations in the south-west and mid-west coast of Western Australia. It feeds on termites and other small insects (AROD, 2014).	Unlikely – the site is too disturbed
Botaurus dubius	Australian Little Bittern	Priority 4		The Australian Little Bittern is mainly found in freshwater wetlands, where they inhabit dense emergent vegetation of reeds and sedges, and inundated shrub thickets. They are also occasionally found in brackish and saline wetlands such as mangrove swamps, Juncus-dominated salt marsh and the wooded margins of coastal lagoons (Naturewatch NZ, 2014).	Highly Unlikely – not suitable habitat and the site is too disturbed
Ctenotus delli	Dell's Ctenotus, Darling Range Heath Ctenotus	Priority 4		Dell's Ctenotus is found in the north Darling Range of south-western WA in dry sclerophyll forests on stony hills and ranges (Cogger, 2014).	Highly Unlikely – not suitable habitat
Elanus scriptus	Letter-winged Kite	Priority 4		The Letter-winged Kite is found in open or sparsely wooded country (Johnstone and Storr, 1998).	Highly Unlikely – not suitable habitat and the site is too disturbed
Falsistrellus mackenziei	Western False Pipistrelle	Priority 4		The Western False Pipistrelle occurs in high rainfall Jarrah, Karri and Tuart forests and coastal woodlands. They roost in hollows of trees, branches and stumps, and are insectivorous, feeding at night between the canopy and understorey of tall forest trees (Environment Australia, 1999).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Hydromys chrysogaster	Water-rat, Rakali	Priority 4		The Water Rat generally prefers wetland habitats characterised by dense, low-lying vegetation (0–30 cm from ground), low-density canopy cover and shallow, narrow water bodies (Speldewinde *et al*., 2013).	Possible – habitat may occur on the site
Isoodon fusciventer	Southern Brown Bandicoot, Quenda	Priority 4		Southern Brown Bandicoots are small grey marsupials that prefer dense scrub (up to one metre high). Their diet includes invertebrates (including earthworms, adult beetles and their larvae), underground fungi, subterranean plant material, and very occasionally, small vertebrates (DEC, 2012).	Unlikely – not suitable habitat and the site is too disturbed
Notamacropus irma	Western Brush Wallaby	Priority 4		The Western Brush Wallaby is a medium sized marsupial and its optimum habitat is open forest or woodland, particularly favouring open, seasonally wet flats with low grasses and open scrubby thickets (DEC, 2012).	Highly Unlikely –the site is too disturbed
Oxyura australis	Blue-billed Duck	Priority 4		The Blue-billed Duck is found on terrestrial wetlands in temperate regions, that are freshwater to saline, and may be natural or artificial. It nests in rushes, sedges, Lignum Muehlenbeckia cunninghamii and paperbark Melaleuca (Birdlife International, 2015). The species is almost completely aquatic, and is seldom seen on land. Non-breeding flocks, often with several hundred individuals, congregate on large, deep open freshwater dams and lakes in autumn. The daylight hours are spent alone in small concealed bays within vegetation or communally in large exposed rafts far from the shore (Birds in Backyards, 2015).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Synemon gratiosa	Graceful Sun-moth	Priority 4		The Graceful Sun-moth is a diurnal moth with dull coloured brown to black forewings and brightly coloured orange hind wings. The larvae burrow into the rhizomes of Lomandra maritima and Lomandra hermaphrodita exclusively and therefore require the presence of one or both of these species to be present in an area (Bishop et al., 2011).	No - no host plant species occur on the site
Charadrius cucullatus (Listed under the EPBC Act as *Thinornis rubricollis*)	Hooded Plover	Priority 4	Marine	The Hooded Plover primarily inhabits sandy, ocean beaches, with the highest densities on beaches with large amounts of beach-washed seaweed that are backed by extensive open dunes. In Western Australia the species also inhabits inland and coastal salt lakes (Birdlife International, 2014b).	Highly Unlikely – not suitable habitat

* Sourced from the SPRAT Database (DoEE, 2018) unless otherwise indicated

In summary, there was habitat on for the following species:

- Baudin's Black Cockatoo (*Zanda baudinii*), Endangered;
- Carnaby's Black Cockatoo (*Zanda latirostris*), Endangered;
- Forest Red-tailed Black-Cockatoo (*Calyptorhynchus banksii naso*), Vulnerable;
- Coastal Plains Skink (*Ctenotus ora*), Priority 3; and
- Rakal or Water Rati (*Hydromys chrysogaster*), Priority 4

The Rainbow Bee-eater (*Merops ornatus*), listed as Marine, may also be an intermittent visitor to the site but is unlikely to rely on the vegetation for survival.

3.6.4 Impact on Conservation Significant Species

The site has very limited habitat for Baudin's Black Cockatoo, Carnaby's Black Cockatoo and Forest Red-tailed Black-Cockatoo. There is 0.6ha of foraging habitat and limited roosting or potential breeding habitat on the site.

The Referral guideline for 3 WA threatened black cockatoo species indicate that the clearing of 1ha of foraging habitat or one potential breeding habitat tree is to be cleared then the clearing may have a significant impact. If there is to be a significant impact, then referral is required. To determine if there is a significant impact the Department of Climate Change, Energy, the Environment and Water (DCCEEW) require proponents to utilise the *Significant Impact Guidelines 1.1 - Matters of National Environmental Significance* (Significant Impact Guidelines) to undertake a self-assessment of the impact.

The criteria for a significant impact on Critically Endangered and Endangered species are if there is a real chance or possibility that it will:

- Lead to a long-term decrease in the size of a population
- Reduce the area of occupancy of the species
- Fragment an existing population into two or more populations
- Adversely affect habitat critical to the survival of a species
- Disrupt the breeding cycle of a population
- Modify, destroy, remove, isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline
- Result in invasive species that are harmful to a critically endangered or endangered species becoming established in the endangered or critically endangered species' habitat
- Introduce disease that may cause the species to decline, or
- Interfere with the recovery of the species.

The criteria for Vulnerable species are slightly different and are if there is a real chance or possibility that it will:

- Lead to a long-term decrease in the size of an important population of a species
- Reduce the area of occupancy of an important population
- Fragment an existing important population into two or more populations
- Adversely affect habitat critical to the survival of a species
- Disrupt the breeding cycle of an important population

- Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline
- Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat
- Introduce disease that may cause the species to decline, or
- Interfere substantially with the recovery of the species.

Avoidance and mitigation measures decrease the impact on these species.

Due to the very small area of foraging habitat available to support breeding and low number of potential breeding trees on the site if the entire site was to be cleared it is likely that the self-assessment would conclude that a referral under the EPBC Act is not likely to be required.

The Marine species Rainbow Bee-eater may also be an intermittent visitor to the site but is unlikely to rely on the site for survival and would not be impacted by development.

3.6.5 Pest Fauna

There are several pest species that are likely to be present on the site outlined in Table 8.

Table 8: Pest Species Likely to Occur on the Site

Taxa	Family	Species Name	Common Name
Mammalia	Canidae	Vulpes vulpes	Red fox
	Felidae	Felis catus	Feral cat
	Leporidae	Oryctolagus cuniculus	European Rabbit
	Muridae	Mus musculus	House Mouse
		Rattus rattus	Black Rat

3.6.6 Biodiversity Value

The EPA's (2002) *Terrestrial Biological Surveys as an Element of Biodiversity Protection Position Statement No. 3* indicated an ecological assessment of a site must consider its biodiversity value at the genetic, species and ecosystem levels; and its ecological functional value at the ecosystem level. The vegetation on the site is fragmented with little to no ecological linkage and is disturbed, with the likely presence of feral species such as foxes, cats and rabbits which would have highly modified the fauna assemblage from pre-European settlement.

3.7 Hydrology

3.7.1 Groundwater

The hydrogeology of the area is mapped as fractured rock which comprises a large variety of metamorphic and igneous rocks ranging from the sedimentary rocks to granite-greenstone terrain. At this stage no major aquifers are defined in the fractured rocks (DoW, 2009).

A 12 month groundwater monitoring program was completed for the site as part of the District Water Management Strategy investigations (ENV, 2009). Based on the 12 months monitoring of bores MW4, MW5, MW6 and DoW Bore 4849 to the east of site the average annual maximum groundwater level (AAMGL) was calculated across the site as shown in Table 9.

Table 9: Maximum Groundwater Levels at Site Bores and DoW Bore 4849 (ENV, 2009)

Bore	Maximum Recorded Groundwater Level (mAHD)	Depth to maximum Recorded Groundwater Level (m)	AAMGL (mAHD)	Depth to AAMGL (m)
MW1				
MW2				
MW3				
MW4	21.173	0.695	21.016	0.852
DoW 4849	14.937	-	14.720	-

Groundwater flow is in a northerly direction towards Adelaide Street.

Groundwater quality sampling was undertaken for bores MW1 to 4 and DoW 4849 on the site and analysed for physical parameters in the field by ENV staff (Table 2) and analysed by a NATA approved laboratory for nutrients. In summary:

- Groundwater within the site is generally fresh;
- Groundwater is slightly acidic with typical pH values less than 6.25;
- Total Nitrogen (TN) exceeds the ANZECC (2000) guideline of 1.2 mg/L and the Swan Canning Cleanup Program Long Term Target of 1 mg/L ranging from 1.5 mg/L to 3.2 mg/L; and
- Total Phosphorus (TP) is above and below the ANZECC (2000) guideline of 0.065 mg/L and the Swan Canning Cleanup Program Long Term Target of 0.1 mg/L ranging from 0.05 mg/L to 2.75 mg/L (ENV, 2009; Hyd2o, 2012).

The site is not within a Public Drinking Water Source Area (PDWSA) (DWER, 2026).

3.7.2 Surface Water

The site is generally flat to gently sloping. The majority of surface water flows locally towards the creekline that runs through the centre of the site and the lower lying areas on Lot 200. Water flow in the creekline is in a north-westerly direction and feeds into the Perth Airport Northern Drain Catchment. The surface water from the southern corner of the site flows locally towards a lower lying area to the south-west off-site as diffuse overland flow. The surface water flow from the site drains away from Munday Swamp, located to the south-west, and therefore does not impact on the water levels within the swamp

ENV (2009) undertook surface water monitoring through the central drain bi-monthly for a period of 12 months from July 2008 to May 2009. The maximum recorded level was 21.385m AHD.

3.8 Wetlands

The site contains eight wetlands (two Resource Enhancement and six Multiple Use) and is adjacent to one wetland as shown in the *Geomorphic Wetlands of the Swan Coastal Plain* Database (Figure 5) (Landgate, 2024b). There is also a creekline through the central part of the site that ultimately flows into Helena River that is also part of the two Resource Enhancement wetlands and one of the Multiple

Use wetlands. The wetlands are described in Table 10 and definitions of the management categories are in Table 11.

Table 10: Wetlands Located on the Site

Wetland Classification	Wetland Type	UFI Number	Location
Resource Enhancement	Sumpland	16226	Western part of the creekline drainage line.
Resource Enhancement	Sumpland	15940	Eastern part of the creekline drainage line.
Multiple Use	Sumpland	16225	To the north of the western REW
Multiple Use	Sumpland	15898	Traverses the centre of the northern part site from east to west along the creekline.
Multiple Use	Dampland	15267	South of the creekline.
Multiple Use	Sumpland	15777	Northern part of Lot 200
Multiple Use	Dampland	15779	Central part of Lot 200
Multiple Use	Sumpland	15780	The southern part of Lot 200.

Table 11: Management Categories and Objective for Wetlands

Management Category	General Description	Management Objectives	EPA Management Objectives (EPA, 2008)
Conservation Category Wetland (CCW)	Wetlands which support high levels of attributes and functions.	To preserve wetland attributes and functions through reservation in national parks, crown reserves, state owned land and protection under environmental protection policies.	Highest priority wetlands. Objective is to preserve and protect the existing conservation values of the wetlands through various mechanisms including: • reservation in national parks, • crown reserves and State-owned land, • protection under Environmental Protection Policies, and • wetland covenanting by landowners. No development or clearing is considered appropriate. These are the most valuable wetlands and any activity that may lead to further loss or degradation is inappropriate.

Management Category	General Description	Management Objectives	EPA Management Objectives (EPA, 2008)
Resource Enhancement Wetland (REW)	Wetlands which may have been partially modified but still support substantial ecological attributes and functions.	Priority wetlands. Ultimate objective is for management, restoration and protection towards improving their conservation value. These wetlands have the potential to be restored to conservation category. This can be achieved by restoring wetland structure, function and biodiversity. Protection is recommended through a number of mechanisms.	Priority wetlands. Ultimate objective is to manage, restore and protect towards improving their conservation value. These wetlands have the potential to be restored to Conservation category. This can be achieved by restoring wetland function, structure and biodiversity. Protection is recommended through a number of mechanisms.
Multiple Use Wetland (MUW)	Wetlands with few attributes which still provide important wetland functions	Use development and management should be considered in the context of water (catchment/strategic drainage planning), town (land use) and environmental planning through landcare.	Use, development and management should be considered in the context of ecologically sustainable development and best management practice catchment planning through landcare.

Source: Wetlands of the Swan Coastal Plan Volume 2b (Hill *et al*., 1996) unless otherwise referenced

The two Resource Enhancement wetlands currently mapped on the site were previously identified as a single wetland, Resource Enhancement Wetland (UFI 15898). This earlier mapping extended from the western to the eastern boundary of the site and included the central creekline as well as the wetland areas at either end.

A wetland assessment undertaken by PGV Environmental in 2014 found that the central portion of the previously mapped wetland, associated with the creekline, had significantly reduced ecological values and attributes due to altered geomorphology, historical land use, and the dominance of introduced flora species. Vegetation within this central area was assessed as being in Completely Degraded condition, with no native flora species present and a high abundance of weed species.

The eastern and western sections of the former Resource Enhancement Wetland (UFI 15898) supported vegetation in slightly better condition, with some native species present. However, the understorey in both areas was also assessed as Completely Degraded, with no native vegetation recorded apart from a single sedge species, and a high abundance of weeds. Notably, the Declared Weed *Zantedeschia aethiopica* (Arum Lily) was widespread, and Brazilian Pepper (*Schinus terebinthifolia*) was abundant within the eastern vegetated section.

DBCA reviewed the findings of the assessment and subsequently updated the wetland mapping. This resulted in the delineation of two smaller Resource Enhancement Sumplands—UFI 16226 and UFI 15940—as shown in the current mapping (Figure 5).

Under the *A Methodology for the Evaluation of Wetlands on the Swan Coastal Plain, Western Australia* (Department of Biodiversity, Conservation and Attractions, 2017), the wetlands are unlikely to be reclassified either upward to Conservation or downward to Multiple Use for the following reasons.

For the wetlands to be ungraded to Conservation Category the methodology requires a high degree of naturalness, ecological integrity, and minimal disturbance. In this case:

- Vegetation condition has been impacted by weed invasion.
- The western vegetated portion, while retaining mature *Eucalyptus rudis* and *Melaleuca rhaphiophylla*, shows clear disturbance.
- The eastern vegetated portion supports a dense canopy of *Melaleuca rhaphiophylla* over *Astartea fascicularis* and *Lepidosperma longitudinale*, but overall condition was assessed as Good at best.
- There has been modification to hydrology through excavation works and alteration of the creekline connecting the two wetlands.
- The degree of naturalness, as defined in the methodology, is considered Low.

Given these factors, the wetlands do not meet the higher ecological integrity thresholds typically required for Conservation status.

Conversely, a downgrade to Multiple Use is also unlikely as:

- Wetlands within the Mungala suite and the Southern River complex have been significantly impacted and reduced due to historic and ongoing land use pressures.
- As a result, the subject wetlands score highly for representativeness of geomorphology and vegetation complexes within the regional context.
- The vegetation, while impacted does retain a natural overstorey and therefore has Moderate values as defined under the methodology (DBCA, 2017).
- The wetlands provide habitat supporting fauna during vulnerable life stages (e.g., turtle nesting, tadpole development), indicating functional ecological value.

Given these factors, the wetlands meet higher ecological integrity thresholds than those required for Multiple Use status.

Based on the criteria set out by the 2017 DBCA methodology, the wetlands are appropriately classified as Resource Enhancement Wetlands. Their ecological values, while modified, remain significant within the broader landscape context. It is therefore unlikely that a reassessment under current site conditions would support a change in classification.

The two resource Enhancement wetlands are proposed to be retained with a buffer. Proposed buffer widths are examined and assessed in Section 3.9.

The part of the Creekline that is now mapped as UFI 15898 is categorised as Multiple Use. The functions of this wetland are best described in the context of a watercourse. The management of a watercourse is centred around ensuring water quality and quantity are managed as well as determining an appropriate foreshore. The determination of the foreshore is outlined in Section 3.10.

3.9 Wetland Buffers

3.9.1 Buffer Definitions

3.9.1.1 Separation Distance

EPA Guidance Statement 33 (EPA, 2008) states that wetlands that are to be protected require a minimum 50m buffer distance. This advice applies to Conservation Category wetlands as well as Resource Enhancement wetlands if they are to be retained in a development. There is no scientific rationale to justify why 50m is the minimum setback distance.

The Guidance Statement also says that an alternative to applying the minimum 50m setback is to undertake a site-specific buffer assessment. In determining a setback using site-specific studies the overall setback should be determined by:

- The wetland's values;
- The activities, land uses or development near the wetland, existing and proposed; and
- The threats posed by the adjacent activities, land uses or development.

The WAPC (2005) developed guidelines state that site-specific buffer requirements may be determined and notes that buffering may involve a combination of a setback distance and a physical barrier.

3.9.1.2 Wetland Function Area

The Wetland Function Area is defined in the *Guideline for Development of Wetland Buffer Requirements* (WAPC, 2005) as "*the spatial boundary of the wetland. It normally would include the wetland itself and the wetland vegetation*".

The wetland function area is defined by the wetland values (obligate wetland vegetation, surface saturation or inundation and/or hydric soils). The wetland function area for both wetlands has been delineated in wetland assessments (PGV Environmental, 2012) and is the area as mapped in the Geomorphic Wetlands of the Swan Coastal Plain Dataset (Figure 5).

3.9.1.3 Role of the Buffer

Wetland buffers are defined as the transition zone between the wetland and the surrounding land use. Buffers are measured from the wetland boundary as mapped in the Geomorphic dataset, confirmed by DBCA.

The role of the wetland buffer is to maintain the ecological processes, values and functions of the wetland and to protect the wetland from potential adverse impacts (EPA, 2008).

Fringing vegetation in buffers may fulfil the following habitat functions:

- Breeding and roosting habitat for birds inhabiting the wetland;
- Dryland habitat during inundation periods for terrestrial species; and
- Cover, feeding and breeding habitat for native fauna.

Because of the completely cleared nature of the buffer, and the existence of fill material the buffer does not currently fulfill any of these functions.

3.9.2 Potential Threats to the Wetland

3.9.2.1 Impact of Clearing on Groundwater Levels

Clearing for development typically gives rise to an increase in groundwater recharge and a decrease in evapotranspiration, leading to a rise in groundwater levels. The magnitude of this rise depends on local factors including the area and type of vegetation cleared. In new residential areas the rise is normally temporary, as progressive establishment of domestic and municipal bores increases groundwater abstraction.

The groundwater catchment for the wetlands has been cleared for many decades, and any groundwater rise attributable to that clearing is likely to have already occurred.

3.9.2.2 Direct Impacts on Vegetation

Potential direct impacts on the REW vegetation include people walking through the wetland vegetation from the Light Industrial development. This is considered highly unlikely as the Paperbark and Bulrush vegetation in the eastern wetland (UFI 15940) wetland is very thick, likely to contain Tiger Snakes as a deterrent to access, and people would need to cross the drain which is inundated for many months of the year. The western wetland (UFI 16226) has a more cleared understorey and therefore could have a higher level of access.

Wetland vegetation in both wetlands can also be inadvertently impacted during construction works resulting in damage to the existing vegetation.

3.9.2.3 Hydrology

Drainage of stormwater can pose a hazard to wetland values by changing the hydrological regime of a wetland, impacting on vegetation and wetland function.

Light Industrial development has the potential to add nutrients and contaminants to surface water in the wetland and groundwater due to activities on the Light Industrial sites and off roads.

3.9.2.4 Weeds

The REWs and associated buffers are currently infested with a number of invasive weeds. Weeds can be spread by wind, animals, humans (on footwear etc.), vehicles and by vegetative growth. Light industrial development is highly unlikely to increase the potential for weeds to spread further in the REW.

3.9.2.5 Fire

Fire can increase with additional human access, however the part of the wetland is already in an exposed site and fire does not appear to have been an issue previously. It is unlikely that the proposed development would increase the fire risk to the wetland vegetation.

3.9.2.6 Rubbish

Edge effects from Light Industrial development on adjacent bushland may include litter (windblown, casual littering and illegal dumping) impacting on wetland vegetation. With the installation of appropriate fencing and the implementation of waste management plans rubbish impacts can be mitigated.

3.9.2.7 Feral Animals

The wetland vegetation is highly likely to already be home to rabbits, mice, rats, feral cats and foxes.

Light Industrial development is unlikely to increase the number of mice, rats, cats and foxes as formal fencing will be provided to the development and each development will have controlled waste management in place.

3.9.2.8 Domestic Pets

Domestic pets are not likely to increase as a result of the light industrial development and therefore will not likely pose an increase threat to the wetland's fauna.

3.9.2.9 Edge Effects

Edge effects on wetlands and other bushland areas in the Perth region have traditionally been managed primarily by separation through the provision of buffers. However, protection against many edge effects can also be provided by other means such as hard edges such as roads, barriers (fences, swales etc.) and surveillance. The most effective protection from edge effects is considered to be a combination of separation and barrier.

3.9.3 Mitigation of Threats to Wetlands

Given that both Resource Enhancement Wetlands have the same threatening processes, similar environmental values, similar Completely Degraded buffers and are linked by the creekline it is considered to be appropriate to apply the same mitigation measures to protect the wetland values to each wetland.

3.9.3.1 Direct Impacts on Vegetation

To prevent people walking through the wetland, a fence should be installed between the development and the wetland buffer.

During construction and removal of fill from the wetland buffer all plans should show the extent of the wetland vegetation as being retained and not to be cleared. The wetland vegetation should be fenced temporarily during construction works to avoid inadvertent damage to the vegetation. Appropriate inductions and plans will ensure that the threat of inadvertent damage to the existing wetland vegetation will be mitigated.

The implementation of a reduced buffer does not increase the impacts of these threats to the wetlands and therefore a 15m buffer is considered appropriate to protect the existing wetland vegetation from direct impacts.

3.9.3.2 Hydrology

The hydrology of the wetland will be maintained using the drainage design system contained in the Local Water Management Strategy. The design will require stormwater is managed to maintain groundwater quality and quantity as well as managing overland flows to ensure that pollutants, both chemical and gross pollutants, are trapped and appropriately managed within the development area.

Drainage design for the development will be undertaken in in accordance with *Better Urban Water Management* (WAPC, 2008). Industrial lots are to use biogardens or similar vegetated treatment systems (according to the City) for their stormwater runoff. The industrial roads will also utilise bioretention gardens and be required to incorporate best practice strategies within their lot boundary

to treat stormwater including sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities.

Runoff from storms up to 1% Annual Exceedance Probability Event (100 year) attenuated back to allowable discharge rates specified by Perth Airport based on downstream system capacity (Oversby Consulting, 2026).

All drainage from the development will be managed under the Stormwater Management Plan (Oversby Consulting, 2026) with appropriate controls to manage stormwater and ensure there is no adverse impact on the surface water and groundwater quality.

The stormwater controls will be in accordance with:

- Perth Airport systems requirements;
- City of Kalamunda *Stormwater Design Guidelines* (2022);
- *Better Urban Water Management* (WAPC, 2008); and
- Principles of Water Sensitive Urban Design (DWER, 2011) (Oversby Consulting, 2026).

Groundwater will be managed to similar levels, so that there is a similar groundwater level within the wetlands, as well as existing inverts of control structures within the wetlands remaining essentially the same, effectively controlling groundwater levels through the wetland and waterway system.

The stormwater controls can be adequately managed within a 15m buffer with stormwater controls outside of the buffer.

3.9.3.3 Weeds

The proposed separation of the wetlands to the development using a hard barrier such as a road or limestone firebreak and 15m of native planting in the buffer will remove the threat of future weed vectors entering the REWs from the current site conditions.

3.9.3.4 Fire

The proposed treatment of the wetland buffer with native sedges will be undertaken in accordance with the Bushfire Management Plan to ensure that risks to wetland vegetation are appropriately mitigated. In addition, the use of planting in conjunction with the installation of a road or fire track along the perimeter of the wetland will provide supplementary fire control infrastructure. No additional buffers are required for the management of fire risks to the wetlands.

3.9.3.5 Rubbish

As part of Development Applications (DA) it is expected that a waste management plan will be required to ensure rubbish from the development is secured and fencing prevents any windblown rubbish from being blown into the wetland areas. The proposed wetland buffer and fence provide more protection from windblown rubbish than is the current situation.

Waste management measures and the fence will provide adequate protection to the wetland with no additional buffer required to mitigate the risk of impacts to the wetland function area from rubbish.

3.9.3.6 Feral Animals

The setback distance would not have any impact on cats, foxes or rabbits impacting on the wetland as these animals can roam over large distances. Appropriate waste disposal will need to be part of the

design of the Light Industrial development to ensure there is not a proliferation of rats and mice. This can be managed by the use of self-closing bins and ensuring that any food waste is managed appropriately. The proposed buffers to the wetland do not require additional distance to mitigate potential impacts from feral animals.

3.9.3.7 Edge Effects

Currently the wetland is not protected by any buffer and is impacted by a number of invasive weeds. The proposed Light Industrial development will include a buffer of 15m of planted vegetation, appropriate fencing to prevent access and a hard edge to reduce weed vectors. The Light Industrial development will also provide a higher level of public surveillance, which will minimise the opportunities for illegal dumping, vehicular access and arson.

It is expected that a 15m buffer and these additional protections to the wetland will effectively protect the wetland from edge effects.

3.9.4 Proposed Wetland Buffer

DBCA typically recommends a default 50 m buffer to wetlands in the absence of site-specific studies. However, where site conditions have been appropriately assessed, buffer requirements may be determined based on environmental values, and buffering may comprise a combination of setback distance and physical barriers.

Analysis of both of the Resource Enhancement wetlands' environmental values and the integrity of the wetlands' core, despite limited existing buffering in the surrounding landscape, indicates that a reduced buffer of 15 m would provide adequate protection of wetland values (Figure 6). The reduced wetland buffer will result in the following outcomes:

- Reinstatement of natural soils by the removal of fill in the wetland buffers;
- Protection from pollutants to the wetland by retaining the 15mm rainfall event in biogardens and sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities;
- Provision of controlled surface water flows to the wetland to maintain the hydrological regime;
- Reinstatement of native vegetation within the wetland buffer, improving the condition of the wetland;
- Improved fauna habitat values providing a sedgeland for birds, reptiles and amphibians;
- Management of deleterious impacts such as uncontrolled access, rubbish and feral animals; and
- Reduced weed vectors to the wetland.

The proposed main road through the centre of the Structure Plan Area (Appendix 1) incurs slightly into the 15m buffer in Wetland UFI 16226. The road has been aligned to be consistent with an existing driveway and crossover of the creekline and therefore minimises further disturbance to the waterway. The small decrease in buffer is unlikely to impact on the outcomes for the wetland.

3.10 Creekline Foreshore Assessment

3.10.1 Methodology

The section of the creekline located within Multiple Use Wetland UFI 15898 (Figure 5) exhibits functionality that is more accurately characterised as a watercourse. To determine appropriate setbacks that maintain the values of the watercourse and enhance its environmental attributes, a foreshore assessment was undertaken for this feature within the Structure Plan area.

The foreshore assessment includes database searches to obtain information about the creekline. The following were investigated:

- Review of flora and vegetation studies previously undertaken;
- Site specific field assessment of the creekline and foreshore;
- Historical aerial photographs were examined for evidence of any modifications to the banks or floodway for the creekline (Landgate, 2025a);
- Cultural heritage values from the Department of Planning Lands and Heritage (DPLH) Aboriginal Cultural Heritage Inquiry System specific to the creehline (DPLH, 2025);
- Soil mapping by the Department of Primary Industries and Resource Development (DPIRD) NRMInfo (DPIRD, 2025); and
- Groundwater attributes as undertaken for the LWMR (Oversby Consulting, 2024).

The field assessment was undertaken by PGV Environmental on 7 July 2025. The site survey included a thorough examination of the site.

3.10.2 Historic Creekline Condition

The Creekline on the site originates from drainage on the eastern boundary and flows from east to west at 22mAHD, flowing to the west to an elevation of 20mAHD (Figure 2). The Creekline has been highly modified for more than 60 years. In the aerial photograph from 1965 most of the creekline has been cleared (Plate 5).

A review of historical photography and anthropogenic remains on the site show the wetland areas have been highly disturbed. The flatter wetland areas have been used for grazing. The drainage line of the mapped wetland has been modified extensively.

The earliest aerial photography available is from 1953 (Landgate, 2014a) and shows the wetland has been partially cleared at this early date (Plate 6).

Plate 6: Aerial Photograph of Creekline from 1953 (Landgate, 2025a)



In aerial photography from 1985 the creekline appears to be modified further with the drainage line being deepened through excavation (Plate 7).

Plate 7: Aerial Photograph of Creekline from 1985 (Landgate, 2025a)



The drainage line has been significantly modified by excavation and fill has been added to the site over areas of the wetland (Plate 8). There are areas of fill along the creekline (Plate 9).

Plate 8: Excavated Area



Plate 9: Anthropogenic Fill



The incorporation of fill over much of the wetland area has altered the topography and drainage over the mapped wetland area.

3.10.3 Vegetation

The vegetation in the creekline is in mostly Degraded to Completely Degraded condition with a small area at the eastern end rated as Degraded to Good and the fringing areas are generally Completely Degraded and Degraded (Figure 4).

3.10.4 Watercourse Hierarchy

The creekline flows westward to the boundary of the Structure Plan area and water is then piped underground. The creekline is rated as a first order tributary as there are no other smaller tributaries flowing into the creekline downstream from the site (DPE, 2022).

3.10.5 Cross Sections

The bed and banks of the creekline have been highly modified and as such the grade of the banks, distance between the top of banks and width of the creekline is variable. The cross sections of the creekline are described in Table 12. The locations are shown on Plate 10.

Plate 10: Locations for Foreshore Assessment



Table 12: Creekline and Foreshore Assessment

Location	Bed	Banks	Landform Condition	Vegetation	Photographs
1	Shallow bed approximately 5-10m wide	Banks are modified due to excavation	Sandy soil and impacted by grazing. No slumping evident	MrAf - *Melaleuca rhaphiophylla/Astartea fascicularis* Thicket to Low Woodland. Area of foreshore cleared with some native sedges	

Location	Bed	Banks	Landform Condition	Vegetation	Photographs
2	Narrow bed approximately 5m wide	Banks narrowly incised due to excavation	Banks impacted by grazing but no obvious slumping or erosion	Creekbed contains some *Melaleuca rhaphiophylla* with weeds and is Degraded. Foreshore cleared and Completely Degraded	
3	The channel in this area has a bed approximately 10m wide	This area is more shallowly incised.	Banks impacted by grazing but no obvious slumping or erosion	ErMr *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily and is Degraded. Foreshore cleared and Completely Degraded	

The creekline is highly modified by excavation, clearing and fill and shows the impact of grazing. The vegetation in the creekline is Degraded to Completely Degraded (Figure 4). The fringing vegetation is mostly Completely Degraded with areas of fill and very little vegetation.

The stability of the banks of the creekline is assessed as being Moderate:

> *Some localised erosion, slumping and sediment deposits; native vegetation cover on verges may be patchy and interspersed with patches of exposed soil* (WRC, 1999).

The rating is mainly due to the presence of fringing vegetation along most of the banks with only a few occurrences of erosion impacting on the vegetation. The vegetation in the creekline and foreshore is considered to be Poor, defined as:

> *Modified vegetation structure with native plants comprising only (2 points) 20 - 50% of the total species composition. Trees remain with only scattered shrubs and an understorey dominated by weeds; prevalent disturbance* (WRC, 1999).

3.10.6 Living Stream

The degraded condition of the existing creekline provides an opportunity to modify sections of the watercourse and realign flows into a proposed living stream. The design builds on the current hydrological function of the site, where both the wetland areas and the open drain convey flows, while also providing storage and water treatment.

The degraded open drain will be partially rerouted to improve the overall site layout and to facilitate the establishment of a more naturalised drainage corridor that supports both stormwater management and ecological enhancement. Earthworks associated with the proposed living stream will create a relatively weed-free channel that can be revegetated with appropriate riparian species, while maintaining hydraulic capacity.

3.10.7 Floodplain Mapping

Floodplain mapping undertaken for the LWMR shows the 10% AEP is 11m wide for the length of the creekline (Oversby Consulting, 2026). The 1% AEP is 13m wide, due to the flattening of the banks (Oversby Consulting, 2026) (Appendix 8).

3.10.8 Foreshore Setback

The creekline is considered to be a waterway, rather than a basin type of wetland and, as such, management of the waterway is administered by DWER rather than DBCA. Waterways do not have a minimum setback such as the 50m setback that exists with basin type wetlands. Waterways require a foreshore area between a proposed development and the waterway primarily to protect the creekline ecology but also to protect any fringing vegetation and habitat that is important to the waterway and to prevent flooding of adjoining areas. A foreshore area can also provide public recreational amenity and potentially have a stormwater drainage function. The foreshore to the creekline is largely devoid of any vegetation, planted or native past the immediate area to the creekline.

There are several guidance documents to assist with determining an appropriate setback as follows:

- *Planning and Management Foreshore condition assessment in urban and semi-rural areas of south-west Western Australia* (WRC, 1999);
- Operation Policy 4.3: *Identifying and establishing waterways foreshore areas* (DoW 2012);
- Guidance Note 6: *Identifying and establishing waterways foreshore areas* (DoW 2013); and
- Water Note 23: *Determining foreshore reserves* (WRC 2001).

First order streams are generally recommended to have a total width of 20m plus the channel. The channel width is approximately 1.4m at the base of the channel and then has a main with of 11m. This would result in a total foreshore width of 41m (Figure 6). This generic width can then be considered in the context of multiple factors such as the biophysical conditions of the streamline, and the nature of the management requirements.

The biophysical criteria used to determine an appropriate setback are assessed in Table 13 for consideration when identifying a foreshore area (WRC 2001).

Table 13: Biophysical Criteria and Assessment

Biophysical Factor	Assessment of Factor	Spatial Implications for Setback
Vegetation	The wetland vegetation is mainly along the creekline made up of planted and native species that is all Degraded to Completely Degraded. There is no native vegetation on the remainder of the site away from the creek.	All wetland vegetation to be retained. No dryland vegetation needs to be retained due to its absence on the site. Therefore, setback not determined by site vegetation characteristics.
Hydrology	The creekline is mainly a narrow, shallowly incised central creek and a flat, broad floodplain that is partially waterlogged and inundated in winter/spring.	The setback width to the waterway will not affect the hydrological function of the creekline and floodplain.
Topography	The land adjoining the creekline is flat to moderately sloping and impacts on the foreshore area.	The foreshore setback should maintain the current topography. It is recommended that a reserve containing the 1%AEP would be adequate.
Soil Type	The soils are Pinjarra, Ya2 Phase (213Pj_Ya2) is located on plain and swamp margins with deep, poorly drained, grey siliceous sand overlying clay.	No spatial implications
Erosion	The narrow, shallowly incised central creekline have potential for erosion to occur so all existing vegetation should be retained	No spatial implications
Function	Function is flood conveyance to the Perth Airport Northern Drain Catchment	Water conveyance function not impacted by foreshore setback width
Habitat	Habitat is highly impacted and the current foreshore does not provide significant habitat values	No fringing dryland vegetation present that needs to be retained in a foreshore reserve. Therefore setback width not impacted.

Biophysical Factor	Assessment of Factor	Spatial Implications for Setback
Land Use	The creekline and foreshore previously used for agriculture but this will be ceased when the surrounding land use is changed is not used and dryland area not used	The future function of the foreshore area will likely include some passive recreational value such as a pathway parallel with the creekline.

The primary factor in determining a suitable setback from the creekline/stream is the generally Completely Degraded condition of the foreshore and lack of native vegetation. Management of stormwater in accordance with *Better Urban Water Management* (WAPC, 2008) will maintain water quality by retaining and treating first flush events while ensuring that the hydrological regime and overland flows to replenish the creekline are maintained. There are no factors identified that would warrant increasing the proposed foreshore so the total stream and foreshore width of 41m is considered to be adequate to protect and enhance the creekline environmental values.

4 ENVIRONMENTAL ASSESSMENT

4.1 Proposed Development

The proposal is to develop the site for Light Industrial purposes. The site is likely to be largely cleared with the exception of the vegetation associated with the creekline. The creekline may be rehabilitated to improve the ecological linkage it provides. Additionally formalising stormwater controls to manage runoff into the creekline will occur with the implementation of the Local Water Management Strategy in accordance with Better Urban Water Management. Mature trees should be retained where possible.

4.2 Land Use

The site has historically been mostly cleared and is not listed as a Contaminated Site. The past and present land use on the site is not considered a constraint to development.

4.3 Geology and Soils

The Pinjarra Plain System soils are not a constraint for development. There are similar developments on these land units in the surrounding area.

The soils mapped on the site have a high risk of being susceptible to wind erosion and therefore dust controls will be required during construction. Wind erosion risk will be minimised once the site is fully developed as the ground disturbing activities have been completed.

There is an acid sulphate soil risk as mapped over the site. WAPC *Acid Sulphate Soils Planning Guidelines* (WAPC, 2009) indicate that "*acid sulphate soils are technically manageable in the majority of cases*" which would be applicable to the site. ASS Investigation and, if required, Management Plans should be prepared once the detailed design of soil disturbance on the site is finalised. This should be undertaken in accordance with the *Acid Sulphate Soils Guideline Series: Identification and Investigation of Acid Sulphate Soils and Acidic Landscapes* (DER, 2015a) and *Treatment and Management of Soils and Water in Acid Sulphate Soil Landscapes* (DER, 2015b).

The soils on the site do not provide an environmental impediment to the development of the site.

4.4 Hydrology

Groundwater will be managed to similar levels, so that there is a similar groundwater level within the wetlands, as well as existing inverts of control structures within the wetlands remaining essentially the same, effectively controlling groundwater levels through the wetland and waterway system.

Stormwater management will be required to be addressed in accordance with *Better Urban Water Management* (WAPC, 2008). An Urban Water Management Plan will be required at the subdivision stage. All lots will be required to use biogardens or similar vegetated treatment systems (according to the City) for their stormwater runoff as well as best practice strategies within their lot boundary to treat stormwater including sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities.

Water management will be guided by the Local Water Management Report (Oversby Consulting, 2026). Management measures as per the LWMR are outlined below:

Water Conservation and Servicing

- *All lots are to be connected to a potable reticulated water main to provide security of supply.*
- *All residential lots are to be connect to mains sewerage.*
- *All residential lots are to utilise suitable on site effluent management.*
- *The Living Stream landscaping is to be primarily irrigated via stormwater and the shallow natural groundwater.*
- *The residential POS areas may receive irrigation*

Stormwater management

- *All new residential lots will detain and infiltrate the 5% AEP on site, as per the City of Kalamunda's guidelines.*
- *All new industrial lots will detain and infiltrate stormwater so that there 1% AEP runoff is in keeping with the requirements of the downstream Perth Airport drainage network.*
- *Bioretention systems and/or soakwells assist with treatment of stormwater with the new road networks.*
- *The Living Stream and retained Wetlands assist with treatment and detention of stormwater from the subject land and upstream catchments.*
- *The Southern POS basin will retain and infiltrate stormwater discharged into it.*
- *The lot detention, POS basins and Living Stream/ Wetland network detain all peak flows to at/below pre development rates as well as meeting the Perth Airport discharge rate.*

Flood management

- *All lot levels will be designed to maintain a minimum separation clearance of 300mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels generated on site.*
- *All lot levels will be designed to maintain a minimum separation clearance of 500mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels of the Living Stream and main POS detention basin.*
- *The Living Stream and wetland network allows for 1% AEP flood flows to traverse the subject land site as well as providing safe storage.*

Groundwater Management

- *Inflow to the groundwater is to be treated in bioretention gardens and Living Stream/wetland network.*
- *Where necessary the subject land is to be lifted using clean fill to maintain necessary separation to the groundwater.*
- *Subsoil systems are to be installed to control groundwater rise in areas with groundwater less than 1.5m from the surface.*
- *Mains sewerage will remove potential pollutants from the residential lots for treatment off site.*

- *Removal of stock and large gardens is likely to reduce nutrient loads to the groundwater.*

Ecosystem Protection and Enhancement

- *The stormwater system will assist with capturing sediments, large debris, nutrients and other pollutants from all stormwater runoff, protecting the subject land wetlands.*
- *New riparian ecosystems creation will be undertaken through converting the current degraded drainage line into a Living Stream.*
- *Bioretention systems will provide some limited habitat to fauna throughout the subject land.*
- *The wetlands are to be enhanced through weed control and revegetation as well as being protected in reserves with appropriate buffers* (Oversby Consulting, 2026).

The management of stormwater is not considered a constraint to development.

4.5 Flora and Vegetation

The flora and vegetation on the site has been significantly impacted by historical clearing. The proposed development would not result in conservation significant flora and vegetation being impacted. The vegetation on the site is mostly Degraded and therefore the proposed development will not impact on locally or regionally significant vegetation and there is no impact on any Threatened or Priority Ecological Community.

4.6 Fauna

The fauna habitat values have been impacted by the extensive historical clearing on the site and as such the proposed development would have very little impact on native fauna habitat. Impacts to Black Cockatoos are likely to not be significant however the retention of trees within the proposed development would mitigate some of the habitat loss.

A Fauna Management Plan should be prepared prior to clearing, including the trapping and relocation of both common and potential conservation significant species present on the site.

4.7 Heritage

There is an Aboriginal Cultural Heritage Site mapped on the site. Advice should be sought to determine obligations under the *Aboriginal Heritage Act 1972.* The sites are mapped over a large area and there are numerous developments, recent and ongoing in the area so the heritage site is not likely to be a constraint to development.

The identification of materials that may constitute an archaeological site, if identified during earthworks, would be required to comply with the *Aboriginal Heritage Act, 1972* regarding such sites.

4.8 Wetlands

4.8.1 Wetland Development/Retention

The management of wetlands within the Structure Plan area will be undertaken in accordance with the Local Water Management Report (LWMR), as outlined in Section 4.4. Several scenarios were explored during the Structure Plan design process.

A review was undertaken to determine whether the wetland values and attributes were commensurate with the existing mapping and classification on the site, or whether the wetlands were so degraded that they were no longer viable and could be included within the developable envelope.

Five of the Multiple Use Wetlands on the site were classified as being commensurate with Multiple Use values and were considered to have development capabilities. These wetlands are:

- Multiple Use Sumpland (UFI 16225);
- Multiple Use Dampland (UFI 15267);
- Multiple Use Sumpland (UFI 15777);
- Multiple Use Dampland (UFI 15779); and
- Multiple Use Sumpland (UFI 15780).

Multiple Use Sumpland (UFI 15898) is classified as Completely Degraded and was considered to be appropriately classified, except where the wetland forms part of the creekline that traverses the property and ultimately drains to the Helena River (ENV Australia, 2009). The creekline retains hydrological value and ecological function; however, this does not warrant an upgrade to the wetland management category.

The two Resource Enhancement wetlands have recently been assessed by the Department of Biodiversity, Conservation and Attractions (DBCA) and are considered to be accurately mapped and categorised. Accordingly, it is unlikely that the management category of these wetlands would be downgraded, and development within these wetlands is not considered appropriate.

As the classification of all wetlands on the site is considered accurate, it is not expected that any wetland management category would be upgraded in their current condition. The buffers and foreshore setbacks to the wetlands and creekline are classified as Completely Degraded and are characterised by anthropogenic fill, invasive weeds, and cleared paddock areas.

Management of the wetlands, creekline, buffers, and foreshore areas will include the removal of Declared Pests, management of invasive weeds, rehabilitation of disturbed areas, and improvements to water quality through the management of first-flush stormwater events. Over time, these measures may result in the wetland values becoming more commensurate with Conservation Category Wetlands.

The improvement in wetland values is considered to mitigate the impact of development within the Multiple Use wetlands elsewhere on the site. As the preservation and management of the wetlands provides mitigation for the onsite impacts it would not be considered an appropriate offset for projects undertaken in surrounding areas.

4.8.2 Wetland Buffers

The wetland buffers are Completely Degraded and have been significantly altered. Management of the threats to the wetland should be undertaken using a number of measures including:

- Management during civil works such as erosion control, soil stockpile management, protection of the creekline to prevent erosion, slumping and sedimentation;
- Access control using fencing and paths;
- Reinstation natural landform in areas that have fill.

- Management of the hydrology of the wetlands using the drainage design system contained in an approved Urban Water Management Plan including:
    - Hardstand runoff from the first 15mm of rainfall will be managed via biofiltration systems to provide water quality treatment of small events prior to off-site discharge.
    - Runoff from storms up to 1% Annual Exceedance Probability Event (100 year) will be detained within lots;
    - Maintenance of the predevelopment catchments and discharge locations to maintain the existing hydrological interface with the adjacent REW.
    - The stormwater controls should be in accordance with, but not limited to:
        - Perth Airport systems requirements;
        - City of Kalamunda *Stormwater Design Guidelines* (2022);
        - *Better Urban Water Management* (WAPC, 2008); and
        - Principles of Water Sensitive Urban Design (DWER, 2011).
- Weed control programs in the wetlands to management invasive weeds and Declared pests
- Provide adequate fire breaks to development; and
- Appropriate waste disposal/waste management plans as part of the design of the Light Industrial development to ensure there is not a proliferation of rats and mice, including self-closing bins and ensuring that any food waste is managed appropriately.

The proposed Structure Plan provides for 15m buffers surrounded by defined hard edges to protect the wetlands. There is a small area in which the buffer is proposed to be lightly reduced to utilise an existing road and crossover of the creekline for a main road through the Structure Plan area (Appendix 1).

The assessment demonstrates that the proposed removal of fill and revegetation within the proposed buffer as shown on Figure 6 will not only suitably protect the wetland's ecological functions but will also result in improved protection and enhanced ecological values. This outcome will be further supported by appropriate stormwater management measures designed to improve water quality, the installation of fencing to restrict access and function as a gross pollutant trap, and the provision of a defined hard edge to the wetland (such as a road or limestone fire track). Collectively, these measures provide an integrated approach to wetland protection.

Overall, the assessment concludes that the proposed 15 m buffer, together with the management measures incorporated into the Structure Plan, will suitably protect the wetland's ecological functions.

4.8.3 Wetland Treatment

In summary the wetlands as mapped on the site have the following recommendations as outlined in Table 14.

Table 14: Proposed Treatment of Wetlands in Structure Plan

Wetland Classification	Wetland Type	UFI Number	Location	Relevant Values	Retain (Yes/No)	Buffer/ Foreshore and Management Recommendation
Resource Enhancement	Sumpland	16226	Western side of the site.	Vegetation in Good condition and is also part of the creekline	Yes	15m buffer and then fencing and a hard edge to provide integrated management measures with weed management, rehabilitation and stormwater management
Resource Enhancement	Sumpland	15940	Eastern part of the creekline drainage line.	Vegetation in Good condition and is also part of the creekline	Yes	
Multiple Use	Sumpland	16225	To the north of the western REW	Vegetation is Completely Degraded	Yes – in buffer	Forms part of the 15m buffer to REW 16226
Multiple Use	Sumpland	15898	Traverses the centre of the northern part site from east to west along the creekline.	Vegetation is completely Degraded but is part of the creekline that ultimately flow to Helena River so needs to be managed to ensure there are no downstream impacts	Yes – in part along the creekline	To be treated as a watercourse with a 15m buffer to the 11m main channel for a total width of 41m that contains the 10% AEP with integrated management measures of fencing, a hard edge, rehabilitation and stormwater management consistent with the Resource Enhancement wetlands
Multiple Use	Dampland	15267	South of the creekline.	Cleared and filled in parts. Completely Degraded	No	NA
Multiple Use	Sumpland	15777	Northern part of Lot 200	Already cleared and filled	No	NA
Multiple Use	Dampland	15779	Central part of Lot 200	Already cleared and filled	No	NA
Multiple Use	Sumpland	15780	The southern part of Lot 200.	Already cleared and filled	No	NA

4.8.4 Living Stream

The creekline through the site has been degraded over many years, with sections of the channel highly modified and only limited riparian vegetation remaining. The proposed living stream has been designed to maintain hydraulic connectivity between the wetlands and ultimately convey flows to the Perth Airport Northern Drain catchment, while consolidating the existing drainage function and ensuring sufficient capacity to accommodate stormwater flows.

The design also incorporates measures to enhance both hydraulic performance and ecological value, including the establishment of riparian vegetation and the introduction of features such as minor meanders, rock boulders, pools and riffles.

4.8.5 Foreshore Reserve

The combined width of the channel of the living stream and proposed foreshore, totalling 41m of POS as shown on Figure 6, aligns with the proposed 15m wetland buffer widths, thereby providing continuity of environmental setbacks across the proposed development. The 41m corridor incorporates the 1% Annual Exceedance Probability (AEP) flood extent, together with an additional 9m on either side of the 1% AEP level.

The foreshore will be enhanced through native planting on the banks of the channel to improve bank stabilisation and provide additional protection to the waterway. Consistent with the wetland treatment, the creekline is expected to be fenced and bounded by a defined hard edge, such as a road or fire track. These measures will mitigate potential impacts associated with uncontrolled access, rubbish dumping, weed spread and edge effects.

In addition, the measures previously outlined and incorporated into the LWMR will ensure that both water quality and water quantity are appropriately managed, resulting in a positive downstream outcome.

5 SUMMARY AND CONCLUSIONS

5.1 Summary

The Environmental Assessment of the proposed Light Industrial Development of the Hatch Court Precinct has found the following:

- The historic and current land-uses on the site are not a constraint to develop the site in accordance with the Structure Plan;
- There are no Aboriginal Heritage sites or sites of other heritage values on the site;
- The soils mapped on the site are not a constraint to development. Soil types with a high to extreme wind erosion risk can be managed for dust control during construction through the preparation and implementation of a Dust Management Plan;
- Acid Sulphate Soil investigation and Management may be required;
- There are no Threatened or Priority flora species occurring on the site and therefore flora is not a constraint to development;
- The vegetation on the site is mostly Degraded and is not representative of a Threatened or Priority Ecological Community and the vegetation is not considered to be a constraint to the proposed development;
- The site contains some trees which provide foraging habitat and potential breeding habitat for Baudin's, Carnaby's and Forest Red-tailed Black Cockatoos. Clearing is unlikely to have a significant impact and a referral under the EPBC is not likely to be required;
- The development will maintain ecological linkage through the east-west creekline;
- Development will provide additional protection from potential contaminants from first flush event by installing appropriate stormwater controls in accordance with the LWMS while maintaining the hydrological regime of overland flow to the creekline in higher rainfall events;
- The Resource Enhancement wetlands and creekline have been individually assessed to determine appropriate buffers and foreshore setbacks;
- A 15m buffer to the wetlands combined with fencing around the buffers and a hard edge such as a road or fire track, supported by appropriate stormwater management measures designed to improve water quality, collectively provide an integrated approach to wetland protection which will result in the enhancement of the wetland values;
- Rehabilitation and ongoing weed control may result in improvements to wetland condition such that the wetlands develop attributes more representative of Conservation Category Wetlands.;
- The foreshore reserve width of 20m and 11m channel width as determined by the 10% AEP tot total 30m provide adequate protection to the creekline and maintains the continuity of management of wetlands and the waterway across the development;
- The creekline and foreshore are in Degraded to Completely Degraded condition, so the degraded creekline will be partially reconfigured to a living stream to ensure the creekline has enhanced water capacity for stormwater and improved environmental values and ecological function; and
- Implementation of foreshore management and rehabilitation measures within the foreshore to the creekline/living stream will improve the environmental function of the watercourse.

The considerations for the design of the development include rehabilitation of the Resource Enhancement Wetlands, living stream and associated buffers and foreshore to improve the ecological linkage it provides. Additionally formalising stormwater controls to manage runoff into the creekline in accordance with Better Urban Water Management. Mature trees should be retained where possible.

5.2 Conclusion

The Environmental Assessment of the Hatch Court Light Industrial Precinct concludes that development of the site is not constrained by any environmental factor.

Additional management of the following factors will be required in future stages:

- Rehabilitation and management of the creekline and wetlands;
- Tree retention strategy;
- Urban Water Management Plans in accordance with *Better Urban Water Management*;
- If required further investigation and possibly management for Acid Sulphate Soils;
- Fauna management and relocation plans; and
- Dust Management Plans.

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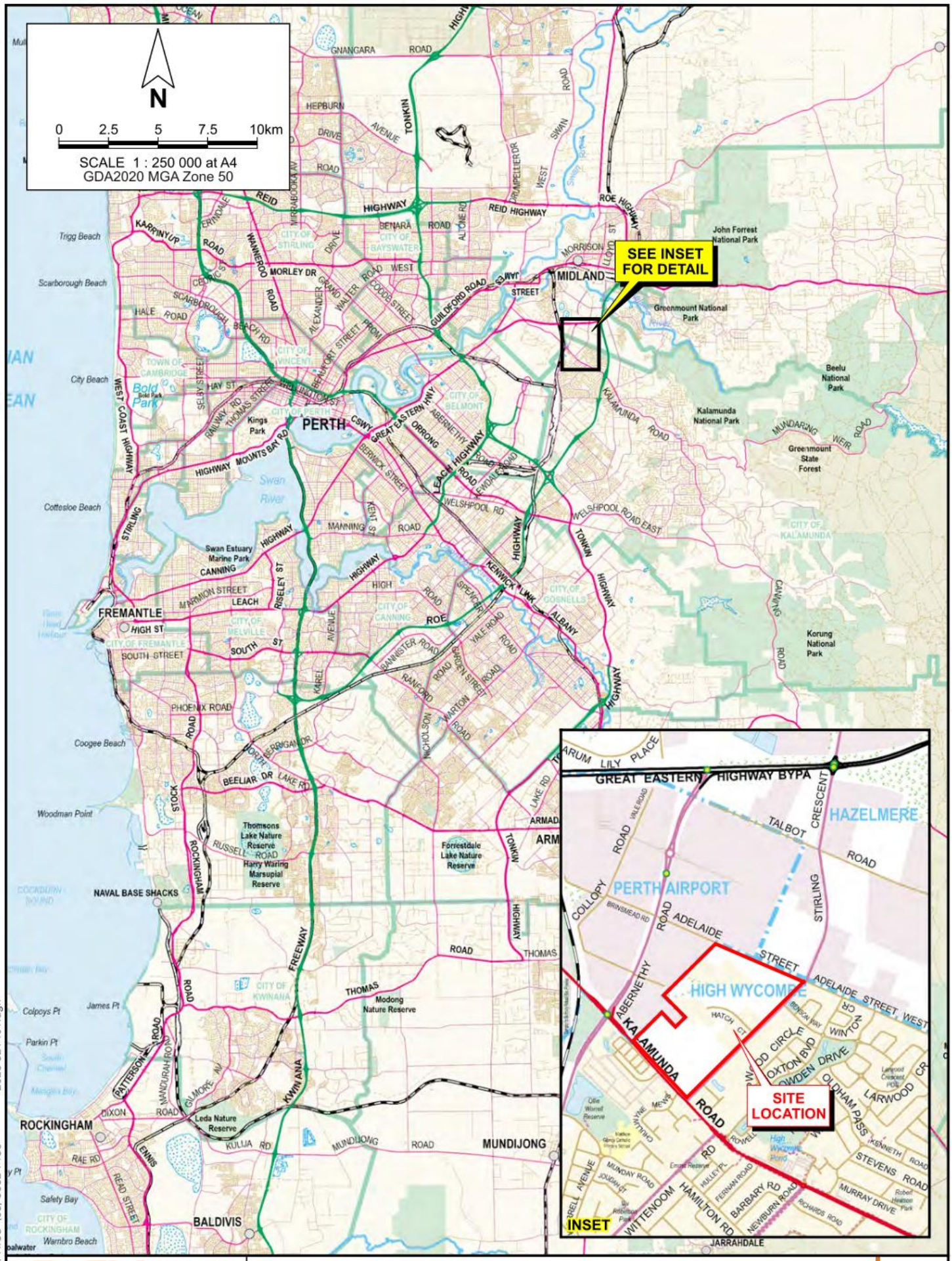
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FIGURES



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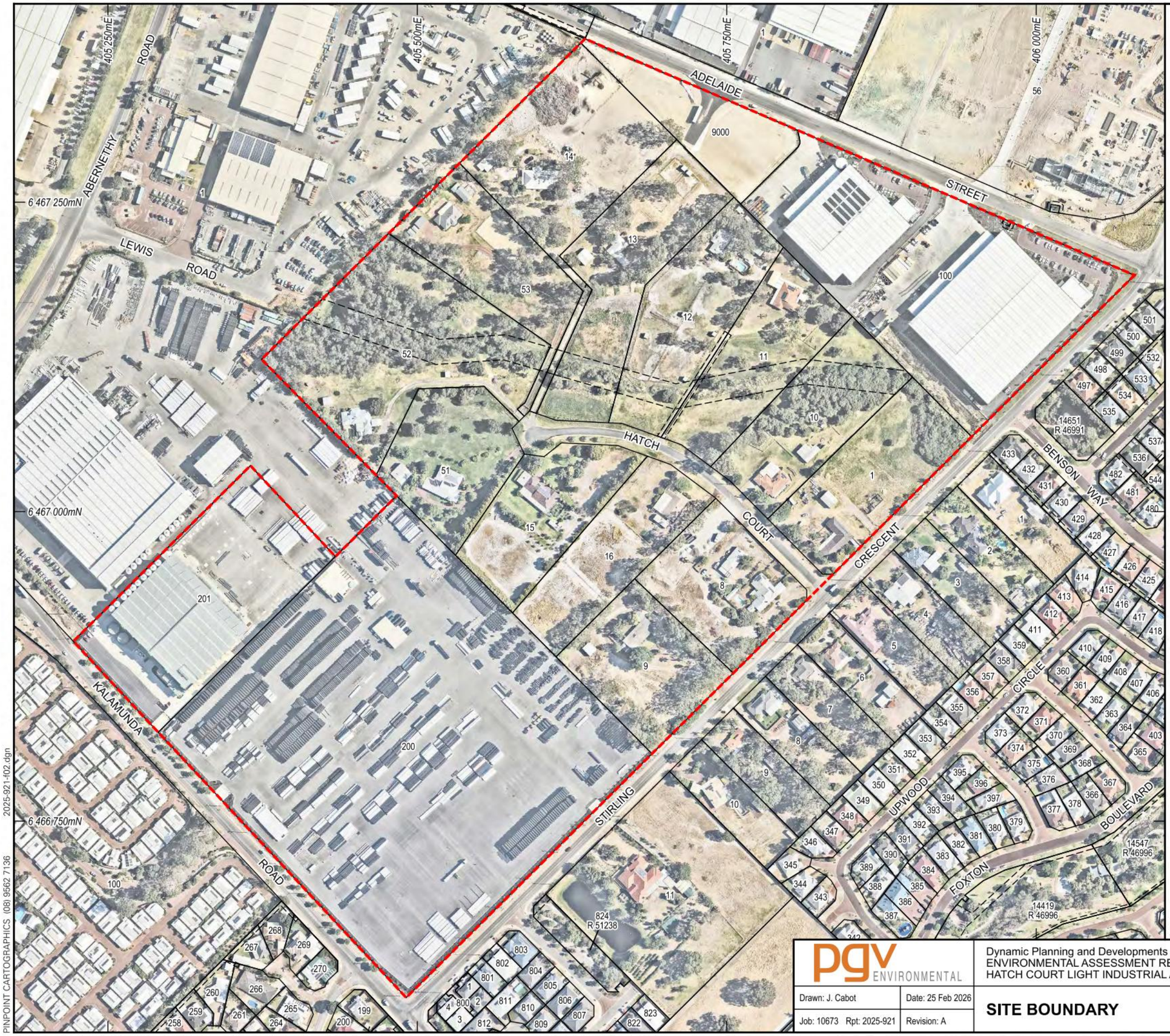
pgv ENVIRONMENTAL

Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot	Date: 25 Feb 2026
Job: 10673 Rpt: 2025-921	Revision: A

SITE LOCATION

Figure 1



CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2025-921-f02.dgn

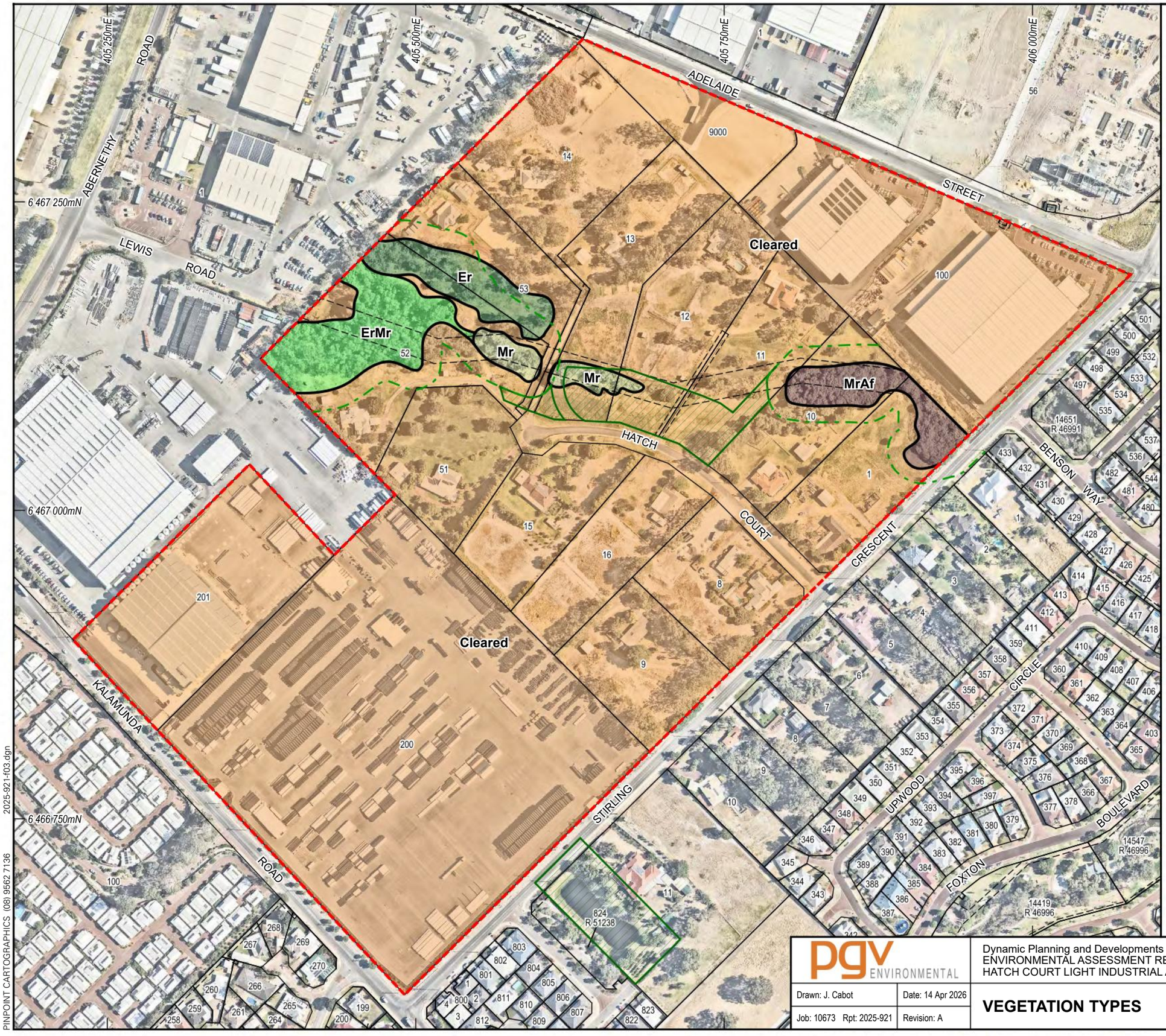
pgv ENVIRONMENTAL

Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot | Date: 25 Feb 2026
Job: 10673 Rpt: 2025-921 | Revision: A

SITE BOUNDARY

Figure 2



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Vegetation Type Boundary
- Er Vegetation Type
- POS
- 15m Wetland Buffer

Vegetation Types

ErMr
Eucalyptus rudis Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily

Er
Eucalyptus rudis Woodland to Low Forest over Pasture

Mr
Melaleuca rhaphiophylla Low Woodland over Typha and Arum Lily

MrAf
Melaleuca rhaphiophylla/Astartea fascicularis Thicket to Low Woodland

Cleared
Areas that contain no, or very few, native plants and are vegetated by exotic species

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

pgv ENVIRONMENTAL

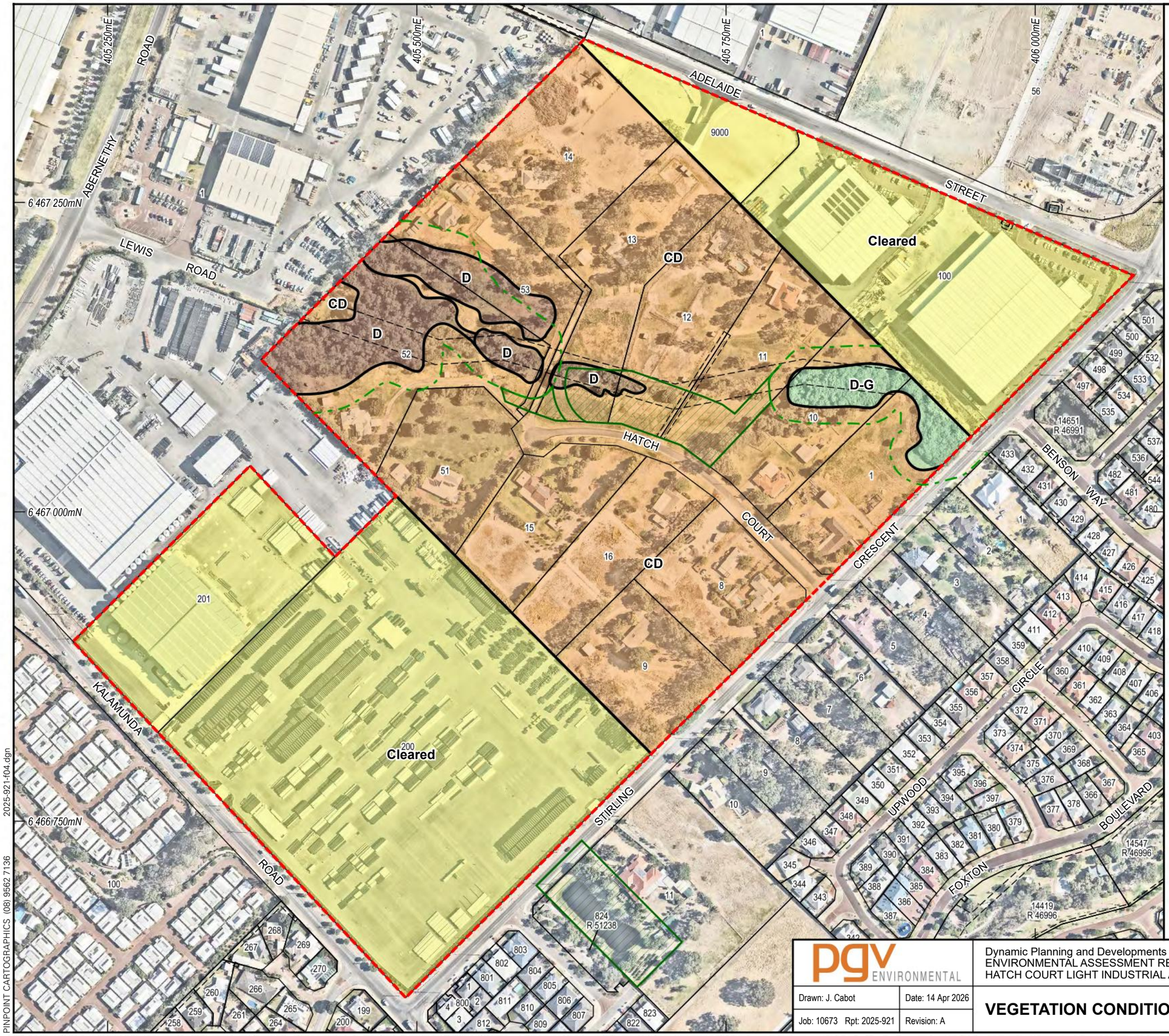
Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

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VEGETATION TYPES

Figure 3

2025-921-f03.dgn
PINPOINT CARTOGRAPHICS (08) 9562 7136



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Fence
- Vegetation Condition Boundary
- VG Vegetation Condition
- POS
- 15m Wetland Buffer

Vegetation Condition

- Degraded to Good
- Degraded
- Completely Degraded
- Cleared

Vegetation Condition
(SOURCE: Bush Forever, Govt. of W.A., 2000)

P - Pristine
Pristine or nearly so, no obvious signs of disturbance.

Ex - Excellent
Vegetation structure intact, disturbance affecting individual species and weeds are non aggressive species.

VG - Very Good
Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.

G - Good
Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.

D - Degraded
Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.

CD - Completely Degraded
The structure of the vegetation is no longer intact and the areas is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora composing weed or crop species with isolated native trees or shrubs.

Cl - Cleared
No native vegetation remaining.

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2025-921-f04.dgn

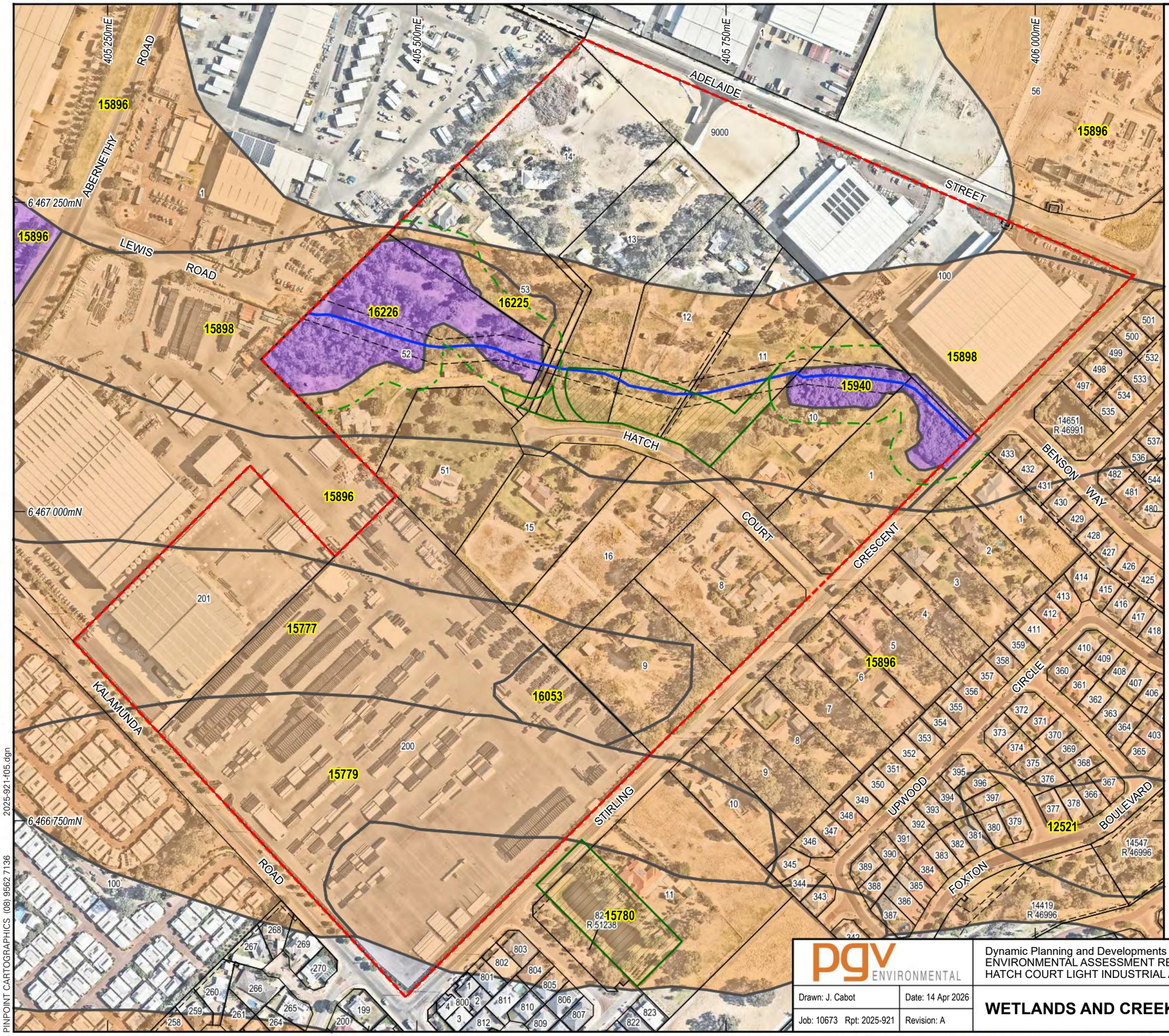
pgv ENVIRONMENTAL

Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot | Date: 14 Apr 2026
Job: 10673 Rpt: 2025-921 | Revision: A

VEGETATION CONDITION

Figure 4



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Creekline
- POS
- 15m Wetland Buffer

Geomorphic Wetlands

- Resource Enhancement
- Multiple Use
- 15940 Wetland UFI Number

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

2025-921-f05.dgn

PINPOINT CARTOGRAPHICS (08) 9562 7136

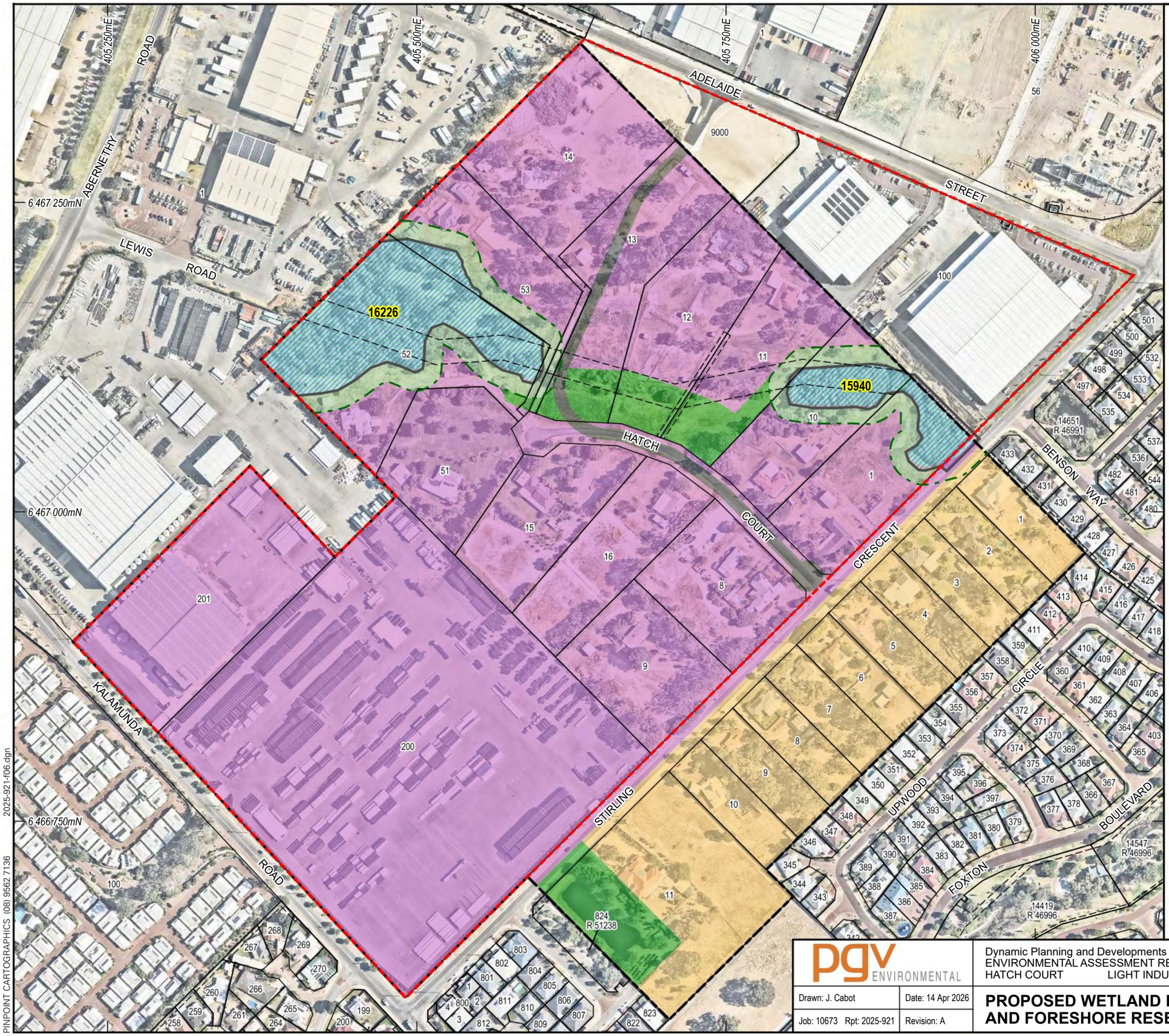
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Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot | Date: 14 Apr 2026
Job: 10673 Rpt: 2025-921 | Revision: A

WETLANDS AND CREEKLINE

Figure 5



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary

Geomorphic Wetlands

- Resource Enhancement
- 15m Wetland Buffer
- 15940 Wetland UFI Number

Structure Plan

- Structure Plan Boundary
- Industry
- Residential
- Roads
- Wetland
- Foreshore POS

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.
SUBDIVISION SOURCE: Dynamic Planning, Dwg No. 2490-2-001i, Rev 4, 17/03/26.

PGV ENVIRONMENTAL

Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot | Date: 14 Apr 2026
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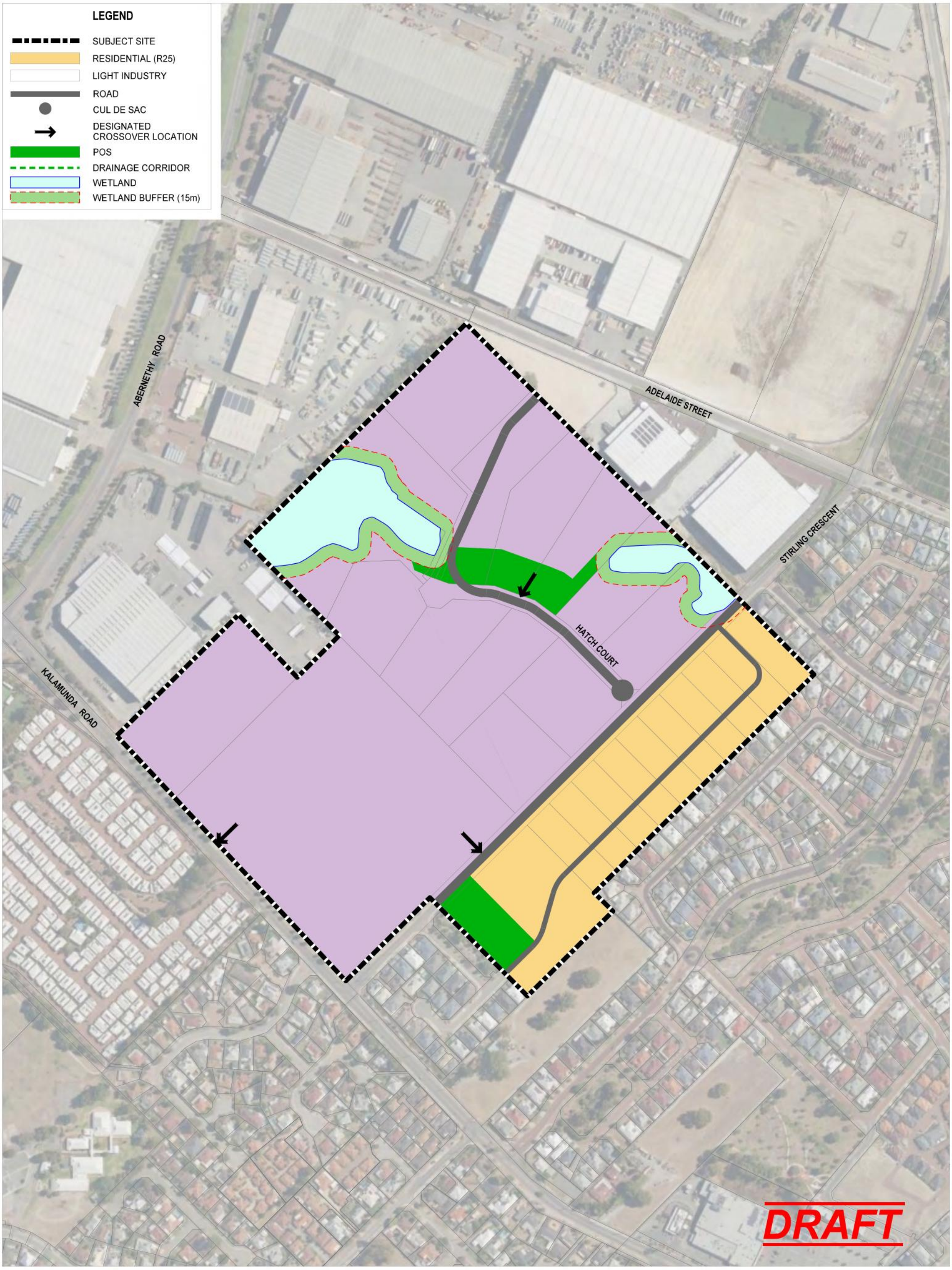
PROPOSED WETLAND BUFFERS AND FORESHORE RESERVE

Figure 6

2025-921-f06.dgn
PINPOINT CARTOGRAPHICS (08) 9562 7136

APPENDIX 1

Structure Plan



0 50 100 150 200
metres

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LOCAL STRUCTURE PLAN

CITY OF KALAMUNDA

VARIOUS LOTS - STIRLING CRESCENT / HATCH COURT

SCALE: 1:4,000 @ A3

DATE: 17 March 2026

FILE: 2490-2-001i

DRAW: - BL

CHECKED: -

DYNAMIC PLANNING AND DEVELOPMENTS
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APPENDIX 2

Aboriginal Cultural Heritage Inquiry System Reports

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Search Criteria

1 Aboriginal Cultural Heritage (ACH) Register in Custom search area - Polygon - 115.998059711699°E, 31.9305438329691°S (GDA94) : 116.000205478911°E, 31.928813780358°S (GDA94) : 115.999025306945°E, 31.9278303675207°S (GDA94) : 116.001771888976°E, 31.9254810609465°S (GDA94) : 116.005290947204°E, 31.9284131319531°S (GDA94) : 116.000355682616°E, 31.9325652216221°S (GDA94) : 116.000377140288°E, 31.9325470111118°S (GDA94) : 115.998059711699°E, 31.9305438329691°S (GDA94)

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All Aboriginal cultural heritage in Western Australia is protected, whether or not the ACH has been reported or exists on the Register.

The information provided is made available in good faith and is predominately based on the information provided to the Department of Planning, Lands and Heritage by third parties. The information is provided solely on the basis that readers will be responsible for making their own assessment as to the accuracy of the information. If you find any errors or omissions in our records, including our maps, it would be appreciated if you provide the details to the Department via https://achknowledge.dplh.wa.gov.au/ach-enquiry-form and we will make every effort to rectify it as soon as possible.

South West Settlement ILUA Disclaimer

Your heritage enquiry is on land within or adjacent to the following Indigenous Land Use Agreement(s): Whadjuk People Indigenous Land Use Agreement.

On 8 June 2015, six identical Indigenous Land Use Agreements (ILUAs) were executed across the South West by the Western Australian Government and, respectively, the Yued, Whadjuk People, Gnaala Karla Booja, Ballardong People, South West Boojarah #2 and Wagyl Kaip & Southern Noongar groups, and the South West Aboriginal Land and Sea Council (SWALSC).

The ILUAs bind the parties (including 'the State', which encompasses all State Government Departments and certain State Government agencies) to enter into a Noongar Standard Heritage Agreement (NSHA) when conducting Aboriginal Heritage Surveys in the ILUA areas, unless they have an existing heritage agreement. It is also intended that other State agencies and instrumentalities enter into the NSHA when conducting Aboriginal Heritage Surveys in the ILUA areas. It is recommended a NSHA is entered into, and an 'Activity Notice' issued under the NSHA, if there is a risk that an activity will ‘impact’ (i.e. by excavating, damaging, destroying or altering in any way) an Aboriginal heritage site. The Aboriginal Heritage Due Diligence Guidelines, which are referenced by the NSHA, provide guidance on how to assess the potential risk to Aboriginal heritage.

Likewise, from 8 June 2015 the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) in granting Mineral, Petroleum and related Access Authority tenures within the South West Settlement ILUA areas, will place a condition on these tenures requiring a heritage agreement or a NSHA before any rights can be exercised.

If you are a State Government Department, Agency or Instrumentality, or have a heritage condition placed on your mineral or petroleum title by DEMIRS, you should seek advice as to the requirement to use the NSHA for your proposed activity. The full ILUA documents, maps of the ILUA areas and the NSHA template can be found at https://www.wa.gov.au/organisation/department-of-the-premier-and-cabinet/south-west-native-title-settlement.

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- Lodged: Information which has been received in relation to an Aboriginal cultural heritage place, but is yet to be assessed under Section 5 of the *Aboriginal Heritage Act 1972.*
- Historic: Aboriginal heritage places assessed as not meeting the criteria of Section 5 of the *Aboriginal Heritage Act 1972*. Includes places that no longer exist as a result of land use activities with existing approvals.

Place Type: The type of Aboriginal cultural heritage place. For example an artefact scatter place or engravings place.

Legacy ID: This is the former unique number that the former Department of Aboriginal Sites assigned to the place.

Coordinates

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Aboriginal Cultural Heritage Inquiry System

List of Aboriginal Cultural Heritage (ACH) Register

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ID	Name	Boundary Restricted	Boundary Reliable	Culturally Sensitive	Culturally Sensitive Nature	Status	Place Type	Knowledge Holders	Legacy ID
3719	MUNDAY SWAMP.	Yes	Yes	Yes	No Gender / Initiation Restrictions	Register	Artefacts / Scatter; Camp; Ritual / Ceremonial; Creation / Dreaming Narrative; Hunting Place; Other; Plant Resource	*Registered Knowledge Holder names available from DPLH	S02219

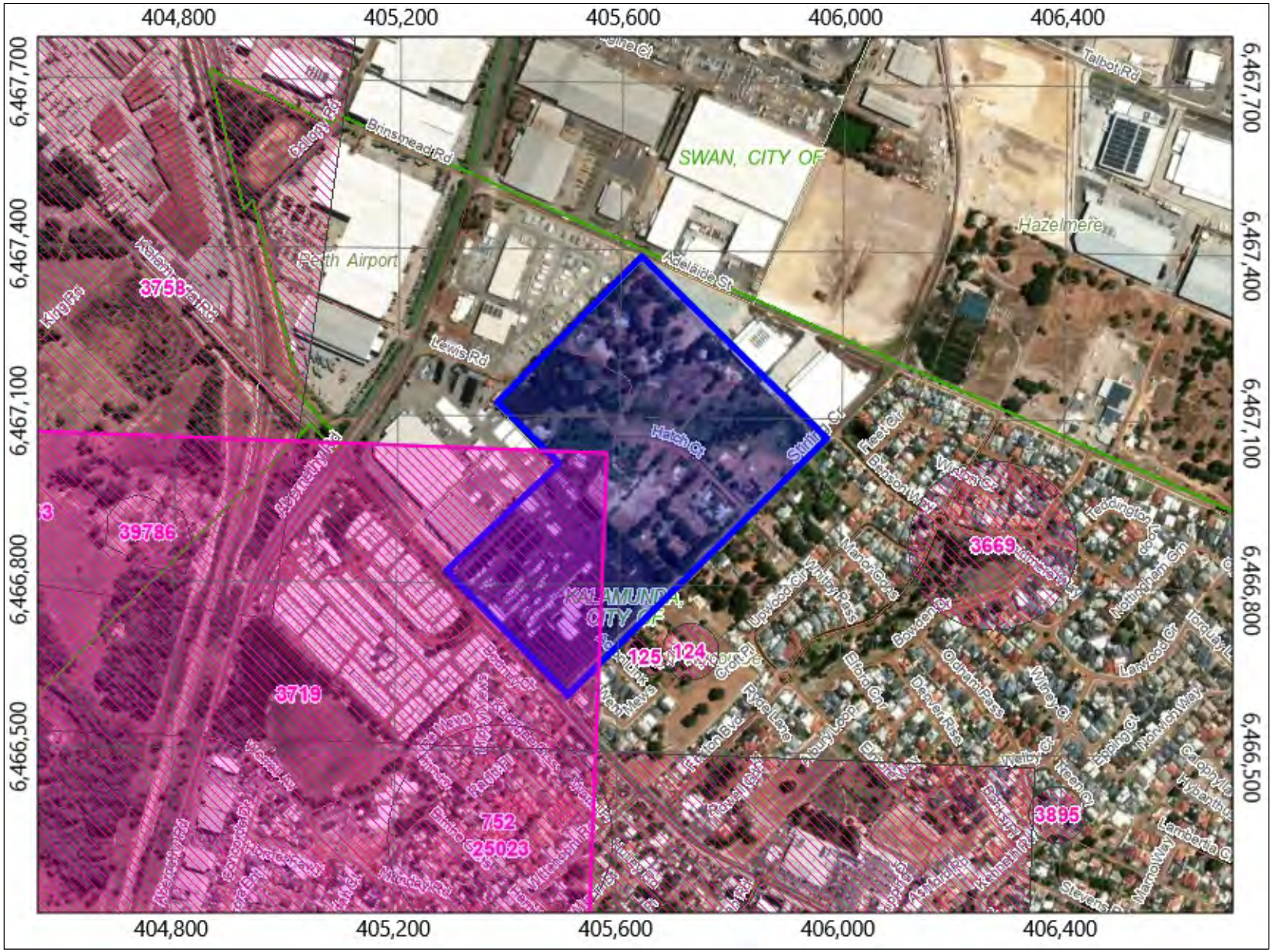
Department of Planning, Lands and Heritage

GOVERNMENT OF WESTERN AUSTRALIA

Aboriginal Cultural Heritage Inquiry System

Map of Aboriginal Cultural Heritage (ACH) Register

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Legend

- Aboriginal Cultural Heritage (ACH) Register
- Search Area
- Aboriginal Community
  - *Permanent*
  - *Seasonal*
  - *Town Based*
- Town
- Road
- River
- Local Government Authority

0.40 kilometres

Map Scale 1 : 12,300

MGA Zone 50 (GDA2020)

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Aboriginal Cultural Heritage Inquiry System

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Aboriginal Cultural Heritage Inquiry System

List of Aboriginal Cultural Heritage (ACH) Lodged

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ID	Name	Boundary Restricted	Boundary Reliable	Culturally Sensitive	Culturally Sensitive Nature	Status	Place Type	Knowledge Holders	Legacy ID
30039	Stirling Crescent Swamp	No	Yes	No	No Gender / Initiation Restrictions	Lodged	Historical; Hunting Place; Landscape / Seascape Feature; Water Source	*Registered Knowledge Holder names available from DPLH	

Department of Planning, Lands and Heritage

GOVERNMENT OF WESTERN AUSTRALIA

Aboriginal Cultural Heritage Inquiry System

Map of Aboriginal Cultural Heritage (ACH) Lodged

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Legend

- Aboriginal Cultural Heritage (ACH) Lodged
- Search Area
- Aboriginal Community
  - *Permanent*
  - *Seasonal*
  - *Town Based*
- Town
- Road
- River
- Local Government Authority

0.40 kilometres

Map Scale 1 : 12,300

MGA Zone 50 (GDA2020)

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All Aboriginal cultural heritage in Western Australia is protected, whether or not the ACH has been reported or exists on the Register.

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South West Settlement ILUA Disclaimer

Your heritage enquiry is on land within or adjacent to the following Indigenous Land Use Agreement(s): Whadjuk People Indigenous Land Use Agreement.

On 8 June 2015, six identical Indigenous Land Use Agreements (ILUAs) were executed across the South West by the Western Australian Government and, respectively, the Yued, Whadjuk People, Gnaala Karla Booja, Ballardong People, South West Boojarah #2 and Wagyl Kaip & Southern Noongar groups, and the South West Aboriginal Land and Sea Council (SWALSC).

The ILUAs bind the parties (including 'the State', which encompasses all State Government Departments and certain State Government agencies) to enter into a Noongar Standard Heritage Agreement (NSHA) when conducting Aboriginal Heritage Surveys in the ILUA areas, unless they have an existing heritage agreement. It is also intended that other State agencies and instrumentalities enter into the NSHA when conducting Aboriginal Heritage Surveys in the ILUA areas. It is recommended a NSHA is entered into, and an 'Activity Notice' issued under the NSHA, if there is a risk that an activity will ‘impact’ (i.e. by excavating, damaging, destroying or altering in any way) an Aboriginal heritage site. The Aboriginal Heritage Due Diligence Guidelines, which are referenced by the NSHA, provide guidance on how to assess the potential risk to Aboriginal heritage.

Likewise, from 8 June 2015 the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) in granting Mineral, Petroleum and related Access Authority tenures within the South West Settlement ILUA areas, will place a condition on these tenures requiring a heritage agreement or a NSHA before any rights can be exercised.

If you are a State Government Department, Agency or Instrumentality, or have a heritage condition placed on your mineral or petroleum title by DEMIRS, you should seek advice as to the requirement to use the NSHA for your proposed activity. The full ILUA documents, maps of the ILUA areas and the NSHA template can be found at https://www.wa.gov.au/organisation/department-of-the-premier-and-cabinet/south-west-native-title-settlement.

Further advice can also be sought from the Department of Planning, Lands and Heritage via https://achknowledge.dplh.wa.gov.au/ach-enquiry-form.

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Department of Planning, Lands and Heritage

GOVERNMENT OF WESTERN AUSTRALIA

Aboriginal Cultural Heritage Inquiry System

Map of Aboriginal Cultural Heritage (ACH) Historic

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Legend

- Aboriginal Cultural Heritage (ACH) Historic
- Search Area
- Aboriginal Community
  - *Permanent*
  - *Seasonal*
  - *Town Based*
- Town
- Road
- River
- Local Government Authority

0.40 kilometres

Map Scale 1 : 12,300

MGA Zone 50 (GDA2020)

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APPENDIX 3

DBCA Flora Database Searches

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
514217	3219	Acacia anomala	T	Flowers yellow.	In laterite.			Common name `Chittering Grass Wattle'.	10/09/1985
2239671	3219	Acacia anomala	T	Rhizomatous shrub to 0.5 m.	Gravelly loam, steep slope.	Eucalyptus marginata - E. calophylla woodland.			11/09/1991
804967	3219	Acacia anomala	T	Slender form full flower and a grasslike shrub to 40 cms.	Steep slope SSE aspect near crest. Loam over gravel.	In Eucalyptus marginata 10 m, Euc. calophylla -12 m woodland with scattered Casuarina fraserana to 50 m, Xanthorrhea preissii -3 m, over Low Scrub of Hakea undulata, Hakes amplexicaulis and Dense Low Heath.			2/09/1982
737089	3219	Acacia anomala	T	Slender form, full flower, grasslike shrub to 40 cm.	Steep slope, SSE aspect, crest of N side of gully. Brown sandy loam.	Growing in E. marginata, E. calophylla, Casuarina fraserana over low shrub over dense low heath.			2/09/1982
9669183	3220	Acacia aphylla	T	Shrub to 2 m.	S facing slope. Soil: brown sandy loam with gravel.	Jarrah/marri forest with shrub understorey.	2 plants.		17/11/2023
920894	3220	Acacia aphylla	T						/06/1974
116351	3220	Acacia aphylla	T	Sturdy shrub to 1.5 m, flowers yellow, single, globular leafless, dichotomously branched.	Granite.				5/08/1970
5880491	3220	Acacia aphylla	T		Slope. Moist - dry, brown clay loam. Granite - boulder.	Muir's: scattered marri on road verge. Hakea incrassata, H. erinacea, H. petiolaris, Dryandra armata, D. lindleyana, Nemcia sp., Xanthorrhoea preissii.	6 mature plants, 8 seedlings.		11/07/2001
1189018	3220	Acacia aphylla	T		Growing on road verge.				30/12/1987
9784055	3220	Acacia aphylla	T	Erect shrub 1.7 m high with yellow flowers. Flower in bud and early flowering stage.	On north and south verges.	Eucalyptus marginata and Corymbia calophylla open woodland 10-30 m, 0.25-20% on south side, grading to granite heathland to the north.	4 plants.		7/07/2020
9784233	3220	Acacia aphylla	T	Erect shrub 1.7 m high with yellow flowers. Flower in bud and early flowering stage.	On north and south verges.	Eucalyptus marginata and Corymbia calophylla open woodland 10-30 m, 0.25-20% on south side, grading to granite heathland to the north.	4 plants.		7/07/2020
8273553	3237	Acacia benthamii	2	Slender erect open shrub 70 cm high x 50 cm wide. In bud.	Slope above creek. Grey sand.	Degraded Tuart open woodland over Banksia low woodland.	scattered shrubs.		8/07/2007

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7485263	11229	Acacia drummondii subsp. affinis	3	Erect, perennial shrub up to 1 m high. Flowers yellow.	Hillside. Clay, rocky. In disturbed soil on road verge.	Medium trees, Marri.	21-50 plants.	Adult population. Percentage of plants flowering 90%.	25/06/2006
126209	3373	Acacia horridula	3	Flowers pale lemon. Height 1 - 2 ft.	Gravel.				5/06/1977
607509	14129	Acacia oncinophylla subsp. oncinophylla	3	Flowers yellow.					/09/1919
607592	14129	Acacia oncinophylla subsp. oncinophylla	3						30/09/1901
607614	14129	Acacia oncinophylla subsp. oncinophylla	3						/09/1916
607495	14129	Acacia oncinophylla subsp. oncinophylla	3	Shrub 4 - 6 ft.					/10/1939
607576	14129	Acacia oncinophylla subsp. oncinophylla	3						/01/1979
607541	14129	Acacia oncinophylla subsp. oncinophylla	3	Shrub to 1 m with many more or less erect branches; flowers yellow.	Near granite.				8/09/1961
5082846	14129	Acacia oncinophylla subsp. oncinophylla	3		Grey-brown gritty loam, with lateritic gravel and cobbels on surface, on a gentle-steep midslope.	Grevillea endilcheriana Low Scrub, over Trymalium lidifolium, Baeckea camphorosmae Dwarf Scrub, over Borya sphaerocephala Dense Herbs.			18/09/1996
7373856	14129	Acacia oncinophylla subsp. oncinophylla	3	Prostrate.	Numerous outcrops. Lower slope. Granite. Sandy loam with quartz.	Open heath.	2 plants.	Healthy population low disturbance.	4/10/2005
6921965	14129	Acacia oncinophylla subsp. oncinophylla	3	Shrub.	S facing slope. Brown loam and granite. Burnt 1989.	Open woodland of Marri and Wandoo over heath to 1 m. Darwinia pimelioides, Daviesia horrida, Trymalium ledifolium, Hakea cristata, Diplolaena sp., Phyllantus calycinus. Area weedy.			17/08/1992
607584	14129	Acacia oncinophylla subsp. oncinophylla	3	3 ft high. Flowers yellow.	Granite.	Heath.	scarce.		26/09/1977
607649	14131	Acacia oncinophylla subsp. patulifolia	4						/08/1971
4570502	14131	Acacia oncinophylla subsp. patulifolia	4	Shrub 2-3 ft (0.6-0.9 m).	Open position, heavy soil, base of Darling Scarp.				21/09/1946

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5097444	14131	Acacia oncinophylla subsp. patulifolia	4		Dark brown gritty loam, with surface gravel and cobbels on a very steep southern upper slope.	Grevillea endlicheriana, Hakea undulata Open Low Scrub, over Trymalium ledifolium, Hakea undulata mixed Dense Low Heath, over Amphipogon turbinata Low Grass, over Gonocarpus cordiger Very Open Herbs.			24/09/1996
8256136	18195	Amanita carneiphylla	3	Pileus up to 165 mm diameter, white, hemispheric when young applanate when mature, non-strate appendiculate margin, slightly viscid, no odour, context white, unchanging. Universal veil on the pileus: white, adnate, initially covering the whole pileus the	On Karrakatta sand. Emerging from deep sand.	Degraded Banksias woodland. Species of plants nearby: Jacksonia furcellata.	3 collected.	Microscopic character details housed with specimen. Gill piece taken for sequencing 27.1.13. - E. Davison.	15/06/2002
2224283	46334	Amanita kalamundae	3		In deep litter.	Under Eucalyptus patens and Agonis eriafolia.		MU89/110. Sporeprint.	18/06/1989
8774773	48332	Amanita preissii	3	Pileus to 48, 60 mm diameter, 4, 5 mm thick, white, plane with slightly depressed centre, margin appendiculate, context white, yellowing beneath pellis. Universal veil on pileus of thin layer over whole disc, breaking into small warts in centre of disc,		Garden of WA plants. Nearby woody plants: Eucalyptus spp., Calitris sp., Actinostrobus sp, Hemiandra sp.	single specimen.	Sequences for GenBank: ITS, nuLSU, BTUB, EF, RPB2.	22/05/2005
9327231	6309	Andersonia gracilis	T	Scraggly shrub with blue-green leaves and pink flowers.	Plain, brown sandy clay loam.	Tall open shrubland of Callitris pyramidalis over mid sparse shrubland of Beaufortia squarrosa and Petrophile seminuda over low sparse shrubland of Hypocalymma angustifolium subsp. Swan Coastal Plain (G.J. Keighery 16777). Some minor weeds present.	c. 15 plants seen at this location.		22/10/2019

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7129238	6946	Anthocercis gracilis	T		Slope - outcrop. Moist brown loam-clay, granite boulder. Burnt by wildfire in Summer 1996/97 and Summer 2003/04.	Marri and Wandoo open woodland. Macrozamia riedlii, Xanthorrhoea preissii, Hakea cristata, Acacia pulchella, Pimelea ciliata, Trymalium ledifolium, Rulingia cygnorum, Hibbertia hypericoides, Dryandra lindleyana, Darwinia citriodora, Caladenia sp., Diuris	1500+ mature plants.	Substantial weed invasion following a wildfire in the summer of 2003.	21/07/2005
9590692	6946	Anthocercis gracilis	T	Slender, sprawling shrub to 1.5 m tall. When flowering, petals pale yellow with a purple stripe down middle, purple at base.	SE facing slope. Uphill from creekline. Soil: Dark brown sandy loam.	Eucalyptus woodland with mid-dense shrubs to 1.5 m, with Banksia (Dryandra) sp., Macrozamia sp., Pimelea sp., Acacia sp., Xanthorrhoea preissii, Orthrosanthus laxus, Hakea lissocarpha, Eucalyptus wandoo, Corymbia calophylla, Trymalium [odoratissimum].	>100 plants.		16/12/2022
1059238	6946	Anthocercis gracilis	T			Growing in understorey.			15/08/1984
1059211	6946	Anthocercis gracilis	T	Straggling herb to 60 cm tall.					19/05/1984
5208963	6946	Anthocercis gracilis	T		Red-brown clayey loam, with dolerite cobbels and boulders, on a very steep south-eastern lower slope.	Eucalyptus laeliae, E. calophylla, E. wandoo Low Woodland, over Trymalium floribundum, Xanthorrhoea preissii Dense Heath, over Macrozamia reidlii, Phyllanthus calycinus Low Heath, over Loxocarya flexuosa Tall Sedges.			8/10/1996
5462096	6946	Anthocercis gracilis	T		Aspect S. Slope/outcrop/drainage line. Moist/dry red/brown/yellow loam/clay. Granite sheet/boulder. At times plants can be seen beside the walk trail W and growing to within 10 m of the water.	(Muir's) Regrowth marri and wandoo open woodland. Associated species: Acacia pulchella, Pimelea ciliata, Darwinia citriodora, Grevillea manglesii sp., G. bipinnatifida, Zamia, Hovea pungens, Daviesia horrida, Hakea cristata, Calothamnus sp.		Condition of population: healthy/moderate/ poor.	21/10/1999
7185308	6946	Anthocercis gracilis	T		Outcrop, slope, gully with granite sheet and boulders, granitic sand and dry brown loam. Burnt in summer of 2004/2005.	Scattered marri with Hakea crystata, Xanthorrhoea preissi, Acacia pulchella, Diplopeltis huegelii, Grevillea manglesii, Goodenia fasciculata and Hibbertia hypericoides. Massive infestation of Watsonia weeds.	30 mature plants over 10 m NS x 5 m EW.		29/08/2005

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9689222	6946	Anthocercis gracilis	T	Slender, multi-branched, low spreading shrub to 45 cm high, 80 cm wide. Cream-green and purple, pendulous flowers.	South facing gentle slope leading to Jane Brook with small granite outcrops.	Open Eucalyptus wandoo and Eucalyptus marginata woodland over Trymalium odoratissimum, Xanthorrhoea preissii, Hibbertia hypericoides shrubland.		Last burnt in October 2018 prescribed burn (ca. 4.5 YSLF).	7/07/2023
8738378	6946	Anthocercis gracilis	T	Slender, inconspicuous, intricately branched shrub. Fairly short-lived, growing and flourishing after fire. Flowers delicate hanging yellow bells.	Granitic loam, among granite boulders.	Under Rock Sheoak, with Balga, Warrine, Zamia and Forest Rice-grass.		Flowers in spring. Fire response - seeder.	23/09/1995
493376	7849	Asteridea gracilis	3		Rocky.				26/09/1977
9487999	50979	Austrostipa bronweniae	T	Clumped perennial grass to 0.8 m.	Seasonally inundated dampland, flat with sandy clay soil.	Very Open to Closed Tall Heath of Viminaria juncea, Melaleuca acutifolia, M. osullivanii, M. viminea, Callitris pyramidalis, Banksia telmatiaea, Grevillea thelemanniana subsp. thelemanniana, Hypocalymma angustifolium, Acacia lasiocarpa over Very Open to	278 mature and 1 juvenile.	Some plants occur on a walk track. Plants were in poor to moderate condition, looking very brown and dry (natural over-summer senescence?). The population is within a known Muchea Limestone TEC.	9/01/2015

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8133077	50979	Austrostipa bronweniae	T	Perennial grass, 0.6 m high x 0.3 m wide. Flowers green. Reproductive method: seeds, caespitose.	Wetland. Seasonally waterlogged muddy sand. Burnt ca 3 years ago.	Low trees. With Gahnia trifida, Actinostrobus pyramidalis, Grevillea thelemanniana, Melaleuca viminea subsp. viminea.		Aliens <5% cover. Other alien species: few (1-3). Population structure: immature seedlings and mature plants, 100% flowering. Two other small populations next door at Lot 28 Brook Road.	18/09/2009
8133069	50979	Austrostipa bronweniae	T	Perennial grass, 0.6 m high x 0.3 m wide. Flowers green. Reproductive method: seeds, caespitose.	Wetland. Seasonally waterlogged muddy sand. Burnt ca 3 years ago.	Low trees. With Gahnia trifida, Actinostrobus pyramidalis, Grevillea thelemanniana, Melaleuca viminea subsp. viminea.		Aliens <5% cover. Other alien species: few (1-3). Population structure: immature seedlings and mature plants, 100% flowering. Two other small populations next door at Lot 28 Brook Road.	18/09/2009
8816484	50979	Austrostipa bronweniae	T	Clumping, perennial grass. 0.6 m (in spike to 1.1.m) x to 0.5 m wide.	Dampland. Dry at time of collection. Seasonally wet. Brown to grey sandy clay.	Callitris pyramidalis and Viminaria juncea Tall Open Shrubland over Hypocalymma angustifolium, Grevillea thelemanniana var. thelemanniana, Acacia lasiocarpa, Boronia crenulata, Open Low Heath and Sedgeland/Herbland dominated by Chaetanthus aristatus, Cen	188 mature clumps and 45 juveniles.	Some clumps were in dense heath on the dampland and others were in relatively open sections.	29/10/2013
2474123	32211	Banksia mimica	T	Prostrate dwarf shrub to 15 cm.	In grey sand on slight rise next to flat.	Recently burnt. In heath with emergent Kingia australis, Nuytsia floribunda, Adenanthos cygnorum, Banksia menziesii, Dryandra nivea.		Abundance: occasional	21/03/1990
2474115	32211	Banksia mimica	T	Prostrate dwarf shrub to 25 cm high.	White sand on flat ground.	In very open woodland with heath understory. Banksia attenuata, B. menziesii, Adenanthos cygnorum, Nuytsia floribunda, Casuarina fraseriana, Xanthorrhoea.		Abundance: 20 plants.	4/04/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9327169	32211	Banksia mimica	T	Prostrate, spreading lignotuberous shrub to 25 cm with yellow flowers.	Flat, grey sand.	Mid sparse shrubland of Allocasuarina humilis and Lambertia multiflora var. darlingensis over low sparse shrubland of Eremaea pauciflora var. pauciflora over mid sparse sedgeland of Cyathochaeta equitans.	4 plants at this location.		18/12/2019
9704744	32211	Banksia mimica	T	Rhizomatous, clumping shrub to 0.40 m high. Upright entire, toothed leaves up to 8 mm wide and yellow/brown flowers at ground level.	Flat palusplain, grey sand.	Occasional Eucalyptus patens and Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Kingia australis, Eremaea pauciflora, Jacksonia floribunda, Banksia nivea, Bossiaea eriocarpa, Stirlingia latifolia, P	5 plants.	Plant 1. Flower collection taken from Population 15A. Partial survey.	23/01/2024
9704736	32211	Banksia mimica	T	Rhizomatous, clumping shrub to 0.40 m high. Upright entire, toothed leaves up to 8 mm wide and yellow/brown flowers at ground level.	Flat palusplain, grey sand.	Occasional Eucalyptus patens and Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Kingia australis, Eremaea pauciflora, Jacksonia floribunda, Banksia nivea, Bossiaea eriocarpa, Stirlingia latifolia, P	5 plants.	Plant 2. Flower collection taken from Population 15A. Partial survey.	23/01/2024
4634861	32138	Banksia pteridifolia subsp. vernalis	3						26/09/1989
3358666	32138	Banksia pteridifolia subsp. vernalis	3	Prostrate shrub 40 cm tall x 50 cm wide. New growth pink/brown. No buds, flowers or fruits.	Flat, sandy soils over loamy sands 0.4 m deep.		one group of 5 plants near Casuarina Road.		27/10/1992
3358674	32138	Banksia pteridifolia subsp. vernalis	3	Prostrate shrub to 0.4 m tall by 0.8 m wide.	Flat, grey sand.	Jarrah/Banksia over mixed heath natives.			14/01/1993
6166857	32138	Banksia pteridifolia subsp. vernalis	3		Flat. Dry grey sand. Previously a bridle trail.	Banksia attenuata - Eucalyptus marginata woodland. Lambertia multiflora subsp. darlingensis, Isopogon drummondii, Conospermum undulatum, Hakea ruscifolia, Hypolaena exsulca.	ca 10 plants.		8/08/1998
6038328	32138	Banksia pteridifolia subsp. vernalis	3	Stems underground, resprouting after fire; leaves somewhat glaucous when young; perianth and style pale gold.	On sandy flat.	With low shrubs and occasional Casuarina fraseriana and Eucalyptus marginata.			18/08/1998

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6038336	32138	Banksia pteridifolia subsp. vernalis	3	Stems underground, resprouting after fire; leaves somewhat glaucous when young; perianth and style pale gold.	On sandy flat.	With low shrubs and occasional Casuarina fraseriana and Eucalyptus marginata.			18/08/1998
2290235	5390	Beaufortia purpurea	3						/12/1900
2290278	5390	Beaufortia purpurea	3						6/11/1958
2290200	5390	Beaufortia purpurea	3						6/11/1958
2290499	5390	Beaufortia purpurea	3						21/11/1949
2290227	5390	Beaufortia purpurea	3						28/11/1903
2290219	5390	Beaufortia purpurea	3						10/01/1954
2290480	5390	Beaufortia purpurea	3		Subseral (granite) area.				26/09/1931
2290464	5390	Beaufortia purpurea	3						//
2290324	5390	Beaufortia purpurea	3						/12/1898
2290308	5390	Beaufortia purpurea	3						6/11/1958
2290383	5390	Beaufortia purpurea	3	8 inches high.	In gravel-clay.				24/01/1965
2290189	5390	Beaufortia purpurea	3						11/10/1906
2290391	5390	Beaufortia purpurea	3						/10/1923
2290448	5390	Beaufortia purpurea	3						/12/1933
2290286	5390	Beaufortia purpurea	3	Flowers purpureis.					/12/1923
2290332	5390	Beaufortia purpurea	3		On scarp face, among rocks and gravel.				27/10/1964
2290251	5390	Beaufortia purpurea	3						21/11/1961
1749943	5390	Beaufortia purpurea	3	Height 2 ft to 3 ft. Flowers scarlet.	Granite.	Heath.			12/11/1977
2239841	5390	Beaufortia purpurea	3						8/12/1990
2290405	5390	Beaufortia purpurea	3	Low shrub of spreading habit, flowers rich ruby red.	On laterite of roadside banks.	In Jarrah-Marri forest.			17/12/1971
2290375	5390	Beaufortia purpurea	3						23/12/1903
5102871	5390	Beaufortia purpurea	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.			19/09/1996
3369706	5390	Beaufortia purpurea	3	Dense low shrub, to 1.5 m. Flowers carmine red - purple. In full flower.	Gentle slope. Lateritic sandy clay over laterite.	Eucalyptus wandoo low open woodland over heath.			6/11/1990
9049355	5390	Beaufortia purpurea	3	Shrub.	White/yellow clay.	Open Low Woodland A (marri, wandoo) over Dense Thicket.			13/12/1983

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9049436	5390	Beaufortia purpurea	3	Shrub to 1.5 m.	Clay among granite. Road verge.	Heath B.	200+ plants.		3/11/1982
9033904	48689	Bolboschoenus fluviatilis	1	Perennial sedge, 1.7 m high.	Littoral zone, Swan River. Wet dark brown silt.	Flooded gum open woodland. Characteristic species: Melaleuca rhaphiophylla and Typha orientalis.	dense stand.		13/03/2018
8210187	48689	Bolboschoenus fluviatilis	1	Perennial herb 2.0 m high x 0.6 m wide. Brown flowers.	Flood plain. Collection site: reserve.	Tall trees. With Eucalyptus rudis, Juncus pallidus, Baumea articulata.	over 50 plants. Area: 101-1000 m squared.	Population structure: 70% flowering.	20/11/2008
2434393	48689	Bolboschoenus fluviatilis	1		On bank of river in mud.				20/01/1954
8210179	48689	Bolboschoenus fluviatilis	1	Perennial erect rhizomatous herb 2.0 m high x 0.6 m wide. Brown flowers.	Hillside/seep. Grey wet sand. Collection site: reserve.	Tall trees. With Lantana sp., Eucalyptus rudis.	6-20 plants. Area: 1-10 m squared.		20/11/2008
6255930	16618	Boronia humifusa	1	Small open spreading shrub to 0.15 m high. Multi-branching from base with viscid leaves and pink flowers.	Dry hilltop laterite with surface boulders.	Jarrah and Marri open woodland with Dryandra sessilis, D. lindleyana, Grevillea wilsonii.	scattered ca 20 plants.		17/07/2002
9497382	3178	Byblis gigantea	T	Insectivous [insectivorous] plant, large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils, on winter wet swamp flat.	Between low shrubs and heathland.			28/12/1996
7577869	3178	Byblis gigantea	T	Erect plant, multi-branching from the base, to c. 25 cm high. Blue/purple flowers.	Flat. Dry grey/brown sand.	Scattered Eucalyptus todtiana and Nuytsia floribunda with Kingia australis, Stirlingia latifolia, Verticordia densiflora, sedges.	2 plants.		7/12/2006
1487663	3178	Byblis gigantea	T		Sandy places.				3/11/1901
1488678	3178	Byblis gigantea	T						/12/1901
6439810	3178	Byblis gigantea	T	Insectivous plant. Large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils.	Low shrubs on winter wet swamp flat heathland.			28/12/1996
6439829	3178	Byblis gigantea	T	Insectivous plant. Large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils.	Low shrubs on winter wet swamp flat heathland.			11/12/2001
6512437	3178	Byblis gigantea	T	Erect perennial herb; flowers purple.	Palusplain; grey sand over ? clay.	Shrubland.	very common, fire the year before.		7/12/1994

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1488686	3178	Byblis gigantea	T	Perennial 18 in. high, nearly finished flowering; flowers pale pink.	In grey swampy sand.				23/01/1972
1488139	3178	Byblis gigantea	T	Flowers purplish pink.				Checked in W.E. Blackall's collecting book. - M.A. Lewington 06.05.2016. Not recorded.	/01/1939
9260013	3178	Byblis gigantea	T	Fls. violet.		Low scrubby swampy heath. Assoc. taxa: Lembertia [Lambertia].			23/10/1967
6053297	1596	Caladenia huegelii	T	Orchid 0.6 m high x 0.1 m wide.	Plain. Organic litter, grey sand over sand.	Low Forest A. Banksia menziesii, B. attenuata.	occasional.		4/09/2000
9312358	51048	Calandrinia sp. Bayswater (C. Andrews s.n. 11/1902)	1						/11/1902
2326221	5396	Calothamnus accedens	4	Height to 3 ft. Flowers scarlet-crimson.		Open wandoo forest.			28/11/1978
8110514	5396	Calothamnus accedens	4				rare.		/11/1977
8155089	5396	Calothamnus accedens	4	Shrub to 1 m, with lignotuber.	In gravelly clay.	In Marri - Wandoo woodland.			21/11/2006
1163183	13653	Calytrix breviseta subsp. breviseta	T	Flowers purple-blue.	Swampy clay flats.				5/10/1901
1163175	13653	Calytrix breviseta subsp. breviseta	T		Swampy ground.				/10/1901
3119033	13653	Calytrix breviseta subsp. breviseta	T		Swampy ground.				5/10/1901
8436975	13653	Calytrix breviseta subsp. breviseta	T	Spreading low shrub 0.2-0.4 m high x 0.2-0.6 m wide. Purple-blue flowers. Small angular leaves to 6 mm. Twiggy shrubs.	Edge of seasonal clay base open depression. Moist, grey-brown sand to fine sandy loam over clay.	Tall Open shrubland of Callitris pyramidalus, Viminaria juncea and Melaleuca acutifolia over Open Heath of Hypocalymma angustifolia and Acacia lasiocarpa over Open Sedgeland of Schoenus rigens, Chaetanthus aristatus over Herbland of Centrolepis aristata,	4 plants.		13/09/2012
2074516	759	Carex tereticaulis	3						/10/1903
5392977	759	Carex tereticaulis	3	Grass like herb 1 m high x 0.1 m wide.	Watercourse, wet. Organic litter. Grey Bassendean Sand over sand.	Dense Forest. Eucalyptus rudis, Melaleuca rhaphiophylla.	occasional.		17/05/1999

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9553371	51734	Commersonia sp. Lesmurdie (A.A. Mitchell 11429)	2	Semi scrambling shrub with white flowers growing up to 1.3 m tall.	Sloping seepage with brown cracking clay soil on basalt sill.	Melaleuca woodland with an understorey of 3 m tall tussocking sedges.	infrequent.		13/11/2022
9553339	51734	Commersonia sp. Lesmurdie (A.A. Mitchell 11429)	2	Erect shrub to 1.5 m tall. Flowers whitish/cream calyx and petals. Early fruiting.	On a hillside of brown cracking clay soil on a basalt sill/dyke.	Occurs in tall Melaleuca woodland with 3 m tall tussocking sedges and Lasiopetalum bracteatum.			/12/2023
2159597	13999	Conospermum undulatum	T	Shrub to 2 m. Leaf margins undulate. Inflorescences emergent above branches.	Low rise, grey sand.	In Banksia open low woodland A over Low scrub A and Low heath D.			24/10/1990
2159627	13999	Conospermum undulatum	T		Clayey sand over gravel.	Open woodland of Eucalyptus marginata, E. calophylla over open low scrub A of Hakea sp., over dense low heath c.		Abundance: 500 + plants.	/09/1990
2159570	13999	Conospermum undulatum	T	Erect shrub. Several plants with less undulate leaves intermixed with norma; undulate type.	Grey sand over yellow sand.	Dense low heat C of Pericalymma ellipticum.			12/11/1990
1409395	13999	Conospermum undulatum	T	Small compact shrub to 1.5 m.					20/10/1977
3136973	13999	Conospermum undulatum	T	1.00 m height.	Grey sandy soils, bottom of Darling Scarp.	0.5 -1.0 m open heathland not burnt. Banksia sp.		Abundance: frequent.	25/08/1993
1409379	13999	Conospermum undulatum	T						/06/1901
2159619	13999	Conospermum undulatum	T		Yellow-orange clayey sand over gravel.	With Banksia menziesii, B. attenuata, Eucalyptus marginata, Isopogon drummondii, Hakea conchifolia.		Abundance: 50 + plant in flower.	6/10/1990
2159783	13999	Conospermum undulatum	T		Yellow sand over laterite.	With Allocasuarina fraserina, A. humilis, Eucalyptus marginata, Banksia grandis, B. menziesii, Lambertia multiflora, Hakea conchifolia, Isopogon drummondii, B. incana.		Abundance: 50 plants	6/10/1990
1409387	13999	Conospermum undulatum	T	Multistemmed shrub, 4 ft tall.	On gravel at base of scarp.				/08/1971
2159732	13999	Conospermum undulatum	T		Yellow-grey sand, flat.	Banksia attenuata - B. menziesii Low Woodland A over open Low Scrub B.		Abundance: 400 + plants	14/10/1990
4612698	13999	Conospermum undulatum	T						20/10/1992

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2160013	13999	Conospermum undulatum	T	Narrow, erect shrub. Leaves distinctly undulate. Inflorescences emergent above branches.	Grey-white sand over laterite. Flat to gradual slope.	Banksia attenuata, B. menziesii Low Woodland over dwarf scrub and low heath.		Abundance: c. 1000-1500 plants	19/10/1990
5314054	13999	Conospermum undulatum	T	Sprawling shrub 1 m tall.	Low plain/swamp. White-grey sand. Bassendean-Southern River complex. Seasonal dampland. Probably burnt within last 5 years.	Heath B/Open low sedges/Open herbs with Melaleuca preissiana, Stirlingia latifolia, Anigozanthos manglesii, A. viridis, Mesomelaena tetragona, Dasypogon bromeliifolius.	1 plant.		21/01/1999
2159589	13999	Conospermum undulatum	T		Yellow sand over laterite.	Open low woodland of Allocasuaring fraserina and Eucalyptus marginata over dense low heath C of Lambertia multiflora with some Banksia incana.		Abundance: 800 + plants	6/10/1990
2159643	13999	Conospermum undulatum	T		Grey sand over yellow sand.	Open low woodland of Allocasuarina fraseriana, Banksia attenuata over heath B over low heath C. Lambertia multiflora, Hakea conchifolia, Adenanthos cygnorum, Isopogon drummondii.		Abundance: 50 + flowering plants	14/10/1990
2159694	13999	Conospermum undulatum	T		White-grey sand over yellow sand.	Low woodland A over dense low heath C. With Banksia menziesii, B. attenuata, Eucalyptus todtiana, Lambertia multiflora, Isopogon drummondii, Eremaea paucilfora.		Abundance: 500 + plants in flower.	6/10/1990
2159651	13999	Conospermum undulatum	T		Yellow clayey sand over gravel.	Surrounded by dense low heath.		Abundance: 50 + plants	14/10/1990
2159724	13999	Conospermum undulatum	T		Sand and gravel, flat.	In Banksia - Eucalyptus low forest B over open low scrub A over dense low heath C. Lambertia multiflora and Isopogon drummondii.		Abundance: 100 + plants	7/10/1990
2159791	13999	Conospermum undulatum	T	Shrub to 0.75 m, leaves undulate. Inflorescences erect above braches. Full flower.	Grey sand, flat.	Regenerating Eucalyptus marginata, Banksia menziesii, B. attenuata woodland over heath B.		Abundance: 50-60 plants	7/11/1990
2159678	13999	Conospermum undulatum	T		Grey sand.	In low forest A over low heath C. Associated species, Banksia menziesiim Eucalyptus marginata, Allocasuarina fraseriana, Lambertia multiflora, Isopogon drummondii.		Abundance: 15 flowering plants.	7/10/1990
2159600	13999	Conospermum undulatum	T		Flat, sand with gravel.	Low forest A of Banksia attenuata, B. menziesii and Allocasuarina fraseriana. In association with Lambertia multiflora and Isopogon drummondii.			12/11/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2159635	13999	Conospermum undulatum	T		Flat land on orange-yellow clayey sand over laterite.	In open low woodland of Eucalyptus marginata, E. calophylla over dense low heath.		Abundance: 2000 + plants.	/09/1990
1814214	13999	Conospermum undulatum	T	Erect woody shrub, to 1.5 m. Flowers white-grey, in full flower.	Deep yellow sand.	Low open Banksia woodland.			15/09/1984
2160005	13999	Conospermum undulatum	T	Erect shrub, leaves with undulate margins. Inflorescences emergent above branches.	Brown-grey sand, flat to gentle slope.	Banksia attenauta, B. menziesii low forest over low heath.			12/11/1990
1409298	13999	Conospermum undulatum	T	"Smoke Bush".				"Smoke Bush".	11/10/1918
2161478	13999	Conospermum undulatum	T	Low shrub to 0.6 m. Leaves onl slightly undulate.	Low lying flat, brown sand.	Regenerating Pericalymma ellipticum Dense Heath A.		Abundance: 2 plants	7/11/1990
1409344	13999	Conospermum undulatum	T		On sand.	Jarrah-sheoak association.			22/08/1961
5057493	13999	Conospermum undulatum	T		Red gravelly clay, with lateritic gravel, on a gentle northern lower slope.	Eucalyptus marginata, E. calophylla Open Low Woodland, over Hakea lissocarpha, Acacia pulchella, Xanthorrhoea preissii Dense Low Heath, over Conostylis setigera, Mesomelaena tetragona Open Tall Sedges.			20/09/1996
5299535	13999	Conospermum undulatum	T		NNW aspect. Slope. Dry yellow/grey sand.	(Muir's) Jarrah, marri and Allocasuarina fraseriana woodland. Hakea trifurcata, H. conchifolia, H. ruscifolia, H. lissocarpha, H. stenocarpa, Isopogon dubius, I. drummondii, Xanthorrhoea preissii, X. gracilis, Lambertia multiflorus, Hibbertia hypericoide			23/09/1998
5299527	13999	Conospermum undulatum	T		N-W aspect. Slope. Dry brown/yellow/grey sand/loam/clay/gravel.	(Muir's) Jarrah, Marri open woodland. Xanthorrhoea preissii, X. gracilis, Acacia pulchella, Dryandra lindleyana, Hakea ruscifolia, H. undulata, H. lissocarpha, Zamia, Hibbertia hypericoides, Daviesia decurrens, Leschenaultia biloba, Sedge sp., Hypocalymm			23/09/1998
6393799	13999	Conospermum undulatum	T						20/10/1992
6393802	13999	Conospermum undulatum	T						20/10/1992
4072324	13999	Conospermum undulatum	T	Shrub to 1.5 m, seed.	Light grey sandy soil, slight rise.	Banksia woodland, closed understory, not burnt.		Locally common.	14/12/1994

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6936768	13999	Conospermum undulatum	T	Perennial, spreading, open shrub, 1 m x 1 m, with white flowers.	Gentle slope at foot of Darling Scarp in reserve which was once a gravel pit, on lateritic gravel. Burnt March 2004.	Regrowth open Jarrah-Marri woodland with Hakea trifurcata, Xanthorrhoea preissii, Calothamnus sanguineus, Hibbertia hypericoides and fringing Dryandra sessilis thicket.	several plants in one area only.	Leaves only collected. Older plants are just beyond the limit of the fire but there seem to be regrowths in burnt area.	31/10/2004
2159759	13999	Conospermum undulatum	T		Grey sand over yellow sand.	Low woodland A of Eucalyptus marginata, Allocasuarina fraserina, Banksia menziesii, over open low scrub of Lambertia multiflora with Isopogon drummondii over dense low heath C		Abundance: 100 + plants in flower.	14/10/1990
2159686	13999	Conospermum undulatum	T		Grey sand over yellow sand.	Low woodland A (Banksia menziesii, Eucalyptus marginata, Allo- casuarina fraseriana over dense low heath.	300+ plants in flower.		14/10/1990
1409360	13999	Conospermum undulatum	T	Shrub 1 - 1.5 m high with grey flowers.	Sandy soil. Melaleauca flats often swampy.	Restionaceae, Cyperaceae, Acacia, Hakea, etc occurring.			6/09/1976
1409336	13999	Conospermum undulatum	T	Erect shrub 1 m. Flowers grey.					5/10/1978
1409328	13999	Conospermum undulatum	T	Shrub 1 - 1.5 m high with greyish flowers.	White sandy soils.	Among tall Banksias, with Gompholobium, Hibbertia, Acacia, etc.			6/09/1976
2159740	13999	Conospermum undulatum	T		Yellow clayey sand over gravel.	Low Woodland A of Eucalyptus marginata and E. calophylla over heath B of Lambertia multiflora over low heath C.		Abundance: Less than 10 flowering plants.	14/10/1990
2161451	13999	Conospermum undulatum	T		Grey sand over laterite, flat.	Open low woodland A of Eucalyptus marginata, E. calophylla, Banksia menziesii and B. attenuata over dense heath B.		Abundance: 100-150 plants.	23/04/1990
4219309	13999	Conospermum undulatum	T	Erect shrub to 1.5 m.	Grey sand.	Open woodland, Eucalyptus marginata, Banksia attenuata, Banksia menziesii, Stirlingia latifolia, Hibbertia hypericoides.		Abundance: c. 50 plants	8/11/1994
4221419	13999	Conospermum undulatum	T	Shrub to 1.5 m. Flowers smokey-white, in full flower.	Yellow sand, colluvial.	Banksia menziesii/attenuata low forest.	scattered in area.		20/08/1991
5132525	13999	Conospermum undulatum	T	Woody, open, few stemmed shrub to 1m high, perianth segments black, leaves basal.	On small unfenced suburban block. Grey sandy soil.	With Eucalyptus marginata and shrub understorey including Casuarina, Lambertia, Dasypogon, Hibbertia spp.			3/10/1996

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6797083	13999	Conospermum undulatum	T		Small rise at base of Darling Scarp. Dry, yellow-grey sand.	Woodland over shrubland. Associated species: Alexgeorgea nitens, Daviesia nudiflora, Dryandra lindleyana, Pityrodia bartlingii, Hakea ruscifolia, Hibbertia hypericoides, Jarrah, Marri, Bossiaea eriocarpa.	177 mature plants in area 165 x 30 m.	Condition of population: healthy.	9/03/2005
7892853	13999	Conospermum undulatum	T	Straggling, multi-stemmed shrub to 1.4 m; leaves crowded at ends of bare branches. Inflorescences and flowers white-woolly, the perianth black inside.	Sandplain - Bassendean Sand.	Jarrah-Marri-Banksia attenuata-Adenanthos cygnorum heathy woodland.	frequent but localised.		11/08/2007
7274459	13999	Conospermum undulatum	T	Multi-stemmed erect shrub 1-1.5 m high. Flowers silvery-white; in flower.	Edges of and shallow sandy rises. Grey sand over clay.	Disturbed ? Banksia low woodland.	only 2-5 plants in area.		15/10/2005
6234747	13999	Conospermum undulatum	T	Erect shrub.	Plain. Grey sand.		scattered with a range of maturity. 37 plants including 4 very small ones.	Plants in very healthy habitat.	7/10/2003
6234755	13999	Conospermum undulatum	T	Erect shrub. Plants flowering but many have lost buds.	Watercourse. Grey sand.		locally common.		7/10/2003
6723624	13999	Conospermum undulatum	T		Sandy soil. Not burnt.	Banksia woodland.			//
6723632	13999	Conospermum undulatum	T			Burnt and regenerating.			//
6723705	13999	Conospermum undulatum	T			Regrowth.			//
6723713	13999	Conospermum undulatum	T						//
6112919	13999	Conospermum undulatum	T	Shrub to 1.5 m tall. Undulate leaves.	Flat. White sand.	Banksia woodland. Associated species: Allocasuarina huegeliana, A. fraseri, Banksia attenuata, Hibbertia sp., Daviesia sp., Adenanthos sp., Lambertia multiflora var. darlingensis.	100+.		1/11/2001

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5586712	13999	Conospermum undulatum	T		Low lying plain, swamp-like in winter. Moist white-grey sand-clay over laterite. Plants begin ca 500 m N of Tonkin Highway intersection along road verge and into private property behind verge into bush.	Associated vegetation: Eucalyptus todtiana, Melaleuca, Allocasuarina, Banksia.		Condition of population: moderate.	14/01/1999
5815762	13999	Conospermum undulatum	T		Flat. Dry grey sand.	Associated species: Banksia sp., Allocasuarina humilis, sedges, Daviesia sp., Dryandra lindleyana, Xanthorrhoea preissii.		Condition of population: healthy.	9/04/2001
6511473	13999	Conospermum undulatum	T	Flowers white.	Dune Ridge; flat ground. Brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.			10/11/1995
6950906	13999	Conospermum undulatum	T		Gently sloping dune with grey over yellow sand.	Woodland over shrubland with Allocasuarina fraseriana, Banksia attenuata, Banksia menziesii, Xanthorrhoea preissii, Dryandra lindleyana, Lambertia multiflora var. darlingensis, Isopogon drummondii, Caustis dioica, Hakea prostrata and Daviesia nudiflora.	39 mature plants over ca 300 m x 50 m in area.	Central population in very good condition, remainder in degraded condition with weeds.	27/01/2005
7193920	13999	Conospermum undulatum	T		Sand over laterite.	With Stirlingia latifolia, Allocasuarina fraseriana, Corymbia calophylla, Dryandra sessilis, Grevillea wilsonii, Hakea stenocarpa, Petrophile striata, Hibbertia hypericoides, Hypocalymma robustum, Philotheca spicata, Haemodorum paniculatum, Conostylis ca			9/09/2005
7373821	13999	Conospermum undulatum	T		Sand dune. Grey sand.	Open Banksia woodland with Eucalyptus marginata, Corymbia calophylla, Banksia attenuata, B. menziesii, B. grandis, Stirlingia latifolia.			26/11/2002
2159996	13999	Conospermum undulatum	T	Erect, narrow shrub 1.2 m high.	Grey sand over laterite on flat terrain.	Woodland and heath with Banksia attenuata, B. menziesii, Allo- casuarina fraseriana, Isopogon drummondii.	frequent-occasional.		23/04/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8134162	13999	Conospermum undulatum	T	Perennial shrub, 0.80 m high x 0.20 m wide. Flowers white.	Plain. Dry grey soil. Old soil disturbance.	Medium trees. With Banksia menziesii, Allocasuarina fraseriana, Xanthorrhoea preissii, Conostylis aculeata, Anigozanthos manglesii, Adenanthos cygnorum.	6-20 plants, 10 mature plants.	Population structure: adult, 100% in bud, 50% flowering. Other alien species: many (4 or more). Total weed cover: up to 25% of site.	24/07/2009
8863830	13999	Conospermum undulatum	T	Erect compact shrub, 0.8 m high with old flowering scapes, leaves narrowly linear to 10 mm wide, tapering to base, distinctly undulating leaf margins.	In grey sand on flat, well-drained site. Frequent slashing between bushland remnants.	Woodland of Eucalyptus marginata over Low Closed Forest of Banksia menziesii, Allocasuarina fraseriana, Agonis flexuosa (naturalised from planting) over Shrubland of Adenanthos cygnorum, Lambertia multiflora, Daviesia divaricata over Low Shrubland of All	2 plants only.		7/12/2016
7684088	13999	Conospermum undulatum	T		Slope. Brown sand.	Low Woodland of mixed species including Bossiaea eriocarpa, Banksia menziesii, Eucalyptus marginata over Open Low Heath of mixed species dominated by Eremaea pauciflora, Allocasuarina humilis, Xanthorrhoea preissii and Lambertia multiflora var. darlingen		Healthy population.	22/09/2004
7888198	13999	Conospermum undulatum	T	Shrub.	Flat. Grey sand.	Low woodland (Disturbed). Banksia attenuata, Banksia menziesii, Banksia ilicifolia, Hibbertia subvaginata, Dasypogon bromeliifolius, Melaleuca seriata, Lyginia barbata, Patersonia occidentalis.			21/08/2002
7888201	13999	Conospermum undulatum	T	Shrub.	Flat. Grey sand.	Woodland. Corymbia calophylla, Banksia attenuata, Banksia menziesii, Melaleuca preissiana, Xanthorrhoea preissii, Hypocalymma angustifolium, Adenanthos obovatus, Regelia ciliata, Jacksonia furcellata.			3/09/2002
7746903	13999	Conospermum undulatum	T	Erect shrub with grey-white flowers 120 cm high. Flowers grey/white.	Grey sand. + 3 years since fire. Disturbed.	Acacia pulchella var. pulchella, Stirlingia latifolia, Desmocladus flexuosus, Corymbia citriodora, Persoonia saccata, Synaphea gracillima, Banksia menziesii, B. attenuata, Chamaecytisus palmensis, Eucalyptus todtiana, Melaleuca sericata and Jacksonia flo	2-5 plants.		21/08/2002

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8863849	13999	Conospermum undulatum	T	Low compact shrub, 0.5 m high, with old flowering scapes, leaves linear/narrowly elliptic to 20 mm wide tapering to base, undulating margins.	In grey sand on flat, well-drained site. Frequent slashing between bushland remnants.	Disturbed small remnants of Open Woodland of Eucalyptus marginata, Banksia menziesii, Allocasuarina fraseriana over Shrubland of Daviesia divaricata, Xanthorrhoea preissii, Eremaea pauciflora, Hibbertia hypericoides and Very Open Sedgeland of Mesomelaena	1 plant only.		7/12/2016
9006184	13999	Conospermum undulatum	T	Shrub, 1.5 m high x 0.7 m wide. Old flowers.	Flat, with dry grey/brown sandy loam.	Degraded site. Open Jarrah woodland with Banksia sessilis understorey. Associated species: Allocasuarina fraseriana and Grevillea wilsonii.	one plant only.	Not the usual habitat for this species.	15/05/2018
6714595	13999	Conospermum undulatum	T		Slope. Dry brown sand, laterite.	(Muir's) Jarrah and Marri open woodland. Isopogon sp., Grevillea trifurcata, Jacksonia sp., Anigozanthos manglesii, Conostylis sp., Leucopogon pulchellus.	3 plants over 15 m x 15 m.		2/10/2003
950548	50708	Cyanothamnus tenuis	4		Red stony soil.				22/08/1953
950025	50708	Cyanothamnus tenuis	4					Collected in August, no year given.	//
950521	50708	Cyanothamnus tenuis	4						21/08/1954
950513	50708	Cyanothamnus tenuis	4		Wooded hillside.				28/09/1955
1180460	50708	Cyanothamnus tenuis	4	Very spindly and open small shrub to 0.3 m. Flowers pink.	On edge of brook. Slope.	With Eucalyptus overstorey and many introduced weeds - Watsonia etc.		Abundance: occasional.	23/09/1990
5846080	16245	Cyathochaeta teretifolia	3	Clumped rhizomatous herb 1 m high, 10 cm wide.	Tumulus Spring, black peaty sand.	Closed sedgeland ((adjacent). With Melaleuca preissiana, Agonis linearifolia, Astartea aff. fascicularis.		Plants in cleared track, regrowth from rhizome unburnt plants to 1.8 m by 0.5 m; occasional plants flowering.	18/09/1999
4096711	16245	Cyathochaeta teretifolia	3						6/12/1902
1030507	16245	Cyathochaeta teretifolia	3		Swamp.	Habitat of Gahnia.			/12/1901
2554658	7485	Dampiera triloba	3						/10/1900
2554631	7485	Dampiera triloba	3						06/12/1899

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9517618	5505	Darwinia apiculata	T	Low spreading woody shrubs, c. 0.6 m x 2 m surface area from above. c. 25 cm tall. Leaves linear and apiculate. 3-6 fl. per infl., bracts orange-red-brown-green. Inflorescence sideways to pendulous.	Corymbia woodland, leaf litter over lateritic gravel. Flat undulating landscape.	Corymbia calophylla canopy, Xanthorrhoea procera, X. gracilis, Hibbertia, Banksia sessilis, Conostylis, Burchardia, Acacia, Drosera pallida.	20-40 plants.	Darwinia phylogenomics 2022 sample ID: Dapi_2.	8/09/2022
5962803	5505	Darwinia apiculata	T	Sprawling herb, 5 cm high by 50 cm wide. Flowering; immature fruit.	Gentle slope. Organic litter over brown/yellow clay. Underlying rock granite.	Forest over Open Low Woodland A with Dense Thicket. Characteristic species: Eucalyptus calophylla, E. marginata, Xanthorrhoea preissii and Darwinia citriodora.	common.		10/11/1999
5962811	5505	Darwinia apiculata	T	Sprawling herb, 5 cm high by 50 cm wide. Flowering; immature fruit.	Gentle slope. Organic litter over brown/yellow clay. Underlying rock granite.	Forest over Open Low Woodland A with Dense Thicket. Characteristic species: Eucalyptus calophylla, E. marginata, Xanthorrhoea preissii and Darwinia citriodora.	common.		10/11/1999
7439849	5505	Darwinia apiculata	T		Private land. Hilltop of moist concretionary gravel and laterite.	Open low woodland with associated vegetation: Marri - Jarrah, Dryandra sessilis, Dryandra sp., Conostylis sp, Hardenbergia comptoniana, numerous Orchiaceae spp.	160 mature plants 6 seedlings and 2 dead in area 0.28 acres.	Healthy population with a range of ages. General vegetation in excellent condition. Difficult in many areas to ascertain exactly how many plants are in the larger clumps.	25/07/2006
8439176	5505	Darwinia apiculata	T	Densely branched, low, spreading shrub. 20 cm high x 80 cm wide.	Flat with laterite and brown loam.	Open Eucalyptus woodland, Eucalyptus marginata and Corymbia calophylla over Allocasuarina fraseriana, Banksia sessilis, Xanthorrhoea preissii shrubland. Many weedy and introduced species including Briza maxima, Ursinia anthemoides, Chamaecytisus palmensi	2 plants in a small pocket of 425 sq m.	Isolated from more extensive bushland and a large population by gravel tracks.	10/11/2011

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8397198	5505	Darwinia apiculata	T	Small compact shrub to 40 cm tall.	SE facing slope around granite boulders. Brown-grey sandy loam.	Dense Low heath to 0.5 m. Corymbia calophylla, Darwinia citriodora, Hakea sp., Hibbertia sp., Hypocalymma sp., Trymalium sp.	>100 plants.		9/12/2011
6796451	5505	Darwinia apiculata	T		Uncleared area.				17/10/1982
1026704	5523	Darwinia pimelioides	4						30/08/1930
3200892	5523	Darwinia pimelioides	4		Brown loam with granite boulders.	Open woodland of Eucalyptus calophylla and E. wandoo with open heath to 1 m, with Xanthorrhoea sp., Daviesia horrida, Trymalium ledifolium, Diplolaena sp., Phyllanthus calycinus, Sowerbaea laxiflora, Hakea cristata.		Estimated 50+ mature, in bud and flower, burnt autumn 1989.	17/09/1992
9517634	5523	Darwinia pimelioides	4	Low shrubs, 20 cm high, spreading to upright. Ovate leaves, margins curled down. Downturned inflorescences in bud, bracts light green flushing pink at base and midrib. 4 flowers per infl.	Decomposed granite, W of granitic outcroppings. Partial to full shade.	Open Corymbia woodland. Hibbertia, Cassuarina, Lechenaultia, Banksia.	ca. 25 plants.	Darwinia phylogenomics 2022 sample ID: Dpim_1.	9/09/2022
1026720	5523	Darwinia pimelioides	4						/12/1925
1027190	5523	Darwinia pimelioides	4	Flowers and bracts small; low sub-shrub 8" - 10" tall.	Red loam.				1/10/1960
1026712	5523	Darwinia pimelioides	4						//
1054333	5523	Darwinia pimelioides	4						17/09/1984
1026747	5523	Darwinia pimelioides	4	Small shrub; spreading 8" - 12" tall; bracts pale green, uniform in colour.					23/10/1959
1232533	5523	Darwinia pimelioides	4	Erect shrub to 0.4 m, outer bracts reddish, others green.	Undulating, brown loam over dolorite.	Woodland with E. wandoo, Blackboy, Trymalium.			10/09/1990
1026755	5523	Darwinia pimelioides	4	Low rounded shrub to ca 40 cm. Flowers green and pink.	Soil red brown loam amongst granite boulders. Steep slope, aspect WNW.	Open woodland of Euc. calophylla with scrub to 1.5 m beneath, with Hakea cristata, Calothamnus sp., Xanthorrhoea sp., Acacia pulchella, Trymalium ledfolium.	frequent.		8/10/1986

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5125308	5523	Darwinia pimelioides	4		Red-white gritty clay, with surface gravel, cobbels and granite boulders, on a steep south-eastern upper slope.	Hakea trifurcata, Calothamnus quadrifidus, Xanthorrhoea preissii Heath, over Trymalium ledifolium, Acacia pulchella Dwarf Scrub.			5/12/1996
5400341	5523	Darwinia pimelioides	4		Variable aspect. Slope/outcrop/ridge. Moist/dry red/brown/yellow loam/clay. Granite sheet/boulder.	(Muir's) Scattered marri and wandoo. Hakea undulata, H. trifurcata, H. erinacea, Microcorys longifolia, Acacia pulchella, Allocasuarina humilis, Grevillea pilulifera, G. bipinnatifida, Tetratheca sp. Granite, Hemigenia sericea, Petrophile biloba, Leucopo		Condition of population: healthy.	31/08/1999
5406226	5523	Darwinia pimelioides	4		W-N variable aspect. Slope/outcrop. Moist/dry red/brown loam/clay. Granite boulder.	(Muir's) Wandoo open woodland. Associated species: Acacia pulchella, Hibbertia subvaginata, H. hypericoides, Dryandra lindleyana, Hypocalymma angustifolium, Hakea lissocarpha, H. cristata, H. myrtoides, Synaphea pinnata, Xanthorrhoea preissii, Darwinia c		Condition of population: healthy/moderate.	29/09/1999
5113717	5523	Darwinia pimelioides	4		Red-white gritty clay, with surface gravel, cobbels and granite boulders, on a steep south-eastern upper slope.	Hakea trifurcata, Calothamnus quadrifidus, Xanthorrhoea preissii Heath, over Trymalium ledifolium, Acacia pulchella Dwarf Scrub.			13/09/1996
9357572	5523	Darwinia pimelioides	4	Low shrub to 30 cm. Green bracts around flowers which turn red with age.	N facing slope. Soil: red brown sandy loam with granite rocks.	Mid dense heath to 1.5 m. Associated species: Acacia pulchella, Eucalyptus wandoo, Gompholobium sp., Hakea sp., Hibbertia sp., Trymalium sp., Xanthorrhoea preissii.	100s of plants.		17/11/2020
1065793	5523	Darwinia pimelioides	4						5/10/1918
6796494	5523	Darwinia pimelioides	4	Involucres yellowish green and red.					5/10/1918
1026771	5523	Darwinia pimelioides	4	Low dense rounded shrub to ca 40 cm. Flowers green and pink/maroon.	Soil red brown loam amongst granite boulders. Steep slope, aspect S.	Open Euc. calophylla woodland with scrub to 2 m beneath, with Grevillea endlicherana Trymalium ledifolium, Acacia pulchella, Pimelea sylvestris, Hakea cristata.		Frequent.	23/09/1986
9669264	4452	Diplolaena andrewsii	T	Shrub to 1 m.	W facing slope surrounding granite outcrop. Soil: brown sandy loam.	Eucalypt woodland with dense understorey.	>= 89 plants.		17/11/2023

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9689176	4452	Diplolaena andrewsii	T	Small shrub to 50 cm high and 30 cm wide.	Dolerite outcrop and slope with northern aspect.	Eucalyptus wandoo and Corymbia calophylla open woodland over Trymalium odoratissimum dense shrubland with Xanthorrhoea preissii, Macrozamia riedlei, Hakea lissocarpha, Bossiaea eriocarpa and Hibbertia hypericoides.			7/08/2023
9685731	4452	Diplolaena andrewsii	T	Erect shrub to 75 cm high and 50 cm wide.	Dolerite outcrop and slope with northern aspect.	Eucalyptus wandoo open woodland over Trymalium odoratissimum dense shrubland with Xanthorrhoea preissii, Hakea cristata, Macrozamia riedlei, Hovea pungens, Bossiaea eriocarpa and Hibbertia hypericoides.			7/08/2023
1070517	4452	Diplolaena andrewsii	T						/10/1901
1070525	4452	Diplolaena andrewsii	T						/10/1901
8471916	4452	Diplolaena andrewsii	T	Small shrub 0.5 m high x 0.5 m wide. Old flowers.	Creekline. Brown loam, granite.	Riparian vegetation, Trymalium ledifolium.	8 plants.		1/12/2012
8514151	4452	Diplolaena andrewsii	T	Shrub to 1 m x 80 cm.	Brown sandy loam amongst granite outcrops. SW aspect.	Open Woodland over open shrubland. With Corymbia calophylla, Eucalyptus wandoo, Banksia spp., Trymalium spp., Drosera spp., Stylidium spp., Xanthorroeae sp.		New population in John Forrest National Park - POP 2G.	30/08/2013
912697	4452	Diplolaena andrewsii	T						/07/1963
3489973	4452	Diplolaena andrewsii	T	Upright shrub 1 m high.	S facing slopes. Brown loam over granite.				12/10/1992
1201263	4452	Diplolaena andrewsii	T		Hillside, around granite rocks, clay soil.	Wandoo woodland with Darwinia pimelioides.			22/11/1990
913138	4452	Diplolaena andrewsii	T	Shrub 2 - 3 ft high, flowers red.	Amongst granite rocks.				/09/1927
912689	4452	Diplolaena andrewsii	T	Shrub to 50 cm. Outer bracts green, inner paler with reddish tinge, stamens reddish-cream.	Red loam over granite.	Wandoo.			17/08/1964
7433913	4452	Diplolaena andrewsii	T		Slope outcrop. Dry brown loam clay with granite boulder.	Scattered Marri and wandoo. Associated vegetation: Hakea cristata, Hypocalymma angustifolium, Trymalium ledifolium, Acacia pulchella.	16 mature plants in an area 25 m x 25 m.	Healthy population, potential threat - weeds. Plants growing around the large granite boulders.	23/07/2006

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8099723	4452	Diplolaena andrewsii	T	Small shrub to 50 cm tall. Red flowers.	SE facing hillside. Red/brown loam over granite. Near granite outcrop.	Open Eucalyptus woodland with dense shrubs to 1 m. With Acacia sp., Eucalyptus wandoo, Hibbertia sp., Phyllanthus calycinus, Trymalium ledifolium, Trymalium odoratissimum.	50+.		14/11/2008
8118108	4452	Diplolaena andrewsii	T		Outcrop. Brown loam over boulders - granite.	Marri open woodland, Dense - open shrubs with Trymalium ledifolium, Acacia pulchella, Dioscorea hastifolia, Zamia, Grevillea manglesii, Xanthorrhoea preissii, bulbous weeds.	164 mature plants.		20/07/2008
8145970	4452	Diplolaena andrewsii	T	Small shrub to 50 cm tall. Red flowers.	SE facing hillside. Red/brown loam over granite.	Open Eucalypts woodland with dense shrubs to 1 m . With Acacia sp., Eucalyptus wandoo, Hibbertia sp., Phyllanthus calycinus, Trymalium ledifolium, Trymalium odoratissimum.	50+ plants.		4/09/2008
6714684	4452	Diplolaena andrewsii	T		Hilltop outcrop. Slope - flat. Dry, brown loam-clay over granite-boulder. Burnt in 1996-1997.	(Muir's) Marri and Wandoo open woodland. Trymalium ledifolium, Zamia, Acacia pulchella, Hakea cristata, H. lissocarpha, Xanthorrhoea preissii.	35 mature plants, 35 dead plants over 150 m E-W x 100 N-S.		4/09/2003
9016031	10796	Diuris drummondii	T		Swamp.				/12/1901
670049	31233	Drosera patens	1		From drying swamp flats.			PERTH 09546073 is also housed with this specimen.	/01/1966
9600140	13607	Drosera x badgerupii	2						28/01/1985
8816514	17150	Eremophila glabra subsp. chlorella	T	Shrub to 1 m high x ca 50 cm wide. Green-yellow flowers and small green round fruits in leaf axils.	In seasonally inundated Dampland in clay.	Melaleuca viminea and M. acutifolia Tall Open Scrub over Gahnia trifida and Juncus kraussii Very Open Sedgeland and weeds.	2 plants only.	Plants occur within a Conservation Category Wetland, BF site and TEC. Horses and land management have degraded majority of property.	24/10/2014
1277685	52779	Eryngium subdecumbens	3		Swamp.				18/12/1899
7316739	1984	Grevillea curviloba	T	Small upright shrub with curved leaflets, ripening warty fruit.	Dam at base of slope. Laterite, slope. Regrowth on excavated soil.	Eucalyptus marginata low woodland with mostly bare ground and regrowth of mixed shrub understorey.			25/11/2005

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5299551	50985	Grevillea dissectifolia	3		N aspect. Slope. Dry brown/yellow loam/clay.	(Muir's) Open marri woodland. Hakea trifurcata, H. undulata, H. erinacea, Acacia pulchella, Dryandra lindleyana, D. armata, Daviesia horrida, Petrophile biloba, Xanthorrhoea preissii, Grevillea pilulifera.			18/10/1998
5299578	50985	Grevillea dissectifolia	3		N aspect. Slope. Dry brown/yellow loam/clay.	(Muir's) Open marri woodland. Hakea trifurcata, H. undulata, H. erinacea, Acacia pulchella, Dryandra lindleyana, D. armata, Daviesia horrida, Petrophile biloba, Xanthorrhoea preissii, Grevillea pilulifera.			18/10/1998
6691625	50985	Grevillea dissectifolia	3		Landform: slope/outcrop. Rock type; granite. Rock form: boulder. Soil type: sand, loam and clay. Soil colour: brown/yellow. Soil condition: dry.	Vegetation classification: Scattered Marri. Associated species: Hakea trifurcata Hakea undulata, Hakea erinacea, Acacia pulchella, Dryandra armata, Dryandra lindleyana, Grevillea pilulifera, Xanthorrhoea preissii.	ca 3 mature plants.	Condition of population: healthy/moderate.	7/11/2003
1068687	13086	Grevillea pimeleoides	4						/08/1901
5208769	13086	Grevillea pimeleoides	4		Red-brown clayey loam, with dolerite cobbels and boulders, on a very steep south-eastern lower slope.	Eucalyptus laeliae, E. calophylla, E. wandoo Low Woodland, over Trymalium floribundum, Xanthorrhoea preissii Dense Heath, over Macrozamia reidlii, Phyllanthus calycinus Low Heath, over Loxocarya flexuosa Tall Sedges.			8/10/1996
9630198	2107	Grevillea thelemanniana	T	Spreading, shrub 2 m x 3 m to 0.5 m high.	Seasonal dampland, grey sandy clay.	Tall Shrubland of Melaleuca acutifolia over Open Heath of Hypocalymma angustifolium, Acacia lasiocarpa, Grevillea thelemanniana, Verticordia densiflora var. densiflora over Herbland of Centrolepis aristata, Burchardia bairdiae with Austrodanthonia setace	Approximately 165 plants in a 0.84 ha area.	Plants are mostly in two areas; within 15 m of and parallel to Boundary Rd and 15-65 m from Boundary Rd toward the centre of the block.	14/11/2014
9630112	2107	Grevillea thelemanniana	T	Spreading, shrub 2 m x 2 m to 1.5 m high.	Seasonal dampland, grey/brown clayey sand.	Tall Open Scrub of Callitris pyramidalis, Melaleuca viminea, M. osullivanii, M. brevifolia, M. acutifolia over Very Open Sedgeland of Gahnia trifida, Hypolaena exsulca and Juncus kraussii with high cover of Cassytha racemosa.	8 plants in a 0.3 ha area on the SW corner of the block.	Horses on Lot are impacting remnant vegetation.	24/10/2014

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2161567	2107	Grevillea thelemanniana	T	Dwarf shrub 30 cm to 100 cm high, with variable habit. Most plants low and prostrate. Foliage blue-green to yellow green.	In winter wet flat on grey sandy loam.	Associated with Actinostrobus pyramidalis, Banksia telmatiaea, Hypocalymma angustifolia, Calothamnus sp.			4/04/1990
2282895	2107	Grevillea thelemanniana	T	Low spreading bush with pinky-red flowers.	On sand.				22/05/1976
2161508	2107	Grevillea thelemanniana	T	Leaves simple or divided, light to mid-green, flowers red.	Sand and clayey sand, low lying flat.	Melaleuca bracteosa Heath A and mixed Low Heath C. Viminaria juncea, Banksia telmatiaea and Hypocalymma angustifolium association.			18/10/1990
5686938	2107	Grevillea thelemanniana	T	Low spreading shrubs 0.2-0.4 m in height. Flowers red.	Winter-wet, swampy area with yellow sand/grey clay soils.	Vegetation consisting of low Myrtaceous shrubs and Banksia, with frequent Actinostrobus pyramidalis, punctuated by open areas with small herbaceous ephemerals.	frequent.		25/09/1999
2161591	2107	Grevillea thelemanniana	T		Brown sandy clay, flat.	With Actinostrobus pyramidalis, Calothamnus hirsutus, Hypocalymma angustifolium, Verticordia plumosa and Melaleuca spp.			31/10/1990
6512631	2107	Grevillea thelemanniana	T	Spreading shrub to 0.3 by 0.7 m; flowers red.	Palusplain; grey clayey sand over clay.	Melaleuca leptoclada Tall Shrubland over Mixed Open Low Heath over Leptocarpus canus Sedgeland.	scattered in Low Heath Layer.		22/06/1995
8436959	2107	Grevillea thelemanniana	T	Widely spreading shrub 0.4-0.8 m high x 0.5-1.5 m wide. Red flowers and divided pinnatisect leaves.	Edge of a seasonal clay based open depression, on slightly deeper sandier soils. Moist grey-brown sandy loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus over Shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora over Very Open Sedgeland of Chaetanthus aristatus and Lepidosperma squam	69 plants.		13/09/2012
1044575	1469	Haemodorum loratum	3	Bracts and bracteoles greenish black, opaque, without conspicuous veining, the margins membranous, white. Outer perianth segments greenish black, glossy, inner segments black, dull, edged with orange. Plants at early flowering stage.	Eastern edge of coastal plain close to foot of Darling Scarp. Grey sand at surface changing to yellowish at about 10 cm deep.	Roadside strip of Jarrah (Eucalyptus marginata) and Banksia woodland with low shrub understorey.		Frequent but many plants vegetative.	19/11/1984

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7684126	1469	Haemodorum loratum	3		Midslope. Brown sand.	Low Woodland of mixed species including Banksia menziesii, Eucalyptus marginata over Open Low Heath of mixed species dominated by Eremaea pauciflora, Allocasuarina humilis, Xanthorrhoea preissii and Lambertia multiflora var. darlingensis. Associated spec		Healthy population.	23/09/2004
6427634	1469	Haemodorum loratum	3	Annually renewed perennial herb.	Dune Ridge, flat ground, brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.			10/11/1995
1111620	6686	Halgania corymbosa	3	Flowers blue.					/11/1919
1111205	6686	Halgania corymbosa	3						5/10/1916
1111191	6686	Halgania corymbosa	3						5/10/1916
1111612	6686	Halgania corymbosa	3	1.5-2 ft high. Flowers deep blue-purple.	Granite.	Some trees very scarce.			16/10/1977
4896238	6233	Hydrocotyle lemnoides	4						8/10/1906
3401413	11074	Hydrocotyle striata	1						23/09/1901
4174976	11074	Hydrocotyle striata	1		Clay borders of a spring.				23/09/1901
4174968	11074	Hydrocotyle striata	1	Leaves to 3/4" diameter, 5-7 lobed, lobes cerate.					08/10/1898
3418715	49662	Isopogon autumnalis	3						17/05/1900
1023934	49662	Isopogon autumnalis	3	Erect multistemmed shrub, 40 x 50/60 cm wide, flowers pale yellow, largely past flowering.	Yellow sand.	Open Banksia woodland.	common in area.		10/06/1984
1023926	49662	Isopogon autumnalis	3						7/05/1900
1676024	49662	Isopogon autumnalis	3	Multistemmed erect shrub, to 70 cm. Flowers yellow, in late flower.	Yellow sand.	Banksia attenuata low open woodland.	locally common.		2/06/1991
4219295	49662	Isopogon autumnalis	3	Shrub to 0.6 m high.	Grey sand.	Open woodland, Eucalyptus marginata, Banksia attenuata, Banksia menziesii, Stirlingia latifolia, Hibbertia hypericoides.	ca 40 plants.		8/11/1994
2159856	49662	Isopogon autumnalis	3	Low shrub with terete, curved leaves.	Gentle slope, white sand.	Open low Banksia woodland.			15/11/1990

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2159864	49662	Isopogon autumnalis	3	Low shrub with terete leaves and globular, terminal flower cones.	Flat and gentle slope. Brown grey sand.	Banksia attenuata, B. menziesii Low Forest A over Low Heath.			12/11/1990
2159821	49662	Isopogon autumnalis	3	Shrub 0.5-1 m high.	Grey brown sand with gravel. Flat.	Low forest A of Banksia attenuata, B. menziesii and Allocasuarina fraseriana.			12/11/1990
3418693	49662	Isopogon autumnalis	3	Flowers pale yellow.					/06/1900
3358259	49662	Isopogon autumnalis	3	Open shrub 1 m tall x 1 m wide.	Flat, grey sand over yellow loamy sand.	Jarrah/Banksia woodland.	uncommon in the undisturbed areas.		26/10/1992
2159848	49662	Isopogon autumnalis	3	Shrub to 1 m, leaves terete, glabrous. Flower cones terminal.	Foothills of the Darling Range, flat and gentle slope. Deep white sand.	Dense low heath and Low Banksia woodland.	1000 + plants.		15/11/1990
2159910	49662	Isopogon autumnalis	3		Grey sand over yellow sand, flat.	Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii Low Woodland A over open Low Scrub B. Lambertia multiflora and Conospermum undulatum associated.			14/10/1990
3418707	49662	Isopogon autumnalis	3						18/05/1939
2159929	49662	Isopogon autumnalis	3		Flat, sand.	Banksia menziesii Low Forest B over Open Low Scrub A and Dense low heath C. Lambertia multiflora, Conospermum undulatum and Banksia incana associated.	500 + plants.		7/10/1990
2159945	49662	Isopogon autumnalis	3		Flat, grey sand over yellow sand.	Open low woodland of Allocasuarina fraseriana, Banksia attenuata over Heath B and Low Heath C. Lambertia multiflora, Hakea conchifolia and Conopsermum undulatum.			13/10/1990
2159805	49662	Isopogon autumnalis	3	Erect shrub to 1 m high. Creamy yellow flowers.	On gentle slope in white-grey sand.	In woodland with Banksia attenuata, B. menziesii, Adenanthos cygnorum.	19 plants.		4/04/1990
3418723	49662	Isopogon autumnalis	3	To 3 ft, flowers pale yellow.	Sandy.	Banksia etc.			/03/1979
2159953	49662	Isopogon autumnalis	3	Erect shrub.	Grey sand on flat ground.	Open low woodland A over dense heath B with Banksia attenuata, B. menziesii, Eucalyptus marginata, E. calophylla.	300 + plants.		6/04/1990
5072468	49662	Isopogon autumnalis	3				several plants.		/05/1995

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2159961	49662	Isopogon autumnalis	3	Shrub with creamy-yellow flowers, 75 cm - 100 cm high.	Yellow-brown sand over laterite.	In open woodland with mixed heath understory. With Banksia attenuata, B. menziesii, Eucalyptus marginata, Hakea conchifolia, Allocasuarina humilis.	abundant.		4/04/1990
2159902	49662	Isopogon autumnalis	3	Erect shrub to 100 cm with creamy-yellow flowers and woolly grey fruiting cones.	In white-yellow sand over laterite on flat land.	Woodland with Banksia attenuata, B. menziesii, Casuarina fraseriana, Eucalyptus marginata.		Abundance: abundant	4/04/1990
2159813	49662	Isopogon autumnalis	3	Erect shrub to 1 m with creamy yellow flowers.	White yellow sand over laterite.	Very open woodland with dominant heath understory with Casuarina fraserina, Allocasuarina humilis, Lambertia multiflora, Hakea conchifolia.	40 plants.		11/04/1990
2159872	49662	Isopogon autumnalis	3	Shrub to c 1 m, leaves terete, pungent. Flowers terminal.	Grey sand over laterite. Flat to gradual slope.	Banksia attenuata, B. menziesii, low woodland A over heath with Hakea conchifolia, Conospermum undulatum.			19/10/1990
2159937	49662	Isopogon autumnalis	3		Flat, sand.	Banksia menziesii, Eucalyptus marginata and Allocasuarina fraseriana Low forest A over Low Heath C.	50 + plants.	Area partly burnt - 1 drummondii resprouting from lignotuber.	7/10/1990
2159880	49662	Isopogon autumnalis	3		Flat, grey sand over yellow sand.	Banksia menziesii, B. attenuata Low Woodland A over Open Low Scrub B and Low Heath C. Lambertia multiflora and Conospermum undulatum.	700 + plants.		13/10/1990
6427561	49662	Isopogon autumnalis	3	Upright single stem shrub, early fruit.	Dune Ridge, flat ground, brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.			10/11/1995
1416774	49662	Isopogon autumnalis	3		Flat. Brown/grey sand.	Open - scattered Jarrah/Cas. fraseriana/Nuytsia floribunda/Banksia attenuata, B. grandis & B. menziessii, Dryandra nivea, Adenanthos cygnorum, Mesomelaena tetragona.	86 plants seen.	This species appears definitely susceptible to dieback with 3 deaths evident in a small spot infection on site *	13/03/1991
5167221	49662	Isopogon autumnalis	3		N-NW, flat aspect. Slope. Dry, yellow-white-grey sand-clay.	Marri, Banksia woodland with Lambertia multiflora var. darlingensis, Allocasuarina humilis, Stirlingia latifolia, Dryandra lindleyana, D. sessilis, Jacksonia sp., sedge sp., Conospermum sp., Petrophile linearis, Lechenaultia biloba, Xanthorrhoea preissii			9/09/1998

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5815754	49662	Isopogon autumnalis	3		Flat. Dry grey sand.	(Muir's) Scattered Jarrah, Marri with Banksia sp. Associated species: Adenanthos cygnorum, Dryandra sessilis, D. lindleyana, Isopogon sp., Allocasuarina humilis, sedges, Jacksonia sp., Xanthorrhoea priessii.		Condition of population: healthy.	9/04/2001
6950914	49662	Isopogon autumnalis	3		Small gently sloping dune with yellow over grey sand.	Woodland over shrubland with Eucalyptus marginata, Allocasuarina fraseriana, Banksia attenuata, B. menziesii and Conospermum undulatum.	more than 10 mature plants over 200 m x 50 m in area.	Condition of population: Most of vegetation in good condition, remainder degraded with weeds.	27/01/2005
9137475	49662	Isopogon autumnalis	3	Low, open shrub to 1 m tall and 1.3 m wide.	Gentle W facing slope. Soil: white/grey sand.	Open Banksia woodland. Associated species: Daviesia sp., Eremaea sp., Scaevola sp., Petrophile sp., Allocasuarina sp., Acacia sp., Allocasuarina humilis, Banksia attenuata, Banksia menziesii, Stirlingia latifolia.	100's.		20/11/2018
8597510	49662	Isopogon autumnalis	3	Multistemmed shrub to 0.4 m high; flowers pale yellow.	Bassendean sandplain with influence from Darling Scarp.	Marri - Banksia woodland.	frequent.		27/04/2013
7636652	49662	Isopogon autumnalis	3	Small shrub to 1 m high with pointy leaves.	In yellow sand rise on Ridge Hill Shelf.	Occurs in Plot with Banksia menziesii, Allocasuarina fraseriana, A. humilis, Hakea ruscifolia, Pityrodia bartlingii, Stirlingia latifolia, Hibbertia hypericoides and Daviesia nudiflora.	occasional.		8/06/2006
9233067	49662	Isopogon autumnalis	3	Shrub 0.5 m high.	Sandy flat.	Jacksonia sternbergia, Hakea ruscifolia and Banksia armata.	5+ plants.		3/04/2019
9479880	20462	Jacksonia gracillima	3	Sprawling shrub to 0.8 m, orange flowers.	Flat sandplain.		50+ plants.		4/10/2017
9358897	20462	Jacksonia gracillima	3	Shrub to 50 cm with grey-green pungent branchlets and orange flowers. In early flower.	Winter-wet flat, grey-brown sandy loam.	Mid isolated clumps of shrubs of Hakea varia over low open shrubland of Pericalymma ellipticum var. floridum, Verticordia densiflora var. densiflora and Melaleuca seriata over low sparse forbland of Conostylis aculeata subsp. aculeata over tall sparse ru	a few plants seen.	Recorded in a 10 m x 10 m quadrat with 0.2% foliage cover.	15/10/2018
1914839	4027	Jacksonia sericea	4	3 ft rambling plant, flowers reddish.					6/12/1962

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9358978	4027	Jacksonia sericea	4	Low spreading shrub, 0.6 m high.	Disturbed area. Limestone pad for a radar facility.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo	uncommon.	Recorded during a targeted flora search.	3/10/2019
9358862	4027	Jacksonia sericea	4	Low spreading shrub, 0.6 m high.	Disturbed area. Limestone pad for a radar facility.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo	uncommon.	Recorded during a targeted flora search.	3/10/2019
9358951	19272	Johnsonia pubescens subsp. cygnorum	2	Tufted herb, 0.3 m high, in flower.	Gently inclined mid slope, white sand.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo			24/10/2018
9327258	19272	Johnsonia pubescens subsp. cygnorum	2	Tufted perennial herb to 0.2 m with green flowers and white/green bracts.	Very gently inclined flat, grey sand.	Low open woodland of Eucalyptus patens over tall sparse shrubland Adenanthos cygnorum subsp. cygnorum over mid sparse shrubland Xanthorrhoea preissii over low open shrubland of Eremaea pauciflora var. pauciflora over mid sparse sedgeland of Cyathochaeta	1 plant seen.		20/09/2019
1143093	5025	Lasiopetalum bracteatum	4						/10/1914
1142607	5025	Lasiopetalum bracteatum	4						/10/1901
1143158	5025	Lasiopetalum bracteatum	4	Shrub, sepals and floral bracts reddish-purple.					/11/1919
3372170	5025	Lasiopetalum bracteatum	4	Small shrub, 70 cm tall x 50 cm wide.	Gully.		uncommon in the areas close to the gully.		27/10/1992
3372162	5025	Lasiopetalum bracteatum	4	Small shrub, 1 m tall x 70 cm wide.	Adjacent to a gully.		uncommon in the general area. Adjacent to a car parking area.		17/11/1992
5069327	5025	Lasiopetalum bracteatum	4	Erect spreading shrub 1 m high.	Slope to river, yellow brown sandy loam.	Open Low Woodland of Eucalyptus calophylla, Thomasia glutinosa, Petrophile biloba.			14/09/1992

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7906420	5025	Lasiopetalum bracteatum	4	Erect multistemmed shrub, 60-100 x 40-100 cm, calyx pink with anthers dark red.	Brown clayey sand over granite outcrops. Gully at base of hill.	In Corymbia calophylla, Eucalyptus marginata woodland with Xanthorrhoea, Grevillea, Macrozamia sp.			5/12/2004
5466911	5025	Lasiopetalum bracteatum	4						28/10/1986
5102731	5025	Lasiopetalum bracteatum	4		Light orange gritty clay-loam, with surface gravel and granite and quartz cobbels, on a steep lower slope.	Eucalyptus calophylla Open Woodland, over E. laelaei Open Low Woodland, over Hakea undulata Heath, over Darwinea citriodora Low Heath, over Hibbertia hypericoides, H. communtata Dense Low Heath.			26/11/1996
7373848	5025	Lasiopetalum bracteatum	4		Granite outcrops. Brown loamy sand.	Marri woodland.		Population healthy.	9/10/2005
9654267	5025	Lasiopetalum bracteatum	4	Rounded to erect shrub 0.5 m tall; flowers puple.	Creek line. Pale brown soil over dolomite.	Corymbia calophylla low open forest with dense low shrub layer of Lasiopetalum, Darwinia and Acacia.	locally common.		13/10/2019
1143131	5025	Lasiopetalum bracteatum	4						6/11/1960
3372189	5025	Lasiopetalum bracteatum	4	Small shrub to 1 m tall x .6 m wide.	Lateritic on steep sides of valley.	Lithic complex.		Abundance: Two or three plants only observed.	14/12/1992
1142585	5025	Lasiopetalum bracteatum	4						6/11/1900
1142593	5025	Lasiopetalum bracteatum	4						17/11/1902
1142577	5025	Lasiopetalum bracteatum	4						17/11/1902
3372200	5025	Lasiopetalum bracteatum	4	Small shrub to .6 m tall by .5 m wide.	Mid slope on lateritic gravel grading to the palid zone. Also some granite outcrops.	Jarrah-Marri woodland over Hakea trifurcata.		Abundance: Several plants in the general area.	14/01/1993
1143085	5025	Lasiopetalum bracteatum	4		Stream side.				/11/1901
1143115	5025	Lasiopetalum bracteatum	4						/10/1924
2472201	5025	Lasiopetalum bracteatum	4		Clay swamp.			Collected on 22 September, no year given.	//
4929675	5025	Lasiopetalum bracteatum	4	Erect, open shrub 80 cm high x 60 cm wide. Flowers pink, dark purple at base.	Hillside. Littered, brown loam over granite.	Very open wandoo woodland with Eucalyptus wandoo, Hakea lissocarpha, Calothamnus quadrifidus.	occasional.		3/10/1997

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5752124	5025	Lasiopetalum bracteatum	4	Erect shrub, 1.5 m high x 1 m wide. Deep pink flower with maroon centre.	Streamside. Wet, dense vegetation on surface of brown clay, granite.	Woodland with Marri, Wandoo, Hakea trifurcata and Leucopogon.		`Helena Velvet Bush'.	6/11/2000
5208939	5025	Lasiopetalum bracteatum	4		Red-brown clayey loam, with dolerite cobbels and boulders, on a very steep south-eastern lower slope.	Eucalyptus laeliae, E. calophylla, E. wandoo Low Woodland, over Trymalium floribundum, Xanthorrhoea preissii Dense Heath, over Macrozamia reidlii, Phyllanthus calycinus Low Heath, over Loxocarya flexuosa Tall Sedges.			8/10/1996
5462290	5025	Lasiopetalum bracteatum	4		Variable aspect. Slope/drainage line. Moist/dry brown loam/clay. Granite boulder.	(Muir's) Scattered marri. Associated species: Synaphea acutiloba, Hakea cristata, H. undulata, H. erinacea, Acacia pulchella, Dryandra lindleyana, Darwinia citriodora, Xanthorrhoea preissii, Watsonia bulbillifera.		Condition of population: healthy.	1/10/1999
7965680	5025	Lasiopetalum bracteatum	4	Erect multistemmed shrub, 60 - 100 cm high x 40 - 100 cm wide, calyx pink with anthers dark red. In full flower.	In gully at base of hill. Brown clayey sand over granite outcrops.	In Eucalyptus calophylla, E. marginata woodland, with Xanthorrhoea, Grevillea, Macrozamia sp.			5/12/2004
8145989	5025	Lasiopetalum bracteatum	4	Shrub to 1.2 m tall. Purple flowers.	Creekline. Brown loam over granite.	Dense heath to 1 m. With Calothamnus sp., Darwinia citriodora, Grevillea sp., Hakea sp., Weeds.			4/09/2008
8877750	5025	Lasiopetalum bracteatum	4	Single stemmed shrub 1 m high, 1.5 m wide, flowers pink with a single pink, petaloid, epicalyx bract.	Mid slope in dark brown clayey sand over granite.	Marri - Jarrah woodland with Thomasia foliosa, Xanthorrhoea, Calothamnus and Melaleuca.	frequent in the area.		11/10/2016
8054541	5025	Lasiopetalum bracteatum	4	Shrub to 1.2 m tall. Purple flowers.	Creekline. Brown loam over granite.	Dense heath to 1 m. With Banksia (Dryandra) sp., Calothamnus sp., Corymbia calophylla, Darwinia citriodora, Grevillea sp., Hakea cristata, Hovea pungens, Petrophile sp., weeds.	at least 35 plants.	More plants down creek W of this location.	26/02/2009
7528760	5025	Lasiopetalum bracteatum	4	Erect shrub to 1.5 m high. Pink flowers.	Slope, outcrop. Sheet boulder - granite.	Jarrah and Marri fringing granitic heath with Calytrix, Petrophile, Hakea, Hovea, Hemigenia, Xanthorrhoea preissii, Stylidium.	ca 30 plants.		6/11/2006
8878463	5025	Lasiopetalum bracteatum	4	Juvenile plant, single stem to 50 cm high, flowers pink with a single pink, petaloid, epicalyx bract.	Mid slope in dark brown clayey sand over granite.	Marri - Jarrah woodland with Thomasia foliosa, Xanthorrhoea, Calothamnus and Melaleuca.	frequent in the area.		11/10/2016

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1086936	45081	Lasiopetalum glutinosum subsp. glutinosum	3						6/11/1900
1085921	45081	Lasiopetalum glutinosum subsp. glutinosum	3						/10/1901
1086987	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Gravel over granite.				8/09/1931
1086421	45081	Lasiopetalum glutinosum subsp. glutinosum	3					Positive patch test for Trent Hatsly, aged 12 years.	12/11/1982
1086944	45081	Lasiopetalum glutinosum subsp. glutinosum	3						6/11/1900
1086448	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Flowers pink. Height to 2 ft.	Granitic.	Heath.			18/09/1977
1085913	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Gravel over granite.				8/09/1931
2705583	45081	Lasiopetalum glutinosum subsp. glutinosum	3	4 ft, bushy growth; flowers very sticky.					16/11/1953
1085948	45081	Lasiopetalum glutinosum subsp. glutinosum	3						20/08/1898
1087037	45081	Lasiopetalum glutinosum subsp. glutinosum	3						25/10/1918
1086405	45081	Lasiopetalum glutinosum subsp. glutinosum	3						/10/1924
1086413	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Flower purple.					25/10/1918
1086391	45081	Lasiopetalum glutinosum subsp. glutinosum	3						25/10/1924
1085999	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1085964	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
1085956	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
1085972	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
1085980	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
5079799	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.			19/09/1996
5118360	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Dark brown gritty loam, with surface gravel and cobbels, on a moderate south-western upper slope.	Eucalyptus calophylla Low Woodland, over Hemigenia incana, Hakea undulata Dense Heath, over Xanthorrhoea preissii, Nemcia spathulata, Dryandra lindleyana Low Heath, over Tetraria octandra, Lepidosperma angustatum Tall Sedges.			9/12/1996
1086979	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Shrub ca 1 m. Inflorescences very sticky.	On laterite ridge.				3/10/1966
8091293	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Openly-branched shrub to 1 m x 1 m. Inflorescence axes strongly viscid. Calyx bright pink; anthers dark reddish-purple.	Sandplain with some influence of Darling Scarp outwash.	Banksia menziesii - B. attenuata - jarrah woodland.	infrequent.		11/10/2008
1086464	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Flowers purple-mauve, very glutinous, shrub to 2 ft, erect little branched.	On high ground, over hill to S of the brook.				2/09/1971
5102960	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.			29/11/1996

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2705559	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Erect shrub 30-50 cm. Flowers pink-purple; anthers black.	Summit of scarp. Sandy clay over granite.	Low heath.	very common.		6/11/1984
8649588	942	Lepidosperma rostratum	T	Perennial grass-like sedge c. 45 cm high. Flowering.	Claypan. Seasonally inundated. Brown clay.	Sedge dominated claypans. Dense shrubland of Hypocalymma angustifolium and Melaleuca sp.. Isolated stands of Actinostrobus pyramidalis. Hypolaena sp., Tribonanthes sp., Burchardia sp..	164 live plants.	Population 2.	22/06/2009
8436983	942	Lepidosperma rostratum	T	Perennial caespitose sedge 0.3-0.4 m high x 0.1-0.25 m wide. Finished flowering. Spikelets grey-brown, some fruit still present. Some plants drying and yellowing.	Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus over Shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora over Very Open Sedgeland of Chaetanthus aristatus and Lepidosperma squam	16 clumps.		13/09/2012
8816441	942	Lepidosperma rostratum	T	Tufted perennial sedge to 60 cm high x 40 cm wide.	Flat, seasonally inundated site with grey sandy loam.	Open shrubland of Melaleuca acutifolia over low shrubland of Hypocalymma angustifolium, Callitris pyramidalis, Melaleuca viminea, M. brevifolia and M. acutifolia over low open shrubland of Grevillea thelemanniana subsp. thelemanniana, Acacia lasiocarpa a	1 plant only.	Population 2e.	17/01/2015
8193193	942	Lepidosperma rostratum	T	Clumped perennial sedge to c. 50 cm high. Flowers yellow/brown.	Claypan. Inundated brown clay.	Dense shrubland over sedges. Actinostrobus pyramidalis, Melaleuca spp., Hypocalymma angustifolium, Hypolaena sp., Tribonanthes sp., Burchardia sp.	164 plants counted, but likely to be underestimation.		22/06/2009
8193207	942	Lepidosperma rostratum	T	Clumped perennial sedge to c. 50 cm high. Flowers yellow/brown.	Claypan. Inundated brown clay.	Dense shrubland over sedges. Actinostrobus pyramidalis, Melaleuca spp., Hypocalymma angustifolium, Hypolaena sp., Tribonanthes sp., Burchardia sp.	164 plants counted, but likely to be underestimation.		22/06/2009
9251669	942	Lepidosperma rostratum	T		Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus, over shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora, over very open sedgeland of Chaetanthus aristatus and Lepidosperma squ			13/09/2012

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9251677	942	Lepidosperma rostratum	T		Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus, over shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora, over very open sedgeland of Chaetanthus aristatus and Lepidosperma squ		Plant has scale insects.	13/09/2012
9251685	942	Lepidosperma rostratum	T		Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus, over shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora, over very open sedgeland of Chaetanthus aristatus and Lepidosperma squ			13/09/2012
7625944	19241	Lepyrodia curvescens	2	Sedge to 0.2 m tall. Stems to 1 mm diameter, flowering heads to 5 cm long.	On boundary of Southern River and Ridge Hill Shelf soil and landform units.	On edge of wetland with associated vegetation: Jacksonia floribunda, Eucalyptus todtiana, Caustis diocia, Xanthorrhoea ? drummondii, Hibbertia hypericoides, Acacia sessilis, Dryandra lindleyana.	occasional.		8/06/2006
6703747	19241	Lepyrodia curvescens	2	Tufted restiad. Male & female.	Flat coastal plain. Dry littered surface on grey sand.	Very open Marri woodland over sparse shrubs and dense sedges. Characteristic species: Corymbia calophylla, Kingia australis and Mesomelaena tetragona.			25/11/2003
8318034	29492	Leucopogon sp. Busselton (D. Cooper 243)	3	Shrub ca 1.2 m high.	Flat (Guildford Formation). Seasonally waterlogged. Shallow sand over mud.	Dense heath over sparse sedges annuals and herbs. Callitris pyramidalis, Calothamnus hirsutus, Hypocalymma angustifolia, Banksia telmatiaea.			28/08/2011
2768844	7674	Levenhookia preissii	1						/12/1900
1875221	7674	Levenhookia preissii	1	Flowers rosy pink (including labellum). Odourless.	Peaty sand fringing damp soil, bordering a watercourse.				26/12/1924
2768720	7674	Levenhookia preissii	1						09/01/1899
2768763	7674	Levenhookia preissii	1						23/12/1901
2768771	7674	Levenhookia preissii	1		On margin of swamp.				/01/1954
2768798	7674	Levenhookia preissii	1		White sand.				5/01/1951
6512593	7674	Levenhookia preissii	1	Erect annual herb; flowers pink.	Palusplain.	Was Dense Heath B but burnt 1993/94 summer, ground carpeted with Levenhookia.			20/10/1994
2768828	7674	Levenhookia preissii	1						/12/1901

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
3635015	17106	Macarthuria keigheryi	T	Weak herb with yellow flowers.	Sandy soil.	Beneath tall Banksia, Eucalyptus and Nuytsia with Acacia pulchella, Eriostemon spicatus.			7/09/1976
4471490	17106	Macarthuria keigheryi	T	Low multistemmed shrub 15 cm high x 20 cm wide. In flower, mostly bud.	Plain, dry grey sand.	Very open woodland. Eucalyptus marginata, Allocasuarina, Banksia grandis.		Abundance: common in restricted area. Area burnt c. 18 months ago.	/03/1996
5314070	17106	Macarthuria keigheryi	T	Small shrub/twiner to 20 cm. Suckering?	Growing in occasional sandy open patches only. Sandy rise in low lying area. Bassendean sand.	Confined to small area of Banksia woodland over diverse dense low shrubland. Banksia woodland/Low heath with Banksia menziesii, B. attenuata, Allocasuarina fraseriana (mixed shrubs) Xanthorrhoea preissii, Stirlingia latifolia, Hibbertia hypericoides, All	nine plants.		5/11/1998
6410766	17106	Macarthuria keigheryi	T		Slope. Sand dune. Dry grey sand.	Adenanthos cygnorum shrubland. Associated species: Adenanthos cygnorum, Calytrix fraseri, Hibbertia hypericoides, Conostephium pendulum, Jacksonia floribunda.	2 mature plants.	Condition of population: healthy.	1/11/2001
6407358	17106	Macarthuria keigheryi	T	Prostrate, perennial,straggly shrub, 20 cm high x 15 m wide. Flowers white.	Plain. Grey sand.	Very Open Woodland. With Allocasuarina, Eucalyptus marginata, Patersonia, Hibbertia, Thysanotus, Banksia menziesii.		100% in bud. Infestation area of this weed: 1-10 sq.m. Pushing through thick Alloc. fronds and on open sand.	16/09/2002
7414889	17106	Macarthuria keigheryi	T		On old dune system.	Low open woodland. Xanthorrhoea preissii, Eremaea pauciflora, Banksia menziesii, Jacksonia floribunda, Synaphea polymorpha, Alexgeorgia nitens.			26/11/2002
4118030	17106	Macarthuria keigheryi	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over Allocasuarina fraseriana, Banksia menziesii, B. attenuata and Nuytsia floribunda Open Low Woodland A over scattered Kingia australis over Stirlingia latifolia and Hibbertia hypericoides Dwarf Scrub C over Stipa compressa Open Low Gr		Severe fire in 1994/95, Adenanthos cygnorum stratum (>2 m, 20-50% cover) all dead but seedlings.	28/02/1996

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
4118022	17106	Macarthuria keigheryi	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over Allocasuarina fraseriana, Banksia menziesii, B. attenuata and Nuytsia floribunda Open Low Woodland A over scattered Kingia australis over Stirlingia latifolia and Hibbertia hypericoides Dwarf Scrub C over Stipa compressa Open Low Gr		Severe fire in 1994/95, Adenanthos cygnorum stratum (>2 m, 20-50% cover) all dead but seedlings.	28/02/1996
4118014	17106	Macarthuria keigheryi	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over Allocasuarina fraseriana, Banksia menziesii, B. attenuata and Nuytsia floribunda Open Low Woodland A over scattered Kingia australis over Stirlingia latifolia and Hibbertia hypericoides Dwarf Scrub C over Stipa compressa Open Low Gr		Severe fire in 1994/95, Adenanthos cygnorum stratum (>2 m, 20-50% cover) all dead but seedlings.	28/02/1996
7888236	17106	Macarthuria keigheryi	T	Perennial herb or shrub.	Flat, grey sand.	Disturbed, Banksia attenuata, Banksia menziesii, Banksia ilicifolia, Hibbertia subvaginata, Dasypogon bromeliifolius, Melaleuca seriata, Lyginia barbata, Patersonia occidentalis.			21/08/2002
8656754	17106	Macarthuria keigheryi	T	Shrub.	Low plain. Dry grey sand.	Open marri woodland. Corymbia calophylla, Eucalyptus marginata, Banksia menziesii, Banksia attenuata, Acacia pulchella, Gompholobium tomentosum, Burchardia sp., Watsonia sp., Ursinia anthemoides, Hypochaeris sp., Romula rosea, Trifolium sp..	1 plant.	Proposed population 7 (new population).	22/09/2009
1162586	33638	Meionectes tenuifolia	3						/12/1900
1162616	33638	Meionectes tenuifolia	3						19/12/1930
7878311	33638	Meionectes tenuifolia	3	Erect herb with orange flowers. Height 0.5 m and width 0.05 m.	Grey clay, reserve and wetland.	Tall shrubland with Melaleuca rhaphiophylla, Baumea arthophylla and Triglocia lineare.	over plants over area of 11-100 m2.	100% flowering and reproducing by seeds.	28/12/2007
9358900	6193	Myriophyllum echinatum	3	Small herb, 0.05 m high, in flower.	Level closed depression, grey-black sandy clay.	Tall sparse shrubland of Melaleuca rhaphiophylla over mid shrubland of Melaleuca lateritia over low forbland and tussock grassland of mixed species dominated by Lachnagrostis filiformis, Lotus subbiflorus, Liparophyllum capitatum, Vulpia myuros forma meg		Recorded in a 10 m x 10 m quadrat with < 0.1% foliage cover.	16/10/2018
1087444	6193	Myriophyllum echinatum	3						/11/1902

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1106783	36200	Ornduffia submersa	4	Aquatic, flowers and leaves floating on pond surface. Flowers white, floating.	Shallow ephemeral claypans. Brown clay.	With scattered Melaleuca laterita shrubs.	rare in area.		17/11/1989
6512356	36200	Ornduffia submersa	4	Annually renewed aquatic herb 1 m wide. Leaves and flowers float on surface of the water.	Sumpland; brown/grey clay over clay.	Melaleuca rhaphiophylla low forest to low woodland over scattered Melaleuca lateritia.		Water to 1 m deep.	24/08/1995
5176751	2278	Persoonia sulcata	4	Perennial. Single stem at ground level. Plant active.	Site: Upland. Apron incorporating granite outcrop. Slope. Soil Surface: Organic Soil Colour: Brown Red Soil Texture: Loamy Sand Comments: None pH: 6.00 Very Rocky 20-50% Exposed Granite Fire History: 1990 Season: Unknown Type: Unknown	High open shrubland.		Abundance: frequent.	6/10/1998
5179653	2278	Persoonia sulcata	4	Perennial shrub, 30 cm high. Single stem at ground level. Plant active.	Site: Upland. Hillside, small granite rocks throughout site, small outcrop Soil Surface: Littered Soil Colour: Brown Soil Texture: Loamy Sand Comments: pH: 6.00 Rocky 10-20% Exposed Granite Fire History: 1990 Season: Unknown Type: Unknown	High open woodland.		Abundance: occasional.	6/10/1998
1013300	17366	Phyllangium palustre	2	Flowers white.					/10/1901
5464145	8163	Pithocarpa corymbulosa	3		Pale brown, sandy-loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemiandra sp. and other shrubs with very few Corymbia calophylla.	fairly common in small area.		20/12/1997

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5065534	8163	Pithocarpa corymbulosa	3	See also BJL & TRL 2570, 2994.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Corymbia calophylla.		Abundance: fairly common in small area.	7/12/1996
535672	8163	Pithocarpa corymbulosa	3		granite	wandoo			/02/1978
644242	8163	Pithocarpa corymbulosa	3		granite near granite outcrops				28/01/1986
5604699	8163	Pithocarpa corymbulosa	3		Generally S. Slope/outcrop/ridge. Dry red/brown/yellow loam/clay. Granite boulder.	(Muir's) Scattered marri. Quite dense granitic shrubs. Associated species: Leucopogon gracillimus, Hakea undulata, H. incrassata, H. stenocarpa, H. trifurcata, Dryandra sessilis, D. lindleyana, Microcorys longifolia, Synaphea acutiloba.		Condition of population: healthy.	14/05/2000
4616898	8163	Pithocarpa corymbulosa	3	Plants in active vegetative growth. See also BJL & TRL 2570, 3311.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Eucalyptus calophylla.		Abundance: fairly common in small area.	15/09/1996
5065607	8163	Pithocarpa corymbulosa	3		Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Corymbia calophylla.		Abundance: fairly common in small area.	12/01/1997
4482433	8163	Pithocarpa corymbulosa	3	Subshrub to c. 80 cm. Stems erect. Most plants in fruit, some flowers still present on plants in shelter of granite outcrops.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Eucalyptus calophylla.	fairly common in small area.		14/04/1996
4482425	8163	Pithocarpa corymbulosa	3	Subshrub to c. 80 cm. Stems erect. Most plants in fruit, some flowers still present on plants in shelter of granite outcrops.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Eucalyptus calophylla.	fairly common in small area.		14/04/1996
6514243	11132	Platysace ramosissima	3		Wet Flat. Grey loamy sand over ?clay loam. Poor drainage, wet during winter and spring.	Low Heath C. Associated species: Stirlingia latifolia, Daviesia physodes, Allocasuarina humilis.			4/11/1994
8562156	11132	Platysace ramosissima	3		Low sandy rise adjacent to damplands. Dry grey sand over limestone. No fire recorded.	Banksia attenuata and B. menziesii woodland over diverse low shrubland. With Xanthorrhoea preissii, Hibbertia hypericoides, Stirlingia latifolia, Amphipogon turbinatus, Dasypogon bromeliifolius, Desmocladus flexuosus, Mesomelaena pseudostygia. Very good		Grazing and roadworks.	19/11/2002

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7746989	11132	Platysace ramosissima	3	Perennial herb. Height 15 cm.	Dry, grey-white sand. + 10 years since last fire.	Phelbocarpa ciliata, Hypocalymma angustifolium, Calytrix fraseri, Bossiaea eriocarpa, Lyginia barbarta, Dampera linearis, Jacksonia furcellata, Xanthorrhoea gracillis, Adenanthos cygnorum subsp. cygnorum and Dasypogon bromeliifolius.	one only.		13/12/2006
9358935	42022	Poranthera moorokatta	2	Small herb, 0.02 m high, in flower.	Very gently inclined mid slope, white sand.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo			31/10/2018
9358889	974	Schoenus benthamii	3	Upright tufted sedge to 28 cm with brown/green flowers.	Inundated closed depression, grey-brown sandy clay.	Tall closed shrubland of Melaleuca viminea subsp. viminea over low sparse sedgeland of Isolepis cernua var. setiformis.	uncommon.		17/10/2018
7625871	17606	Schoenus griffinianus	4	Herb to 0.2 m tall. Stems have red tinge near base and bracts at each branch. Non flowering specimen.	On boundary of Southern River and Ridge Hill Shelf soil and landform units.	On edge of wetland. Associated vegetation: Jacksonia floribunda, Eucalyptus todtiana, Caustis diocia, Xanthorrhoea ? drummondii, Hibbertia hypericoides, Acacia sessilis, Dryandra lindleyana.	occasional.		8/06/2006
6533485	1008	Schoenus pennisetis	3	Flowers brown.					4/11/1994
9358870	1008	Schoenus pennisetis	3	Small erect annual sedge to 12 cm with brown flowers.	Winter-wet flat, grey-brown sandy loam.	Mid isolated clumps of shrubs of Hakea varia over low open shrubland of Pericalymma ellipticum var. floridum, Verticordia densiflora var. densiflora and Melaleuca seriata over low sparse forbland of Conostylis aculeata subsp. aculeata over tall sparse ru	uncommon.	Recorded in a 10 m x 10 m quadrat with < 0.1% foliage cover.	15/10/2018
8738300	8205	Senecio gilbertii	1	Spindly perennial, greyish. Leaf undersides woolly.	Massive laterite. Long unburnt area.	Under Jarrah and Bull Banksia, with Zamia, Balga and Kennedias.		Flowers in summer. Fire response - seeder?	26/12/1994
6295118	8205	Senecio gilbertii	1		On laterite plateau.				5/10/1957
4217934	8212	Senecio leucoglossus	4	2 ft spreading, flowers white.	Granite valley.				/09/1978
544779	8212	Senecio leucoglossus	4		gravelly soil				10/10/1901
544760	8212	Senecio leucoglossus	4		Gravelly soil.				/10/1901

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8662770	13571	Sporobolus blakei	3	Tufted perennial.	Granite rubble. Clayey.	Weeds.		Came in when the Picnic Ground was ripped up and 'rehabilitated'. Flowering: early summer. Fire response: seeder.	16/11/1994
2842718	43540	Stackhousia sp. Red-blotched corolla (A. Markey 911)	3						/10/1897
9835539	17582	Stylidium glabrifolium	2	Rosulate perennial 10-30 cm high, in mid to late flower, leaves starting to yellow; corolla pale yellow, lobes paired laterally; throat appendages slender and somewhat irregularly lobed, dark yellow with a maroon tip.	Hillslope near granite outcropping; yellow-grey clayey sand over laterite.	Open Jarrah - Marri forest with Nuytsia; Stylidium spp.	locally frequent but highly localised.	A significant range extension. Population discovered on iNaturalist.	17/11/2024
1055100	7756	Stylidium longitubum	4	Flowers red.					/10/1901
8859868	7756	Stylidium longitubum	4		Moist soil.			Condition of plants: healthy. Percentage in flower: 100%.	8/11/2012
2858010	25800	Stylidium paludicola	3						10/10/1900
1040316	7803	Stylidium striatum	4					PERTH 06796842 is also housed with this specimen.	21/10/1897
6294782	7803	Stylidium striatum	4		On laterite plateau.				5/10/1957
1040324	7803	Stylidium striatum	4	Flowers pale yellow.	Ironstone.	Eucalyptus calophylla forest, with Hakea, Grevillea, Stylidium junceum, S. hispidum, Stackhousia, Thysanotus.		A very rarely collected species, known only from this general region (First record of flower color in this species).	23/10/1967

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1040340	7803	Stylidium striatum	4						21/10/1897
7337663	48297	Styphelia filifolia	3	Erect, spreading shrub, multistemmed from ground level. To ca 45 cm high x ca 90 cm wide. White flowers, early flowering stage.	Flat. Dry, brown-grey sand.	Verticordia plumosa, Leptospermum sp., Hakea varia, Conostylis sp., Hypocalymma angustifolia, Banksia sphaerocarpa.	ca 11 plants SW of highway and ca 45 more on the NE side.		23/02/2006
967165	4540	Tetratheca pilifera	3						/09/1942
7984847	20729	Thelymitra magnifica	T	Plants were at ca peak of flowering.	Area formerly scraped for gravel.	Tall heath under sparse woodland.			15/10/2000
306045	20729	Thelymitra magnifica	T						/10/1932
6714668	20729	Thelymitra magnifica	T		Slope. Dry-moist brown clay-loam-gravel. Granite and boulder. Burnt ? 1998-99.	(Muir's) Scattered Marri and Wandoo. Hakea trifurcata, H. incrassata, Melaleuca sp., Thelymitra benthamiana, Stylidium bulbiferum, Calothamnus sp., Nemcia acuta, Astroloma foliosum.	51 mature plants ca 10 seedlings over 4A: 400 m NS x 200 m E. 4B: 500 m NE x var..	4B Palm Terrace Forrestfield. Scattered on E side of Palm Terrace Walk Trail for up to 500 m NE-E from Palm Terrace and for up to 80 m upslope from the trail.	19/10/2003
6714625	20729	Thelymitra magnifica	T		Slope. Dry, clay over granite-boulder.	(Muir's) Wandoo open woodland. Xanthorrhoea preissii, Hakea trifurcata.	11 mature plants over 50 m x 50 m.		19/10/2003
6700152	20729	Thelymitra magnifica	T		Slope, hilltop. Dry, brown loam. Granite - boulder.	(Muir's)Scattered Marri. Hakea incrassata, H. crystata, Tricoryne elatior, Allocasuarina humilis, Xanthorrhoea preissii, grasses and weeds.	21 plants, 7 seedlings over 20 m EW x 15 m NS.		31/10/2003
5524881	20729	Thelymitra magnifica	T	Erect, single stemmed annual with brown-yellow flowers, to 17 cm high. Full/late flowering stage.	NW slope. Dry, grey granitic clay. Area burnt summer 1997.	Small scattered marri with Hakea incrassata, Xanthorrhoea preissii, Allocasuarina humilis, sedge sp., Pimelea imbricata, Nemcia acuta.	4 flowering plants, scattered.		2/11/1999

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6936709	20729	Thelymitra magnifica	T	Sturdy, erect orchid, 0.25 m high, scented flowers reddish-brown with gold markings and green reverse, anther bright orange.	Gentle slope at foot of Darling Scarp in reserve which was once a gravel pit, on lateritic gravel. Burnt March 2004.	Regrowth open Jarrah-Marri woodland with Hakea trifurcata, Xanthorrhoea preissii, Calothamnus sanguineus, Hibbertia hypericoides and fringing Dryandra sessilis thicket. Shrubs in early regrowth, Drosera spp., Stylidium spp., sedges, orchids, Haemodorum s	occasional.		23/10/2004
272841	20729	Thelymitra magnifica	T						//
6714676	20729	Thelymitra magnifica	T		Slope - flat. Dry, yellow-brown sand-loam-clay. Laterite-boudler-granite. Burnt in 1997v and Pop.4B 2002/3 summer.	(Muir's) Scattered Marri. Acacia pulchella, Stylidium brunonium, Leucopogon pulchellus, Verticordia acerosa, Xanthorrhoea preissii, Nemcia acuta.	21 mature plants 5 seedlings over 3A: 100 m EW x 200 m NS.		22/10/2003
6714641	20729	Thelymitra magnifica	T		Slope - flat. Dry, brown sand-loam-clay.	(Muir's) Wandoo and Marri open woodland. Xanthorrhoea preissii, Patersonia occidentalis, Hakea lissocarpha, Calothamnus sp., Acacia pulchella, Hypocalymma angustifolium.	13 mature plants 18 seedlings over 100 m x 100 m.		28/10/2003
272450	20729	Thelymitra magnifica	T		stony ridge				/10/1931
306037	20729	Thelymitra magnifica	T	Erect orchid 30 cm, flowers brown with orange stripe on petals, labellum bright orange.	Growing on sandy lateritic soil on banks of creek.				17/10/1978
1122401	1317	Thysanotus anceps	3		On laterite.	E. marginata forest.			28/11/1958
1041401	1317	Thysanotus anceps	3	Herb 12 inches.					4/12/1963
3455793	1317	Thysanotus anceps	3	Small straggling herb to .4 m tall by .1 m wide.	Lateritic gravel.	Open Jarrah and Marri woodland.		Abundance: two or three plants only observed.	23/12/1992
3455785	1317	Thysanotus anceps	3	Small herb to .3 m tall by .1 m wide.	Mid-slope on lateritic gravel grading to the palid zone. Also some granite outcrops.	Jarrah - Marri woodland over Hakea trifurcata.		Abundance: several plants in the general area.	14/01/1993
1122398	1317	Thysanotus anceps	3		On laterite.	Jarrah forest.			28/11/1958
3017486	1323	Thysanotus brachiatus	2						18/12/1899
1536893	1334	Thysanotus glaucus	4	Caespitose perennial herb to 15 cm x 20 cm wide. Flowers purple; in late flower.	Yellow sand.	Banksia attenuata/B. menziesii low open woodland.	scattered but not rare.		9/12/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
3456161	50556	Tricostularia drummondii	3	Rhizomatous perennial herb to 50 cm x 20 cm. Flowers brown, in bud.	Low sand ridge, grey sand.	Banksia attenuata / B. menziesii low open woodland.	common in area.		6/11/1990
1021818	32658	Trithuria occidentalis	T						/09/1901
1021796	32658	Trithuria occidentalis	T						/09/1901
2841932	32658	Trithuria occidentalis	T						16/11/1898
1051075	32658	Trithuria occidentalis	T						16/11/1898
1021826	32658	Trithuria occidentalis	T	Plant red, growing in tiny tufts.	Muddy spots.				/09/1901
2841916	32658	Trithuria occidentalis	T		Muddy spots.				/09/1901
1057723	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub 45-60 cm x 30-45 cm, bare at base, flowers mauve-pink, striate.	Whitish sand in winter-wet area.				4/12/1982
1058762	14714	Verticordia lindleyi subsp. lindleyi	4	Low open erect shrub, 60 cm, flowers mauve.					26/05/1978
1057219	14714	Verticordia lindleyi subsp. lindleyi	4		Gravelly soil.				/11/1901
6534066	14714	Verticordia lindleyi subsp. lindleyi	4	Fine shrub, 0.5 m by 0.2 m, flowers pink/mauve.	Seasonal Wetland, flat ground, sand with little clay, over ?clay, poor drainage, wet during winter/spring.	Heath B, Associated species: Pericalymma elipticum, Melaleuca sp.B, Banksia telmatiaea.			20/10/1994
7337787	14714	Verticordia lindleyi subsp. lindleyi	4	Erect, spreading open branching shrub to ca 50 cm high. Pink flowers. Full flowering stage.	Swamp. Dry, brown-grey sand.	Beaufortia squarrosa, Leptospermum sp., Hakea varia, Conostylis sp., Hypocalymma angustifolia, Banksia sphaerocarpa, Kingia australis.	ca 1000 plants.		23/02/2006
1402439	14714	Verticordia lindleyi subsp. lindleyi	4	Low open erect shrub, 60 cm. Flowers mauve.					26/05/1978
2166739	14714	Verticordia lindleyi subsp. lindleyi	4	Dwarf shrub to 40 cm, with pink-purple flowers.	On winter wet flat in grey sand.	With Melaleuca (paperbark), Hypocalymma angustifolia, Pericalymma elipticum.			4/04/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2166712	14714	Verticordia lindleyi subsp. lindleyi	4	Upright dwarf shrub to 75 cm, pink-purple flowers.	Yellow sandy loam in swampy flat.	With Pericalymma elipticum, Melaleuca sp., Verticordia densiflora, sedges.		Abundance: frequent	13/03/1990
2166720	14714	Verticordia lindleyi subsp. lindleyi	4	Upright dwarf shrub, pink-purple flowers.	White sand.	With Actinostrobis pyramidalis, Beaufortia squarrosa, Pericalymma elipticum.		Abundance: frequent	21/03/1990
4684559	14714	Verticordia lindleyi subsp. lindleyi	4		Slope. Dry grey sand.				17/03/1997
2031450	14714	Verticordia lindleyi subsp. lindleyi	4	60 cm high x 30 cm wide. Flowers pinkish-mauve. Flower-spikes fairly sparse on ends of branches.	Yellow sandy loam in low-lying area, wet in winter.	Growing in assocation with V. densiflora.			14/12/1979
7916396	14714	Verticordia lindleyi subsp. lindleyi	4	Erect shrub. Pink flowers.	Grey sand over brown sand.	Verticordia densiflora, Melaleuca preissiana, Pericalymma ellipticum.	common, ca. 1000 plants.	Reproductive stage: vegetative adult/flowers.	23/05/2006
7888244	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub.	Flat. Grey sand.	Woodland. Corymbia calophylla, Banksia attenuata, Banksia menziesii, Melaleuca preissiana, Xanthorrhoea preissii, Hypocalymma angustifolium, Adenanthos obovatus, Regelia ciliata, Jacksonia furcellata.			22/08/2002
7747098	14714	Verticordia lindleyi subsp. lindleyi	4	Erect shrub.	Low plain on flat area.	Melaleuca preissiana, Xanthorrhoea preissii, Desmocladus flexuosus, Jacksonia furcellata, Lyginia barbata, Pericalymma ellipticum, Hypocalymma angustifolium, Eucalyptus linearis, Melaleuca seriata, Dryandra lindleyana and Patersonia occidentalis.	21-50 plants.	Healthy population.	21/02/2007
7747071	14714	Verticordia lindleyi subsp. lindleyi	4	Erect shrub.	Low plain on flat area.	Melaleuca preissiana, Xanthorrhoea preissii, Desmocladus flexuosus, Jacksonia furcellata, Lyginia barbata, Pericalymma ellipticum, Hypocalymma angustifolium, Eucalyptus linearis, Melaleuca seriata, Dryandra lindleyana and Patersonia occidentalis.	21-50 plants.	Healthy population.	21/02/2007
8145660	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub.		Patersonia occidentalis, Melaleuca seriata, Cytogonidium leptocarpoides, Drosera menziesii, Phlebocarya ciliata, Dampiera linearis, Gladiolus caryophyllaceus, Philotheca spicata, Hypocalymma angustifolium, Xanthorrhoea gracilis, Alexgeorgea nitens.			5/09/2007
7888228	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub.	Flat. Grey sand.	Closed heath. Hakea varia, Astartea fascicularis, Hypocalymma angustifolium, Euchilopsis linearis and sedgelanhd of Baumea and Meeboldina spp.			20/08/2002

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1557858	12460	Verticordia serrata var. linearis	3						10/10/1961

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
98423	3219	Acacia anomala	T	VU	9	D	24/08/2015		DRY	SLOPE	LATERITE		CLAY	YELLOW	
98406	3219	Acacia anomala	T	VU	6	A	3/09/2014	Property has been completely cleared (illegally, being investigated) up to the verge. Stylidium piliferum, Dryandra nivea, Grevillea synapheae	MOIST	SLOPE	LATERITE	GRVL_30	CLA_LOAM	BROWN	WLL_DRND
98408	3219	Acacia anomala	T	VU	6	C	11/10/1986			SLOPE	LATERITE	GRVL_30		GREY	
98407	3219	Acacia anomala	T	VU	6	B	14/09/2018			HILL	LATERITE	GRVL_100	CLA_LOAM	RED_BRWN	WLL_DRND
108062	3219	Acacia anomala	T	VU	6	D	14/09/2018			HILL	LATERITE	GRVL_100	CLA_LOAM	RED_BRWN	WLL_DRND
98422	3219	Acacia anomala	T	VU	9	C	28/08/2000		DRY	SLOPE	LATERITE		CLAY	YELLOW	
98421	3219	Acacia anomala	T	VU	9	B	17/08/2021		DRY	SLOPE	LATERITE	GRVL_30	LOAM	GREY	WLL_DRND
98420	3219	Acacia anomala	T	VU	9	A	14/09/1985	Stylidium piliferum, Dryandra nivea, Grevillea synapheae		SLOPE	LATERITE	GRVL_30		GREY	
98412	3219	Acacia anomala	T	VU	7	C	29/08/2018		MOIST	SLOPE	LATERITE	GRVL_10			WLL_DRND
98411	3219	Acacia anomala	T	VU	7	B	22/08/2023	Habitat was last burnt in prescribed burn PHS150 / Whistelpipe Gully 1 carried out October 2020.	MOIST	FLAT	LATERITE				WLL_DRND
98410	3219	Acacia anomala	T	VU	7	A	22/08/2023	Habitat last burnt in prescribed burn PHS 150 / Whistlepipe Gully 1 in October 2020.	MOIST	FLAT	LATERITE		LOAM	BROWN	WLL_DRND
98432	3220	Acacia aphylla	T	VU	17	A	11/11/2013		DRY	HILL	LATERITE				WLL_DRND
98433	3220	Acacia aphylla	T	VU	17	B	11/11/2013	disturbed area long roadside. lots of weeds	DRY	HILL	LATERITE				WLL_DRND
108166	3220	Acacia aphylla	T	VU	26		21/05/2010	Consists mainly of introduced species most likely from revegetation works. Few natives in immediate area.	MOIST	SLOPE	LATERITE	GRVL_10	CLA_LOAM	RED	WLL_DRND
119996	3220	Acacia aphylla	T	VU	31		7/08/2023	Open woodland on south side, granite heath on north side. Area north-east of Park road last burnt in prescribed burn PHS 031/John Forrest NP in October 2014, south-west side in PHS 191/John Forrest NP8 in September 2022.	MOIST	SLOPE	LATERITE	GRVL_10			WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
89604	11229	Acacia drummondii subsp. affinis	3		15		26/06/2006	Growing on hillside in rocky/clay in disturbed soil in roadside. Herbarium Record Only.		CREST			CLAY		
91853	14129	Acacia oncinophylla subsp. oncinophylla	3		12		17/08/1992	DomSp:Diplolaena sp., Phyllantus calycinus.		SLOPE	GRANITE		LOAM	BROWN	
91862	14129	Acacia oncinophylla subsp. oncinophylla	3		9		18/09/1996	DomSp:Trymalium lidifolium		SLOPE	LATERITE	GRVL_30	LOAM	GREY	
91852	14129	Acacia oncinophylla subsp. oncinophylla	3		11		4/10/2005			OUTCROP	GRANITE		LOAM_SND		
91858	14129	Acacia oncinophylla subsp. oncinophylla	3		5		12/10/1992	Open low scrub		SLOPE	LATERITE		LOAM	BROWN	
91866	14131	Acacia oncinophylla subsp. patulifolia	4		11		24/09/1996	Open low scrub, over Trymalium ledifolium, mixed dense low heath over Amphipogon turbinata.		SLOPE			LOAM	BROWN	
124249	6309	Andersonia gracilis	T	VU	21		11/11/2022	Closed to Open Shrubland of Callitris pyramidalis over Open Shrubland of Verticordia densiflora, Pericalymma ellipticum, Kingia australis, Petrophile seminuda, Hypocalymma angustifolia subsp. Swan Coastal Plain (G.J. Keighery 16777) over Cyathochaeta ave	DRY	FLAT			SCL_LOAM	BROWN	SEASINUN
88922	6946	Anthocercis gracilis	T	VU	7		18/10/2017	Heath under Rock Sheoak woodland. WAHerb vegetation description: Under Rock Sheoak, with Balga, Warrine, Zamia and Forest Rice-grass. Dense weeds. According to corporate fire data, several wildfires have occurred in the area however it is not known w	MOIST	OUTCROP	GRANITE	GRVL_10			WLL_DRND
88918	6946	Anthocercis gracilis	T	VU	2		24/08/2016	Significant weed invasion	MOIST	OUTCROP	GRANITE	GRVL_10	CLA_LOAM	BROWN	WLL_DRND
88924	6946	Anthocercis gracilis	T	VU	9		23/08/2016		MOIST	OUTCROP	GRANITE	GRVL_10	SND_LOAM	RED_BRWN	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
88923	6946	Anthocercis gracilis	T	VU	8		23/08/2016	Very sparse Corymbia calophylla and Eucalyptus wandoo trees. Mid-dense shrubs - Trymalium ledifolium, Calothamnus quadrifidus, Hibberti hypericoides. Sparse herbs on granite sheets - Borya sp., Drosera sp.	MOIST	RIDGE	GRANITE	GRVL_10	SND_LOAM	RED_BRWN	WLL_DRND
88921	6946	Anthocercis gracilis	T	VU	6		7/07/2023	Last burnt in October 2018 prescribed burn (PHS 109 / John Forrest NP 2).	DRY	SLOPE	GRANITE	GRVL_30	LOAM	BROWN	
88920	6946	Anthocercis gracilis	T	VU	4		30/10/1992	Xanthorrhoea preissii, Macrozamia ridlei, Hemigenia sericea, Chorizema ilicifolium, Cheilanthes		OPEN_DPN	GRANITE		LOAM	BROWN	
89376	7849	Asteridea gracilis	3		7		26/09/1977								
112269	50979	Austrostipa bronweniae	T	EN	1	C	9/12/2015	Very Open to Closed Tall Heath of Viminaria juncea, Melaleuca acutifolia, M. osullinvanii, M. viminea, Callitris pyramidalis, Banksia telmatiaea, Grevillea thelemanniana subsp. thelemanniana, Hypocalymma angustifolium, Acacia lasiocarpa over Very Open to	DRY	FLAT			SND_CLAY	GREY	SEASINUN
109248	50979	Austrostipa bronweniae	T	EN	1	A	29/10/2013	Callitris pyramidalis and Viminaria juncea Tall Open Shrubland, over Hypocalymma angustifolium, Grevillea thelemanniana var. thelemanniana (P2), Acacia lasiocarpa, Boronia crenulata Open Low Heath and Sedgeland/Herbland dominated by Chaetanthus aristatus	DRY	CD_DMPLD			SND_CLAY	GREY	SEASINUN
109489	50979	Austrostipa bronweniae	T	EN	1	B	18/09/2009								

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
104866	32211	Banksia mimica	T	VU	15	A	27/02/2024	Open Woodland of Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Kingia australis, Eremaea pauciflora, Jacksonia floribunda, Banksia nivea, Bossiaea eriocarpa, Stirlingia latifolia, Philotheca spicat	DRY	FL_PALU			SAND	GREY	WLL_DRND
104867	32211	Banksia mimica	T	VU	15	B	18/12/2019		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
104869	32211	Banksia mimica	T	VU	3	A	23/01/2024		DRY	SL_MI_GE			SAND	GREY	WLL_DRND
104870	32211	Banksia mimica	T	VU	3	B	23/01/2024	No native vegetation was seen on the property from the entrance at Brentwood Rd.	DRY	FLAT			SAND	WHITE	
104871	32211	Banksia mimica	T	VU	3	C	21/03/1990	Allocasuarina humilis, Dryandra nivea, Grevillea bipinnatifida, Hakea prostrata, Jacksonia floribunda		FLAT			SAND	GREY	
93363	16618	Boronia humifusa	1		12		20/08/2002		DRY	SLOPE	LATERITE	GRVL_30		BROWN	
86232	3178	Byblis gigantea	T	EN	1		31/10/2001	Shrubland	MOIST	FLAT			CLAY	GREY	
86235	3178	Byblis gigantea	T	EN	4		11/12/2001	Shrubland		OD_SWAMP			SAND	GREY	SEASINUN
86233	3178	Byblis gigantea	T	EN	2		6/09/1976	Hakea sp., Grevillea sp., Boronia sp., Melaleuca sp., Leucopogon sp.	MOIST	OD_SWAMP			SAND		
106902	13653	Calytrix breviseta subsp. breviseta	T	CR	2	B	1/11/2022	This entry is for the plants on the fenceline only. Habitat here is in Good condition (have left the overall habitat at Very Good condition from the full survey in 2012). Vegetation on the fenceline is Open Low Shrubland of Hypocalymma ?suave, Kunzea mi	DRY	CD_DMPLD			CLA_LOAM	BROWN	SEASINUN

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
91363	13653	Calytrix breviseta subsp. breviseta	T	CR	2	A	17/10/2024	The habitat is regenerating after the wildfire in January. Dominant species are the same as in 2019. Acacia lasiocarpa, Hypcalymma angustifolium, Melaleuca acutifolia, Verticordia densiflora, Scaevola repens, Haemodorum spicatum, Centrolepis aristata, B	MOIST	CD_DMPLD			CLA_LOAM	GREY	SEASINUN
84454	759	Carex tereticaulis	3		4		17/05/1999	Watercourse, wet. Organic litter. Grey Bassendean sand. Dense forest.					SAND	GREY	
91543	13999	Conospermum undulatum	T	VU	15		14/04/2005						SAND	YELLOW	
123053	13999	Conospermum undulatum	T	VU	29	B	25/09/2019	Vege Class: 1. Banksia menziesii, Banksia attenuata 2. Shrubland of Adenananthos cygnorum, Jacksonia floribunda, Melaleuca seriata Fire: >10 years ago	DRY				SAND	GREY	
91551	13999	Conospermum undulatum	T	VU	29	A	25/08/2023	Dom sp: Calothamnus sp., grassy weeds. Habitat cond: Degraded.	DRY	SLOPE			SAND	GREY	
102338	13999	Conospermum undulatum	T	VU	24	A	1/12/2004	scrub/woodland	DRY	SLOPE			SAND	GREY	
122969	13999	Conospermum undulatum	T	VU	24	C	25/09/2019	Habitat cndition: Excellent, very good Vege Class: 1.Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii, Banksia attenuata 2. Shrubland of Jacksonia floribunda, Calytrix fraseri Fire: >10 years ago	DRY				SAND	GREY	WLL_DRND
102339	13999	Conospermum undulatum	T	VU	24	B	6/09/2023			CREST			SAND	GREY	WLL_DRND
102315	13999	Conospermum undulatum	T	VU	18	M	31/07/2013	Probably cleared or highly disturbed during previous road works	MOIST	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
120189	13999	Conospermum undulatum	T	VU	18	S	17/09/2009		MOIST	FL_PLAIN			SAND	GREY	
102306	13999	Conospermum undulatum	T	VU	18	C	21/12/2006	Low woodland A / low forest A over dwarf scrub D and low heath D	MOIST	FLAT	LATERITE		SAND	GREY	
102320	13999	Conospermum undulatum	T	VU	18	R	21/12/2006	Open Low Woodland	MOIST	FL_PLAIN			SAND	GREY	
122949	13999	Conospermum undulatum	T	VU	18	X	20/09/2018	Soil Type: Sand, Sandy loam Vege Class: Banksia attenuata woodland over species rich dense shrubland Plants found on road verge adjacent to Nature Reserve. Moderate herbaceous weeds and rubbish dumped on verge	DRY	FLAT		GRVL_30	SND_LOAM	GREY	WLL_DRND
102318	13999	Conospermum undulatum	T	VU	18	P	26/07/2018	Low Woodland of Allocasuarina fraseriana, Banksia grandis, B. attenuata, B. menziesii over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Jacksonia floribunda over Low Shrubland of Hibbertia hypericoides, H. acerosa, H. rh		SL_LO_GE			SAND	GREY	WLL_DRND
102319	13999	Conospermum undulatum	T	VU	18	Q	21/12/2006	Open Low Woodland	MOIST	FL_PLAIN			SAND	GREY	
102305	13999	Conospermum undulatum	T	VU	18	B	17/08/1997	Lot cleared.	DRY	FLAT	LATERITE		SAND	WHITE	
122931	13999	Conospermum undulatum	T	VU	18	W	6/10/2016	Disturbed regrowth.		FLAT			SAND	GREY	WLL_DRND
102307	13999	Conospermum undulatum	T	VU	18	D	26/07/2018	Low Woodland of Allocasuarina fraseriana, Banksia grandis, B. attenuata, B. menziesii over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Jacksonia floribunda over Low Shrubland of Hibbertia hypericoides, H. acerosa, H. rh		SL_LO_GE			SAND	GREY	WLL_DRND
102308	13999	Conospermum undulatum	T	VU	18	E	21/12/2006	Low woodland A / low forest A over dwarf scrub D and low heath D	MOIST	FLAT	LATERITE		SAND	GREY	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
122889	13999	Conospermum undulatum	T	VU	18	U	19/10/2022	Highly degraded with grassy weed species.	MOIST	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102309	13999	Conospermum undulatum	T	VU	18	F	21/12/2006	Low woodland A / low forest A over dwarf scrub D and low heath D	MOIST	FLAT	LATERITE		SAND	GREY	
102304	13999	Conospermum undulatum	T	VU	18	A	15/10/2018	Banksia woodland	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102317	13999	Conospermum undulatum	T	VU	18	O	15/10/2018	Banksia woodland	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102316	13999	Conospermum undulatum	T	VU	18	N	11/11/2022	Condition of vegetation community ranged from Degraded to Very Good. High litter layer occurred throughout. Forest of Eucalyptus marginata, Allocasuarina fraseriana and occ. Corymbia calophylla over Low Woodland of Banksia menziesii, B. attenuata and Ade	DRY	FL_PLAIN	LATERITE	GRVL_10	LOAM_SND	GREY	WLL_DRND
120190	13999	Conospermum undulatum	T	VU	33		1/07/2010		MOIST	FL_PLAIN			SAND	GREY	
123050	13999	Conospermum undulatum	T	VU	34		2/10/2014	Habitat condition: Excellent to Good	MOIST	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102310	13999	Conospermum undulatum	T	VU	18	G	20/01/2006	Lambertia multiflora, Anigozanthus manglesii; banksia woodland			LATERITE		SAND	YELLOW	
131969	13999	Conospermum undulatum	T	VU	18	Z	3/10/2023			FLAT			SAND		
102358	13999	Conospermum undulatum	T	VU	4	R	15/10/2018		MOIST	SLOPE	LATERITE		SAND		
91557	13999	Conospermum undulatum	T	VU	7		12/08/1997	bulldozed/degraded-just a weedy verge and fenced orchards.		FLAT			SAND	YELLOW	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
122909	13999	Conospermum undulatum	T	VU	18	V	11/11/2022	Two similar communities were described along this section of road verge. A high litter layer was seen throughout. 1. Degraded to Good condition. Forest of Corymbia calophylla, Eucalyptus marginata, Allocasuarina fraseriana over Low Open Woodland of Banks	MOIST	FLAT			SAND	CREAM	WLL_DRND
102265	13999	Conospermum undulatum	T	VU	10	A	12/10/2023		DRY	FLAT		GRVL_10	SAND	WHITE	WLL_DRND
102312	13999	Conospermum undulatum	T	VU	18	I	9/09/2019								
102269	13999	Conospermum undulatum	T	VU	10	E	30/07/2020	Open low woodland. Many dead mature Banksias observed, dieback? drought?	DRY	FL_PLAIN			SAND	GREY	
132073	13999	Conospermum undulatum	T	VU	10	K	28/11/2019	Original habitat description on report form for population 30.							
102313	13999	Conospermum undulatum	T	VU	18	J	10/10/2002	Anigozanthus manglesii, Adenanthos cygnorum; Jarrah/Marri/Allocasuarina woodland		FLAT	LATERITE		SAND	YELLOW	
102314	13999	Conospermum undulatum	T	VU	18	K	3/10/2023								
91552	13999	Conospermum undulatum	T	VU	3		29/09/2016	The reserve is highly impacted by uncontrolled recreational use. Several large areas on the northern side of the reserve are now completely degraded.		FLAT			SAND	GREY	
102267	13999	Conospermum undulatum	T	VU	10	C	18/12/2019	Original habitat description on report form for population 30.							
91556	13999	Conospermum undulatum	T	VU	6		18/08/1997	Thomasia grandiflora, Acacia pulchella		FLAT			CLAY_SND	YELLOW	
102273	13999	Conospermum undulatum	T	VU	11	A	1/12/2005	swamp		FLAT			SAND		
102271	13999	Conospermum undulatum	T	VU	10	G	19/10/2022	Open Low Woodland. Adenanthos cygnorum	MOIST	FL_PLAIN			SAND	GREY	
131110	13999	Conospermum undulatum	T	VU	10	I	19/09/2019	Original habitat description on report form for population 30.							

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102362	13999	Conospermum undulatum	T	VU	4	V	1/10/2008		DRY	FLAT	LATERITE	GRVL_30	SAND	BROWN	
102266	13999	Conospermum undulatum	T	VU	10	B	10/03/2000	Vegetation in moderate condition.	DRY	FLAT		GRVL_30	SAND	BROWN	
102270	13999	Conospermum undulatum	T	VU	10	F	13/12/2006	Low woodland A over dwarf scrub C. Disturbed. Weeds, drainage and high recreational pressure.	MOIST	FL_PLAIN			SAND	GREY	
102277	13999	Conospermum undulatum	T	VU	11	E	23/01/2024	A patch of vegetation can be seen from Brentwood Rd on the SW side of the house that still occurs near the site of C.undulatum recorded in 2015. However, it appears much reduced in area and canopy. Native species seen include Eucalyptus todtiana and Xa	DRY	SL_MI_GE			SAND	GREY	WLL_DRND
102274	13999	Conospermum undulatum	T	VU	11	B	23/01/2024	Property is completely cleared of native understorey vegetation. Only the road reserve has not been parkland cleared.	DRY	SL_MI_GE			SAND	GREY	WLL_DRND
134969	13999	Conospermum undulatum	T	VU	4	W	2/10/2019								
131111	13999	Conospermum undulatum	T	VU	10	J	19/09/2019	Original habitat description on report form for population 30.							
122869	13999	Conospermum undulatum	T	VU	18	T	10/11/2020		MOIST	FLAT	LATERITE	GRVL_10	SAND	YELLOW	WLL_DRND
91549	13999	Conospermum undulatum	T	VU	27		10/08/2006			FLAT			SAND	GREY	
123129	13999	Conospermum undulatum	T	VU	18	Y	10/11/2020		MOIST	FLAT	LATERITE	GRVL_10	SAND	YELLOW	WLL_DRND
102348	13999	Conospermum undulatum	T	VU	4	H	2/10/2019	Banksia woodland/forest. Lambertia multifora, Banksia menziesii, Eucalyptus marginata, Adenanthos cygnorum	MOIST	FL_PLAIN			SAND	GREY	
102311	13999	Conospermum undulatum	T	VU	18	H	24/09/2020	Habitat graded from Good to Excellent condition	DRY	FLAT	LATERITE		SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
123049	13999	Conospermum undulatum	T	VU	10	H	12/10/2023	Habitat condition: Very good, degraded Partial clearing and many weed present but high species diversity in understorey and orchids present, degraded to the north west boundary near the oval where there is less understorey	MOIST	FLAT		GRVL_10	SAND	BROWN	WLL_DRND
102346	13999	Conospermum undulatum	T	VU	4	F	15/11/2006	Cleared of vegatation.		FLAT			SAND	GREY	
102361	13999	Conospermum undulatum	T	VU	4	U	25/07/2008			SLOPE			SAND	YELLOW	
102352	13999	Conospermum undulatum	T	VU	4	L	15/11/2006	Degraded road verge. Open low woodland	MOIST	FL_PLAIN			SAND	GREY	
102347	13999	Conospermum undulatum	T	VU	4	G	25/07/2008	Jarrah/marri forest	DRY	SLOPE		GRVL_30	SAND	BROWN	
102355	13999	Conospermum undulatum	T	VU	4	O	5/11/2020	Much of the remnant vegetation where the plants occur is in Excellent condition locally, but there are areas of Degraded around sheds. Vegetation is: Open Forest of Eucalyptus marginata, Allocasuarina fraseriana, Banksia attenuata, B. menziesii, Persooni	DRY	FLAT			SND_LOAM	GREY	WLL_DRND
102345	13999	Conospermum undulatum	T	VU	4	E	12/11/2006	Cleared of vegetation.							
102275	13999	Conospermum undulatum	T	VU	11	C	24/08/2005	Adenanthos cygnorum, Lysinema ciliatum, Hibbertia hypericoides, Lambertia multiflora, Eucalyptus marginata	DRY	FLAT			SAND	CREAM	
102349	13999	Conospermum undulatum	T	VU	4	I	2/10/2019								
102350	13999	Conospermum undulatum	T	VU	4	J	2/10/2019	Banksia woodland		FLAT			SAND	GREY	
102344	13999	Conospermum undulatum	T	VU	4	D	25/07/2008		DRY	FLAT			SAND	YELLOW	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102276	13999	Conospermum undulatum	T	VU	11	D	24/08/2005	White/grey sand over yellow sand. Lambertia multiflora, Eucalyptus marginata, Allocasuarina fraseriana	DRY	FLAT			SAND	CREAM	
106381	13999	Conospermum undulatum	T	VU	11	F	24/08/2005	White/grey sand over yellow sand. Lambertia multiflora, Eucalyptus marginata, Allocasuarina fraseriana	DRY	FLAT			SAND	CREAM	
102343	13999	Conospermum undulatum	T	VU	4	C	18/08/1997	Lot cleared.		FLAT			SAND	YELLOW	
102351	13999	Conospermum undulatum	T	VU	4	K	21/08/1997	Banksia woodland.		FLAT			SAND	GREY	
102342	13999	Conospermum undulatum	T	VU	4	B	5/11/2020	The best quality of remnant vegetation on Lot 30 was: Open Forest of Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii, B. attenuata over Shrubland of Xanthorrhoea preissii, X. brunonis, Lambertia multiflora over Low Shrubland of Hibberti	DRY	FLAT			SND_LOAM	GREY	WLL_DRND
102341	13999	Conospermum undulatum	T	VU	4	A	6/12/2005	Banksia woodland/forest. Damperia linearis, Eucalyptus marginata, Allocasuarina fraseriana.	DRY	FLAT			SAND	WHITE	
102360	13999	Conospermum undulatum	T	VU	4	T	6/12/2005			FLAT					
91555	13999	Conospermum undulatum	T	VU	5		25/07/2008	Soil Condition :Saline; Jarrah/marri woodland.		FLAT			CLAY_SND	BROWN	
102356	13999	Conospermum undulatum	T	VU	4	P	20/10/2005	Jarrah/Marri/Sheoak woodland. Banksia attenuata, Hakea undulata, Nuytsia floribunda, Isopogon drummondii.	DRY	FLAT			SAND	WHITE	
102268	13999	Conospermum undulatum	T	VU	10	D	18/08/2021	jarrah/marri woodland; vegetation in good condition	DRY	FLAT		GRVL_30	SAND	BROWN	WLL_DRND
135551	13999	Conospermum undulatum	T	VU	17	C	5/12/2023		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
135553	13999	Conospermum undulatum	T	VU	17	D	5/12/2023		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102357	13999	Conospermum undulatum	T	VU	4	Q	6/12/2005	Jarrah, Marri and Sheoak bushland. Xanthorrhoea preissii, Stirlingia latifolia, Allocasuarina fraseriana	DRY	FLAT			SAND		
102353	13999	Conospermum undulatum	T	VU	4	M	15/11/2006	Jarrah/Allocasuarina woodland.	MOIST	FL_PLAIN			SAND	GREY	
102354	13999	Conospermum undulatum	T	VU	4	N	6/12/2005	Jarrah/Allocasuarina woodland. Block partly developed. Xanthorrhoea pressii, Eucalyptus marginata	DRY	FLAT			SAND	WHITE	
102359	13999	Conospermum undulatum	T	VU	4	S	25/07/2008		MOIST	FLAT			SAND	YELLOW	
135550	13999	Conospermum undulatum	T	VU	17	B	16/01/2013								
91544	13999	Conospermum undulatum	T	VU	17	A	15/11/2006								
91550	13999	Conospermum undulatum	T	VU	28		15/10/2018		DRY	FLAT		GRVL_50	LOAM	GREY	WLL_DRND
111231	13999	Conospermum undulatum	T	VU	32	B	7/12/2016	The road verge is frequently slashed/mowed. Small remnant bushland patches occur on the adjoining freehold property and continue onto the road reserve. No vegetation structure is given here as a full description has been entered onto Sheet # 80789, for t	MOIST	FLAT			SAND	GREY	WLL_DRND
111229	13999	Conospermum undulatum	T	VU	32	A	7/12/2016	Habitat is disturbed with frequent slashing and possibly past parkland clearing. Small patches or remnant bushland is in good condition and may have been a TEC 20a continuation of that within the nearby Hawkevale Reserve. There are indications of either	MOIST	FLAT			SAND	GREY	WLL_DRND
102325	13999	Conospermum undulatum	T	VU	19	D	22/09/2021	Banksia woodland	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102365	13999	Conospermum undulatum	T	VU	8	B	7/10/2015	Woodland of Corymbia calophylla and Eucalyptus marginata over Xanthorrhoea preissii, Hakea lissocarpa, Mesomelaena pseudostygia, Tetraria octandra, Hibbertia hypericoides		FLAT		GRVL_10	SAND	GREY	WLL_DRND
91558	13999	Conospermum undulatum	T	VU	9	A	24/10/2006	Cleared		FLAT		GRVL_30	SAND		
102324	13999	Conospermum undulatum	T	VU	19	C	22/09/2021	Banksia woodland, slightly degraded in North Eastern corner.	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102326	13999	Conospermum undulatum	T	VU	19	E	1/12/2005		MOIST	SLOPE			SAND	YELLOW	
91545	13999	Conospermum undulatum	T	VU	2		18/01/2021	Woodland of Eucalyptus marginata, Banksia attenuata, B. menziesii, B. grandis, Allocasuarina fraseriana, Nuytsia floribunda over Shrubland of Adenanthos cygnorum, Lambertia multiflora, Xanthorrhoea preissii, Acacia pulchella over Low Shrubland of Hibbert		SLOPE			SAND	GREY	WLL_DRND
122930	13999	Conospermum undulatum	T	VU	9	B	26/03/2015	Habitat condition: Very good to completely degraded Forrestfield Complex Past clearance has occurred and fire breaks etc have vaused weed incursion	DRY	FLAT	LATERITE	GRVL_30	SND_LOAM	YEL_BRWN	WLL_DRND
102323	13999	Conospermum undulatum	T	VU	19	B	22/09/2021	Banksia attenuata and/or Eucalyptus marginata on the eastern side of the Swan Coastal Plain	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102322	13999	Conospermum undulatum	T	VU	19	A	5/11/2001	mostly cleared.		FLAT		GRVL_30	SAND		

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102364	13999	Conospermum undulatum	T	VU	8	A	1/09/2022	Banksia woodland. Anigozanthus manglesii, Adenanthos cygnorum, Verticordia sp, Allocasuarina humilis Southern section of the property was recently burnt, many Grassey and Woody weeds are present.	DRY	FLAT			SAND	BROWN	WLL_DRND
102335	13999	Conospermum undulatum	T	VU	23	B	4/12/2024		DRY	FLAT			SAND	WHITE	
102336	13999	Conospermum undulatum	T	VU	23	C	4/06/2009	Dom sp: Adenanthos cygnorum, Stirlingia latifolia and Isopogon drummondii.	MOIST	FLAT			SAND		
91546	13999	Conospermum undulatum	T	VU	21		4/11/2019	Eucalyptus marginata subsp. marginata Woodland over, Banksia menziesii Low woodland over Allocasuarina humilis scattered tall shrubs over, Xanthorrhoea preissii Sparse shrubland. Hibbertia hypericoides, Bossiaea eriocarpa, Banksia dallanneyi var. dallann	DRY	FLAT			SND_LOAM	BROWN	WLL_DRND
102334	13999	Conospermum undulatum	T	VU	23	A	6/05/2020	Banksia Woodland	MOIST	FLAT					WLL_DRND
91542	13999	Conospermum undulatum	T	VU	12		18/10/2022	Xanthorrhoea preissii, Banksia nivea, Mesomelaena tetragona, Hakea undulata, Lechenaultia biloba	DRY	FLAT			SAND	WHITE	WLL_DRND
102331	13999	Conospermum undulatum	T	VU	22	A	21/12/2020	Also Conostylis sp. Leucopogon pulchellus.	DRY	SLOPE	SANDSTN		SAND	BROWN	WLL_DRND
102332	13999	Conospermum undulatum	T	VU	22	B	2/10/2003	Also conostylis sp. Leucopogon pulchellus.	DRY	SLOPE	SANDSTN		SAND	BROWN	
102328	13999	Conospermum undulatum	T	VU	20	A	30/08/2000	Anigozanthos sp.		FLAT			SAND	GREY	
102258	13999	Conospermum undulatum	T	VU	1	E	12/08/2020	Jarah/Allocasuarina woodland/closed sedgeland. Weed invasion on edges, not threat.	DRY	FLAT			SAND	YELLOW	
135369	13999	Conospermum undulatum	T	VU	1	O	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102329	13999	Conospermum undulatum	T	VU	20	B	15/10/2018	Vegetation relatively intact over most of the reserve but signs of past land use. (gravel pit) some parts more modified than others. Plants dont occur in damp areas							
127929	13999	Conospermum undulatum	T	VU	1	M	12/08/2020			FLAT	LATERITE		SAND		WLL_DRND
135370	13999	Conospermum undulatum	T	VU	1	P	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102254	13999	Conospermum undulatum	T	VU	1	A	15/06/2020	Jarrah, marri and Allocasuarina fraseriana woodland. Xanthorrhoea preissii, X.gracilis, Daviesia decurrens	DRY	FLAT			SAND	YELLOW	WLL_DRND
91548	13999	Conospermum undulatum	T	VU	26		28/08/2006	Open Forest. Dryandra lindleyana, Hakea stenocarpa	DRY	FLAT			LOAM	GREY	
135371	13999	Conospermum undulatum	T	VU	1	Q	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102260	13999	Conospermum undulatum	T	VU	1	G	24/02/2020	Healthy Banksia woodland.	DRY	FLAT			SAND	GREY	
102261	13999	Conospermum undulatum	T	VU	1	H	3/10/2002	Healthy Banksia woodland.	DRY	FLAT			SAND	GREY	
102259	13999	Conospermum undulatum	T	VU	1	F	24/02/2020	Healthy Banksia woodland. Banksia sp., Hibbertia hypericoides, Labichea lanceolata	DRY	FLAT			SAND	GREY	
102263	13999	Conospermum undulatum	T	VU	1	J	24/02/2020		DRY	FLAT			SAND	GREY	
102262	13999	Conospermum undulatum	T	VU	1	I	20/04/2020	Eucalyptus marginata, Allocasuarina sp., Hakea sulcata, Daviesia nudiflora, Amphipogon turbinatus.	DRY	SLOPE	LATERITE		SAND		WLL_DRND
127909	13999	Conospermum undulatum	T	VU	1	L	5/07/2022		DRY				CLAY_SND		WLL_DRND
102256	13999	Conospermum undulatum	T	VU	1	C	22/08/2023	Soil Condition :Saline; Jarrah, marri woodland.	DRY	SLOPE			CLAY_SND		WLL_DRND
128229	13999	Conospermum undulatum	T	VU	1	N	24/02/2020	Other parts of the property may support better vegetation and Conospermum plants.							
123069	13999	Conospermum undulatum	T	VU	1	K	4/02/2020		DRY				CLAY_SND		WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102257	13999	Conospermum undulatum	T	VU	1	D	28/02/2023	Marri & weeds.Mainly planted vegetation.	DRY	SLOPE			SAND	YELLOW	
135389	13999	Conospermum undulatum	T	VU	1	R	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102255	13999	Conospermum undulatum	T	VU	1	B	16/09/2020	Jarrah, marri open woodland. Hibbertia hypericoides, Lescenaultia biloba, Sedge sp.	DRY	FLAT			LOAM_SND	YEL_BRWN	WLL_DRND
91547	13999	Conospermum undulatum	T	VU	25		17/08/2022	Very good to excellent condition. Only a small area of sand over laterite exisits in the reserve so suitable habitat is limited to less than 0.5ha	MOIST	FLAT	LATERITE	GRVL_10	LOAM_SND	GREY	WLL_DRND
123051	13999	Conospermum undulatum	T	VU	35		15/05/2018	Area degraded, Banksa sessilis have died, perhaps due to old age as are quite large	DRY				SND_LOAM	BROWN	WLL_DRND
87068	50708	Cyanothamnus tenuis	4		10		23/09/1990	Eucalyptus overstorey and many introduced weeds (Watsonia etc)		SLOPE					
93207	16245	Cyathochaeta teretifolia	3		22		18/09/1999	HabDes:Plants in cleared track.					PEAT	BLACK	
99452	5505	Darwinia apiculata	T	EN	1	D	10/11/2011								
99449	5505	Darwinia apiculata	T	EN	1	A	31/10/2023	The area consists of healthy native vegetation however there is a lot of weed encroachment (Ursinia anthemoides, Briza maxima, Gladiolus sp.).	DRY						WLL_DRND
117809	5505	Darwinia apiculata	T	EN	1	E	13/05/2020	Occurs in small weed infested pockets surrounded by tracks between housing, water reserve and conservation park and in more extensively vegetated corner block at Alpine/Yorna Rd intersection. 200m of the narrow strip was burnt in prescribed burn MDG 552	MOIST	FLAT	LATERITE	GRVL_10	LOAM	BROWN	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
99450	5505	Darwinia apiculata	T	EN	1	B	18/10/2022	The area consists of healthy native vegetation however there is a lot of weed encroachment. Prescribed burn in Spring 2011(MDG 552E / Kalamunda R/P) burnt part of population. Prior to that was a January 1997 wildfire.	DRY	CREST	LATERITE	GRVL_50		BROWN	WLL_DRND
131629	5505	Darwinia apiculata	T	EN	1	F	25/06/2019	The area consists of healthy native vegetation however there is a lot of weed encroachment. Prescribed burn in Spring 2011(MDG 552E / Kalamunda R/P) burnt part of population (8 YSLF). Prior to that was a January 1997 wildfire.	DRY	CREST	LATERITE	GRVL_50		BROWN	WLL_DRND
99451	5505	Darwinia apiculata	T	EN	1	C	13/05/2020	Plants occur in a 50m stretch of very good habitat, the other 400m is degraded.	MOIST	FLAT	LATERITE	GRVL_10	LOAM	BROWN	WLL_DRND
87746	5505	Darwinia apiculata	T	EN	2		10/07/2020		DRY	SLOPE	GRANITE	GRVL_30	SND_LOAM	BROWN	WLL_DRND
99493	5523	Darwinia pimelioides	4		2	A	12/10/1992			SLOPE	GRANITE		LOAM	BROWN	
99494	5523	Darwinia pimelioides	4		2	B	29/09/1999	DomSp: Hypocalymma angustifolium, Hakea lissocarpha, Hakea cristata, Hakea myrtoides, Synaphea pinnata	MOIST	SLOPE	GRANITE		CLA_LOAM	RED_BRWN	
99503	5523	Darwinia pimelioides	4		7	B	31/08/1999	DomSp: Acacia pulchella, Allocasuarina humilis, Grevillea pilulifera, Grevillea bipinnatifida...	MOIST	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
99502	5523	Darwinia pimelioides	4		7	A	15/03/1987								
87781	5523	Darwinia pimelioides	4		3		5/12/1996	DomSp: Acacia pulchella		SLOPE	GRANITE	GRVL_30	CLAY	PINK	
87784	5523	Darwinia pimelioides	4		9		1/09/1999	DomSp: Melaleuca sp., Boronia sp., Calothamnus sp.	MOIST	OUTCROP	GRANITE		CLA_LOAM	YEL_BRWN	
99135	4452	Diplolaena andrewsii	T	EN	2	E	20/07/2020	Habitat cond: Degraded. Dom sp: Eucalyptus wandoo, Corymbia calophylla, Hovea pungens, Watsonia meriana sp	DRY	OUTCROP	GRANITE		LOAM	BROWN	
109239	4452	Diplolaena andrewsii	T	EN	2	H	2/06/2020		MOIST	SLOPE	GRANITE		CLA_LOAM	BROWN	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
99132	4452	Diplolaena andrewsii	T	EN	2	A	3/07/2020	Habitat cond: Very Good-Good. Dom sp: Eucalyptus wandoo, Corymbia calophylla, Hovea pungens, Watsonia sp.	DRY	OUTCROP	GRANITE		CLA_LOAM	BROWN	
99136	4452	Diplolaena andrewsii	T	EN	2	F	3/09/2019		MOIST	OUTCROP	GRANITE				
109237	4452	Diplolaena andrewsii	T	EN	3		15/06/2020	Area last burnt in prescribed burn PHS 162 / JFNP5 in May 2020 however very patchy burn and most of Pop 3 remained.	DRY	SLOPE	GRANITE	GRVL_100	SND_LOAM	BROWN	WLL_DRND
99133	4452	Diplolaena andrewsii	T	EN	2	C	21/10/2011	Heath with Trymalium ledifolium and Hibbertia sp.	DRY	OUTCROP	GRANITE		SND_LOAM	BROWN	
109238	4452	Diplolaena andrewsii	T	EN	2	G	3/09/2019	Closed to open shrubland of Trymalium ledifolium to Wandoo/Marri woodland. Localised heavy weed infestation. Walk trail goes through population.	DRY	OD_CREEK	GRANITE				WLL_DRND
99134	4452	Diplolaena andrewsii	T	EN	2	D	9/06/2020	There are 2 locations of plants within this population on either side of a ridge. Clump 1 (found by K.Bettink 2010) is about 350m from the tunnel, Clump 2 (the original location of 2D) is the other side of the ridge, just around the bend in road, approxi	DRY	SLOPE	GRANITE		CLA_LOAM	BROWN	
131909	4452	Diplolaena andrewsii	T	EN	2	J	7/08/2023	The plants are growing among loose dolerite rocks.	MOIST	OU_SLOPE	DOLERITE	GRVL_10			WLL_DRND
109240	4452	Diplolaena andrewsii	T	EN	2	I	20/07/2020	Soil is pale brown/grey along the banks of Jane Brook. Weathered granite rock.	DRY	OD_DRGLN	GRANITE		SND_LOAM	BROWN	
132009	4452	Diplolaena andrewsii	T	EN	2	K	7/08/2023	The plants are growing among loose dolerite rocks.	MOIST	OU_SLOPE	DOLERITE	GRVL_10			WLL_DRND
93853	17150	Eremophila glabra subsp. chlorella	T	EN	7		22/11/2023	Melaleuca viminea & M. acutifolia Tall Open Scrub over Gahnia trifida & Juncus kraussii Very Open Sedgeland and weeds.	DRY	CD_DMPLD			CLAY	BLACK	SEASINUN
101700	50985	Grevillea dissectifolia	3		2	A	18/10/1998	Open marri woodland. Xanthorrhoea preissii.	DRY	SLOPE	GRANITE		CLA_LOAM	YEL_BRWN	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
101701	50985	Grevillea dissectifolia	3		2	B	18/10/1998	DomSp:Dryandra armata, Dryandra lindleyana, Grevillea pilulifera, Xanth preissii	DRY	OUTCROP	GRANITE		CLA_LOAM	YEL_BRWN	
90748	13086	Grevillea pimeleoides	4		3		14/09/1992	Viminaria juncea, Asterolasia pallida, Hakea trifurcata. Edge of the valley.	MOIST	SLOPE	GRANITE		LOAM	BROWN	
130291	2107	Grevillea thelemanniana	T	CR	2	G	9/01/2015	Site not accessed therefore no habitat data recorded.							
101696	2107	Grevillea thelemanniana	T	CR	1	V	24/10/2014	Condition of habitat is considered 'Degraded' to 'Good'. Occasional Melaleuca rhaphiophylla, Eucalyptus rudis and Acacia saligna over Tall Shrubland of Callitris pyramidalis, Melaleuca viminea, M. acutifolia, M. osullivanii and M.brevifolia over Open Se	MOIST				CLAY_SND	BROWN	SEASINUN
101680	2107	Grevillea thelemanniana	T	CR	1	F	17/08/2021		DRY	FLAT		GRVL_30	SND_LOAM	GREY	WLL_DRND
101682	2107	Grevillea thelemanniana	T	CR	1	H	13/11/2013	Sand over clay.	DRY	FLAT			SAND	BROWN	WLL_DRND
101687	2107	Grevillea thelemanniana	T	CR	1	M	13/11/2013		DRY	FLAT			SAND	BROWN	WLL_DRND
129650	2107	Grevillea thelemanniana	T	CR	1	AA	9/01/2015	Plants located in degraded roadside vegetation.							
129653	2107	Grevillea thelemanniana	T	CR	1	AA	9/01/2015	Plants located in degraded roadside vegetation.							
101681	2107	Grevillea thelemanniana	T	CR	1	G	12/09/2014	Very good condition. Excellent in the centre.	INUNDATE	FLAT			SND_CLAY	BROWN	SEASINUN
113149	2107	Grevillea thelemanniana	T	CR	1	Y	13/09/2012	Herbland of Centrolepis aristata, Utricularia multifida, Philydrella pygmaea, Drosera menziesii subsp. pencillaris, D. menziesii subsp. menziesii, Tribonathes australis and Velleia trinervis. Weeds include *Moraea miniata, *Lotus angustissimus, *Romulea	MOIST	FLAT			SND_LOAM	GREY	SEASINUN

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
101688	2107	Grevillea thelemanniana	T	CR	1	N	9/01/2015	Property not accessed therefore no habitat description recorded.							
101683	2107	Grevillea thelemanniana	T	CR	1	I	16/01/2015	Heath comprising the following dominant species: Callitris pyramidalis, Melaleuca viminea, M.brevifolia, M.acutifolia, Hypocalymma angustifolium and Acacia lasiocarpa. Block is disturbed with patches of good condition heath. Condition is Degraded to Goo	MOIST	FLAT			SCL_LOAM	GREY	
101690	2107	Grevillea thelemanniana	T	CR	1	P	18/10/1990		MOIST	FLAT			CLAY_SND	BROWN	
101693	2107	Grevillea thelemanniana	T	CR	1	S	18/02/2020	Habitat was regenerating from the 2015 fire and consisted of Melaleuca acutifolia, Hypocalymma angustifolium, Acacia lasiocarpa, Grevillea thelemanniana, Callitris pyramidalis, Burchardia bairdiae, Verticordia densiflora and Acanthocarpus preissii.	MOIST	FLAT			CLAY	GREY	SEASINUN
101689	2107	Grevillea thelemanniana	T	CR	1	O	16/01/2015	Heath of Callitris pyramidalis, Hypocalymma angustifolium, Astartea affinis, Melaleuca seriata, M.viminea, Acacia pulchella, Banksia telmatiaea, Grevillea thelemanniana subsp. thelemanniana over Gahnia trifida, Lepidosperma sp. over dried Poaceae and her	MOIST	FLAT			SND_LOAM	YELLOW	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
101684	2107	Grevillea thelemanniana	T	CR	1	J	16/01/2018	This lot is in good to completely degraded condition. Most of the lot is degraded. lots of bare ground. Horses being agisted on the lot (requires investigation) signs of rabbits and significant weed colonisation mainly paddock grasses in the cleared area	MOIST	FLAT			CLAY_SND	BROWN	
101685	2107	Grevillea thelemanniana	T	CR	1	K	7/11/2014								
84892	1469	Haemodorum loratum	3		11		1/11/1995	Dryandra lindleyana, Eremaea fimbriata, Tetraria capillaris, Mesomelaena pseudostygia.		FLAT			SAND	YELLOW	
84900	1469	Haemodorum loratum	3		8		19/11/1984	Roadside strip of Jarrah and Banksia woodland with low shrub understorey.					SAND	GREY	
100099	6686	Halgania corymbosa	3		3	A	16/10/1977	Grows only in deep valleys and near the river.			GRANITE				
100100	6686	Halgania corymbosa	3		3	B	16/10/1977	Grows only in deep valleys and near the river.			GRANITE				
100101	6686	Halgania corymbosa	3		3	C	16/10/1977	Grows only in deep valleys and near the river.			GRANITE				
119969	19272	Johnsonia pubescens subsp. cygnorum	2		7	A	6/11/2019		DRY	FLAT			SAND	GREY	WLL_DRND
119990	19272	Johnsonia pubescens subsp. cygnorum	2		7	B	7/10/2019		DRY	CREST			SAND	GREY	WLL_DRND
119995	19272	Johnsonia pubescens subsp. cygnorum	2		7	G	24/09/2019		DRY	CREST			SAND		WLL_DRND
119993	19272	Johnsonia pubescens subsp. cygnorum	2		7	E	25/09/2019		DRY	CREST			SAND	BLACK	WLL_DRND
119992	19272	Johnsonia pubescens subsp. cygnorum	2		7	D	30/10/2019		DRY	CREST			SAND	GREY	WLL_DRND
119991	19272	Johnsonia pubescens subsp. cygnorum	2		7	C	27/10/2019		DRY						
119994	19272	Johnsonia pubescens subsp. cygnorum	2		7	F	5/10/2019		DRY	CREST			SAND		WLL_DRND
119949	19272	Johnsonia pubescens subsp. cygnorum	2		6		20/09/2019		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
110729	942	Lepidosperma rostratum	T	EN	2	E	16/01/2015	Open Shrubland of Melaleucua acutifolia over low shrubland of Hypocalymma angustifolium, Callitris pyramidalis, Melaleuca viminea, Melaleuca brevifolia and Melaleuca acutifolia over low open shrubland of Grevillea thelemanniana ssp thelemanniana, acacia							
96942	942	Lepidosperma rostratum	T	EN	2	B	13/09/2012	Herbland of Utricularia multifida, Philydrella pygmaea, Brachyscome iberidifolia, Drosera menziesii subsp. pencillaris, Tribonathes australis & Velleia trinervis. Weeds include *Moraea miniata, *Lotus angustissimus, *Romulea rosea, *Briza minor, *Ehrhar	MOIST	FLAT	QUARTZ		CLA_LOAM	BROWN	SEASINUN
96941	942	Lepidosperma rostratum	T	EN	2	A	18/02/2020	The habitat was regenerating after a wildfire in December 2015. Previously the area was described as a Sedge dominated clay pan. Species now dominating before the fire in January 2020 were Melaleuca acutifolia, Verticordia densiflora, Hypocalymma angust	INUNDATE	FL_CLYPN			CLAY_SND	BROWN	
93810	17106	Macarthuria keigheryi	T	EN	10		30/11/2017	Open Marri woodland. Highly degraded. Virtually no understorey present.							
103577	17106	Macarthuria keigheryi	T	EN	5	B	1/04/2014	Pasture weeds present.		FLAT			SAND	GREY	
132249	17106	Macarthuria keigheryi	T	EN	6	E	31/08/2020								
114589	17106	Macarthuria keigheryi	T	EN	6	D	12/09/2023		DRY	FLAT			SAND	GREY	WLL_DRND
103581	17106	Macarthuria keigheryi	T	EN	6	B	23/11/2009						SAND	GREY	
103582	17106	Macarthuria keigheryi	T	EN	6	C	23/11/2009						SAND	GREY	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
103580	17106	Macarthuria keigheryi	T	EN	6	A	23/03/2018	No sign of fire Weeds present Diback present	DRY	FLAT			SAND	GREY	WLL_DRND
93812	17106	Macarthuria keigheryi	T	EN	4		28/09/2006	Banksia woodland. Patersonia occidentalis, Alexgeorgea nitens, Melaleuca seriata.	DRY	FLAT			SAND	GREY	
103578	17106	Macarthuria keigheryi	T	EN	5	C	6/09/2019						SAND	GREY	
103576	17106	Macarthuria keigheryi	T	EN	5	A	22/09/2021		DRY	FLAT	LATERITE	GRVL_10	SAND	YELLOW	WLL_DRND
121069	17106	Macarthuria keigheryi	T	EN	5	D	5/12/2018		DRY					GREY	
103574	17106	Macarthuria keigheryi	T	EN	3	B	20/09/2006	Kingia australis, Stirlingia latifolia, Hibbertia hypericoides, Stipa compressa, Dasypogon bromelifolius.	DRY	FL_PLAIN			SAND	GREY	
103573	17106	Macarthuria keigheryi	T	EN	3	A	25/06/2024	2024 - The vegetation has been impacted by the recent 8 month drought from spring 2023 to early winter 2024, but it appears to be confined to a few species i.e. Allocasuarina fraseriana, Banksia dallanneyi, B. menziesii, Adenanthos cygnorum. Some impact		FLAT			SAND		WLL_DRND
89461	8163	Pithocarpa corymbulosa	3		3		14/04/1996	In Marri woodland, with above species and Hakea sp. and other shrubs.		SLOPE	GRANITE	GRVL_30	LOAM	RED_BRWN	
89460	8163	Pithocarpa corymbulosa	3		2		28/01/1986	Near granite outcrops.			GRANITE				
100588	8163	Pithocarpa corymbulosa	3		7	A	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
100591	8163	Pithocarpa corymbulosa	3		7	D	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
89462	8163	Pithocarpa corymbulosa	3		4		15/09/1996	With above species, and Hemigenia sp. and other shrubs, with very few Corymbia calophylla (Marri).			GRANITE		LOAM_SND	BROWN	
100589	8163	Pithocarpa corymbulosa	3		7	B	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
100590	8163	Pithocarpa corymbulosa	3		7	C	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
89592	11132	Platysace ramosissima	3		4		4/11/1994	Patersonia occidentalis, Dasypogon occidentalis, Dasypogon bromeliifolius, Mesomelaena tetragona.		FLAT			LOAM_SND	GREY	SEASINUN
94013	17606	Schoenus griffinianus	4		5		8/07/2006	On the boundary of Southern River and Ridge Hill Shelf soil and landform units.							
84536	1008	Schoenus pennisetis	3		7		4/11/1995	On edge of wetland.							
89471	8212	Senecio leucoglossus	4		2		14/09/1992			RIDGE	GRANITE		LOAM	YELLOW	
89469	8212	Senecio leucoglossus	4		1		21/05/1992		DRY	OPEN_DPN	GRANITE		LOAM	YELLOW	
89473	8212	Senecio leucoglossus	4		4		1/09/1978		DRY	OPEN_DPN	GRANITE		LOAM	YELLOW	
100542	7756	Stylidium longitubum	4		8	B	31/10/2001	DomSp: Villarsia capitata	MOIST	OD_SWAMP			CLAY		
100541	7756	Stylidium longitubum	4		8	A	31/10/2001	DomSp: Villarsia capitata	MOIST	OD_SWAMP			CLAY		
99156	4540	Tetratheca pilifera	3		8	C	6/09/1999	DomSp: Grevillia bipinnatifida, Xanth preissii, Daviesia horrida, Trymalium ledifolium...	DRY	SLOPE	GRANITE		CLA_LOAM	YEL_BRWN	
99155	4540	Tetratheca pilifera	3		8	B	6/09/1999	DomSp: Grevillia bipinnatifida, Xanth preissii, Daviesia horrida, Trymalium ledifolium...	DRY	SLOPE	GRANITE		CLA_LOAM	YEL_BRWN	
89537	20729	Thelymitra magnifica	T	CR	11		3/11/2011	Soil Type: Sand & Clay loam. Vegetation Classification: 1. Very open Marri Shrubland (Corymbia calophylla) 2. Open Shrubland - Trymalium odoratissimum subsp. odoratissimum, Acacia sp. 3. Weed layer - Watsonia sp.	WTRLOGGD	OD_DRGLN			SAND	GREY	
95302	20729	Thelymitra magnifica	T	CR	9		15/10/2024	No sign of fire	DRY	FLAT	LATERITE	GRVL_30	SND_LOAM	BROWN	WLL_DRND
104442	20729	Thelymitra magnifica	T	CR	4	B	11/10/2024	Marri and white Gums No sign of fire	DRY	SLOPE	LATERITE		SAND	BROWN	WLL_DRND
104441	20729	Thelymitra magnifica	T	CR	4	A	11/10/2024		DRY	SLOPE	GRANITE	GRVL_10	SND_CLAY	BROWN	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
104439	20729	Thelymitra magnifica	T	CR	1	B	9/10/2024	Soil excavation area last burnt in 1961 summer wildfire (56 YSLF), last fire NE of walktrack was a summer wildfire in 1996 (21 YSLF).	DRY	SLOPE	GRANITE	GRVL_10	SND_CLAY	BROWN	WLL_DRND
95299	20729	Thelymitra magnifica	T	CR	3		17/10/2023	Last impacted by a fire during a January 1997 wildfire.	DRY	SLOPE	GRANITE	GRVL_30	CLA_LOAM		WLL_DRND
104445	20729	Thelymitra magnifica	T	CR	5	B	15/10/2024	Marri and white gums and dwarf casuarina trees	DRY	SLOPE	GRANITE	GRVL_10	CLAY_SND	BROWN	WLL_DRND
95301	20729	Thelymitra magnifica	T	CR	8		11/10/2024	No sign of fire	DRY	SLOPE	LATERITE	GRVL_30	CLAY_SND	BROWN	WLL_DRND
104444	20729	Thelymitra magnifica	T	CR	5	A	15/10/2024		DRY	SLOPE	GRANITE	GRVL_30	SND_CLAY	BROWN	WLL_DRND
115010	20729	Thelymitra magnifica	T	CR	6	B	11/10/2024		DRY	SLOPE	LATERITE	GRVL_30	SAND	BROWN	WLL_DRND
95300	20729	Thelymitra magnifica	T	CR	6	A	11/10/2024		DRY	SLOPE	LATERITE	GRVL_30	SAND	BROWN	WLL_DRND
95298	20729	Thelymitra magnifica	T	CR	2		27/10/2022	Wandoo and marri open woodland.	DRY	FLAT	LATERITE	GRVL_30	SND_LOAM	BROWN	WLL_DRND
118909	20729	Thelymitra magnifica	T	CR	10		11/10/2024	Marri & E wandoo No sign of fire	DRY	RIDGE	GRANITE	GRVL_50	SND_LOAM	YEL_BRWN	WLL_DRND
100656	10862	Thelymitra stellata	T	EN	4	B	3/11/2011	Vegetation Classification: 1. Dense Heath Darwinia sp., Verticordia sp., Melaleuca radula 2. Borya sp.	WTRLOGGD	OUTCROP	GRANITE	GRVL_50		BROWN	
100655	10862	Thelymitra stellata	T	EN	4	A	3/11/2011	Vegetation Classification: 1. Dense Heath Darwinia sp., Verticordia sp., Melaleuca radula. 2. Borya sp. Interior in excellent condition, however edges in good condition, as there is weed invasion and there has been dome clearing.	WTRLOGGD	OUTCROP	GRANITE	GRVL_50		BROWN	
89536	10862	Thelymitra stellata	T	EN	22		2/11/2020	Still quite weedy following fire: grasses, Briza maxima. Dense regeneration of Grevillea endlicheriana, Grevillea bipinnatifida and other shrubs.	MOIST	OU_SLOPE	GRANITE	GRVL_10			WLL_DRND
84742	1317	Thysanotus anceps	3		6		23/12/1992				LATERITE	GRVL_30			
84743	1317	Thysanotus anceps	3		7		14/12/1993			SLOPE		GRVL_30			

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
84761	1334	Thysanotus glaucus	4		10		9/12/1990	In low open woodland of Banksia menziesii/B.attenuata. Scattered abundance but not rare.					SAND	YELLOW	
102993	14714	Verticordia lindleyi subsp. lindleyi	4		11	C	4/03/1990			FLAT			LOAM_SND	YELLOW	
102994	14714	Verticordia lindleyi subsp. lindleyi	4		11	D	11/06/1991			FLAT			LOAM_SND	YELLOW	
92667	14714	Verticordia lindleyi subsp. lindleyi	4		26		7/12/1994	Verticordia densiflora, Dryandra nivea, Drosera gigantea, Conostylis festucacea, Tribonanthes australis.					CLAY_SND		
102991	14714	Verticordia lindleyi subsp. lindleyi	4		11	A	4/03/1990			FLAT			LOAM_SND	YELLOW	
102992	14714	Verticordia lindleyi subsp. lindleyi	4		11	B	4/03/1990			FLAT			LOAM_SND	YELLOW	
102997	14714	Verticordia lindleyi subsp. lindleyi	4		11	G	4/04/1990			FLAT			SAND	GREY	SEASINUN
102995	14714	Verticordia lindleyi subsp. lindleyi	4		11	E	4/04/1990			FLAT			SAND	GREY	
102996	14714	Verticordia lindleyi subsp. lindleyi	4		11	F	4/04/1990			FLAT			SAND	GREY	SEASINUN
92654	14714	Verticordia lindleyi subsp. lindleyi	4		13		21/03/1990	Shrubland / sedgeland.		FLAT			SAND	WHITE	
92669	14714	Verticordia lindleyi subsp. lindleyi	4		28		17/03/1997		DRY	SLOPE			SAND	GREY	
90122	12460	Verticordia serrata var. linearis	3		3		10/10/1961								

APPENDIX 4

Atlas of Living Australia Database Search

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/5291343e-fdeb-4a65-8ba5-928f5b96acf5	Gymnorhina tibicen	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Australian Magpie	7889
https://biodiversity.org.au/afd/taxa/8117f68b-5460-4626-8400-e171464e08ad	Corvus coronoides	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Passeriformes	Corvidae	Australian Raven	7822
https://biodiversity.org.au/afd/taxa/1c4dce12-16f6-49ab-b578-0673551214fd	Rhipidura (Sauloprocta) leucophrys	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	Willie Wagtail	7282
https://biodiversity.org.au/afd/taxa/5fed5ecf-2199-4f64-a9f7-90b39f88a90a	Barnardius zonarius	(Shaw, 1805)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Australian Ringneck	6854
https://biodiversity.org.au/afd/taxa/ada6105e-c2de-4b93-9687-8e64d10863a7	Lichmera (Lichmera) indistincta	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Brown Honeyeater	6838
https://biodiversity.org.au/afd/taxa/6ccdb357-d666-4097-b0f6-88bb1a392112	Gavicalis virescens	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Singing Honeyeater	6824
https://biodiversity.org.au/afd/taxa/8204979f-5302-41ea-943f-01d3c420f7bb	Anthochaera (Anthochaera) carunculata	(Shaw, 1790)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Red Wattlebird	6419
https://biodiversity.org.au/afd/taxa/241dd5c6-1235-4eb9-b3d5-a44af6b0d444	Anas (Anas) superciliosa	Gmelin, 1789	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Pacific Black Duck	6417
https://biodiversity.org.au/afd/taxa/9b4ad548-8bb3-486a-ab0a-905506c463ea	Eolophus roseicapilla	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Galah	5710
https://biodiversity.org.au/afd/taxa/ce17b284-d607-496a-992f-f3129bfd3997	Grallina cyanoleuca	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Monarchidae	Magpie-lark	5643
https://biodiversity.org.au/afd/taxa/fe0d4e5e-6bd5-4e46-a77c-00e8cec73410	Zosterops lateralis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Zosteropidae	Silvereye	5005
https://biodiversity.org.au/afd/taxa/f5f5ddd8-ae6a-431b-9e08-3e992b12fa64	Threskiornis moluccus	(Cuvier, 1829)	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Australian White Ibis	4772
https://biodiversity.org.au/afd/taxa/bb53b420-0a1f-4a49-9d1e-2a6154c685a8	Fulica atra	Linnaeus, 1758	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Eurasian Coot	4694
https://biodiversity.org.au/afd/taxa/da002998-b551-4328-ac4e-5e04fc72708b	Phylidonyris (Meliornis) novaehollandiae	(Latham, 1790)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	New Holland Honeyeater	4057
https://biodiversity.org.au/afd/taxa/e3103245-2da1-4cc5-952d-49153f466bbf	Pardalotus (Pardalotinus) striatus	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Passeriformes	Pardalotidae	Striated Pardalote	4021
https://biodiversity.org.au/afd/taxa/3dbe8a1f-e562-42ba-a165-565c0704f8f2	Porphyrio (Porphyrio) porphyrio	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Purple Swamphen	4006
https://biodiversity.org.au/afd/taxa/b6f1a62e-55fa-4fa6-9e08-74003d6b704b	Anas gracilis	Buller, 1869	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Grey Teal	3909
https://biodiversity.org.au/afd/taxa/31944e98-202b-4c14-b480-6508740dde58	Chenonetta jubata	(Latham, 1801)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Australian Wood Duck	3813
https://biodiversity.org.au/afd/taxa/cb748125-0c06-4649-8ed8-e379e81e53c1	Tachybaptus novaehollandiae	(Stephens, 1826)	species	Animalia	Chordata	Aves	Podicipediformes	Podicipedidae	Australasian Grebe	3706
https://biodiversity.org.au/afd/taxa/69c22b10-ff42-4bef-bb0f-88dc01a8f96c	Coracina (Coracina) novaehollandiae	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Passeriformes	Campephagidae	Black-faced Cuckoo-shrike	3647
https://biodiversity.org.au/afd/taxa/97a59c84-af21-4cdc-bac7-a97c5201db42	Rhipidura (Rhipidura) albiscapa	Gould, 1840	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	Grey Fantail	3624
https://biodiversity.org.au/afd/taxa/b5e44fea-a0a2-412b-a1f7-476b3c1e8e03	Gallinula (Gallinula) tenebrosa	Gould, 1846	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Dusky Moorhen	3480
https://biodiversity.org.au/afd/taxa/4e118c73-06a7-4131-bd67-5da5d2d61fd7	Hirundo (Hirundo) neoxena	Gould, 1843	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	Welcome Swallow	3470
https://biodiversity.org.au/afd/taxa/b33b8926-0f03-44ba-b084-a2d3ad149ea0	Crinia glauerti	Loveridge, 1933	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Glauert's Froglet	3358
https://biodiversity.org.au/afd/taxa/75e90438-cf36-403e-9223-a7d4737b1fd1	Gerygone fusca	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Western Gerygone	3285
https://biodiversity.org.au/afd/taxa/f933497e-60d2-4f80-bc5e-08d8b1349c2c	Smicrornis brevirostris	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Weebill	3118
https://biodiversity.org.au/afd/taxa/8fd1977b-9edf-4ddf-b6cf-24a09db4d18c	Egretta novaehollandiae	(Latham, 1790)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	White-faced Heron	3076
https://biodiversity.org.au/afd/taxa/c1d3308d-b6d6-496c-81b0-97c689259d3a	Anhinga novaehollandiae	(Gould, 1847)	species	Animalia	Chordata	Aves	Pelecaniformes	Anhingidae	Australasian Darter	3074
https://biodiversity.org.au/afd/taxa/378bdcd1-f52a-4907-9f71-0541b05437da	Pachycephala (Alisterornis) rufiventris	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Pachycephalidae	Rufous Whistler	3051
https://biodiversity.org.au/afd/taxa/0b7c528a-4104-4a96-853e-05a37c327067	Microcarbo melanoleucos	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Little Pied Cormorant	3036
https://biodiversity.org.au/afd/taxa/1fc76c4d-4830-4129-9b86-1c7e944c3c50	Dacelo (Dacelo) novaeguineae	(Hermann, 1783)	species	Animalia	Chordata	Aves	Coraciiformes	Alcedinidae	Laughing Kookaburra	3029
https://biodiversity.org.au/afd/taxa/34b31e86-7ade-4cba-960f-82a6ae586206	Cacatua (Licmetis) sanguinea	Gould, 1843	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Little Corella	2995
https://biodiversity.org.au/afd/taxa/7d38efed-12ce-4aa3-b51a-67f89b109ded	Petrochelidon (Hylochelidon) nigricans	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	Tree Martin	2865
https://biodiversity.org.au/afd/taxa/d3bf2b8a-e178-4adb-9c5e-bef63c34e032	Spilopelia chinensis	(Scopoli, 1786)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Spotted Turtle-dove	2777
https://biodiversity.org.au/afd/taxa/bbce953c-f9e2-4b59-a9d4-0eb587004879	Litoria adelaidensis	(Gray, 1841)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	Slender Tree Frog	2734
https://biodiversity.org.au/afd/taxa/808f7f5b-f6cd-4677-848a-49315e7babe3	Calyptorhynchus (Calyptorhynchus) banksii	(Latham, 1790)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Red-tailed Black Cockatoo	2716
https://biodiversity.org.au/afd/taxa/485e7fa6-c632-4288-bcdc-ef8890c87646	Limnodynastes dorsalis	(Gray, 1841)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Western Banjo Frog	2581
https://biodiversity.org.au/afd/taxa/c96b19fd-2a54-4361-a5cf-baecf741310e	Phalacrocorax (Phalacrocorax) sulcirostris	(Brandt, 1837)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Little Black Cormorant	2562
https://biodiversity.org.au/afd/taxa/046dd167-e59a-4b0f-b573-fc72de406e85	Tadorna (Casarca) tadornoides	(Jardine & Selby, 1828)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Australian Shelduck	2554
https://biodiversity.org.au/afd/taxa/148208ff-e6ea-40bd-9999-9f1a6b8acc1e	Phylidonyris (Meliornis) niger	(Bechstein, 1811)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-cheeked Honeyeater	2458
https://biodiversity.org.au/afd/taxa/43abe3ea-7ccc-41cc-920f-d9cfa107207e	Pelecanus conspicillatus	Temminck, 1824	species	Animalia	Chordata	Aves	Pelecaniformes	Pelecanidae	Australian Pelican	2393
https://biodiversity.org.au/afd/taxa/09843a8d-0a78-4680-8bf4-bd95dc93ef0e	Spilopelia senegalensis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Laughing Turtle-dove	2297
https://biodiversity.org.au/afd/taxa/681ea214-3788-4cc6-8b97-0b325d6bba6b	Cracticus torquatus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Grey Butcherbird	2272
https://biodiversity.org.au/afd/taxa/66f82bb4-ae71-4543-a99e-35452536c4c8	Purpureicephalus spurius	(Kuhl, 1820)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Red-capped Parrot	2175

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/cf1b96b7-7175-44d4-8ffe-ad3fc07164e6	Litoria moorei	(Copland, 1957)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	Western Green And Golden Bell Frog	2046
https://biodiversity.org.au/afd/taxa/e848916c-5f2d-43ef-8cba-8e32a9034377	Cygnus atratus	(Latham, 1801)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Black Swan	2022
https://biodiversity.org.au/afd/taxa/aa581ac7-f29a-4e72-be0d-48a5e0a64de3	Acanthiza (Geobasileus) chrysorrhoa	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Yellow-rumped Thornbill	2005
https://biodiversity.org.au/afd/taxa/e75f846e-944e-431e-8c43-b376ac1e2b87	Malurus (Malurus) splendens	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Splendid Fairy-wren	1946
https://biodiversity.org.au/afd/taxa/3dd39f84-1293-4c04-ac87-2474f5c887b0	Platalea (Platibis) flavipes	Gould, 1838	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Yellow-billed Spoonbill	1927
https://biodiversity.org.au/afd/taxa/b0017049-e751-4a36-af4c-652fb6334891	Aythya (Nyroca) australis	(Eyton, 1838)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Hardhead	1851
https://biodiversity.org.au/afd/taxa/143cc9f0-bc3c-45b7-8e1c-21fbe9319bba	Ardea alba	Linnaeus, 1758	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Great Egret	1847
https://biodiversity.org.au/afd/taxa/7da6fd6f-c180-4e68-b9e7-70d02e6f8448	Phaps (Phaps) chalcoptera	(Latham, 1790)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Common Bronzewing	1775
https://biodiversity.org.au/afd/taxa/bf8abc11-ebe1-4f1a-9950-805e5bfcf90a	Columba (Columba) livia	Gmelin, 1789	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Rock Dove	1746
https://biodiversity.org.au/afd/taxa/51829a26-3d88-4238-be5b-354de5174292	Acrocephalus (Acrocephalus) australis	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Acrocephalidae	Australian Reed Warbler	1582
https://biodiversity.org.au/afd/taxa/bdf18035-665d-47a1-bb8b-789aaf62223e	Spatula rhynchotis	Latham, 1801	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Australasian Shoveler	1580
https://biodiversity.org.au/afd/taxa/4072e7ce-7ca4-4112-a9fa-c49a0f0ddd4d	Zanda latirostris	Carnaby, 1948	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Short-billed Black-cockatoo	1561
https://biodiversity.org.au/afd/taxa/c517dae5-6bf7-48e8-8501-53e8b87e89a4	Trichoglossus haematodus	(Linnaeus, 1771)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Rainbow Lorikeet	1533
https://biodiversity.org.au/afd/taxa/c319dbaf-a363-4853-b333-75f14c47fc82	Threskiornis spinicollis	(Jameson, 1835)	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Straw-necked Ibis	1464
https://biodiversity.org.au/afd/taxa/ee5017ac-06bc-41ae-ac7f-9f6311b8d2e6	Crinia georgiana	Tschudi, 1838	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Tschudi's Froglet	1445
https://biodiversity.org.au/afd/taxa/e2070aa5-7ab4-41a8-9b41-b3f0c2e26390	Chroicocephalus novaehollandiae	(Stephens, 1826)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Silver Gull	1386
https://biodiversity.org.au/afd/taxa/655adcf7-5bb5-4f94-a0fb-0d5b2f75fba8	Oxyura australis	Gould, 1837	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Blue-billed Duck	1182
https://biodiversity.org.au/afd/taxa/ed591036-06d9-46a3-840f-414b993a4a04	Malacorhynchus membranaceus	(Latham, 1801)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Pink-eared Duck	1157
https://biodiversity.org.au/afd/taxa/135cc880-f84e-4470-a1c1-fbce3a0ed534	Todiramphus (Todiramphus) sanctus	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Coraciiformes	Alcedinidae	Sacred Kingfisher	1128
https://biodiversity.org.au/afd/taxa/8bbafeb6-72e7-4af8-b602-5f3f5e7eaed6	Heleioporus eyrei	(Gray, 1845)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Moaning Frog	1086
https://biodiversity.org.au/afd/taxa/9f9ddea7-8c74-46df-8ed9-3233d681e354	Merops (Merops) ornatus	Latham, 1801	species	Animalia	Chordata	Aves	Coraciiformes	Meropidae	Rainbow Bee-eater	1059
https://biodiversity.org.au/afd/taxa/29472c00-22e3-42c3-b562-107bd28d1bdc	Phalacrocorax (Phalacrocorax) carbo	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Great Cormorant	1045
https://biodiversity.org.au/afd/taxa/b4c2ec8d-918d-4fb4-8ef9-f6d5d3bbceda	Poodytes gramineus	(Gould, 1845)	species	Animalia	Chordata	Aves	Passeriformes	Locustellidae	Little Grassbird	1034
https://biodiversity.org.au/afd/taxa/ae8ff359-0981-4618-86a8-e64fb63b7adc	Himantopus himantopus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Recurvirostridae	Black-winged Stilt	1003
https://biodiversity.org.au/afd/taxa/a7b00ef0-108f-44d9-bf89-a062c8674335	Ocyphaps lophotes	(Temminck, 1822)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Crested Pigeon	1001
https://biodiversity.org.au/afd/taxa/8f2d4aeb-50eb-438f-a145-5f12e356ffd8	Dicaeum (Dicaeum) hirundinaceum	(Shaw, 1792)	species	Animalia	Chordata	Aves	Passeriformes	Dicaeidae	Mistletoebird	951
https://biodiversity.org.au/afd/taxa/1441c509-faf3-405e-a534-c51cccc4d720	Thalasseus bergii	(Lichtenstein, 1823)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Crested Tern	915
https://biodiversity.org.au/afd/taxa/31113d80-ed4f-4bb0-9a65-48080e4c6dd1	Haliastur sphenurus	(Vieillot, 1818)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Whistling Kite	882
https://biodiversity.org.au/afd/taxa/031b2b69-e9fc-44c6-9df9-03c1470d5ec3	Sericornis (Sericornis) frontalis	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	White-browed Scrubwren	867
https://biodiversity.org.au/afd/taxa/29cbe213-85a4-46b7-b373-4c503231f299	Elseyornis melanops	(Vieillot, 1818)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Black-fronted Dotterel	855
https://biodiversity.org.au/afd/taxa/d470af0d-c131-48f7-961d-a55686e6a185	Accipiter (Leucospiza) fasciatus	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Brown Goshawk	846
https://biodiversity.org.au/afd/taxa/59b7c7f5-1d07-4ab0-90ef-9be0885de1dd	Anthochaera (Anellobia) lunulata	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Western Wattlebird	818
https://biodiversity.org.au/afd/taxa/da1e1bf2-3684-4eea-b579-1d83507c020d	Hydroprogne caspia	(Pallas, 1770)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Caspian Tern	761
https://biodiversity.org.au/afd/taxa/500e1350-1d00-4f1c-b9d3-d02b949cdd47	Acanthiza (Acanthiza) apicalis	Gould, 1847	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Red-rumped Tit	727
https://biodiversity.org.au/afd/taxa/0242155c-714e-4f53-b973-333aab1343fb	Acanthorhynchus superciliosus	Gould, 1837	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Western Spinebill	716
https://biodiversity.org.au/afd/taxa/8f6b91ae-4019-490c-a133-73acb05d25e8	Falco (Tinnunculus) cenchroides	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Nankeen Kestrel	702
https://biodiversity.org.au/afd/taxa/e7ffc466-9c5b-4dbf-86e6-00b674dd8063	Megachile (Hackeriapis) tosticauda	Cockerell, 1912	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	689
https://biodiversity.org.au/afd/taxa/dec8c88f-7f20-4f30-b2af-c75d09fb066c	Nycticorax caledonicus	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Nankeen Night-heron	644
https://biodiversity.org.au/afd/taxa/498925e8-5323-4307-bb97-6eaf46076629	Crinia insignifera	Moore, 1954	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Sign-bearing Froglet	639
https://biodiversity.org.au/afd/taxa/30edbd1a-6367-4d84-87f1-3566e6cc54d6	Pachycephala (Pachycephala) pectoralis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Pachycephalidae	Golden Whistler	589
https://biodiversity.org.au/afd/taxa/23a8017a-3a2b-4a52-8ca6-d168bf52659c	Pandion haliaetus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Osprey	584
https://biodiversity.org.au/afd/taxa/e382a431-801d-4a24-9a5a-03a262be9279	Elanus axillaris	(Latham, 1801)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Black-shouldered Kite	567

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/4b7b9c4a-1b60-4a43-ab70-b57bfc790138	Acanthiza (Geobasileus) inornata	Gould, 1841	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Western Thornbill	564
https://biodiversity.org.au/afd/taxa/5254fe03-630b-44b2-9233-df51a7b8f25f	Pardalotus (Pardalotus) punctatus	(Shaw, 1792)	species	Animalia	Chordata	Aves	Passeriformes	Pardalotidae	Spotted Pardalote	556
https://biodiversity.org.au/afd/taxa/967549e7-7fa9-4770-b86e-5e3520d3c43d	Chelodina (Macrochelodina) oblonga	Gray, 1841	species	Animalia	Chordata	Reptilia	Testudines	Chelidae	Northern Snake-necked Turtle	529
https://biodiversity.org.au/afd/taxa/53e2d734-5e33-44c2-92f7-edf444377380	Biziura lobata	(Shaw, 1796)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Musk Duck	525
https://biodiversity.org.au/afd/taxa/70a29d57-3aea-43e3-b675-98c01960979d	Falco (Falco) longipennis	Swainson, 1838	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Australian Hobby	518
https://biodiversity.org.au/afd/taxa/1988c921-43bd-4390-b441-8abc4b26b477	Hypotaenidia philippensis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Buff-banded Rail	505
https://biodiversity.org.au/afd/taxa/947595db-244f-4160-b30d-0473b37d857b	Poliocephalus poliocephalus	(Jardine & Selby, 1827)	species	Animalia	Chordata	Aves	Podicipediformes	Podicipedidae	Hoary-headed Grebe	469
https://biodiversity.org.au/afd/taxa/21a09d44-a9eb-4a94-a39e-6f7cfeb0f403	Anas (Anas) platyrhynchos	Linnaeus, 1758	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Common Mallard	448
https://biodiversity.org.au/afd/taxa/a3e5376b-f9e6-4bdf-adae-1e7add9f5c29	Petroica (Petroica) boodang	(Lesson, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Scarlet Robin	444
https://biodiversity.org.au/afd/taxa/c568921e-f800-4a6e-b88c-6d409def1e20	Circus approximans	Peale, 1848	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Swamp Harrier	411
https://biodiversity.org.au/afd/taxa/13850efc-183d-421c-bf60-8015ace4e570	Pseudonaja affinis	GÃ¼nther, 1872	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Dugite	384
https://biodiversity.org.au/afd/taxa/e53a981f-22da-4f2f-a489-85c3ee79473e	Anthus (Anthus) novaeseelandiae	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Passeriformes	Motacillidae	Australian Pipit	361
https://biodiversity.org.au/afd/taxa/e948fd99-7550-4d1b-866a-75666cc61f96	Heteroscenes pallidus	(Latham, 1801)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Pallid Cuckoo	361
https://biodiversity.org.au/afd/taxa/37b96920-e8bf-499c-9967-b6911fedff51	Egretta garzetta	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Little Egret	345
https://biodiversity.org.au/afd/taxa/1268648b-451b-4cb1-b931-ef54dcab9ba0	Cacatua (Licmetis) tenuirostris	(Kuhl, 1820)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Long-billed Corella	330
https://biodiversity.org.au/afd/taxa/408ee81c-6558-4ddf-b732-f9ad7d09f1ae	Cacomantis (Vidgenia) flabelliformis	(Latham, 1801)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Fan-tailed Cuckoo	327
https://biodiversity.org.au/afd/taxa/7af45089-4a0f-4303-a417-1708623809af	Colluricincla (Colluricincla) harmonica	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Pachycephalidae	Grey Shrike-thrush	313
https://biodiversity.org.au/afd/taxa/abeb5bf8-d03e-4b33-a1ea-bcfc0695102c	Actitis hypoleucos	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Common Sandpiper	309
https://biodiversity.org.au/afd/taxa/02725816-5d59-41e1-aa00-f7cc41cd66dc	Accipiter (Paraspizias) cirrocephalus	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Collared Sparrowhawk	292
https://biodiversity.org.au/afd/taxa/853662a7-5a01-4a5f-8f17-347f9166f7bb	Malurus (Leggeornis) assimilis	North, 1901	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Purple-backed Fairy-wren	272
https://id.biodiversity.org.au/taxon/apni/51742826	Chrysanthemoides monilifera	(L.) Norl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Boneseed	269
https://biodiversity.org.au/afd/taxa/b47a4ecd-416b-458c-886a-1dc3490e8175	Hieraaetus (Hieraaetus) morphnoides	(Gould, 1841)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Little Eagle	265
https://biodiversity.org.au/afd/taxa/b26690fc-d652-4777-9ead-3421170129ed	Stagonopleura (Zonaeginthus) oculata	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Aves	Passeriformes	Estrildidae	Red-eared Firetail	259
https://biodiversity.org.au/afd/taxa/320aeab1-aead-4b82-a580-8cd3ae99fdef	Artamus (Angroyan) cyanopterus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Dusky Woodswallow	258
https://biodiversity.org.au/afd/taxa/083b413f-8746-4788-8dc1-3da495d78a79	Falco (Hierofalco) peregrinus	Tunstall, 1771	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Peregrine Falcon	251
https://id.biodiversity.org.au/taxon/apni/51298304	Hibbertia hypericoides	(DC.) Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Yellow Buttercups	239
https://biodiversity.org.au/afd/taxa/715a2874-1942-4762-866c-1194990e7a91	Lophoictinia isura	(Gould, 1838)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Square-tailed Kite	220
https://biodiversity.org.au/afd/taxa/23e2ccef-06b0-4749-abc6-d8a710b94f69	Aquila (Uroaetus) audax	(Latham, 1801)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Wedge-tailed Eagle	217
https://biodiversity.org.au/afd/taxa/48a303d7-ec2e-4c00-aa20-9f9d3a1b0b30	Crinia pseudinsignifera	Main, 1957	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Bleating Froglet	214
https://biodiversity.org.au/afd/taxa/cff21565-2bc4-4a67-8c0c-600ae7c10fd8	Zanda baudinii	Lear, 1832	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Long-billed Black-cockatoo	212
https://biodiversity.org.au/afd/taxa/8bf4b8b0-f432-4e9d-8ea6-08fc20c8090c	Daphoenositta (Neositta) chrysoptera	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Neosittidae	Varied Sittella	200
https://biodiversity.org.au/afd/taxa/cf8e02dd-2a6e-41dc-b14b-0e446444250a	Ardea pacifica	Latham, 1801	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	White-necked Heron	200
https://biodiversity.org.au/afd/taxa/d39efcab-9136-45e4-b56b-64691beabbdd	Apis (Apis) mellifera	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Honey Bee	191
https://id.biodiversity.org.au/node/apni/2892673	Corymbia calophylla	(Lindl.) K.D.Hill & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Marri	190
https://biodiversity.org.au/afd/taxa/12efe8e2-13c3-4551-8c7c-2fd6923b0d9e	Platycercus (Violania) icterotis	(Temminck & Kuhl, 1820)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Western Rosella	186
https://biodiversity.org.au/afd/taxa/31f37401-664a-4ec0-beb6-3ee7dcc2cd8b	Zapornia tabuensis	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Spotless Crake	181
https://id.biodiversity.org.au/node/apni/2894796	Grevillea bipinnatifida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Fuchsia Grevillea	181
https://biodiversity.org.au/afd/taxa/10dbd908-00f3-4ec2-9a9c-a2fd4782eaf1	Petroica (Petroica) goodenovii	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Red-capped Robin	180
https://id.biodiversity.org.au/taxon/apni/51287044	Acacia pulchella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Prickly Moses	175
https://biodiversity.org.au/afd/taxa/dc6cf25d-443c-4eaf-a627-d16ad42f69fb	Malurus (Leggeornis) elegans	Gould, 1837	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Red-winged Fairy-wren	174
https://biodiversity.org.au/afd/taxa/2869ce8a-8212-46c2-8327-dfb7fabb8296	Vulpes vulpes	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Carnivora	Canidae	Fox	168

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/3e5533e8-fa42-49f0-bd17-134bc566a50f	Lipotriches (Austronomia) flavoviridis	(Cockerell, 1905)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	168
https://biodiversity.org.au/afd/taxa/bf5d2694-d652-423b-b812-ff2b38a4abae	Tiliqua rugosa	(Gray, 1825)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Shingle-back	164
https://biodiversity.org.au/afd/taxa/55994a9e-8ba7-4ff9-89a2-e22586ab25d1	Phalacrocorax (Phalacrocorax) varius	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Pied Cormorant	163
https://biodiversity.org.au/afd/taxa/f0a6a2c3-adad-4c57-9cae-17956131ecf0	Gliciphila melanops	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Tawny-crowned Honeyeater	163
https://biodiversity.org.au/afd/taxa/fd5d306f-a615-4e51-a9bc-8e0cb6785cab	Isoodon fusciventer	(J.E. Gray, 1841)	species	Animalia	Chordata	Mammalia	Peramelemorphia	Peramelidae	Southwestern Brown Bandicoot	163
https://biodiversity.org.au/afd/taxa/305ba0b6-2dee-4b8e-a336-34d998a34635	Neobatrachus pelobatoides	(Werner, 1914)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Humming Frog	162
https://id.biodiversity.org.au/taxon/apni/51440932	Caladenia flava	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Cowslip Orchid	162
https://biodiversity.org.au/afd/taxa/99e4518d-7877-46c8-a809-7e4e4d5bad81	Chalcites lucidus	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Shining Bronze-cuckoo	158
https://biodiversity.org.au/afd/taxa/66e27d5a-5cfe-422a-8cb3-06163cfd11fc	Urodacus novaehollandiae	Peters, 1861	species	Animalia	Arthropoda	Arachnida	Scorpiones	Urodacidae		157
https://biodiversity.org.au/afd/taxa/e8d7b862-1d56-4d27-84a1-937f7915a0de	Vanellus (Lobivanellus) tricolor	(Vieillot, 1818)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Banded Lapwing	157
https://id.biodiversity.org.au/node/apni/2903276	Darwinia citriodora	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Lemon-scented Darwinia	157
https://id.biodiversity.org.au/node/apni/2916495	Hakea lissocarpha	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Honey Bush	156
https://id.biodiversity.org.au/node/apni/5040372	Banksia dallanneyi	A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		156
https://id.biodiversity.org.au/taxon/apni/51437102	Lechenaultia biloba	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Blue Leschenaultia	147
https://biodiversity.org.au/afd/taxa/856ed4e8-dbcf-487f-80c8-9c78591d2ff6	Ninox (Ninox) novaeseelandiae	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Strigiformes	Strigidae	Southern Boobook	146
https://id.biodiversity.org.au/node/apni/2890986	Hovea pungens	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Devils Pins	145
https://biodiversity.org.au/afd/taxa/68fc5ba7-463f-4a86-8314-e42a5a8d0455	Ninox (Ninox) boobook	(Latham, 1801)	species	Animalia	Chordata	Aves	Strigiformes	Strigidae	Southern Boobook	144
https://id.biodiversity.org.au/taxon/apni/51294930	Petrophile biloba	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Granite Petrophile	141
https://biodiversity.org.au/afd/taxa/60bafeba-eee1-46b7-a90c-718d3dd8d994	Christinus marmoratus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Marbled Gecko	139
https://biodiversity.org.au/afd/taxa/fb187fec-d632-46cc-9250-f3ea45892080	Cryptoblepharus buchananii	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Buchanan's Snake-eyed Skink	139
https://id.biodiversity.org.au/node/apni/2906510	Grevillea pilulifera	(Lindl.) Druce	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Woolly-flowered Grevillea	139
https://id.biodiversity.org.au/taxon/apni/51283527	Drosera collina	(N.G.Marchant & Lowrie) Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		138
https://id.biodiversity.org.au/node/apni/2895692	Hypocalymma angustifolium	(Endl.) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	White Myrtle	137
https://id.biodiversity.org.au/taxon/apni/51407862	Pheladenia deformis	(R.Br.) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bluebeard Orchid	134
https://id.biodiversity.org.au/node/apni/2905888	Xanthorrhoea preissii	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae	Grasstree	130
https://id.biodiversity.org.au/node/apni/2912917	Burchardia congesta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Milkmaids	127
https://biodiversity.org.au/afd/taxa/8bec5cc6-ac31-4d23-9df3-856034968af9	Podargus strigoides	(Latham, 1801)	species	Animalia	Chordata	Aves	Caprimulgiformes	Podargidae	Tawny Frogmouth	126
https://biodiversity.org.au/afd/taxa/95efb4b0-67a8-4093-8bda-d55b2fa836be	Melithreptus (Melithreptus) lunatus	(Vieillot, 1802)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-naped Honeyeater	125
https://biodiversity.org.au/afd/taxa/ab8816d0-2599-4813-a4c7-00d45d0c7ed0	Cacatua (Licmetis) pastinator	(Gould, 1841)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Western Corella	124
https://biodiversity.org.au/afd/taxa/0ccbba45-af08-484a-8aaa-ff983ca3a633	Melithreptus (Melithreptus) chloropsis	Gould, 1848	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Gilbert's Honeyeater	123
https://id.biodiversity.org.au/node/apni/2911572	Jacaranda mimosifolia	D.Don	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Jacaranda	122
https://biodiversity.org.au/afd/taxa/b7013071-0a6a-4fd7-a084-0b0d3f473828	Porzana (Porzana) fluminea	Gould, 1843	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Australian Spotted Crake	121
https://id.biodiversity.org.au/taxon/apni/51294830	Isopogon dubius	(R.Br.) Druce	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Pincushion Coneflower	120
https://biodiversity.org.au/afd/taxa/f29f01e6-0bfe-4621-b068-42dac6c758dc	Petrochelidon (Petrochelidon) ariel	(Gould, 1842)	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	Fairy Martin	119
https://id.biodiversity.org.au/node/apni/2905076	Verticordia huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Variegated Featherflower	119
https://biodiversity.org.au/afd/taxa/efb44a70-3223-4d7c-99df-889e61f0a8a2	Anthoglossa nigrocinctus	Cockerell, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		118
https://id.biodiversity.org.au/node/apni/2895622	Lambertia multiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Many-flowered Honeysuckle	116
https://biodiversity.org.au/afd/taxa/3350e8be-b603-46e0-95c3-2b355983adc8	Lialis burtonis	Gray, 1835	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Burton's Snake-lizard	115
https://id.biodiversity.org.au/node/apni/2891077	Hakea trifurcata	(Sm.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Two-leaf Hakea	115
https://id.biodiversity.org.au/taxon/apni/51283539	Drosera drummondii	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		115
https://id.biodiversity.org.au/taxon/apni/51445303	Banksia sessilis	(Knight) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		115

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2893218	Allocasuarina humilis	(Otto & A.Dietr.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Dwarf Sheoak	114
https://id.biodiversity.org.au/node/apni/2900921	Anigozanthos manglesii	D.Don	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Red And Green Kangaroo Paw	113
https://id.biodiversity.org.au/taxon/apni/51414264	Thelymitra crinita	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blue Lady Orchid	113
https://biodiversity.org.au/afd/taxa/692effa3-b719-495f-a86f-ce89e2981652	Oryctolagus cuniculus	(Linnaeus, 1758)	species	Animalia	Chordata	Mammalia	Lagomorpha	Leporidae	Rabbit	112
https://biodiversity.org.au/afd/taxa/c77dbdfb-92fe-45a6-bf0d-817fc740e4a4	Heleioporus barycragus	Lee, 1967	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Hooting Frog	110
https://biodiversity.org.au/afd/taxa/2c33a1fd-34f4-48ec-9ae6-38b51f2aa7ea	Cacatua (Cacatua) galerita	(Latham, 1790)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Sulphur-crested Cockatoo	108
https://biodiversity.org.au/afd/taxa/040c3c37-fc42-4b56-8c9d-5fcf9bf78985	Exoneura (Exoneura) pictifrons	Alfken, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae		107
https://biodiversity.org.au/afd/taxa/59d67add-ba69-4640-ba80-3a735a8d171e	Orthetrum caledonicum	(Brauer, 1865)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Blue Skimmer	107
https://biodiversity.org.au/afd/taxa/e9b141fb-9c47-46a3-b631-39b175a2cd74	Macropus fuliginosus	(Desmarest, 1817)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Western Grey Kangaroo	106
https://id.biodiversity.org.au/taxon/apni/51404181	Diuris brumalis	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Winter Donkey Orchid	106
https://biodiversity.org.au/afd/taxa/3d2396a0-b532-410a-87e7-d1fe3ab497f6	Calidris (Ereunetes) ruficollis	(Pallas, 1776)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Red-necked Stint	105
https://biodiversity.org.au/afd/taxa/af327fdd-3604-4fde-b911-ba0150407425	Pieris rapae	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Cabbage White Butterfly	105
https://id.biodiversity.org.au/node/apni/2898292	Gladiolus caryophyllaceus	(Burm.f.) Poir.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Wild Gladiolus	104
https://id.biodiversity.org.au/node/apni/2907581	Cristonia biloba	(Benth.) J.H.Ross	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		103
https://id.biodiversity.org.au/node/apni/2912367	Hardenbergia comptoniana	(Andrews) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Western Australian Coral-pea	102
https://id.biodiversity.org.au/taxon/apni/51311308	Stylidium affine	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Queen Triggerplant	100
https://biodiversity.org.au/afd/taxa/02010b7d-d0ed-4e2a-83a0-012920e8dfaf	Lipotriches (Austronomia) australica	(Smith, 1875)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	99
https://id.biodiversity.org.au/node/apni/2889663	Nuytsia floribunda	(Labill.) R.Br. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Western Australian Christmas Tree	99
https://id.biodiversity.org.au/node/apni/2899364	Daviesia horrida	Preiss ex Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Prickly Bitter-pea	98
https://id.biodiversity.org.au/node/apni/2915386	Bossiaea eriocarpa	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Brown Pea	98
https://id.biodiversity.org.au/node/apni/2895730	Hovea trisperma	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Hovea	97
https://id.biodiversity.org.au/taxon/apni/51291410	Neurachne alopecuroidea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fox-tail Mulga-grass	97
https://id.biodiversity.org.au/node/apni/2886300	Philotheca spicata	(A.Rich.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Pepper And Salt	96
https://id.biodiversity.org.au/node/apni/2898257	Dioscorea hastifolia	Nees	species	Plantae	Charophyta	Equisetopsida	Dioscoreales	Dioscoreaceae	Warrine	96
https://biodiversity.org.au/afd/taxa/b8f3b62d-175f-4be5-9c81-2700dd97061d	Valanga irregularis	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Giant Grasshopper	95
https://id.biodiversity.org.au/node/apni/2896832	Petrophile linearis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Pixie Mops	95
https://id.biodiversity.org.au/node/apni/2903293	Stylidium recurvum	Graham	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		95
https://id.biodiversity.org.au/node/apni/2907698	Jacksonia floribunda	Endl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		95
https://biodiversity.org.au/afd/taxa/e450c479-5de5-483b-8391-85e0f2e1519b	Pseudophryne guentheri	Boulenger, 1882	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Gunther's Toadlet	94
https://id.biodiversity.org.au/node/apni/2915372	Conospermum undulatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wavyleaved Smokebush	94
https://biodiversity.org.au/afd/taxa/4491debc-214f-46a2-95cf-572fe0150d0d	Tribonyx ventralis	(Gould, 1837)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Black-tailed Native-hen	93
https://biodiversity.org.au/afd/taxa/618a2c4c-ddf2-4042-a6a7-34a3e893c219	Anthochaera (Anellobia) chrysoptera	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Little Wattlebird	93
ALA_DR24112_263	Cairina moschata		species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Muscovy Duck	92
https://id.biodiversity.org.au/taxon/apni/51269054	Ursinia anthemoides	(L.) Poir.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Ursinia	92
https://biodiversity.org.au/afd/taxa/da100481-e4a7-4d6e-8535-89a748cf52ad	Plegadis falcinellus	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Glossy Ibis	91
https://biodiversity.org.au/afd/taxa/2bb473e2-e048-4722-8a26-afc6fd791eb6	Megachile (Eutricharaea) obtusa	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	90
https://id.biodiversity.org.au/node/apni/2897960	Banksia menziesii	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Firewood Banksia	90
https://id.biodiversity.org.au/node/apni/2920210	Stirlingia latifolia	(R.Br.) Steud.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Blueboy	90
https://biodiversity.org.au/afd/taxa/61dcd27a-101e-459a-b1e1-64fdd6f9b41e	Megachile aurifrons	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	88
https://biodiversity.org.au/afd/taxa/6c3c2da2-508b-43c4-b0df-c69a99c0aae0	Artamus (Angroyan) cinereus	Vieillot, 1817	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Black-faced Woodswallow	88
https://id.biodiversity.org.au/node/apni/2906396	Conostylis setosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	White Cottonhead	88
https://id.biodiversity.org.au/node/apni/2921182	Hakea undulata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wavy-leaved Hakea	88
https://biodiversity.org.au/afd/taxa/fd928615-5613-47eb-9cd4-7eb8e30a4993	Pluvialis squatarola	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Grey Plover	87
https://id.biodiversity.org.au/taxon/apni/51302290	Eucalyptus marginata	Donn ex Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Jarrah	87
https://id.biodiversity.org.au/taxon/apni/51434997	Drosera macrantha	Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Bridal Rainbow	87
https://biodiversity.org.au/afd/taxa/dd8852f7-9903-4222-b596-7ccce70aaa33	Anas (Nettion) castanea	(Eyton, 1838)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Chestnut Teal	86
https://id.biodiversity.org.au/node/apni/2893288	Phyllanthus calycinus	Labill.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Snowdrop Spurge	86

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2912897	Chorizema dicksonii	Graham	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Yellow-eyed Flame Pea	86
https://id.biodiversity.org.au/node/apni/2887877	Grevillea endlicheriana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spindly Grevillea	85
https://id.biodiversity.org.au/node/apni/2894215	Drosera glanduligera	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Scarlet Sundew	85
https://id.biodiversity.org.au/node/apni/2916661	Stylidium repens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Matted Triggerplant	85
https://id.biodiversity.org.au/node/apni/2904580	Patersonia occidentalis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Long Purple-flag	84
https://biodiversity.org.au/afd/taxa/10f5404c-c891-4051-871c-8b700b0e4a46	Latrodectus hasseltii	Thorell, 1870	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Redback Spider	83
https://biodiversity.org.au/afd/taxa/1ab53a5f-489e-4e45-98d2-569cc29b9e18	Gehyra variegata	(DumÃ©ril & Bibron, 1836)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Tree Dtella	83
https://id.biodiversity.org.au/node/apni/2892177	Stypandra glauca	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Nodding Grass-lily	83
https://id.biodiversity.org.au/node/apni/2896447	Tripterococcus brunonis	Endl.	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae	Winged Stackhousia	83
https://id.biodiversity.org.au/node/apni/2899939	Banksia armata	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		83
https://id.biodiversity.org.au/node/apni/2912492	Conostylis setigera	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bristly Cottonhead	83
https://biodiversity.org.au/afd/taxa/47bfba19-aed5-4e08-a656-d10642969fa9	Mictis profana	(Fabricius, 1803)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coreidae	Crusader Bug	82
https://biodiversity.org.au/afd/taxa/92358f59-80ae-482f-8979-5679b23e92cc	Lalage (Lalage) tricolor	(Swainson, 1825)	species	Animalia	Chordata	Aves	Passeriformes	Campephagidae	White-winged Triller	82
https://id.biodiversity.org.au/node/apni/2905053	Acacia alata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Winged Wattle	82
https://id.biodiversity.org.au/node/apni/7238218	Kennedia coccinea	(Curtis) Vent.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Coral Vine	82
https://biodiversity.org.au/afd/taxa/3a343e36-aaaf-44c7-aacc-1c509b3a4c32	Austracantha minax	(Thorell, 1859)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Jewel Spider	81
https://id.biodiversity.org.au/node/apni/2898215	Thysanotus manglesianus	Kunth	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Fringed Lily	81
https://id.biodiversity.org.au/node/apni/2901052	Ptilotus manglesii	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Pom Poms	81
https://id.biodiversity.org.au/node/apni/2920604	Gompholobium tomentosum	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hairy Yellow Pea	81
https://id.biodiversity.org.au/taxon/apni/51302262	Calothamnus quadrifidus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Common Net Bush	81
https://id.biodiversity.org.au/taxon/apni/51435886	Daviesia decurrens	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Thorny Bitter-pea	81
https://id.biodiversity.org.au/node/apni/2908064	Briza maxima	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Large Quaking-grass	80
https://id.biodiversity.org.au/node/apni/2917455	Verticordia acerosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		80
https://biodiversity.org.au/afd/taxa/629e60e2-9277-4861-9a03-614486db9c33	Megachile (Eutricharaea) chrysopyga	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	79
https://biodiversity.org.au/afd/taxa/d6156ed3-bda2-42d6-a948-07d94c7e6559	Chalcites basalis	(Horsfield, 1821)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Horsfield's Bronze-cuckoo	79
https://id.biodiversity.org.au/node/apni/2915895	Actinotus leucocephalus	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Flannel Flower	79
https://biodiversity.org.au/afd/taxa/d792ddc0-bdc2-4764-ab9c-ea9e43cd586e	Tringa (Glottis) nebularia	(Gunnerus, 1767)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Common Greenshank	78
https://id.biodiversity.org.au/node/apni/2893022	Kennedia prostrata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Scarlet Runner	78
https://id.biodiversity.org.au/node/apni/2903256	Mesomelaena tetragona	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Semaphore Sedge	78
https://id.biodiversity.org.au/node/apni/2903772	Andersonia lehmanniana	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		78
https://id.biodiversity.org.au/node/apni/2887966	Sphaerolobium medium	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		77
https://id.biodiversity.org.au/node/apni/2888259	Dampiera linearis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Wedge-leaved Dampiera	77
https://id.biodiversity.org.au/node/apni/2903906	Olearia paucidentata	(Steetz) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Autumn Scrub Daisy	77
https://id.biodiversity.org.au/node/apni/2917378	Gompholobium polymorphum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		76
https://id.biodiversity.org.au/taxon/apni/51399140	Caladenia longicauda	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Spider Orchid	76
https://biodiversity.org.au/afd/taxa/a390a6d9-ca4f-459f-8959-e9305918590e	Eopsaltria (Eopsaltria) griseogularis	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Western Yellow Robin	75
https://id.biodiversity.org.au/node/apni/2911836	Babingtonia camphorosmae	(Endl.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		75
https://id.biodiversity.org.au/node/apni/2916273	Trachymene pilosa	Sm.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Dwarf Trachymene	75
https://id.biodiversity.org.au/node/apni/2911888	Stylidium hispidum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	White Butterfly Triggerplant	74
https://biodiversity.org.au/afd/taxa/0e041a24-4acb-4ce7-be6f-70d74dad88f4	Missulena granulosa	(O.P.-Cambridge, 1869)	species	Animalia	Arthropoda	Arachnida	Araneae	Actinopodidae		73
https://id.biodiversity.org.au/node/apni/2891523	Trymalium odoratissimum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		73
https://id.biodiversity.org.au/taxon/apni/51398952	Caladenia discoidea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dancing Spider Orchid	73
https://id.biodiversity.org.au/node/apni/2913714	Melaleuca radula	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Graceful Honeymyrtle	72
https://id.biodiversity.org.au/taxon/apni/51283213	Tetraria octandra	(Nees) KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		72
https://id.biodiversity.org.au/taxon/apni/51283549	Drosera erythrorhiza	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Red Ink Sundew	72
https://id.biodiversity.org.au/node/apni/2903052	Hovea chorizemifolia	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Holly-leaved Hovea	71
https://id.biodiversity.org.au/node/apni/2909424	Isopogon sphaerocephalus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Drumstick Isopogon	71
https://id.biodiversity.org.au/node/apni/2912077	Drosera rosulata	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		71
https://id.biodiversity.org.au/node/apni/2917276	Isotoma hypocrateriformis	(R.Br.) Druce	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Woodbridge Poison	71
https://biodiversity.org.au/afd/taxa/a440dcc3-2f4f-4d46-805c-25001af55df0	Leioproctus (Leioproctus) clarki	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	70

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2911414	Hakea erinacea	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Hedgehog Hakea	70
https://id.biodiversity.org.au/node/apni/2889830	Orthrosanthus laxus	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Morning Iris	69
https://id.biodiversity.org.au/node/apni/2898520	Verticordia densiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Compacted Featherflower	69
https://id.biodiversity.org.au/node/apni/2903987	Hakea cristata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		69
https://id.biodiversity.org.au/node/apni/2918220	Calectasia narragara	R.L.Barrett & K.W.Dixon	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Star Of Bethlehem	69
https://id.biodiversity.org.au/node/apni/7672843	Isopogon drummondii	HÃ¼gel ex Jacques	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		69
https://id.biodiversity.org.au/node/apni/2893374	Tricoryne elatior	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Yellow Rush Lily	68
https://biodiversity.org.au/afd/taxa/430b6cdf-cdf4-4f2f-9e05-20b5bdf3d34e	Heteronympha merope	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Common Brown Butterfly	67
https://id.biodiversity.org.au/node/apni/2896829	Diplopeltis huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		67
https://id.biodiversity.org.au/node/apni/2907367	Hypochaeris glabra	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Smooth Cat's Ear	67
https://id.biodiversity.org.au/node/apni/2918606	Dasypogon bromeliifolius	R.Br.	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Pineapple Bush	67
https://biodiversity.org.au/afd/taxa/028fcb36-2ec4-49a4-aa3c-75f45ef4ee39	Vanessa kershawi	(McCoy, 1868)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Australian Painted Lady	66
https://biodiversity.org.au/afd/taxa/fa87c996-8fa5-45e8-8ded-1119671b6dbc	Venator immansueta	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	66
https://id.biodiversity.org.au/node/apni/2913234	Banksia attenuata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Coast Banksia	66
https://id.biodiversity.org.au/node/apni/2918204	Hypocalymma robustum	(Endl.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swan River Myrtle	66
https://id.biodiversity.org.au/node/apni/6766971	Grevillea synapheae	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Catkin Grevillea	66
https://id.biodiversity.org.au/taxon/apni/51438089	Romulea rosea	(L.) Eckl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Onion Grass	66
https://id.biodiversity.org.au/node/apni/2896184	Sowerbaea laxiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Vanilla Lily	65
https://id.biodiversity.org.au/taxon/apni/51401270	Cyanicula gemmata	(Lindl.) Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blue China Orchid	65
https://id.biodiversity.org.au/taxon/apni/51435191	Tetratheca hirsuta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae	Black-eyed Susan	65
https://biodiversity.org.au/afd/taxa/0eb68607-1707-4665-bd2e-e505330f1e34	Aprasia repens	(Fry, 1914)	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Sand-plain Worm-lizard	63
https://biodiversity.org.au/afd/taxa/963a3572-e528-43fe-8849-31303ccec115	Castiarina pallidiventris	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		63
https://id.biodiversity.org.au/node/apni/2893408	Adenanthos cygnorum	Diels	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Boyur	63
https://id.biodiversity.org.au/node/apni/2910941	Isopogon asper	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		63
https://id.biodiversity.org.au/node/apni/2887259	Conostylis aurea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		62
https://id.biodiversity.org.au/node/apni/2900575	Mesomelaena pseudostygia	(KÃ¼k.) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Semaphore Sedge	62
https://id.biodiversity.org.au/node/apni/2906572	Drosera porrecta	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Leafy Sundew	62
https://id.biodiversity.org.au/node/apni/2886600	Gompholobium confertum	(DC.) Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		61
https://id.biodiversity.org.au/node/apni/2914365	Gompholobium marginatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		61
https://id.biodiversity.org.au/node/apni/2915810	Leucopogon pulchellus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Beard Heath	61
https://biodiversity.org.au/afd/taxa/344b6390-5540-4be1-af2b-9fa4c0be6ea9	Castiarina picta	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		60
https://id.biodiversity.org.au/node/apni/2886839	Gastrolobium spathulatum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		60
https://id.biodiversity.org.au/node/apni/2889387	Drosera pallida	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pale Rainbow	60
https://id.biodiversity.org.au/node/apni/2889771	Daviesia triflora	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		60
https://id.biodiversity.org.au/node/apni/2891615	Haemodorum laxum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bloodroot	60
https://id.biodiversity.org.au/node/apni/2894254	Lomandra preissii	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Preiss' Mat Rush	60
https://id.biodiversity.org.au/node/apni/2910279	Xanthosia candida	(Benth.) Steud.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		60
https://id.biodiversity.org.au/node/apni/2913192	Trymalium ledifolium	Fenzl	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		60
https://id.biodiversity.org.au/node/apni/2914166	Adenanthos barbiger	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Hairy Glandflower	60
https://id.biodiversity.org.au/taxon/apni/51414226	Thelymitra antennifera	(Lindl.) Hook.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Lemon Sun-orchid	60
https://biodiversity.org.au/afd/taxa/e20a8c27-a76e-46a8-b695-876d9905fae1	Underwoodisaurus milii	(Bory de Saint-Vincent, 1825)	species	Animalia	Chordata	Reptilia	Squamata	Carphodactylidae	Barking Gecko	59
https://id.biodiversity.org.au/node/apni/2909343	Thysanotus sparteus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Leafless Fringed Lily	59
https://id.biodiversity.org.au/node/apni/2918736	Hybanthus calycinus	(DC.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Violaceae	Wild Violet	59
https://biodiversity.org.au/afd/taxa/1a5a613b-7a8d-4ac7-9dcf-8b805a702db5	Anilios australis	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Southern Blind Snake	58
https://id.biodiversity.org.au/node/apni/2894004	Alexgeorgea nitens	(Nees) L.A.S.Johnson & B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		58
https://id.biodiversity.org.au/node/apni/9442728	Isotropis cuneifolia	(Sm.) Walp.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Granny Bonnets	58
https://id.biodiversity.org.au/node/apni/2911793	Lomandra nigricans	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		57
https://id.biodiversity.org.au/node/apni/2914079	Eucalyptus wandoo	Blakely	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	White Gum	57
https://id.biodiversity.org.au/node/apni/2916623	Hibbertia subvaginata	(Steud.) F.Muell.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		57
https://id.biodiversity.org.au/node/apni/2901123	Boronia ovata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		56
https://id.biodiversity.org.au/node/apni/2920316	Chamaescilla corymbosa	(R.Br.) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Blue Stars	56
https://id.biodiversity.org.au/taxon/apni/51412440	Pterostylis vittata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Banded Greenhood	56
https://id.biodiversity.org.au/taxon/apni/51434933	Hibbertia huegelii	(Endl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		56
https://biodiversity.org.au/afd/taxa/9efd0e81-5b7a-468c-b67d-d65cb7bb8048	Hyleoides zonalis	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		55

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/b495e8e6-42af-4096-97f5-91cb59a56c74	Hemiergis initialis	(Werner, 1910)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Southwestern Earless Skink	55
https://id.biodiversity.org.au/node/apni/2889612	Kingia australis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Drumsticks	55
https://id.biodiversity.org.au/node/apni/2906592	Borya sphaerocephala	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae	Pincushions	55
https://biodiversity.org.au/afd/taxa/8ce669b4-fb53-4be0-9203-b02444eca02a	Strepera (Neostrepera) versicolor	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Grey Currawong	54
https://biodiversity.org.au/afd/taxa/908e6ef4-de96-4951-a603-cb62caae6fdc	Neophema (Neonanodes) elegans	(Gould, 1838)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Elegant Parrot	54
https://id.biodiversity.org.au/node/apni/2899931	Stylidium dichotomum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pins And Needles	54
https://id.biodiversity.org.au/taxon/apni/51442313	Billardiera fraseri	(Hook.) L.W.Cayzer, Crisp & I.Telford	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Elegant Pronaya	54
https://biodiversity.org.au/afd/taxa/91f0535a-f513-417d-9826-8294ae640785	Podiceps cristatus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Podicipediformes	Podicipedidae	Great Crested Grebe	53
https://id.biodiversity.org.au/node/apni/2887451	Desmocladus fasciculatus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		53
https://id.biodiversity.org.au/node/apni/2894800	Gastrolobium capitatum	(Benth.) G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bacon And Eggs	53
https://id.biodiversity.org.au/node/apni/2908469	Stylidium brunonianum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pink Fountain Triggerplant	53
https://id.biodiversity.org.au/node/apni/2909103	Astroloma pallidum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Kick Bush	53
https://id.biodiversity.org.au/taxon/apni/51414346	Thelymitra macrophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Scented Sun Orchid	53
https://id.biodiversity.org.au/taxon/apni/51441950	Pterostylis sanguinea	D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blood Greenhood	53
https://biodiversity.org.au/afd/taxa/dfae4fa3-c11e-4e99-90e1-03f11f3f8e0d	Heleioporus psammophilus	(Lee & Main, 1954)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Sand Frog	52
https://biodiversity.org.au/afd/taxa/ee2cb6a9-e17c-4ca7-8aef-76d69eb969ed	Trichosurus vulpecula	(Kerr, 1792)	species	Animalia	Chordata	Mammalia	Diprotodontia	Phalangeridae	Common Brushtail Possum	52
https://biodiversity.org.au/afd/taxa/efe0bb66-d4c1-4da5-833e-387be4af091f	Diplacodes bipunctata	(Brauer, 1865)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Wandering Percher	52
https://id.biodiversity.org.au/node/apni/2895009	Conospermum huegelii	R.Br. ex Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Slender Smokebush	52
https://id.biodiversity.org.au/node/apni/2895436	Lyginia barbata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		52
https://id.biodiversity.org.au/node/apni/2900204	Anigozanthos humilis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Common Catspaw	52
https://id.biodiversity.org.au/node/apni/2900959	Eucalyptus todtiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Blackbutt	52
https://id.biodiversity.org.au/node/apni/2901761	Scaevola platyphylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Broad-leaved Fanflower	52
https://id.biodiversity.org.au/node/apni/2904766	Hemiandra pungens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Snakebush	52
https://id.biodiversity.org.au/node/apni/2910790	Hakea amplexicaulis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Prickly Hakea	52
https://id.biodiversity.org.au/node/apni/2913426	Amphipogon turbinatus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		52
https://id.biodiversity.org.au/node/apni/2919207	Conostephium pendulum	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Pearl Flower	52
https://id.biodiversity.org.au/node/apni/7817374	Grevillea manglesii	PÃ©pin	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Smooth Grevillea	52
https://id.biodiversity.org.au/taxon/apni/51399312	Caladenia reptans	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Pink Fairies	52
https://biodiversity.org.au/afd/taxa/10f7757e-79b1-4551-954a-1deb0ea91b2b	Cornu aspersum	(MÃ¼ller, 1774)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Helicidae	Common Garden Snail	51
https://biodiversity.org.au/afd/taxa/6cdfacfa-cc9a-4bf9-9af0-b9b4ac7324ca	Artoria linnaei	Framenau, 2008	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		51
https://biodiversity.org.au/afd/taxa/758297d1-9e18-4832-81eb-7a047db923b9	Maratus pavonis	(Dunn, 1947)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Species Of Peacock Spider	51
https://biodiversity.org.au/afd/taxa/d295e821-ba0e-48fb-be8d-8fbe55e5286e	Megachile ignita	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	51
https://id.biodiversity.org.au/node/apni/2895364	Scaevola repens	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		51
https://id.biodiversity.org.au/node/apni/2913127	Hemigenia incana	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Silky Hemigenia	51
https://id.biodiversity.org.au/taxon/apni/51412292	Pterostylis recurva	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Recurved Shell Orchid	51
https://biodiversity.org.au/afd/taxa/6b41acaa-4905-46cf-8865-3ac8cb5c4551	Ctenotus fallens	Storr, 1974	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	West-coast Laterite Ctenotus	50
https://id.biodiversity.org.au/node/apni/2889195	Jacksonia sternbergiana	HÃ¼gel ex Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Stinkwood	50
https://id.biodiversity.org.au/node/apni/2890451	Pimelea imbricata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		50
https://id.biodiversity.org.au/node/apni/2895339	Conostylis androstemma	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Trumpets	50
https://id.biodiversity.org.au/taxon/apni/51299934	Calytrix glutinosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		50
https://biodiversity.org.au/afd/taxa/4788c00f-9f49-40c2-8b28-71b3e28d71fd	Stictonetta naevosa	(Gould, 1841)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Freckled Duck	49
https://biodiversity.org.au/afd/taxa/86ece03e-acae-4057-8061-5eae8e0c1f03	Antichiropus variabilis	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		49
https://biodiversity.org.au/afd/taxa/c1817333-9c62-4a05-af03-fe5fb9c9a0ce	Rattus rattus	(Linnaeus, 1758)	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	Black Rat	49
https://id.biodiversity.org.au/node/apni/2886783	Conostylis juncea	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		49
https://id.biodiversity.org.au/node/apni/2889944	Drosera miniata	Diels	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Orange Sundew	49
https://id.biodiversity.org.au/node/apni/2893007	Hakea prostrata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Harsh Hakea	49
https://id.biodiversity.org.au/node/apni/2906779	Hibbertia aurea	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		49
https://id.biodiversity.org.au/node/apni/2910320	Pimelea suaveolens	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Scented Banjine	49
https://id.biodiversity.org.au/taxon/apni/51412034	Pterostylis barbata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bird Orchid	49
https://biodiversity.org.au/afd/taxa/43852efc-f1fd-4875-8e67-da3ca075f7e6	Menetia greyii	Gray, 1845	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Grey's Menetia	48

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/a2399fe3-c90f-4fb1-a710-fe81643ff56e	Parvipsitta porphyrocephala	(Dietrichsen, 1837)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Purple-crowned Lorikeet	48
https://biodiversity.org.au/afd/taxa/c2a22476-c12f-42ad-be42-36eddd8497cb	Hylaeus (Euprosopoides) ruficeps	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	48
https://biodiversity.org.au/afd/taxa/e768b701-c4ce-445a-b798-f3126170f7a9	Neelaps calonotus	(DumÃ©ril, Bibron & DumÃ©ril, 1854)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Western Black-striped Snake	48
https://id.biodiversity.org.au/node/apni/2888967	Cryptandra arbutiflora	Fenzl	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Waxy Cryptandra	48
https://id.biodiversity.org.au/node/apni/2918704	Acacia saligna	(Labill.) H.L.Wendl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Golden Wreath Wattle	48
https://biodiversity.org.au/afd/taxa/3575c98d-5e7d-46fd-a62e-a499b15cffbc	Hemicordulia tau	(Selys, 1871)	species	Animalia	Arthropoda	Insecta	Odonata	Corduliidae	Tau Emerald	47
https://id.biodiversity.org.au/node/apni/2886109	Goodenia fasciculata	(Benth.) Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Bristly Goodenia	47
https://id.biodiversity.org.au/node/apni/2892328	Labichea punctata	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Lance-leaved Cassia	47
https://id.biodiversity.org.au/taxon/apni/51311315	Stylidium tenue	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		47
https://id.biodiversity.org.au/node/apni/2890836	Laxmannia squarrosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Paper Lily	46
https://id.biodiversity.org.au/node/apni/2895437	Gastrolobium dilatatum	(Benth. ex Lindl.) G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		46
https://id.biodiversity.org.au/node/apni/2900733	Hakea ruscifolia	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Candle Hakea	46
https://id.biodiversity.org.au/node/apni/2904117	Caesia micrantha	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pale Grass Lily	46
https://id.biodiversity.org.au/node/apni/2912980	Acacia applanata	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grass Wattle	46
https://id.biodiversity.org.au/taxon/apni/51437646	Johnsonia pubescens	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pipe Lily	46
https://biodiversity.org.au/afd/taxa/750f4764-1b64-444d-9d58-385bcf101d8f	Rhytidoponera metallica	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Metallic Pony Ants	45
https://biodiversity.org.au/afd/taxa/9db59218-494a-4286-9853-3907a0b9c5a4	Megachile (Eutricharaea) macularis	Dalla Torre, 1896	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	45
https://biodiversity.org.au/afd/taxa/c6f51290-256a-4cc8-b253-753ba39e6d74	Lasioglossum (Chilalictus) platychilum	Walker, 1999	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		45
https://biodiversity.org.au/afd/taxa/cf8af5bb-5284-43ba-abe6-7757aaaa8c6d	Hemiergis quadrilineata	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Two-toed Earless Skink	45
https://biodiversity.org.au/afd/taxa/fe0d262e-2847-4493-8aed-68cb376b2779	Suta gouldii	(Gray, 1841)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Gould's Hooded Snake	45
https://id.biodiversity.org.au/node/apni/2889378	Tribonanthes longipetala	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Branching Tiurndin	45
https://id.biodiversity.org.au/node/apni/2895373	Acacia sessilis	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		45
https://id.biodiversity.org.au/node/apni/2899048	Burchardia multiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Lesser Burchardia	45
https://id.biodiversity.org.au/node/apni/2907115	Styphelia tenuiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Common Pinheath	45
https://id.biodiversity.org.au/node/apni/2913839	Thomasia foliosa	J.Gay	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		45
https://id.biodiversity.org.au/node/apni/2917156	Stylidium amoenum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Lovely Triggerplant	45
https://id.biodiversity.org.au/taxon/apni/51405030	Elythranthera emarginata	(Lindl.) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Enamel Orchid	45
https://id.biodiversity.org.au/taxon/apni/51412478	Pyrorchis nigricans	(R.Br.) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Black Fire-orchid	45
https://id.biodiversity.org.au/taxon/apni/51445443	Grevillea thelemanniana	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spider Net Grevillea	45
https://biodiversity.org.au/afd/taxa/0628244e-287b-4001-946e-5a41ef056f41	Falco (Ieracidea) berigora	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Brown Falcon	44
https://biodiversity.org.au/afd/taxa/1ed45f0a-8a3a-4a7e-8eca-43a86fb1688c	Erythrogonys cinctus	Gould, 1838	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Red-kneed Dotterel	44
https://biodiversity.org.au/afd/taxa/5a264c77-a7d1-43ca-ae1f-233f59b175aa	Ptilotula ornata	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Yellow-plumed Honeyeater	44
https://biodiversity.org.au/afd/taxa/7b7a290d-ca89-494f-8f2e-7f05311240f2	Stipiturus malachurus	(Shaw, 1798)	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Southern Emu-wren	44
https://biodiversity.org.au/afd/taxa/ce1a4277-b012-4bcc-a8d7-7246296a1ca1	Zapornia pusilla	(Pallas, 1776)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Baillon's Crake	44
https://id.biodiversity.org.au/node/apni/2893533	Acacia teretifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		44
https://id.biodiversity.org.au/node/apni/2905837	Melaleuca rhaphiophylla	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Paperbark	44
https://id.biodiversity.org.au/node/apni/2914928	Astroloma foliosum	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Candle Cranberry	44
https://id.biodiversity.org.au/taxon/apni/51267100	Thysanotus multiflorus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Many-flowered Fringe	44
https://id.biodiversity.org.au/taxon/apni/51269051	Trichocline spathulata	(A.Cunn. ex DC.) J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Native Gerbera	44
https://id.biodiversity.org.au/taxon/apni/51409759	Prasophyllum fimbria	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Fringed Leek Orchid	44
https://id.biodiversity.org.au/taxon/apni/51445824	Cheilanthes austrotenuifolia	H.M.Quirk & T.C.Chambers	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Green Rock-fern	44
https://biodiversity.org.au/afd/taxa/9a6a5e1c-5302-40e4-b831-c4175b49f2ea	Hortophora biapicata	(L. Koch, 1871)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		43
https://biodiversity.org.au/afd/taxa/9ef69c18-0be1-4ac1-8288-3e2358944971	Brachyurophis semifasciatus	GÃ¼nther, 1863	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Southern Shovel-nosed Snake	43
https://biodiversity.org.au/afd/taxa/9f7965cb-d6a0-4833-a241-7d53ec570b98	Venatrix pullastra	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		43
https://biodiversity.org.au/afd/taxa/b753892a-155e-4190-98ab-8e85cc9840b7	Bubulcus ibis	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Cattle Egret	43
https://id.biodiversity.org.au/node/apni/2900479	Hibbertia commutata	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		43
https://id.biodiversity.org.au/node/apni/2904505	Viminaria juncea	(Schrad. & J.C.Wendl.) Hoffmanns.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Native Broom	43
https://id.biodiversity.org.au/taxon/apni/51302276	Eremaea pauciflora	(Endl.) Druce	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		43
https://biodiversity.org.au/afd/taxa/858cf1dc-05bb-415d-bdab-996d90e3891e	Diplacodes haematodes	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Scarlet Percher	42

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/de840853-a3a3-4ec5-9dc0-7f12680a054f	Climacteris (Climacteris) rufus	Gould, 1841	species	Animalia	Chordata	Aves	Passeriformes	Climacteridae	Rufous Treecreeper	42
https://id.biodiversity.org.au/node/apni/2913476	Grevillea wilsonii	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wilson's Grevillea	42
https://biodiversity.org.au/afd/taxa/1ef26825-8768-42fa-85e2-61b7a68d2a73	Amegilla (Notomegilla) chlorocyanea	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Blue Banded Bee	41
https://biodiversity.org.au/afd/taxa/432ff91d-d78a-4d90-8f6e-2371a385610e	Harmonia conformis	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Common Spotted Ladybird	41
https://biodiversity.org.au/afd/taxa/647143da-474c-45b4-9075-68f14c63b977	Megacmonotus magnus	(McLachlan, 1871)	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae	Owlfly	41
https://biodiversity.org.au/afd/taxa/cc7aa9fc-3d0f-4be2-9642-a377f545dd2d	Lampona cylindrata	(L. Koch, 1866)	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	41
https://biodiversity.org.au/afd/taxa/e9e85f33-224c-40ce-b48d-290d1a41eb9d	Isoodon obesulus	(Shaw, 1797)	species	Animalia	Chordata	Mammalia	Peramelemorphia	Peramelidae	Southern Brown Bandicoot	41
https://id.biodiversity.org.au/node/apni/2889451	Echium plantagineum	L.	species	Plantae	Charophyta	Equisetopsida		Boraginaceae	Paterson's Curse	41
https://id.biodiversity.org.au/node/apni/2909279	Levenhookia stipitata	(Benth.) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Common Stylewort	41
https://id.biodiversity.org.au/node/apni/2913209	Hakea myrtoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Myrtle Hakea	41
https://id.biodiversity.org.au/node/apni/2919437	Melaleuca parviceps	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		41
https://id.biodiversity.org.au/node/apni/2919963	Stylidium bulbiferum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Circus Triggerplant	41
https://id.biodiversity.org.au/node/apni/2921305	Synaphea spinulosa	(Burm.f.) Merr.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		41
https://id.biodiversity.org.au/taxon/apni/51267241	Arctotheca calendula	(L.) K.Lewin	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cape Weed	41
https://id.biodiversity.org.au/taxon/apni/51409843	Prasophyllum parvifolium	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Autunm Leek Orchid	41
https://biodiversity.org.au/afd/taxa/70ed370b-5244-40ff-a2ad-fd1ffb15a1c8	Hylaeus (Euprosopis) elegans	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	40
https://id.biodiversity.org.au/node/apni/2891893	Podolepis gracilis	Graham	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Slender Podolepis	40
https://id.biodiversity.org.au/node/apni/2895772	Sonchus oleraceus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Sow-thistle	40
https://id.biodiversity.org.au/node/apni/2909260	Lobelia anceps	L.f.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Angled Lobelia	40
https://id.biodiversity.org.au/node/apni/2912173	Kennedia stirlingii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		40
https://id.biodiversity.org.au/node/apni/2914091	Synaphea acutiloba	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Granite Synaphea	40
https://id.biodiversity.org.au/node/apni/2917235	Pterochaeta paniculata	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		40
https://id.biodiversity.org.au/node/apni/2917770	Scaevola glandulifera	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Viscid Hand-flower	40
https://id.biodiversity.org.au/node/apni/2920375	Acacia nervosa	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Rib Wattle	40
https://id.biodiversity.org.au/node/apni/8504994	Daviesia cordata	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bookleaf	40
https://id.biodiversity.org.au/taxon/apni/51270456	Centrolepis aristata	(R.Br.) Roem. & Schult.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae	Pointed Centrolepis	40
https://id.biodiversity.org.au/taxon/apni/51406461	Leporella fimbriata	(Lindl.) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Fringed Hare-orchid	40
https://biodiversity.org.au/afd/taxa/25c5be60-66bb-4153-90b1-cba9e48a3c0a	Tasmanicosa leuckartii	(Thorell, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Leuckartâ€™s Wolf Spider, Hay Spider	39
https://biodiversity.org.au/afd/taxa/ba441564-a689-411b-8fb8-0c673a799f63	Austrogomphus (Austrogomphus) collaris	Hagen, 1854	species	Animalia	Arthropoda	Insecta	Odonata	Gomphidae	Western Inland Hunter	39
https://id.biodiversity.org.au/node/apni/2888613	Daviesia angulata	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		39
https://id.biodiversity.org.au/node/apni/2894397	Xanthosia huegelii	(Benth.) Steud.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Hairy Xanthosia	39
https://id.biodiversity.org.au/node/apni/2908142	Lomandra hermaphrodita	(C.R.P.Andrews) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		39
https://id.biodiversity.org.au/node/apni/2916692	Drosera stolonifera	Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Leafy Sundew	39
https://id.biodiversity.org.au/node/apni/2919519	Calytrix fraseri	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Pink Summer Calytrix	39
https://id.biodiversity.org.au/node/apni/7392107	Scaevola canescens	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Grey Scaevola	39
https://id.biodiversity.org.au/taxon/apni/51286923	Acacia huegelii	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Huegel's Wattle	39
https://id.biodiversity.org.au/taxon/apni/51441699	Eriochilus dilatatus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Bunny Orchid	39
https://biodiversity.org.au/afd/taxa/5cacd903-a23e-446f-8aaf-f34de02a7be8	Castiarina simulata	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		38
https://biodiversity.org.au/afd/taxa/efb6a702-2846-4c11-9234-d93b31f27d80	Strophurus spinigerus	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Soft Spiny-tailed Gecko	38
https://id.biodiversity.org.au/node/apni/2892003	Wurmbea dioica	(R.Br.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Common Early Nancy	38
https://id.biodiversity.org.au/node/apni/2896509	Jacksonia furcellata	(Bonpl.) DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grey Stinkwood	38
https://id.biodiversity.org.au/node/apni/2897039	Labichea lanceolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		38
https://id.biodiversity.org.au/node/apni/2900436	Pericalymma ellipticum	(Endl.) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Teatree	38
https://id.biodiversity.org.au/node/apni/2920286	Boronia cymosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Granite Boronia	38
https://id.biodiversity.org.au/node/apni/2920474	Centrolepis drummondiana	(Nees) Walp.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae	Drummond's Centrolepis	38
https://id.biodiversity.org.au/taxon/apni/51312315	Petrophile striata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		38
https://id.biodiversity.org.au/taxon/apni/51438111	Watsonia meriana	(L.) Mill.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Bugle Lily	38
https://biodiversity.org.au/afd/taxa/0b67b63f-596a-4780-93fa-6c53d5205923	Notechis scutatus	(Peters, 1861)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Tiger Snake	37
https://biodiversity.org.au/afd/taxa/100b0451-6b69-4fd8-b972-d95e8b5b771e	Anax papuensis	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Aeshnidae	Australian Emperor	37
https://biodiversity.org.au/afd/taxa/38d12254-ea16-4526-82dc-45f7ac778e66	Pogona minor	(Sternfeld, 1919)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Dwarf Bearded Dragon	37
https://biodiversity.org.au/afd/taxa/608a8098-c27c-4358-8b55-59df75089a2e	Dasypodia selenophora	GuenÃ©e, 1852	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Granny Moth	37

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/89dd1fb0-2549-4285-9b8a-724c39f4542a	Junonia villida	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Meadow Argus	37
https://biodiversity.org.au/afd/taxa/9cc11ab9-ab7a-43d6-a04f-3ae4c7a1a42a	Charadrius (Charadrius) ruficapillus	Temminck, 1821	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Red-capped Plover	37
https://biodiversity.org.au/afd/taxa/c2cf20ac-dafd-4197-b09b-3336be930d66	Lasioglossum (Chilalictus) lanarium	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	37
https://id.biodiversity.org.au/taxon/apni/51288894	Beaufortia purpurea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Purple Beaufortia	37
https://id.biodiversity.org.au/taxon/apni/51406630	Microtis media	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Mignonette Orchid	37
https://id.biodiversity.org.au/taxon/apni/51442541	Briza minor	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lesser Quaking-grass	37
https://biodiversity.org.au/afd/taxa/127ae005-62ed-4868-b947-b1a981d5e579	Danaus plexippus	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Wanderer	36
https://biodiversity.org.au/afd/taxa/27864bfe-de45-423f-867a-1341c4fe8906	Lophyrotoma analis	(Costa, 1864)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	36
https://id.biodiversity.org.au/node/apni/2904553	Daviesia polyphylla	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		36
https://id.biodiversity.org.au/node/apni/2908272	Hakea petiolaris	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Sea-urchin Hakea	36
https://id.biodiversity.org.au/node/apni/2910680	Hakea incrassata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Marble Hakea	36
https://id.biodiversity.org.au/node/apni/2915937	Macrozamia riedlei	(Fisch. ex Gaudich.) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Cycadales	Zamiaceae	Zamia Palm	36
https://id.biodiversity.org.au/taxon/apni/51288522	Lasiopetalum glutinosum	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		36
https://biodiversity.org.au/afd/taxa/b9e92e08-8914-4b07-adf7-fefe80d0b1ef	Urodacus planimanus	Pocock, 1893	species	Animalia	Arthropoda	Arachnida	Scorpiones	Urodacidae		35
https://biodiversity.org.au/afd/taxa/ef05bc70-73bc-4874-b884-ede42aaa3838	Isopeda leishmanni	Hogg, 1903	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Huntsman Spider	35
https://id.biodiversity.org.au/node/apni/2894173	Hydrocotyle callicarpa	Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Tiny Pennywort	35
https://id.biodiversity.org.au/node/apni/2907926	Drosera heterophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Swamp Rainbow	35
https://id.biodiversity.org.au/node/apni/6283310	Conostylis aculeata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Prickly Conostylis	35
https://id.biodiversity.org.au/taxon/apni/51291098	Fumaria capreolata	L.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Papaveraceae	White-flowered Fumitory	35
https://id.biodiversity.org.au/taxon/apni/51298315	Drosera menziesii	R.Br. ex DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pink Rainbow	35
https://id.biodiversity.org.au/taxon/apni/51404255	Diuris longifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Donkey Orchid	35
https://biodiversity.org.au/afd/taxa/0b73e8bb-c141-4f07-8b14-47c3510c9c98	Badumna insignis	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae	Black House Spider	34
https://biodiversity.org.au/afd/taxa/1861ae1a-7c5f-48a6-a62b-60cf51cd4815	Lasioglossum (Chilalictus) chapmani	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	34
https://biodiversity.org.au/afd/taxa/1964c111-f647-4cb5-9878-1dfcec14ad18	Stigmodera gratiosa	Chevrolat, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		34
https://biodiversity.org.au/afd/taxa/bdcc0acc-980a-4f51-b8c0-85447ce59bea	Melithreptus (Eidopsarus) brevirostris	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Brown-headed Honeyeater	34
https://biodiversity.org.au/afd/taxa/c1097a2c-59ea-44ba-ad76-bcff7091d558	Zygometis xanthogaster	(L. Koch, 1875)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	34
https://id.biodiversity.org.au/node/apni/2891670	Eucalyptus rudis	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Flooded Gum	34
https://id.biodiversity.org.au/node/apni/2900996	Verticordia pennigera	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Native Tea	34
https://id.biodiversity.org.au/node/apni/2902331	Oxalis glabra	Thunb.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Finger-leaf Wood-sorrel	34
https://id.biodiversity.org.au/node/apni/2919212	Gompholobium knightianum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Knight's Wedge-pea	34
https://id.biodiversity.org.au/node/apni/6286726	Conostylis caricina	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		34
https://biodiversity.org.au/afd/taxa/2ecff0de-1ba4-4b53-a368-0e01d36c289d	Tringa (Rhyacophilus) glareola	Linnaeus, 1758	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Wood Sandpiper	33
https://biodiversity.org.au/afd/taxa/434b84c2-25ab-4bf9-98f8-06cf29d4ba50	Ardices glatignyi	(Le Guillou, 1841)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		33
https://biodiversity.org.au/afd/taxa/5d2f10e5-7ff9-4f9a-afce-49da90f8772c	Isopedella cana	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		33
https://biodiversity.org.au/afd/taxa/60bfacba-1394-4f13-aebd-62e8e0353931	Idiommata blackwallii	(O.P.-Cambridge, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		33
https://id.biodiversity.org.au/node/apni/2886043	Euchilopsis linearis	(Benth.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Swamp Pea	33
https://id.biodiversity.org.au/node/apni/2887643	Hyalosperma cotula	(Benth.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		33
https://id.biodiversity.org.au/node/apni/2887834	Clematis pubescens	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Common Clematis	33
https://id.biodiversity.org.au/node/apni/2888659	Stylidium androsaceum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Book Triggerplant	33
https://id.biodiversity.org.au/node/apni/2893312	Conospermum stoechadis	Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Common Smokebush	33
https://id.biodiversity.org.au/node/apni/2899222	Arnocrinum preissii	Lehm.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae		33
https://id.biodiversity.org.au/node/apni/2906672	Cassytha racemosa	Nees	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	33
https://id.biodiversity.org.au/taxon/apni/51401282	Cyanicula sericea	(Lindl.) Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Silky Blue Orchid	33
https://id.biodiversity.org.au/taxon/apni/51702959	Bossiaea ornata	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Broad-leaved Brown Pea	33
https://biodiversity.org.au/afd/taxa/014d2242-84ae-4895-86bc-dbab37cd5825	Leioproctus (Ceratocolletes) antennatus	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		32
https://biodiversity.org.au/afd/taxa/0f5df411-17dd-4719-91de-158fb1a77b27	Cracticus nigrogularis	(Gould, 1837)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Pied Butcherbird	32
https://biodiversity.org.au/afd/taxa/62b934bc-3033-4422-9cd4-2ed42513f485	Iridomyrmex purpureus	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Meat Ant	32

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/683a3853-83cd-4c65-b980-747884c6fde4	Acritoscincus trilineatus	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Three-lined Skink	32
https://biodiversity.org.au/afd/taxa/88c246ac-81a1-4307-90db-2cbb0db3ab5b	Maratus griseus	(Keyserling, 1882)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		32
https://id.biodiversity.org.au/node/apni/2888856	Verticordia lindleyi	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		32
https://id.biodiversity.org.au/node/apni/2890358	Dichopogon capillipes	(Endl.) Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		32
https://id.biodiversity.org.au/node/apni/2894898	Taxandria linearifolia	(DC.) J.R.Wheeler & N.G.Marchant	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		32
https://id.biodiversity.org.au/node/apni/2908115	Hakea stenocarpa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		32
https://id.biodiversity.org.au/node/apni/2914252	Austrostipa compressa	(R.Br.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		32
https://id.biodiversity.org.au/node/apni/2920511	Blancoa canescens	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Winter Bell	32
https://biodiversity.org.au/afd/taxa/3d409f65-c6f7-4836-b42c-5490698012bf	Maratus hortorum	Waldock, 2014	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		31
https://biodiversity.org.au/afd/taxa/6f3088ea-6e92-4e44-9d88-9d45016ae4ff	Jalmenus inous	Hewitson, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Varied Hairstreak	31
https://biodiversity.org.au/afd/taxa/b898b490-ecde-4a08-a322-7872fde06c03	Archimantis sobrina	Saussure, 1872	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Large Brown Mantid	31
https://id.biodiversity.org.au/node/apni/2898454	Eutaxia virgata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		31
https://id.biodiversity.org.au/node/apni/2901041	Tribonanthes brachypetala	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Nodding Tiurndin	31
https://id.biodiversity.org.au/node/apni/2907010	Stylidium diuroides	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Donkey Triggerplant	31
https://id.biodiversity.org.au/node/apni/2910246	Lyginia imberbis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		31
https://id.biodiversity.org.au/node/apni/2915284	Xanthorrhoea acanthostachya	D.J.Bedford	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae		31
https://id.biodiversity.org.au/node/apni/2921092	Anigozanthos bicolor	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Little Kangaroo Paw	31
https://id.biodiversity.org.au/node/apni/7910981	Verticordia plumosa	(Desf.) Druce	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Plumed Featherflower	31
https://id.biodiversity.org.au/taxon/apni/51404261	Diuris magnifica	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pansy Orchid	31
https://biodiversity.org.au/afd/taxa/38dbd7e1-2b59-4485-987c-3c712ba4986e	Oenochroma vinaria	GuenÃ©e, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Grevillea Looper Moth	30
https://biodiversity.org.au/afd/taxa/59bcb0d8-4caf-4055-831c-b319b12870f5	Acrida conica	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Giant Green Slant-face	30
https://biodiversity.org.au/afd/taxa/b1e1d9a6-e04d-4340-8fe5-1b4cafdddae0	Kobonga umbrimargo	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Cicada	30
https://biodiversity.org.au/afd/taxa/bc165f53-184b-4531-8754-f82328676445	Cormocephalus aurantiipes	(Newport, 1844)	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae	Orange-footed Centipede	30
https://biodiversity.org.au/afd/taxa/f4abd087-4596-439f-8359-c0a884502751	Nyssus albopunctatus	(Hogg, 1896)	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae	Sac Spider	30
https://id.biodiversity.org.au/node/apni/2888174	Lomandra caespitosa	(F.Muell. ex Benth.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Tufted Mat-rush	30
https://id.biodiversity.org.au/node/apni/2888611	Aira caryophyllea	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Silvery Hairgrass	30
https://id.biodiversity.org.au/node/apni/2898345	Homalosciadium homalocarpum	(F.Muell.) H.Eichler	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		30
https://id.biodiversity.org.au/node/apni/2902062	Hypolaena exsulca	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		30
https://id.biodiversity.org.au/node/apni/2903285	Melaleuca lateritia	A.Dietr.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Robin Redbreast Bush	30
https://id.biodiversity.org.au/node/apni/2911686	Thomasia macrocarpa	Endl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Large-fruited Thomasia	30
https://id.biodiversity.org.au/node/apni/2913902	Calytrix flavescens	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Summer Starflower	30
https://id.biodiversity.org.au/node/apni/2915089	Allocasuarina fraseriana	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Western Sheoak	30
https://biodiversity.org.au/afd/taxa/104393e0-22e8-496d-ac72-a8dd8387f612	Coccinella transversalis	Fabricius, 1781	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Transverse Ladybird	29
https://biodiversity.org.au/afd/taxa/13530e3c-5455-4e5b-ba26-3fa156c6281a	Crenadactylus ocellatus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	South-western Clawless Gecko	29
https://biodiversity.org.au/afd/taxa/2309b703-d925-400d-8d5b-7e42087bb519	Polistes (Polistes) dominulus	(Christ, 1791)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		29
https://biodiversity.org.au/afd/taxa/2a11ad06-7fdc-475b-b2f2-b97d4cb03b12	Cincloramphus (Maclennania) mathewsi	Iredale, 1911	species	Animalia	Chordata	Aves	Passeriformes	Locustellidae	Rufous Songlark	29
https://biodiversity.org.au/afd/taxa/6e61b4ab-a84f-42e7-ad78-d2f84c02d3bb	Ommatoiulus moreleti	(Lucas, 1860)	species	Animalia	Arthropoda	Diplopoda	Julida	Julidae	Portuguese Millipede	29
https://biodiversity.org.au/afd/taxa/99f1b07e-7338-4af1-a590-27647f7761a2	Megachile (Eutricharaea) serricauda	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	29
https://biodiversity.org.au/afd/taxa/b52dab59-9922-449c-937b-8210c2452edc	Castiarina crocicolor	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		29
https://id.biodiversity.org.au/node/apni/2893609	Lomandra sericea	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Silky Mat Rush	29
https://id.biodiversity.org.au/node/apni/2893885	Thomasia grandiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Large-flowered Thomasia	29
https://id.biodiversity.org.au/node/apni/2900467	Jacksonia alata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		29
https://id.biodiversity.org.au/node/apni/2905459	Leucopogon conostephioides	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		29
https://id.biodiversity.org.au/node/apni/2911947	Austrostipa campylachne	(Nees) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		29
https://id.biodiversity.org.au/node/apni/2912060	Stackhousia monogyna	Labill.	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae	Creamy Candles	29
https://id.biodiversity.org.au/node/apni/2916036	Acacia willdenowiana	H.L.Wendl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grass Wattle	29
https://id.biodiversity.org.au/node/apni/2918481	Scaevola calliptera	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Royal Robe	29

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51405028	Elythranthera brunonis	(Endl.) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Purple Enamel Orchid	29
https://id.biodiversity.org.au/taxon/apni/51439113	Craspedia variabilis	J.Everett & Doust	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Billy-buttons	29
https://biodiversity.org.au/afd/taxa/52f22ad4-7948-493b-9ea0-b20f90070dbc	Austrolestes analis	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Slender Ringtail	28
https://biodiversity.org.au/afd/taxa/a2215af4-c787-4b4f-91d6-8d4865ca9e8f	Orthodera ministralis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Green Mantid	28
https://id.biodiversity.org.au/node/apni/2890273	Jacksonia restioides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		28
https://id.biodiversity.org.au/node/apni/2891342	Levenhookia pusilla	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Tiny Stylewort	28
https://id.biodiversity.org.au/node/apni/2896402	Agrostocrinum hirsutum	(Lindl.) Keighery	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Grass Lily	28
https://id.biodiversity.org.au/node/apni/2913123	Acacia incrassata	Hook.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		28
https://id.biodiversity.org.au/node/apni/2915434	Lepidosperma rostratum	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Beaked Lepidosperma	28
https://id.biodiversity.org.au/node/apni/2919672	Stylidium schoenoides	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Cow Kicks	28
https://id.biodiversity.org.au/node/apni/2920050	Ptilotus drummondii	(Moq.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Narrowleaf Mulla Mulla	28
https://id.biodiversity.org.au/taxon/apni/51404199	Diuris corymbosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Donkey Orchid	28
https://id.biodiversity.org.au/taxon/apni/51436621	Acacia oncinophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hook-leaved Acacia	28
https://id.biodiversity.org.au/taxon/apni/51438989	Commersonia corniculata	(Sm.) K.A.Sheph. & C.F.Wilkins	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		28
https://biodiversity.org.au/afd/taxa/23892e0b-7308-482e-9a10-aff19b546ca8	Ctenophorus ornatus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Ornate Dragon	27
https://biodiversity.org.au/afd/taxa/6b28c275-9642-4741-a910-5463b5159f0a	Malurus (Leggeornis) lamberti	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Variegated Fairy-wren	27
https://biodiversity.org.au/afd/taxa/db818fde-1cfb-4e30-976d-a79381f9b8a7	Chasmoptera huttii	(Westwood, 1848)	species	Animalia	Arthropoda	Insecta	Neuroptera	Nemopteridae		27
https://biodiversity.org.au/afd/taxa/dc420306-4746-4663-9c2d-cf367587f728	Haliaeetus (Pontoaetus) leucogaster	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	White-bellied Sea-eagle	27
https://biodiversity.org.au/afd/taxa/e4e56db2-23b3-4df1-8c29-d41471d4520b	Lasioglossum (Chilalictus) cognatum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	27
https://id.biodiversity.org.au/name/apni/51731447	Leptospermopsis erubescens	(Schauer) Peter G.Wilson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		27
https://id.biodiversity.org.au/node/apni/2889536	Astroloma stomarrhena	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Red Swamp Cranberry	27
https://id.biodiversity.org.au/node/apni/2893765	Siloxerus humifusus	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Procumbent Siloxerus	27
https://id.biodiversity.org.au/node/apni/2894284	Chamaescilla versicolor	(Lindl.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		27
https://id.biodiversity.org.au/node/apni/2895473	Daviesia physodes	A.Cunn. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		27
https://id.biodiversity.org.au/node/apni/2896233	Platysace juncea	(Bunge) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		27
https://id.biodiversity.org.au/node/apni/2899692	Eryngium pinnatifidum	Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Blue Devils	27
https://id.biodiversity.org.au/node/apni/2908167	Macarthuria australis	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Limeaceae		27
https://id.biodiversity.org.au/node/apni/2921246	Ehrharta calycina	Sm.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Perennial Veldt-grass	27
https://id.biodiversity.org.au/taxon/apni/51435902	Daviesia divaricata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Marno	27
https://biodiversity.org.au/afd/taxa/0934f609-aae6-45fe-8711-14aba5e58ae9	Dinocambala ingens	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Spirostreptida	Iulomorphidae		26
https://biodiversity.org.au/afd/taxa/83672d75-48f9-4d93-8c1c-b5a9d25ec640	Idiosoma sigillatum	(O.P.-Cambridge, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae	Swan Coastal Plain Shield-backed Trapdoor Spider	26
https://biodiversity.org.au/afd/taxa/b2ba552f-d11a-4eb3-949a-9ed92b43837c	Akamptogonus novarae	(Humbert & de Saussure, 1869)	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		26
https://biodiversity.org.au/afd/taxa/f5738d4d-eacd-4ab6-b88a-e15a5adbcf47	Megachile erythropyga	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	26
https://id.biodiversity.org.au/node/apni/2886079	Dasypogon obliquifolius	Nees	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae		26
https://id.biodiversity.org.au/node/apni/2891141	Goodenia coerulea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		26
https://id.biodiversity.org.au/node/apni/2893349	Schoenus curvifolius	(R.Br.) Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		26
https://id.biodiversity.org.au/node/apni/2896403	Hemiandra linearis	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Speckled Snakebush	26
https://id.biodiversity.org.au/node/apni/2899343	Plantago lanceolata	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Ribwort	26
https://id.biodiversity.org.au/node/apni/2900824	Desmocladus flexuosus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		26
https://id.biodiversity.org.au/node/apni/2901354	Xanthorrhoea gracilis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae	Graceful Grass Tree	26
https://id.biodiversity.org.au/node/apni/2906808	Cyathochaeta avenacea	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		26
https://id.biodiversity.org.au/node/apni/2915685	Rytidosperma setaceum	(R.Br.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Small-flower Wallaby-grass	26
https://id.biodiversity.org.au/node/apni/6475313	Monotaxis grandiflora	Endl.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Diamond Of The Desert	26
https://id.biodiversity.org.au/node/apni/7458101	Pauridia occidentalis	(Benth.) Snijman & Kocyan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hypoxidaceae		26
https://id.biodiversity.org.au/taxon/apni/51289286	Calothamnus sanguineus	Labill.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Silky-leaved Bloodflower	26
https://id.biodiversity.org.au/taxon/apni/51744680	Lagenophora huegelii	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Coarse Bottle-daisy	26
https://biodiversity.org.au/afd/taxa/2c1e0bca-1ac1-4f75-9c7d-23953469f871	Lerista elegans	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Elegant Slider	25

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/657bba81-c458-4a19-a8eb-5baf09277788	Heteronychus arator	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	African Black Beetle	25
https://biodiversity.org.au/afd/taxa/721bb023-8bde-4961-bbd1-fe07a25fa9af	Holconia westralia	Hirst, 1991	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		25
https://biodiversity.org.au/afd/taxa/7b31b043-a8c7-4e48-9681-dcea0569d8db	Nyssus coloripes	Walckenaer, 1805	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae	Spotted Ground Swift Spider	25
https://biodiversity.org.au/afd/taxa/984826e3-cee5-4cc6-b993-ecce9d8dbdaf	Neochmia (Aegintha) temporalis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Estrildidae	Red-browed Finch	25
https://biodiversity.org.au/afd/taxa/e621e01d-c3d0-4c99-bcb6-f4aaea7f6e3b	Steatoda grossa	(C.L. Koch, 1838)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	25
https://id.biodiversity.org.au/node/apni/2887591	Pimelea ciliata	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	White Banjine	25
https://id.biodiversity.org.au/node/apni/2893355	Trifolium angustifolium	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-leaf Clover	25
https://id.biodiversity.org.au/node/apni/2895458	Asparagus asparagoides	(L.) W.Wight	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Western Cape Bridal Creeper	25
https://id.biodiversity.org.au/node/apni/2895963	Haemodorum spicatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bohn	25
https://id.biodiversity.org.au/node/apni/2899185	Acacia obovata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		25
https://id.biodiversity.org.au/node/apni/2900173	Persoonia saccata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Snottygobble	25
https://id.biodiversity.org.au/node/apni/2903217	Phlebocarya ciliata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		25
https://id.biodiversity.org.au/node/apni/2907440	Phlebocarya filifolia	(F.Muell.) Benth.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		25
https://id.biodiversity.org.au/node/apni/2908227	Haemodorum simplex	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		25
https://id.biodiversity.org.au/node/apni/2914702	Chamelaucium uncinatum	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Geraldton Wax	25
https://id.biodiversity.org.au/node/apni/2918522	Gastrolobium villosum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Crinkle-leaved Poison	25
https://id.biodiversity.org.au/node/apni/2919321	Schoenus nanus	(Nees ex Lehm.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Little Bog-rush	25
https://id.biodiversity.org.au/node/fungi/60094367	Omphalotus nidiformis	(Berk.) O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Marasmiaceae		25
https://id.biodiversity.org.au/taxon/apni/51290326	Scholtzia involucrata	(Endl.) Druce	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spiked Scholtzia	25
https://id.biodiversity.org.au/taxon/apni/51434961	Hibbertia striata	(Steud.) K.R.Thiele	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		25
https://biodiversity.org.au/afd/taxa/08c5def1-acac-43f1-82c4-a04a5475bc67	Lasioglossum (Chilalictus) hemichalceum	(Cockerell, 1923)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	24
https://biodiversity.org.au/afd/taxa/0df8a98a-7d10-4f40-8452-fc9c1a090d4d	Argiope protensa	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	24
https://biodiversity.org.au/afd/taxa/1e62c15c-2c72-419c-a359-d380b78ffe11	Idiosoma jarrah	Rix & Harvey, 2018	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		24
https://biodiversity.org.au/afd/taxa/59fede41-4359-40c9-bff7-c0cbcab02440	Lamprima aurata	Latreille, 1817	species	Animalia	Arthropoda	Insecta	Coleoptera	Lucanidae	Golden Stag Beetle	24
https://biodiversity.org.au/afd/taxa/60e0ad88-ab84-46c9-8279-64921872f1b0	Megachile speluncarum	Meade-Waldo, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		24
https://biodiversity.org.au/afd/taxa/76ba4b4a-5de0-4b73-970b-a832d86b483a	Melobasis lathami	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		24
https://biodiversity.org.au/afd/taxa/7f064b53-4161-48d5-a2cc-003683592646	Thynnoides nephelopterus	Turner, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		24
https://biodiversity.org.au/afd/taxa/ded6a64d-9021-42a7-acb9-82a4ca6dc795	Simoselaps bertholdi	(Jan, 1859)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Jan's Banded Snake	24
https://biodiversity.org.au/afd/taxa/e4b8db59-ef1a-45bb-b757-1d635f6242a3	Diphucrania duodecimmaculata	(Fabricius, 1801)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		24
https://biodiversity.org.au/afd/taxa/e52d43df-06d9-4a2d-a830-5a6909148612	Leptocneria reducta	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	24
https://biodiversity.org.au/afd/taxa/e5bcb8b7-0ee2-41b1-a1a9-bbce756fb72a	Pseudonaja mengdeni	Wells & Wellington, 1985	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Western Brown Snake	24
https://id.biodiversity.org.au/node/apni/2889040	Wahlenbergia capensis	(L.) A.DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Cape Bluebell	24
https://id.biodiversity.org.au/node/apni/2890292	Podolepis lessonii	(Cass.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		24
https://id.biodiversity.org.au/node/apni/2890360	Stylidium calcaratum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Spurred Trigger-plant	24
https://id.biodiversity.org.au/node/apni/2890488	Thysanotus thyrsoideus	Baker	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		24
https://id.biodiversity.org.au/node/apni/2892895	Dillwynia laxiflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		24
https://id.biodiversity.org.au/node/apni/2892900	Stylidium piliferum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Common Butterfly Triggerplant	24
https://id.biodiversity.org.au/node/apni/2893649	Opercularia vaginata	Labill. ex Juss.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Dog Weed	24
https://id.biodiversity.org.au/node/apni/2894326	Melia azedarach	L.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Meliaceae	White Cedar	24
https://id.biodiversity.org.au/node/apni/2896043	Banksia grandis	Willd.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Giant Banksia	24
https://id.biodiversity.org.au/node/apni/2896883	Gastrolobium acutum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		24
https://id.biodiversity.org.au/node/apni/2907933	Daviesia preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		24
https://id.biodiversity.org.au/node/apni/2916029	Laxmannia ramosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		24
https://id.biodiversity.org.au/node/apni/2918789	Waitzia suaveolens	(Benth.) Druce	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Fragrant Waitzia	24
https://id.biodiversity.org.au/taxon/apni/51283561	Drosera gigantea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Giant Sundew	24
https://id.biodiversity.org.au/taxon/apni/51286820	Paraserianthes lophantha	(Willd.) I.C.Nielsen	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cape Leeuwin Wattle	24
https://id.biodiversity.org.au/taxon/apni/51399184	Caladenia macrostylis	Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Leaping Spider Orchid	24
https://id.biodiversity.org.au/taxon/apni/51406501	Lyperanthus serratus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Rattle Beaks	24
NZOR-6-20562	Volvopluteus gloiocephalus	(DC.) Vizzini, Contu & Justo	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Pluteaceae		23
https://biodiversity.org.au/afd/taxa/1ed4a6d6-429b-405e-8dca-985af1a99c9e	Lasioglossum (Chilalictus) ebeneum	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		23
https://biodiversity.org.au/afd/taxa/2b38fa11-b7fb-4bd0-820f-a020e6a5f86a	Argiope trifasciata	(ForsskÃ¥l, 1775)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	23
https://biodiversity.org.au/afd/taxa/98097ce3-3e12-4aa4-adeb-7f25c62a039d	Ogyris idmo	Hewitson, 1862	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Large Bronze Azure	23
https://biodiversity.org.au/afd/taxa/9cb51aaa-a68e-4563-a8d6-f63e5858b297	Varanus tristis	(Schlegel, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Varanidae	Black-headed Monitor	23

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/c580bea5-7a14-4902-8d1b-29474d96a396	Anisynta sphenosema	(Meyrick & Lower, 1902)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Wedge Grass-skipper	23
https://biodiversity.org.au/afd/taxa/d5538ef6-8d67-4790-9e59-2d24bc62daed	Hyperoedesipus plumosus	Nicholls & Milner, 1923	species	Animalia	Arthropoda	Malacostraca	Isopoda	Hypsimetopodidae		23
https://biodiversity.org.au/afd/taxa/e0a1cf2b-8757-4068-9fd1-8992df6a68ff	Varanus gouldii	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Varanidae	Gould's Goanna	23
https://biodiversity.org.au/afd/taxa/e6ea1087-ce34-4cf8-be85-546a9d732965	Calidris (Erolia) ferruginea	(Pontoppidan, 1763)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Curlew Sandpiper	23
https://id.biodiversity.org.au/node/apni/2886346	Trachymene coerulea	Graham	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Rottnest Island Daisy	23
https://id.biodiversity.org.au/node/apni/2888871	Caustis dioica	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		23
https://id.biodiversity.org.au/node/apni/2891192	Hesperantha falcata	(L.f.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Hesperantha	23
https://id.biodiversity.org.au/node/apni/2893435	Lawrencella rosea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		23
https://id.biodiversity.org.au/node/apni/2900342	Acacia stenoptera	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-winged Wattle	23
https://id.biodiversity.org.au/node/apni/2905735	Banksia ilicifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Holly Leaved Banksia	23
https://id.biodiversity.org.au/node/apni/2906882	Acacia auronitens	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		23
https://id.biodiversity.org.au/node/apni/2908275	Jacksonia lehmannii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		23
https://id.biodiversity.org.au/node/apni/2910089	Laxmannia sessiliflora	Decne.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Nodding Lily	23
https://id.biodiversity.org.au/node/apni/2912739	Quinetia urvillei	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Quinetia	23
https://id.biodiversity.org.au/node/apni/2916921	Banksia bipinnatifida	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		23
https://id.biodiversity.org.au/node/apni/2918358	Gonocarpus cordiger	(Fenzl) Nees	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		23
https://id.biodiversity.org.au/node/apni/2919407	Glischrocaryon aureum	(Lindl.) Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Yellow Popflower	23
https://id.biodiversity.org.au/node/apni/2920110	Wahlenbergia preissii	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae		23
https://id.biodiversity.org.au/node/fungi/60100835	Tremella mesenterica	Retz.	species	Fungi	Basidiomycota	Tremellomycetes	Tremellales	Tremellaceae		23
https://id.biodiversity.org.au/taxon/apni/51291052	Bellardia trixago	(L.) All.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Bellardia	23
https://id.biodiversity.org.au/taxon/apni/51431584	Thysanotus patersonii	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Twining Fringe-lily	23
https://biodiversity.org.au/afd/taxa/216871b2-064f-4a39-89c5-69066b6d5ae5	Temognatha conspicillata	(White, 1843)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		22
https://biodiversity.org.au/afd/taxa/4d3f2695-13da-4175-9f20-057c77797654	Glossurocolletes bilobatus	(Michener, 1965)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	A Short-tongued Bee (southwest)	22
https://biodiversity.org.au/afd/taxa/5851a3f8-4962-477f-bd38-4f86473472f5	Cheramoeca leucosterna	(Gould, 1841)	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	White-backed Swallow	22
https://biodiversity.org.au/afd/taxa/76fa9d70-bed0-4eb9-9721-a796e36cf797	Plebs cyphoxis	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	22
https://biodiversity.org.au/afd/taxa/bae6a91e-f616-4f7f-b1f5-84ecefcd9603	Rhantus suturalis	(W.S. Macleay, 1825)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	22
https://biodiversity.org.au/afd/taxa/ea2d172e-284b-400c-bc3c-b1677cac348e	Phoracantha semipunctata	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Common Eucalypt Longicorn	22
https://id.biodiversity.org.au/node/apni/2886511	Austrostipa elegantissima	(Labill.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Feather Spear-grass	22
https://id.biodiversity.org.au/node/apni/2889785	Cassytha pomiformis	Nees	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	22
https://id.biodiversity.org.au/node/apni/2893109	Acacia lasiocarpa	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		22
https://id.biodiversity.org.au/node/apni/2893176	Casuarina obesa	Miq.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Swamp Sheoak	22
https://id.biodiversity.org.au/node/apni/2898446	Mirbelia spinosa	(Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		22
https://id.biodiversity.org.au/node/apni/2903460	Lepidobolus preissianus	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		22
https://id.biodiversity.org.au/node/apni/2904899	Lupinus angustifolius	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-leaf Lupin	22
https://id.biodiversity.org.au/taxon/apni/51431734	Asplenium subglandulosum	(Hook. & Grev.) Salvo, Prada & T.E.Diaz	species	Plantae	Charophyta	Equisetopsida	Polypodiales	Aspleniaceae	Glandular Blanket-fern	22
https://biodiversity.org.au/afd/taxa/07f2e8c3-1e0c-4a02-8177-bf9b54435b93	Carduelis carduelis	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Passeriformes	Fringillidae	European Goldfinch	21
https://biodiversity.org.au/afd/taxa/20938676-d287-43d7-a887-a15fbb3ff6bb	Ixobrychus dubius	Mathews, 1912	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Minute Bittern	21
https://biodiversity.org.au/afd/taxa/3f577852-cd1f-40a2-9a4b-a331d595588f	Glycyphana (Glycyphaniola) stolata	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		21
https://biodiversity.org.au/afd/taxa/4afda0eb-f515-48f7-baf9-75186fbb8b90	Ischnura aurora	(Brauer, 1865)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	Aurora Bluetail	21
https://biodiversity.org.au/afd/taxa/513b8c47-ba97-4d57-8fa1-33d7ab58507e	Notiasemus glauerti	L.E. Koch, 1985	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		21
https://biodiversity.org.au/afd/taxa/8ee701f5-8f09-4b90-afcb-83bdb7c7b259	Distoleon bistrigatus	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Antlion Lacewing	21
https://biodiversity.org.au/afd/taxa/919242c6-b549-484c-8af0-f0ad53d353df	Havinthus rufovarius	Bergroth, 1895	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	21
https://id.biodiversity.org.au/name/apni/51731116	Lysimachia loeflingii	F.J.JimÃ©nez & M.Talavera	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae		21
https://id.biodiversity.org.au/node/apni/2901397	Stylidium thesioides	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Delicate Triggerplant	21
https://id.biodiversity.org.au/node/apni/2903478	Jacksonia sericea	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Waldjumi	21
https://id.biodiversity.org.au/node/apni/2910145	Andersonia aristata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Rice Flower	21
https://id.biodiversity.org.au/node/apni/2914975	Scaevola pilosa	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Hairy Fanflower	21
https://id.biodiversity.org.au/node/apni/2916759	Amyema linophylla	(Fenzl) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Buloke Mistletoe	21
https://id.biodiversity.org.au/node/apni/2917430	Schoenus efoliatus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		21
https://id.biodiversity.org.au/node/apni/2917694	Astroloma ciliatum	(Lindl.) Druce	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Candle Cranberry	21
https://id.biodiversity.org.au/node/apni/2919200	Acacia iteaphylla	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flinders Range Wattle	21
https://id.biodiversity.org.au/node/apni/2919940	Dampiera alata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Winged-stemmed Dampiera	21

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2920442	Gompholobium aristatum	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		21
https://id.biodiversity.org.au/node/apni/2920781	Petrophile seminuda	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		21
https://id.biodiversity.org.au/node/apni/2921020	Acacia podalyriifolia	A.Cunn. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Mount Morgan Wattle	21
https://id.biodiversity.org.au/taxon/apni/51286955	Acacia longifolia	(Andrews) Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sallow Wattle	21
https://id.biodiversity.org.au/taxon/apni/51294414	Stylidium scariosum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		21
https://id.biodiversity.org.au/taxon/apni/51299932	Calytrix breviseta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		21
https://id.biodiversity.org.au/taxon/apni/51399117	Caladenia latifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Fairies	21
https://id.biodiversity.org.au/taxon/ausmoss/10152591	Campylopus introflexus	(Hedw.) Brid.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Swan-neck Moss	21
https://biodiversity.org.au/afd/taxa/1e540286-d6f2-43a1-bf27-180858eb9f98	Helea perforata	(Latreille, 1817)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		20
https://biodiversity.org.au/afd/taxa/4f86df08-2087-4ac5-bb47-30f60fd34826	Nunciella aspera	(Pocock, 1903)	species	Animalia	Arthropoda	Arachnida	Opiliones	Triaenonychidae		20
https://biodiversity.org.au/afd/taxa/5298b59a-5c28-463a-ac1b-53d4f8045cc2	Crypsiphona ocultaria	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Redlined Geometrid Moth	20
https://biodiversity.org.au/afd/taxa/5c0d591a-0a98-48c6-8a4b-f925d43521cd	Manorina (Myzantha) flavigula	(Gould, 1840)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Yellow-throated Miner	20
https://biodiversity.org.au/afd/taxa/69a7cfa9-2857-4f53-a1b4-99d1733b1dcd	Trichiocercus sparshalli	(Curtis, 1830)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Moth	20
https://biodiversity.org.au/afd/taxa/6d0b779e-0f97-45ba-95cf-6560ef59bce9	Lasioglossum (Chilalictus) mirandum	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		20
https://biodiversity.org.au/afd/taxa/875c569a-8036-4f9d-ac79-8441f6a64d6d	Camponotus molossus	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Western Flumed Sugar Ant	20
https://biodiversity.org.au/afd/taxa/9d07d302-22d9-4563-9830-868ab6d53d2f	Abispa (Abispa) ephippium	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	Potter Wasp	20
https://biodiversity.org.au/afd/taxa/fcfc90f4-a638-41bb-b5b5-39558018ab3f	Megachile horatii	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		20
https://id.biodiversity.org.au/node/apni/2886180	Poa drummondiana	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Knotted Poa	20
https://id.biodiversity.org.au/node/apni/2890009	Synaphea pinnata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Helena Synaphea	20
https://id.biodiversity.org.au/node/apni/2892132	Pentapeltis peltigera	(Hook.) Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		20
https://id.biodiversity.org.au/node/apni/2895348	Thysanotus arbuscula	Baker	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		20
https://id.biodiversity.org.au/node/apni/2896141	Hibbertia racemosa	(Endl.) Gilg	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Stalked Guinea Flower	20
https://id.biodiversity.org.au/node/apni/2896451	Utricularia multifida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Pink Petticoats	20
https://id.biodiversity.org.au/node/apni/2897244	Oxalis pes-caprae	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Soursob	20
https://id.biodiversity.org.au/node/apni/2897295	Lasiopetalum bracteatum	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Helena Velvet Bush	20
https://id.biodiversity.org.au/node/apni/2904201	Lysinema ciliatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Curry Flower	20
https://id.biodiversity.org.au/node/apni/2905557	Eucalyptus accedens	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Powder Bark Wandoo	20
https://id.biodiversity.org.au/node/apni/2919145	Comesperma calymega	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Blue-spike Milkwort	20
https://id.biodiversity.org.au/node/apni/2920172	Gastrolobium ebracteolatum	G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		20
https://id.biodiversity.org.au/taxon/apni/51251009	Daviesia nudiflora	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		20
https://id.biodiversity.org.au/taxon/apni/51288847	Beaufortia macrostemon	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Darling Range Beaufortia	20
https://id.biodiversity.org.au/taxon/apni/51289773	Eremaea fimbriata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		20
https://id.biodiversity.org.au/taxon/apni/51299839	Aotus cordifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		20
https://id.biodiversity.org.au/taxon/apni/51403416	Disa bracteata	Sw.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	South African Orchid	20
https://id.biodiversity.org.au/taxon/apni/51448749	Hybanthus floribundus	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Violaceae	Shrub Spade Flower	20
https://id.biodiversity.org.au/taxon/apni/51741659	Brachyscome iberidifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Brachyscome	20
https://biodiversity.org.au/afd/taxa/55bb2bb4-2268-4e91-8f74-2478c0a7b258	Missulena occatoria	Walckenaer, 1805	species	Animalia	Arthropoda	Arachnida	Araneae	Actinopodidae	Red-headed Mouse Spider	19
https://biodiversity.org.au/afd/taxa/6c33bbf4-9f47-4d92-a4f3-4a485ba1ccae	Uresiphita ornithopteralis	(GuenÃ©e, 1854)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Tree Lucerne Moth	19
https://biodiversity.org.au/afd/taxa/6f0f0293-b957-487b-b367-3faa3d24c0fa	Cincloramphus (Cincloramphus) cruralis	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Locustellidae	Brown Songlark	19
https://biodiversity.org.au/afd/taxa/7058a23d-ab34-4b20-a8ff-b41704dd2973	Ceryerda cursitans	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Gnaphosidae		19
https://biodiversity.org.au/afd/taxa/775763cc-805b-4d96-ab6a-e237c2651c37	Cornu apertus	(Born, 1778)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Helicidae	Green Snail	19
https://biodiversity.org.au/afd/taxa/96dae6b4-83c8-449a-9fce-d094518f918e	Idiosoma rhaphiduca	(Rainbow & Pulleine, 1918)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		19
https://biodiversity.org.au/afd/taxa/a2260672-36df-48be-8a9e-d85a77237ba5	Dasyurus geoffroii	Gould, 1841	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Dasyuridae	Chuditch	19
https://biodiversity.org.au/afd/taxa/b585237a-b161-420f-b657-9632e132b40c	Adversaeschna brevistyla	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Odonata	Aeshnidae	Blue-spotted Hawker	19
https://biodiversity.org.au/afd/taxa/d9061bb7-6e32-4e47-bb5c-ebd6f1919ec0	Hippotion celerio	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Grapevine Hawk Moth	19
https://biodiversity.org.au/afd/taxa/e8bd358a-692d-46d9-9f1c-934957f11793	Scolopendra laeta	Haase, 1887	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		19
https://id.biodiversity.org.au/name/apni/51306682	Hibbertia improna	K.R.Thiele	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		19
https://id.biodiversity.org.au/node/apni/2887385	Pavonia hastata	Cav.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Pink Pavonia	19
https://id.biodiversity.org.au/node/apni/2896299	Schoenus unispiculatus	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		19
https://id.biodiversity.org.au/node/apni/2900679	Thysanotus triandrus	(Labill.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Three-stamened Fringe Lily	19
https://id.biodiversity.org.au/node/apni/2902418	Ptilotus esquamatus	(Benth.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		19

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2902585	Eucalyptus laeliae	Podger & Chippend.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Darling Range Ghost Gum	19
https://id.biodiversity.org.au/node/apni/2903083	Orobanche minor	Sm.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Lesser Broomrape	19
https://id.biodiversity.org.au/node/apni/2904086	Freesia leichtlinii	Klatt	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Freesia	19
https://id.biodiversity.org.au/node/apni/2904420	Melaleuca trichophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		19
https://id.biodiversity.org.au/node/apni/2905001	Hemiphora bartlingii	(Lehm.) B.J.Conn & Henwood	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		19
https://id.biodiversity.org.au/node/apni/2905202	Leucopogon propinquus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		19
https://id.biodiversity.org.au/node/apni/2907538	Thysanotus tenellus	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Grassy Fringe-lily	19
https://id.biodiversity.org.au/node/apni/2907808	Pithocarpa pulchella	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Dark-stigma Pithocarpa	19
https://id.biodiversity.org.au/node/apni/2908483	Melaleuca scabra	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Rough Honeymyrtle	19
https://id.biodiversity.org.au/node/apni/2908709	Rubus laudatus	A.Berger	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Blackberry	19
https://id.biodiversity.org.au/node/apni/2914798	Ptilotus declinatus	Nees	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Curved Mulla-mulla	19
https://id.biodiversity.org.au/node/apni/2917475	Marianthus coeruleopunctatus	Klotzsch	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		19
https://id.biodiversity.org.au/node/apni/2919436	Lepidosperma squamatum	Labill.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		19
https://id.biodiversity.org.au/node/apni/8354183	Chorizema cordatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flame Pea	19
https://id.biodiversity.org.au/taxon/apni/51299942	Calytrix variabilis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		19
https://id.biodiversity.org.au/taxon/apni/51409785	Prasophyllum hians	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Yawning Leek Orchid	19
https://id.biodiversity.org.au/taxon/apni/51413275	Spiculaea ciliata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Elbow Orchid	19
https://id.biodiversity.org.au/taxon/apni/51414242	Thelymitra benthamiana	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Leopard Sun-orchid	19
https://biodiversity.org.au/afd/taxa/0068714f-cc38-49e8-9541-7ff0e796b5f9	Limosa lapponica	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Bar-tailed Godwit	18
https://biodiversity.org.au/afd/taxa/09e007e5-22c5-44ff-9654-4bcf4f1fcdb4	Simosyrphus grandicornis	(Macquart, 1842)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Hoverfly	18
https://biodiversity.org.au/afd/taxa/0d4c9c0c-51d3-44e0-a365-fe0f8b791c66	Tachyglossus aculeatus	(Shaw, 1792)	species	Animalia	Chordata	Mammalia	Monotremata	Tachyglossidae	Short-beaked Echidna	18
https://biodiversity.org.au/afd/taxa/2f7ff6e5-1372-4c95-8280-df0c508c9a34	Diplodactylus lateroides	Doughty & Oliver, 2013	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Speckled Stone Gecko	18
https://biodiversity.org.au/afd/taxa/44d06aa5-42c6-4a2e-91e1-03630b442be5	Phrissogonus laticostata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	18
https://biodiversity.org.au/afd/taxa/4f80dc94-0e5b-4413-a09d-b4d52c0a192e	Bembix variabilis	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	18
https://biodiversity.org.au/afd/taxa/4ff0df2f-fcd1-4742-9db5-6d9f340f8a46	Theseus modestus	(StÃ¥l, 1865)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	18
https://biodiversity.org.au/afd/taxa/5ba85a24-db9f-4960-9f84-eeec08253e1a	Bathyllus albicinctus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cercopidae	Froghopper	18
https://biodiversity.org.au/afd/taxa/5d337f86-08d5-4cf7-97f6-e67a0b452d3d	Castiarina anchoralis	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		18
https://biodiversity.org.au/afd/taxa/7ffddf57-f3d3-4f5c-89b5-fed4624f30f3	Castiarina decemguttata	(Gory, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		18
https://biodiversity.org.au/afd/taxa/8300879b-83bc-458d-88b3-bd9ecbd96722	Lasioglossum (Parasphecodes) hiltacum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	18
https://biodiversity.org.au/afd/taxa/952ae705-57e2-43d1-9a06-b35498202469	Mus musculus	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	House Mouse	18
https://biodiversity.org.au/afd/taxa/c69e7308-527a-429d-a80d-143bd20b5100	Recurvirostra novaehollandiae	Vieillot, 1816	species	Animalia	Chordata	Aves	Charadriiformes	Recurvirostridae	Red-necked Avocet	18
https://biodiversity.org.au/afd/taxa/cc83c072-c221-40e4-adcb-5694a5a2aacc	Antaresia childreni	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Pythonidae	Children's Python	18
https://biodiversity.org.au/afd/taxa/dcd623e7-1520-468e-8f08-7fbfd413b71f	Lampides boeticus	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Long-tailed Pea-blue	18
https://biodiversity.org.au/afd/taxa/e2b6aed6-2f82-4b7c-9966-5ef2f9190bee	Apus (Apus) pacificus	(Latham, 1801)	species	Animalia	Chordata	Aves	Apodiformes	Apodidae	Fork-tailed Swift	18
https://biodiversity.org.au/afd/taxa/eb236480-52c4-4b0e-86ea-4e66c7775d6f	Zizina otis	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Common Grass-blue	18
https://biodiversity.org.au/afd/taxa/eb7e2eb7-7104-47bd-8804-0fb58839ba1a	Pseudechis australis	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Mulga Snake	18
https://biodiversity.org.au/afd/taxa/ee694d26-6d4d-4837-99ad-9b25d3454d9d	Aegotheles (Aegotheles) cristatus	(Shaw, 1790)	species	Animalia	Chordata	Aves	Apodiformes	Aegothelidae	Australian Owlet-nightjar	18
https://id.biodiversity.org.au/node/apni/2889848	Hakea varia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Variable-leaved Hakea	18
https://id.biodiversity.org.au/node/apni/2890500	Cyathochaeta equitans	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		18
https://id.biodiversity.org.au/node/apni/2891356	Patersonia juncea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Rush Leaved Patersonia	18
https://id.biodiversity.org.au/node/apni/2891848	Tetratheca nuda	Lindl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		18
https://id.biodiversity.org.au/node/apni/2894669	Moraea flaccida	(Sweet) Steud.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	One-leaf Cape Tulip	18
https://id.biodiversity.org.au/node/apni/2894715	Sparaxis bulbifera	(L.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Sparaxis	18
https://id.biodiversity.org.au/node/apni/2894927	Babiana angustifolia	Sweet	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Baboon Flower	18
https://id.biodiversity.org.au/node/apni/2897217	Astroloma xerophyllum	(DC.) Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		18
https://id.biodiversity.org.au/node/apni/2897625	Comesperma virgatum	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Milkwort	18
https://id.biodiversity.org.au/node/apni/2897935	Ipomoea cairica	(L.) Sweet	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Mile-a-minute	18
https://id.biodiversity.org.au/node/apni/2900212	Melaleuca seriata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		18
https://id.biodiversity.org.au/node/apni/2901429	Acacia barbinervis	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		18
https://id.biodiversity.org.au/node/apni/2904923	Byblis gigantea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Byblidaceae	Rainbow Plant	18
https://id.biodiversity.org.au/node/apni/2907556	Daviesia rhombifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		18
https://id.biodiversity.org.au/node/apni/2910944	Persoonia elliptica	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Snottygobble	18
https://id.biodiversity.org.au/node/apni/2912207	Pimelea argentea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Silver-leaved Pimelea	18

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2913238	Gompholobium shuttleworthii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		18
https://id.biodiversity.org.au/node/apni/2913977	Banksia littoralis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Swamp Banksia	18
https://id.biodiversity.org.au/node/apni/2918409	Levenhookia preissii	(Sond.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Preiss's Stylewort	18
https://id.biodiversity.org.au/node/apni/7992083	Stylidium utricularioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pink Fan Triggerplant	18
https://id.biodiversity.org.au/node/apni/7993433	Stylidium petiolare	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Horn Triggerplant	18
https://id.biodiversity.org.au/taxon/apni/51283565	Drosera hirsuta	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		18
https://id.biodiversity.org.au/taxon/apni/51291824	Lysimachia arvensis	(L.) U.Manns & Anderb.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae	Pimpernel	18
https://id.biodiversity.org.au/taxon/apni/51399090	Caladenia huegelii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Grand Spider Orchid	18
https://id.biodiversity.org.au/taxon/apni/51409779	Prasophyllum gracile	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Laughing Leek Orchid	18
https://id.biodiversity.org.au/taxon/apni/51439660	Calytrix acutifolia	(Lindl.) Craven	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		18
https://id.biodiversity.org.au/taxon/apni/51445274	Banksia nivea	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		18
ALA_DR22913_1660	Cochlicella barbara		species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	White Snail	17
https://biodiversity.org.au/afd/taxa/01a01f4f-c652-4ccf-af3b-28f3c9be59dd	Macrogyrus (Tribologyrus) angustatus	RÃ©gimbart, 1883	species	Animalia	Arthropoda	Insecta	Coleoptera	Gyrinidae	Whirligig Beetle	17
https://biodiversity.org.au/afd/taxa/27335d41-6d41-4438-b66a-6b5146234713	Thalaina angulosa	Walker, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Angled Satin Moth	17
https://biodiversity.org.au/afd/taxa/3e9c17c9-270f-4a74-9ed8-7ccabd575be9	Calidris (Calidris) tenuirostris	(Horsfield, 1821)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Great Knot	17
https://biodiversity.org.au/afd/taxa/4574c573-e2ea-4ae0-99d0-fe2dd5d88a5c	Melanerythrus mactans	(StÃ¥l, 1866)	species	Animalia	Arthropoda	Insecta	Hemiptera	Lygaeidae	Bug	17
https://biodiversity.org.au/afd/taxa/5610f949-7a69-4a0c-bf6b-b05d2c0d894e	Malurus (Musciparus) leucopterus	Dumont, 1824	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	White-winged Fairy-wren	17
https://biodiversity.org.au/afd/taxa/77d4dc09-7568-418c-bc67-6c625370fff3	Lenophila nila	McAlpine & Kim, 1977	species	Animalia	Arthropoda	Insecta	Diptera	Platystomatidae		17
https://biodiversity.org.au/afd/taxa/7a39c977-3c87-4d6d-842f-9844d0c9ccd7	Monopis meliorella	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tineidae		17
https://biodiversity.org.au/afd/taxa/86fb93fd-4551-4b38-9a12-62b6b433729b	Tyto javanica	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Strigiformes	Tytonidae	Eastern Barn Owl	17
https://biodiversity.org.au/afd/taxa/895f3296-2b6c-48c2-a258-af796b671474	Pseudogobius olorum	(Sauvage, 1880)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Bluespot Goby	17
https://biodiversity.org.au/afd/taxa/9747568a-90d7-45f8-a850-d9a23f1aa724	Poecilometis patruelis	StÃ¥l, 1860	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	17
https://biodiversity.org.au/afd/taxa/a9cd0645-a05f-4285-9b40-3ecd8e56569f	Megachile (Hackeriapis) oblonga	Smith, 1879	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	17
https://biodiversity.org.au/afd/taxa/ac48e985-2adb-4c1e-bce9-39906cf6761d	Podalonia tydei	(Le Guillou, 1841)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae	Wasp	17
https://biodiversity.org.au/afd/taxa/ad6c7962-79b8-405b-9390-6d388a6e0120	Diphucrania stigmata	(Gory & Laporte, 1839)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		17
https://biodiversity.org.au/afd/taxa/b850276b-4a77-436b-a2bf-f62e8ab81ff6	Hylaeus (Euprosopis) violaceus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Species Of Yellowfaced Bee	17
https://biodiversity.org.au/afd/taxa/bec77cad-bfa0-4430-9df6-10dd506a4949	Arenopsaltria fullo	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Sandgrinder	17
https://biodiversity.org.au/afd/taxa/c95af018-43ab-43b8-8e14-037604db64f6	Epthianura (Epthianura) albifrons	(Jardine & Selby, 1828)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-fronted Chat	17
https://biodiversity.org.au/afd/taxa/fc2b7200-f051-4dfc-82a5-6564a58bedaf	Morethia obscura	Storr, 1972	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Shrubland Morethia Skink	17
https://id.biodiversity.org.au/node/apni/2886928	Podotheca angustifolia	(Labill.) Less.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Sticky Long-heads	17
https://id.biodiversity.org.au/node/apni/2892738	Lobelia rhombifolia	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tufted Lobelia	17
https://id.biodiversity.org.au/node/apni/2893525	Hemigenia parviflora	Bartl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		17
https://id.biodiversity.org.au/node/apni/2894425	Gompholobium scabrum	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Painted Lady	17
https://id.biodiversity.org.au/node/apni/2895377	Stirlingia simplex	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		17
https://id.biodiversity.org.au/node/apni/2897654	Grevillea quercifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Oak-leaf Grevillea	17
https://id.biodiversity.org.au/node/apni/2900739	Ipomoea indica	(Burm.) Merr.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Purple Morning-glory	17
https://id.biodiversity.org.au/node/apni/2900926	Banksia telmatiaea	A.S.George	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Swamp Fox Banksia	17
https://id.biodiversity.org.au/node/apni/2905928	Poranthera microphylla	Brongn.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Small Poranthera	17
https://id.biodiversity.org.au/node/apni/2906266	Cenchrus setaceus	(Forssk.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fountain Grass	17
https://id.biodiversity.org.au/node/apni/2910029	Acacia ericifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		17
https://id.biodiversity.org.au/node/apni/2910148	Acacia dentifera	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tooth-bearing Acacia	17
https://id.biodiversity.org.au/node/apni/2920309	Diplolaena andrewsii	Ostenf.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		17
https://id.biodiversity.org.au/node/apni/2920477	Synaphea gracillima	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		17
https://id.biodiversity.org.au/node/ausmoss/10059274	Barbula calycina	SchwÃ¤gr.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Common Beard-moss	17
https://id.biodiversity.org.au/taxon/apni/51404251	Diuris laxiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bee Orchid	17
https://id.biodiversity.org.au/taxon/apni/51446863	Asterolasia pallida	Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		17
https://id.biodiversity.org.au/taxon/apni/51737006	Hydrocotyle intertexta	R.Br. ex A.Rich.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Buttercup Pennywort	17
https://biodiversity.org.au/afd/taxa/0d0c5545-e1eb-4525-b4b1-be10f8a24cc4	Mituliodon tarantulinus	(L. Koch, 1873)	species	Animalia	Arthropoda	Arachnida	Araneae	Miturgidae	Long-legged Sac Spider	16
https://biodiversity.org.au/afd/taxa/1a03ac28-58ba-46c9-a175-fe9cf12c6cf5	Sceliphron laetum	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae	Common Mud Daubler	16
https://biodiversity.org.au/afd/taxa/39e88850-253e-4937-a670-fe0d04882720	Leioproctus (Leioproctus) cupreus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	16
https://biodiversity.org.au/afd/taxa/3c441d79-1941-4e86-a351-4c08afe5e12b	Helicoverpa punctigera	(Wallengren, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Native Budworm	16

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/5b4ac62d-4174-4963-8738-06f5359f3366	Danaus chrysippus	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Lesser Wanderer	16
https://biodiversity.org.au/afd/taxa/68fe3abe-50b8-45f6-bace-2ec136a5083e	Castiarina nonyma	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		16
https://biodiversity.org.au/afd/taxa/6f129188-dead-4e5c-b945-7fe12a14a7ae	Oechalia schellenbergii	(GuÃ©rin, 1831)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Predatory Shield Bug	16
https://biodiversity.org.au/afd/taxa/90e848e6-1ed2-49e2-bc7a-04572be79c8e	Holocnemus pluchii	(Scopoli, 1763)	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae	Cellar Spider	16
https://biodiversity.org.au/afd/taxa/93dd19fa-7a09-44f2-8f06-464801fbc252	Lasioglossum (Parasphecodes) hilactum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	16
https://biodiversity.org.au/afd/taxa/9a730124-d066-48ea-ac7e-85870758b8da	Physeema convergens	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		16
https://biodiversity.org.au/afd/taxa/b2761e62-2c3e-4017-911a-e4511cd3d7d1	Cherax quinquecarinatus	(Gray, 1845)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Djilgi	16
https://biodiversity.org.au/afd/taxa/cf2e1ebd-7d20-42b9-908a-1ec48d4281d5	Tympanophora andreae	Rentz, 2001	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		16
https://id.biodiversity.org.au/node/apni/2888430	Amyema preissii	(Miq.) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Wire-leaf Mistletoe	16
https://id.biodiversity.org.au/node/apni/2890562	Marianthus drummondianus	(Putt.) Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		16
https://id.biodiversity.org.au/node/apni/2891037	Aphelia cyperoides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		16
https://id.biodiversity.org.au/node/apni/2893194	Boronia ramosa	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		16
https://id.biodiversity.org.au/node/apni/2896207	Stylidium ciliatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Golden Triggerplant	16
https://id.biodiversity.org.au/node/apni/2899991	Microcorys longifolia	(Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		16
https://id.biodiversity.org.au/node/apni/2902290	Stylidium carnosum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Fleshy-leaved Triggerplant	16
https://id.biodiversity.org.au/node/apni/2902747	Lysinema pentapetalum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Curry Flower	16
https://id.biodiversity.org.au/node/apni/2903788	Platysace filiformis	(Bunge) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		16
https://id.biodiversity.org.au/node/apni/2908654	Gonocarpus pithyoides	Nees	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		16
https://id.biodiversity.org.au/node/apni/2910499	Phyllangium paradoxum	(R.Br.) Dunlop	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae	Wiry Mitrewort	16
https://id.biodiversity.org.au/node/apni/2912853	Rhodanthe corymbosa	(A.Gray) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		16
https://id.biodiversity.org.au/node/apni/2914187	Marianthus candidus	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	White Marianthus	16
https://id.biodiversity.org.au/node/apni/2916373	Schoenus grammatophyllus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		16
https://id.biodiversity.org.au/node/apni/2916424	Persoonia angustiflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		16
https://id.biodiversity.org.au/node/apni/2916697	Stylidium pubigerum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Yellow Butterfly Triggerplant	16
https://id.biodiversity.org.au/node/apni/7993055	Stylidium xanthellum	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Little Yellow Triggerplant	16
https://id.biodiversity.org.au/taxon/apni/51283502	Drosera bulbosa	Hook.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Red-leaved Sundew	16
https://id.biodiversity.org.au/taxon/apni/51289143	Calothamnus phellosus	A.S.George	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		16
https://id.biodiversity.org.au/taxon/apni/51299925	Calytrix angulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Starflower	16
https://id.biodiversity.org.au/taxon/apni/51399170	Caladenia longiclavata	E.Coleman	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Clubbed Spider Orchid	16
https://id.biodiversity.org.au/taxon/apni/51409749	Prasophyllum elatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Leek-orchid	16
https://id.biodiversity.org.au/taxon/apni/51438490	Linum trigynum	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Linaceae	French Flax	16
https://biodiversity.org.au/afd/taxa/07580bcc-736a-4003-a226-68c17f062617	Myobatrachus gouldii	(Gray, 1841)	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Turtle Frog	15
https://biodiversity.org.au/afd/taxa/0cf87549-56ab-44a0-9dae-98a9152228d6	Pholcus phalangioides	(Fuesslin, 1775)	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae	Cellar Spider	15
https://biodiversity.org.au/afd/taxa/107f39b8-0ecf-4c58-b908-7b818e639a91	Kawanaphila nartee	Rentz, 1993	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		15
https://biodiversity.org.au/afd/taxa/14b2288d-284e-4dbe-8164-ca7ee9ad4014	Cheilomenes sexmaculata	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		15
https://biodiversity.org.au/afd/taxa/22d0ca8a-3192-4da4-9a76-38f1d51242b6	Geitoneura klugii	(GuÃ©rin-MÃ©neville, 1830)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Klug's Xenica	15
https://biodiversity.org.au/afd/taxa/3315dd4e-2c15-40b6-a479-f0e4086c13f2	Rhipicera (Agathorhipis) femorata	Kirby, 1818	species	Animalia	Arthropoda	Insecta	Coleoptera	Rhipiceridae	Feather-horned Beetle	15
https://biodiversity.org.au/afd/taxa/37dbd3f0-21ce-40ab-ab03-4d249ef05241	Agrotis munda	Walker, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Brown Cutworm Moth	15
https://biodiversity.org.au/afd/taxa/43adf129-76b1-4e81-9593-cd4f5ac7c829	Spoladea recurvalis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		15
https://biodiversity.org.au/afd/taxa/47aeda9f-c8d6-40e7-ba98-359bbce14177	Anoplostethus opalinus	BrullÃ©, 1837	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		15
https://biodiversity.org.au/afd/taxa/47d420a4-1da3-4e66-9133-7e942790b42d	Castiarina versicolor	Gory & Laporte, 1838	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		15
https://biodiversity.org.au/afd/taxa/54d8a8b2-debc-40ef-b934-129951b15d81	Choerocoris paganus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hemiptera	Scutelleridae	Ground Shield Bug	15
https://biodiversity.org.au/afd/taxa/5fa0da9c-420a-44de-821e-116cf5048142	Chrysis lincea	Fabricius, 1775	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		15
https://biodiversity.org.au/afd/taxa/6c0f8dd3-065c-4563-abe1-379f04dc399a	Enochrus (Methydrus) eyrensis	(Blackburn, 1895)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	15
https://biodiversity.org.au/afd/taxa/94822bd7-d03a-43ff-b933-e74107bfaf9e	Socca arena	Framenau, Castanheira & Vink, 2022	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		15
https://biodiversity.org.au/afd/taxa/a767fc86-3204-4a44-a2cd-7739545a5aa6	Delias aganippe	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Red-spotted Jezebel	15
https://biodiversity.org.au/afd/taxa/ab455a0c-4545-4c5d-b2e8-1d8f112e413f	Sternula nereis	(Gould, 1843)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Fairy Tern	15
https://biodiversity.org.au/afd/taxa/d3aab714-6a52-45a3-920f-902be78a5e7a	Ellipsidion humerale	(Tepper, 1893)	species	Animalia	Arthropoda	Insecta	Blattodea	Pseudophyllodromiidae	Bush Cockroach	15
https://biodiversity.org.au/afd/taxa/dd3f40ae-be34-4d9a-825d-35b91b0a754f	Requena verticalis	Walker, 1869	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		15
https://biodiversity.org.au/afd/taxa/e2b8086f-fb5a-41ac-9003-d9aed827dfe3	Calidris (Calidris) canutus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Red Knot	15
https://biodiversity.org.au/afd/taxa/ee8173fd-6640-429c-94a3-1ffe5e75b328	Echetlus peristhenes	(Westwood, 1859)	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae	Wa Slender Stick-insect	15
https://biodiversity.org.au/afd/taxa/f7e0d442-881f-44d8-827a-122ffdca9c71	Physeema quadricincta	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Tick-tock	15
https://biodiversity.org.au/afd/taxa/fd2adda6-b736-482b-ad39-99741c0381e9	Egernia kingii	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	King's Skink	15

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2888211	Drosera patens	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		15
https://id.biodiversity.org.au/node/apni/2888279	Senecio multicaulis	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		15
https://id.biodiversity.org.au/node/apni/2888982	Conostephium preissii	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		15
https://id.biodiversity.org.au/node/apni/2897492	Adenanthos obovatus	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Basket Flower	15
https://id.biodiversity.org.au/node/apni/2898239	Cotula turbinata	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Ferny Cotula	15
https://id.biodiversity.org.au/node/apni/2900814	Rytidosperma caespitosum	(Gaudich.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Common Wallaby-grass	15
https://id.biodiversity.org.au/node/apni/2900859	Silene gallica	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	French Catchfly	15
https://id.biodiversity.org.au/node/apni/2902204	Lysiana casuarinae	(Miq.) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae		15
https://id.biodiversity.org.au/node/apni/2909026	Hakea sulcata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Furrowed Hakea	15
https://id.biodiversity.org.au/node/apni/2909488	Stylidium pycnostachyum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Downy Triggerplant	15
https://id.biodiversity.org.au/node/apni/2910427	Chordifex sinuosus	B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		15
https://id.biodiversity.org.au/node/apni/2914068	Leucopogon polymorphus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		15
https://id.biodiversity.org.au/taxon/apni/51291519	Themeda triandra	Forssk.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Kangaroo Grass	15
https://id.biodiversity.org.au/taxon/apni/51294849	Petrophile macrostachya	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		15
https://id.biodiversity.org.au/taxon/apni/51299930	Calytrix aurea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		15
https://id.biodiversity.org.au/taxon/apni/51399071	Caladenia hiemalis	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dwarf Common Spider Orchid	15
https://id.biodiversity.org.au/taxon/apni/51404281	Diuris ostrina	D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Darling Scarp Donkey Orchid	15
https://id.biodiversity.org.au/taxon/apni/51409773	Prasophyllum giganteum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bronze Leek Orchid	15
https://id.biodiversity.org.au/taxon/apni/51436346	Trifolium campestre	Schreb.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hop Clover	15
https://id.biodiversity.org.au/taxon/apni/51442577	Cortaderia selloana	(Schult. & Schult.f.) Asch. & Graebn.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Pampas Grass	15
https://biodiversity.org.au/afd/taxa/0218a77b-77c4-4c3e-ac84-c1f2ddb26753	Lissopimpla excelsa	(Costa, 1864)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae	Dusky Winged Ichneumonid (orchid Dupe Wasp)	14
https://biodiversity.org.au/afd/taxa/132f2744-a3c0-48b6-b78e-0b8c3799850e	Bothriembryon (Bothriembryon) indutus	(Menke, 1843)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		14
https://biodiversity.org.au/afd/taxa/2269e465-a778-408a-8868-25a86808dc04	Leptatherina wallacei	(Prince, Ivantsoff & Potter, 1982)	species	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	Western Hardyhead	14
https://biodiversity.org.au/afd/taxa/26bab5d5-6631-46f4-b668-ca1a09cb9d85	Trachymantis dentifrons	(StÃ¥l, 1877)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		14
https://biodiversity.org.au/afd/taxa/351ef0f8-f560-43d6-b784-f393edb97df9	Corvus bennetti	North, 1901	species	Animalia	Chordata	Aves	Passeriformes	Corvidae	Little Crow	14
https://biodiversity.org.au/afd/taxa/574e9a03-7382-4647-a3e0-acb8384bdbc8	Armadillidium vulgare	(Latreille, 1804)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Armadillidiidae		14
https://biodiversity.org.au/afd/taxa/6f0e0562-211a-4a01-bf38-6f481070dec5	Oxyopes gracilipes	(White, 1849)	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae	Lynx Spider	14
https://biodiversity.org.au/afd/taxa/70132c34-8481-42eb-a844-d8a11279a6cb	Sceliphron formosum	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		14
https://biodiversity.org.au/afd/taxa/76762fec-f019-4907-8259-f358bceedaf4	Castiarina amabilis	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		14
https://biodiversity.org.au/afd/taxa/7f20dfde-3c90-4935-841f-34240536bb51	Prasinocyma rhodocosma	(Meyrick, 1888)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Emerald Moth	14
https://biodiversity.org.au/afd/taxa/90e924d3-39d0-4123-8a16-d3ad3d50f4ce	Diphucrania patricia	(Carter, 1935)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		14
https://biodiversity.org.au/afd/taxa/986aa1db-7d6d-4a45-95f7-3ed68b0564f1	Smeringopus natalensis	Lawrence, 1947	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae		14
https://biodiversity.org.au/afd/taxa/9e814e1a-6b46-4332-b451-f5161a3fcde5	Goniaea australasiae	(Leach, 1814)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Gumleaf Grasshopper	14
https://biodiversity.org.au/afd/taxa/a094063b-9934-443e-8f8c-ab4108759433	Myrmecia gratiosa	Clark, 1951	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		14
https://biodiversity.org.au/afd/taxa/a581c303-95b9-4e2f-8fdc-103e394dd85f	Antechinus flavipes	(Waterhouse, 1838)	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Dasyuridae	Yellow-footed Antechinus	14
https://biodiversity.org.au/afd/taxa/b05bca95-5b2c-43b0-8741-424d3fb1abdd	Holasteron perth	Baehr, 2004	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		14
https://biodiversity.org.au/afd/taxa/c7ed68c1-c0ad-4ae3-a5cf-9d2bd11afb94	Leioproctus (Colletellus) velutinellus	Michener, 1965	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		14
https://biodiversity.org.au/afd/taxa/e4ec719c-98ef-4d34-b52a-e5851ab2be4b	Podacanthus keyi	Brock & Hasenpusch, 2007	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae	Keyâ€™s Stick-insect	14
https://biodiversity.org.au/afd/taxa/eb408abe-c79c-48cd-93ee-f99d446a53e1	Ptilocnemus lemur	(Westwood, 1840)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	14
https://biodiversity.org.au/afd/taxa/ffd383b4-7a94-4da7-aef5-ba90f7ff2ee3	Hylaeus (Prosopisteron) aralis	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	14
https://id.biodiversity.org.au/node/apni/2887923	Daviesia hakeoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		14
https://id.biodiversity.org.au/node/apni/2888495	Raphanus raphanistrum	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Wild Radish	14
https://id.biodiversity.org.au/node/apni/2889175	Conospermum triplinervium	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Tree Smokebush	14
https://id.biodiversity.org.au/node/apni/2891531	Lepidosperma longitudinale	Labill.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Pithy Sword-sedge	14
https://id.biodiversity.org.au/node/apni/2895560	Lepidosperma leptostachyum	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		14
https://id.biodiversity.org.au/node/apni/2896656	Melaleuca preissiana	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Moonah	14
https://id.biodiversity.org.au/node/apni/2898995	Isolepis marginata	(Thunb.) A.Dietr.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Little Club-rush	14
https://id.biodiversity.org.au/node/apni/2899616	Agrostocrinum scabrum	(R.Br.) Baill.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Blue Grass Lily	14

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2903399	Lupinus cosentinii	Guss.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sandplain Lupin	14
https://id.biodiversity.org.au/node/apni/2904122	Millotia tenuifolia	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Soft Millotia	14
https://id.biodiversity.org.au/node/apni/2905194	Lupinus luteus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Yellow Lupin	14
https://id.biodiversity.org.au/node/apni/2907129	Kunzea recurva	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		14
https://id.biodiversity.org.au/node/apni/2907668	Cassytha glabella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Slender Dodder-laurel	14
https://id.biodiversity.org.au/node/apni/2907901	Leucopogon nutans	E.Pritz.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Drooping Leucopogon	14
https://id.biodiversity.org.au/node/apni/2912729	Lobelia rhytidosperma	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Wrinkle-seeded Lobelia	14
https://id.biodiversity.org.au/node/apni/2920431	Lobelia gibbosa	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tall Lobelia	14
https://id.biodiversity.org.au/node/apni/2920787	Tricostularia neesii	Lehm.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Neesâ€™ Tricostularia	14
https://id.biodiversity.org.au/taxon/apni/51289630	Darwinia thymoides	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		14
https://id.biodiversity.org.au/taxon/apni/51398940	Caladenia denticulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Wispy Spider Orchid	14
https://id.biodiversity.org.au/taxon/apni/51405094	Eriochilus scaber	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Bunny Orchid	14
https://id.biodiversity.org.au/taxon/apni/51744654	Lactuca serriola	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Prickly Lettuce	14
NZOR-6-106354	Chamaecytisus proliferus	(L.f.) Link.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Escabon	13
https://biodiversity.org.au/afd/taxa/21cbf460-8ef3-47a8-9526-8f6eb704e87e	Anthrenus (Anthrenus) scrophulariae	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae		13
https://biodiversity.org.au/afd/taxa/2a4e373b-913a-4e2a-a53f-74828f6dae7e	Dromaius novaehollandiae	(Latham, 1790)	species	Animalia	Chordata	Aves	Struthioniformes	Casuariidae	Emu	13
https://biodiversity.org.au/afd/taxa/40311ae3-7584-472f-b6e7-159aea152199	Archaeosynthemis occidentalis	Tillyard, 1910	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Western Brown Tigertail	13
https://biodiversity.org.au/afd/taxa/5be20e37-775a-4278-84b2-ac51618039d6	Lampropholis guichenoti	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Pale-flecked Garden Sunskink	13
https://biodiversity.org.au/afd/taxa/6a949f24-e356-4b88-899d-98223208b95f	Morelia imbricata	(Smith, 1981)	species	Animalia	Chordata	Reptilia	Squamata	Pythonidae	Western Carpet Python	13
https://biodiversity.org.au/afd/taxa/7de6b16a-f854-4b4b-88cf-81868ce74ad8	Felis catus	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Carnivora	Felidae	Cat	13
https://biodiversity.org.au/afd/taxa/83e8ee9b-1580-4e2f-84b0-f40736b525b8	Geocrinia leai	(Fletcher, 1898)	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Lea's Frog	13
https://biodiversity.org.au/afd/taxa/a9639dfa-fdc1-4226-b9e5-afb3d346d49d	Hermetia illucens	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Diptera	Stratiomyidae		13
https://biodiversity.org.au/afd/taxa/cee4a154-36b8-4ea3-a964-4994ceeb6129	Backobourkia heroine	(L. Koch, 1871)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		13
https://biodiversity.org.au/afd/taxa/ec751bb4-933f-4c42-b812-74155b904d26	Lerista praepedita	(Boulenger, 1887)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Blunt-tailed West-coast Slider	13
https://biodiversity.org.au/afd/taxa/f2ecb3e3-a6e2-45cc-a986-716a69eec650	Chalinolobus gouldii	(J.E. Gray, 1841)	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Gould's Wattled Bat	13
https://biodiversity.org.au/afd/taxa/f452242f-5a35-4d5d-a141-7e2dfb9f176b	Calidris (Erolia) acuminata	(Horsfield, 1821)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Sharp-tailed Sandpiper	13
https://biodiversity.org.au/afd/taxa/fa7c15bb-cb8e-467e-a894-1f8ca72d5e01	Plesanemma fucata	(R. Felder & Rogenhofer, 1875)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Lemon Gum Moth	13
https://biodiversity.org.au/afd/taxa/fde86187-3fac-4948-8d64-321142fbea1c	Celaenia excavata	(L. Koch, 1867)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Bird Dropping Spider	13
https://biodiversity.org.au/afd/taxa/fec9222a-ce22-48ea-9054-57f21768bd21	Apricia jovialis	(L. Koch, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Australian Jumping Spider	13
https://id.biodiversity.org.au/node/apni/2888554	Schoenus subflavus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Yellow Bog-rush	13
https://id.biodiversity.org.au/node/apni/2888913	Leucopogon capitellatus	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		13
https://id.biodiversity.org.au/node/apni/2891504	Conospermum acerosum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Needle-leaved Smokebush	13
https://id.biodiversity.org.au/node/apni/2892299	Pentameris airoides	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	False Hairgrass	13
https://id.biodiversity.org.au/node/apni/2892341	Pimelea spectabilis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Bunjong	13
https://id.biodiversity.org.au/node/apni/2893542	Hibbertia spicata	F.Muell.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		13
https://id.biodiversity.org.au/node/apni/2894580	Acacia urophylla	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Pointed Leaved Acacia	13
https://id.biodiversity.org.au/node/apni/2900465	Lomandra purpurea	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Purple Mat Rush	13
https://id.biodiversity.org.au/node/apni/2902391	Tetrarrhena laevis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Forest Ricegrass	13
https://id.biodiversity.org.au/node/apni/2902574	Olea europaea	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Oleaceae	Common Olive	13
https://id.biodiversity.org.au/node/apni/2903020	Hakea conchifolia	Hook.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Shell-leaved Hakea	13
https://id.biodiversity.org.au/node/apni/2904104	Siloxerus multiflorus	Nees	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Small Wrinklewort	13
https://id.biodiversity.org.au/node/apni/2906006	Tolpis barbata	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Yellow Hawkweed	13
https://id.biodiversity.org.au/node/apni/2912741	Solanum nigrum	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Black Nightshade	13
https://id.biodiversity.org.au/node/apni/2915626	Juncus capitatus	Weigel	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Dwarf Rush	13
https://id.biodiversity.org.au/node/apni/2915651	Eucalyptus gomphocephala	DC.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Tuart	13
https://id.biodiversity.org.au/node/apni/2917259	Macarthuria keigheryi	Lepschi	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Limeaceae	Keighery's Macarthuria	13
https://id.biodiversity.org.au/node/apni/2919334	Leucopogon squarrosus	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		13
https://id.biodiversity.org.au/node/apni/7385749	Centaurium tenuiflorum	(Hoffmanns. & Link) Fritsch	species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Branched Centaury	13
https://id.biodiversity.org.au/taxon/apni/51285685	Latrobea tenella	(Meisn.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		13
https://id.biodiversity.org.au/taxon/apni/51289365	Conothamnus trinervis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		13
https://id.biodiversity.org.au/taxon/apni/51291069	Parentucellia latifolia	(L.) Caruel	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Red Bartsia	13

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51409747	Prasophyllum drummondii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Leek Orchid	13
https://id.biodiversity.org.au/taxon/apni/51437674	Dianella revoluta	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Blueberry Lily	13
https://id.biodiversity.org.au/taxon/apni/51448877	Macrozamia fraseri	Miq.	species	Plantae	Charophyta	Equisetopsida	Cycadales	Zamiaceae	Zamia	13
ALA_DR24112_69	Anas superciliosa X platyrhynchos		species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Geese	12
NZOR-6-48398	Leratiomyces ceres	(Cooke & Massee) Bridge & Spooner	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		12
https://biodiversity.org.au/afd/taxa/00117d2a-4a7b-49b5-b09f-8f33ff734fe1	Asianopis schomburgki	(Karsch, 1878)	species	Animalia	Arthropoda	Arachnida	Araneae	Deinopidae		12
https://biodiversity.org.au/afd/taxa/0b9e5469-97a1-4029-8b58-a3ac55d35ee9	Raveniella cirrata	Rix & Harvey, 2010	species	Animalia	Arthropoda	Arachnida	Araneae	Anapidae		12
https://biodiversity.org.au/afd/taxa/19bd6053-5c3f-4fd6-bedc-4f1fec38109c	Prasinocyma semicrocea	(Walker, 1861)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	12
https://biodiversity.org.au/afd/taxa/22809552-d235-43fc-a2ce-6db8136c13bf	Chrysodeixis argentifera	(GuenÃ©e, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Tobacco Looper Moth	12
https://biodiversity.org.au/afd/taxa/44e297b8-0bc8-4d5a-a592-6a93ef646b51	Geogarypus taylori	Harvey, 1986	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Geogarypidae	Pseudoscorpion	12
https://biodiversity.org.au/afd/taxa/79984cb9-958f-4b5b-a89d-b264af10a1fa	Periplaneta americana	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	American Cockroach	12
https://biodiversity.org.au/afd/taxa/89db4444-f864-48b2-9446-47e54b5174d1	Echiopsis curta	(Schlegel, 1837)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Bardick	12
https://biodiversity.org.au/afd/taxa/8d866229-b80c-4b77-9a10-e4ee171de9ab	Diphucrania viridipurpurea	(Carter, 1924)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		12
https://biodiversity.org.au/afd/taxa/a2ca35ec-6541-450b-83d4-506ea5bd7017	Moerarchis clathrata	(R. Felder & Rogenhofer, 1875)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tineidae		12
https://biodiversity.org.au/afd/taxa/b6930f29-3f26-415e-a760-c12c320c2931	Phascogale tapoatafa	(Meyer, 1793)	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Dasyuridae	Brush-tailed Phascogale	12
https://biodiversity.org.au/afd/taxa/bff03204-824b-416c-98cd-89df714d62fe	Dendrocygna eytoni	(Eyton, 1838)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Plumed Whistling-duck	12
https://biodiversity.org.au/afd/taxa/c55da61b-571f-420e-a9cf-9a48e4303219	Porcellio scaber	Latreille, 1804	species	Animalia	Arthropoda	Malacostraca	Isopoda	Porcellionidae		12
https://biodiversity.org.au/afd/taxa/db652444-5e16-4894-9337-f3215d49fc51	Prionyx saevus	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		12
https://biodiversity.org.au/afd/taxa/e20a0cc7-57e4-4b4b-814b-a88ecf4ed67b	Ctenotus labillardieri	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Red-legged Ctenotus	12
https://biodiversity.org.au/afd/taxa/e96c4568-a10f-4ea9-a741-a551b1f22bc1	Gambusia holbrooki	Girard, 1859	species	Animalia	Chordata	Actinoptergii	Cyprinodontiformes	Poeciliidae	Eastern Gambusia	12
https://biodiversity.org.au/afd/taxa/f385585e-724e-4f64-bf6e-16f6296fb3a8	Danaus petilia	(Stoll, 1790)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Lesser Wanderer	12
https://biodiversity.org.au/afd/taxa/f67a6313-3d83-4c89-b7ec-9b322fe24ce9	Austrosciapus connexus	(Walker, 1835)	species	Animalia	Arthropoda	Insecta	Diptera	Dolichopodidae	Long-legged Fly	12
https://id.biodiversity.org.au/node/apni/2887354	Banksia incana	A.S.George	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		12
https://id.biodiversity.org.au/node/apni/2889306	Tecticornia indica	(Willd.) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Samphire	12
https://id.biodiversity.org.au/node/apni/2891550	Melinis repens	(Willd.) Zizka	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Red Natal-grass	12
https://id.biodiversity.org.au/node/apni/2891757	Thysanotus dichotomus	(Labill.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Branching Fringe Lily	12
https://id.biodiversity.org.au/node/apni/2894848	Verticordia nitens	(Lindl.) Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Morrison	12
https://id.biodiversity.org.au/node/apni/2895025	Leucopogon sprengelioides	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		12
https://id.biodiversity.org.au/node/apni/2897232	Crassula colorata	(Nees) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Dense Stonecrop	12
https://id.biodiversity.org.au/node/apni/2898016	Olearia elaeophila	(A.Cunn. ex DC.) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		12
https://id.biodiversity.org.au/node/apni/2904101	Tricoryne tenella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Tufted Yellow Rush-lily	12
https://id.biodiversity.org.au/node/apni/2907368	Hypochaeris radicata	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cats-ear	12
https://id.biodiversity.org.au/node/apni/2912193	Arundo donax	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Giant Reed	12
https://id.biodiversity.org.au/node/apni/2913560	Banksia mimica	(A.S.George) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Summer Honeypot	12
https://id.biodiversity.org.au/node/apni/2914608	Hibbertia ovata	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		12
https://id.biodiversity.org.au/node/apni/2915129	Aira cupaniana	Guss.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Quicksilver Grass	12
https://id.biodiversity.org.au/node/apni/2918810	Lomandra odora	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Fragrant Mat Rush	12
https://id.biodiversity.org.au/node/apni/2918921	Schoenus brevisetis	(R.Br.) Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		12
https://id.biodiversity.org.au/node/apni/2920953	Hibbertia acerosa	(R.Br. ex DC.) Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Needle Leaved Guinea Flower	12
https://id.biodiversity.org.au/node/apni/6917219	Zantedeschia aethiopica	(L.) Spreng.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	White Arum Lily	12
https://id.biodiversity.org.au/node/apni/6923911	Centella asiatica	(L.) Urb.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Indian Pennywort	12
https://id.biodiversity.org.au/taxon/apni/51283608	Drosera paleacea	DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Dwarf Sundew	12
https://id.biodiversity.org.au/taxon/apni/51288947	Beaufortia squarrosa	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Sand Bottlebrush	12
https://id.biodiversity.org.au/taxon/apni/51399028	Caladenia footeana	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Crimson Spider Orchid	12
https://id.biodiversity.org.au/taxon/apni/51435951	Daviesia podophylla	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		12
https://id.biodiversity.org.au/taxon/apni/51437546	Haemodorum discolor	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bloodroot	12
https://id.biodiversity.org.au/taxon/apni/51447192	Santalum acuminatum	(R.Br.) A.DC.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae	Sweet Quandong	12
https://biodiversity.org.au/afd/taxa/07980cf7-0f96-4a4f-9a51-bf3869df770b	Megachile apicata	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	11
https://biodiversity.org.au/afd/taxa/14f4765d-6ea3-48b2-8aad-fe2dc4c32137	Aphanesthes succinea	(Hope, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		11
https://biodiversity.org.au/afd/taxa/171b0bfe-3afa-42bf-91ac-5cd85d3e43d1	Polytelis anthopeplus	(Lear, 1831)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Regent Parrot	11
https://biodiversity.org.au/afd/taxa/187411b6-ee86-4b1e-94b2-2bb4a21af3a6	Sandava scitisignata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	11

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/1b11ebd1-7e44-4d81-8c12-7141ffddfc78	Myiagra (Seisura) inquieta	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Monarchidae	Restless Flycatcher	11
https://biodiversity.org.au/afd/taxa/21239c7e-5095-460e-a590-f60eb6e711d9	Castiarina mimesis	Barker, 1993	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		11
https://biodiversity.org.au/afd/taxa/21cd643a-bdca-4353-9d4c-63a27400ef0b	Gminatus australis	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	11
https://biodiversity.org.au/afd/taxa/2bea2f7e-fc33-44ae-9457-bed5b84d306c	Pheidole megacephala	(Fabricius, 1793)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	African Big-headed Ant	11
https://biodiversity.org.au/afd/taxa/3acaf6a0-caec-4cb0-bb6d-f7d38df50daa	Dolichoderus ypsilon	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		11
https://biodiversity.org.au/afd/taxa/466b4958-ca9e-442b-ba53-3bcfa39fc66a	Ballarra longipalpus	Hunt & Cokendolpher, 1991	species	Animalia	Arthropoda	Arachnida	Opiliones	Neopilionidae		11
https://biodiversity.org.au/afd/taxa/4c187141-8724-416a-98a4-cc31b8c7de3d	Aprasia pulchella	Gray, 1839	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Western Granite Worm-lizard	11
https://biodiversity.org.au/afd/taxa/510e626c-6881-4c99-b1d9-eb460f5802b1	Megachile fultoni	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		11
https://biodiversity.org.au/afd/taxa/58aadeba-d087-4d60-9b33-eef34cf7a682	Tursiops aduncus	(Ehrenberg, 1832)	species	Animalia	Chordata	Mammalia	Cetacea	Delphinidae	Long-beaked Bottle-nosed Dolphin	11
https://biodiversity.org.au/afd/taxa/67ecbf3c-43c3-4b9c-b23c-bd6d4a0419c6	Synoicus ypsilophora	(Bosc, 1792)	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Brown Quail	11
https://biodiversity.org.au/afd/taxa/80eebde0-e367-4214-a0f6-7bd6cc4e0824	Vanessa itea	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Australian Admiral	11
https://biodiversity.org.au/afd/taxa/9cc621a6-0924-4c0b-9b6c-1649e92e3749	Eupograpta kottae	Raven, 2009	species	Animalia	Arthropoda	Arachnida	Araneae	Miturgidae		11
https://biodiversity.org.au/afd/taxa/a33fed1c-aeac-4beb-b30b-f74a294ffeb2	Castiarina crenata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		11
https://biodiversity.org.au/afd/taxa/a88fb5e7-c92b-40c8-8e03-7d4ad013bd99	Cermatulus nasalis	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Predatory Shield Bug	11
https://biodiversity.org.au/afd/taxa/acd938a7-736a-4a4c-9742-423dbb940d6f	Castiarina subcincta	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		11
https://biodiversity.org.au/afd/taxa/b4080bd6-a356-4b93-80f4-339085cdf215	Paramphisopus palustris	(Glauert, 1924)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Amphisopodidae	Freshwater Isopod	11
https://biodiversity.org.au/afd/taxa/bc1ed2c0-47ee-406f-913b-c9128d877653	Eurymeloides punctata	(Signoret, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	11
https://biodiversity.org.au/afd/taxa/c49d57f4-b35d-4fb8-b2e2-e0b630093494	Maratus scutulatus	(L. Koch, 1881)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Jumping Spider	11
https://biodiversity.org.au/afd/taxa/e9d30891-61ee-4984-b212-69d11b803641	Isturgia penthearia	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	11
https://biodiversity.org.au/afd/taxa/f354c711-e32a-45a2-b649-e9f7f6e0823a	Carcinophora occidentalis	(Kirby, 1896)	species	Animalia	Arthropoda	Insecta	Dermaptera	Anisolabididae		11
https://biodiversity.org.au/afd/taxa/f4b54e80-bb18-4996-9907-494be08d2fbf	Diplodactylus granariensis	Storr, 1979	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Wheat-belt Stone Gecko	11
https://biodiversity.org.au/afd/taxa/fb531b39-fd0b-4afb-9115-5e4f4691cf7f	Synemon gratiosa	Westwood, 1877	species	Animalia	Arthropoda	Insecta	Lepidoptera	Castniidae	Graceful Sun-moth	11
https://biodiversity.org.au/afd/taxa/fd914abc-36ff-4439-b8c9-b048e269ccb7	Protaetia fusca	(Herbst, 1790)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Mottled Flower Scarab	11
https://id.biodiversity.org.au/node/apni/2889203	Vulpia myuros	(L.) C.C.Gmel.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fescue	11
https://id.biodiversity.org.au/node/apni/2889814	Rumex crispus	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Curled Dock	11
https://id.biodiversity.org.au/node/apni/2891238	Dampiera triloba	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		11
https://id.biodiversity.org.au/node/apni/2891338	Opercularia echinocephala	Benth.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Bristly Headed Stinkweed	11
https://id.biodiversity.org.au/node/apni/2892146	Xylomelum occidentale	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Woody Pear	11
https://id.biodiversity.org.au/node/apni/2892785	Hibbertia glomerata	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		11
https://id.biodiversity.org.au/node/apni/2893399	Pimelea angustifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Narrow-leaved Pimelea	11
https://id.biodiversity.org.au/node/apni/2893570	Kunzea glabrescens	Toelken	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spearwood	11
https://id.biodiversity.org.au/node/apni/2894037	Trymalium angustifolium	Reissek	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		11
https://id.biodiversity.org.au/node/apni/2895995	Lathyrus tingitanus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tangier Pea	11
https://id.biodiversity.org.au/node/apni/2898644	Kunzea micrantha	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		11
https://id.biodiversity.org.au/node/apni/2900900	Juncus kraussii	Hochst.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Sea Rush	11
https://id.biodiversity.org.au/node/apni/2901098	Goodenia drummondii	Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		11
https://id.biodiversity.org.au/node/apni/2903464	Lobelia heterophylla	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Lobelia	11
https://id.biodiversity.org.au/node/apni/2904352	Stachystemon vermicularis	Planch.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Picrodendraceae		11
https://id.biodiversity.org.au/node/apni/2906694	Sphaerolobium linophyllum	(HÃ¼gel ex Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		11
https://id.biodiversity.org.au/node/apni/2909298	Anigozanthos viridis	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Green Kangaroo Paw	11
https://id.biodiversity.org.au/node/apni/2910980	Lomandra micrantha	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Small-flower Mat-rush	11
https://id.biodiversity.org.au/node/apni/2912734	Agonis flexuosa	(Willd.) Sweet	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Willow Myrtle	11
https://id.biodiversity.org.au/node/apni/2913511	Rhodanthe citrina	(Benth.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pale Immortelle	11
https://id.biodiversity.org.au/node/apni/2914245	Stylidium eriopodum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		11
https://id.biodiversity.org.au/node/apni/2914806	Lepidosperma pubisquameum	Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		11
https://id.biodiversity.org.au/node/apni/2915014	Marianthus bicolor	(Putt.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		11
https://id.biodiversity.org.au/node/apni/2918032	Vulpia bromoides	(L.) Gray	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Squirrel-tail Fescue	11
https://id.biodiversity.org.au/node/apni/2918533	Lechenaultia floribunda	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Free-flowering Leschenaultia	11
https://id.biodiversity.org.au/node/apni/2919250	Ricinus communis	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Castor Oil Plant	11
https://id.biodiversity.org.au/node/apni/2919881	Drosera hyperostigma	N.G.Marchant & Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		11
https://id.biodiversity.org.au/node/apni/6285445	Conostylis candicans	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Grey Cottonhead	11
https://id.biodiversity.org.au/node/apni/8694676	Eremophila glabra	(R.Br.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Black Fuchsia	11

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/ausmoss/10073204	Eccremidium pulchellum	(Hook. & Wilson) MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Earth Moss	11
https://id.biodiversity.org.au/node/fungi/60092453	Amanita xanthocephala	(Berk.) D.A.Reid & R.N.Hilton	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		11
https://id.biodiversity.org.au/node/fungi/60095231	Schizophyllum commune	Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Schizophyllaceae	Splitgill Mushroom	11
https://id.biodiversity.org.au/taxon/apni/51285764	Vicia sativa	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Vetch	11
https://id.biodiversity.org.au/taxon/apni/51293734	Leptocarpus canus	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Hoary Twine-rush	11
https://id.biodiversity.org.au/taxon/apni/51310737	Stylidium caricifolium	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Milkmaids	11
https://id.biodiversity.org.au/taxon/apni/51399243	Caladenia paludosa	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Spider Orchid	11
https://id.biodiversity.org.au/taxon/apni/51406612	Microtis atrata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Yellow Onion-orchid	11
https://id.biodiversity.org.au/taxon/apni/51414350	Thelymitra magnifica	Jeanes	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Crystal Brook Star Orchid	11
https://id.biodiversity.org.au/taxon/apni/51447838	Solanum sisymbriifolium	Lam.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Sticky Nightshade	11
https://biodiversity.org.au/afd/taxa/0015e8e2-5c1c-4fdb-aaa0-70ea932aadab	Metacymia marmorea	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		10
https://biodiversity.org.au/afd/taxa/04fcd0fe-6916-4492-9d55-4303e597037e	Artoriopsis expolita	(L. Koch, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	10
https://biodiversity.org.au/afd/taxa/058cb51d-07e3-44cd-b319-ddf826fa1490	Castiarina parallela	(White, 1859)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/070f8212-a396-4086-9f74-7fb312847c2a	Pachysaga australis	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		10
https://biodiversity.org.au/afd/taxa/22a7a742-1a37-4dee-bb53-adb26a417f2c	Papilio (Princeps) demoleus	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Lepidoptera	Papilionidae	Chequered Swallowtail	10
https://biodiversity.org.au/afd/taxa/27d00742-060a-48c0-881d-5eb8dac6e946	Geitoneura minyas	(Waterhouse & Lyell, 1914)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Western Xenica	10
https://biodiversity.org.au/afd/taxa/27d7c663-9bc0-4830-88d4-fa2a1e277668	Anestia ombrophanes	Meyrick, 1886	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	10
https://biodiversity.org.au/afd/taxa/28f978f9-1e2e-4b8e-af15-0951d37e7924	Paraoxypilus tasmaniensis	Saussure, 1870	species	Animalia	Arthropoda	Insecta	Mantodea	Amorphoscelidae		10
https://biodiversity.org.au/afd/taxa/297f9070-aebb-4ad4-97a7-ca7e9c13f1d4	Rhytidoponera violacea	(Forel, 1907)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		10
https://biodiversity.org.au/afd/taxa/2bc77f55-12fc-4a51-a7b7-340dac43905d	Tiliqua occipitalis	(Peters, 1863)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Blue-tongue	10
https://biodiversity.org.au/afd/taxa/2cf3ee29-e268-4aee-ba76-aa6bb6a31239	Clynotis severus	(L. Koch, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Jumping Spider	10
https://biodiversity.org.au/afd/taxa/3d42fe6b-85d5-4f86-a1d5-35b472cf2856	Eristalis (Eristalis) tenax	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Drone Fly	10
https://biodiversity.org.au/afd/taxa/4a764d71-e9e8-485d-b214-ac6962f04127	Cephrenes augiades	(C. Felder, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Orange Palm-dart	10
https://biodiversity.org.au/afd/taxa/4b65277d-fe8e-4605-abc6-9ab5b2174d08	Castiarina placida	(Thomson, 1879)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/4bcf9c5d-7254-4f41-915e-ded5b733ef73	Nymphicus hollandicus	(Kerr, 1792)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Cockatiel	10
https://biodiversity.org.au/afd/taxa/4f5c1eb6-fdbc-4cd3-83be-213e52727b8b	Megachile (Schizomegachile) monstrosa	Smith, 1868	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	10
https://biodiversity.org.au/afd/taxa/5055eec1-88e5-4257-b907-256d437a97c1	Castiarina aureola	(Carter, 1913)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/50698a76-7dcd-44e5-92cf-e23cbd2c2590	Hypsidia grisea	Scoble & E.D. Edwards, 1988	species	Animalia	Arthropoda	Insecta	Lepidoptera	Drepanidae		10
https://biodiversity.org.au/afd/taxa/5221b51b-4366-449c-8520-5ddc42009150	Heteronotia binoei	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Bynoe's Gecko	10
https://biodiversity.org.au/afd/taxa/67c256a8-6a31-46de-9dde-d75d5578496c	Turnix (Austroturnix) varius	(Latham, 1801)	species	Animalia	Chordata	Aves	Turniciformes	Turnicidae	Painted Button-quail	10
https://biodiversity.org.au/afd/taxa/7a7cd02c-079e-496d-a96c-9ee1b502a3d2	Circopetes obtusata	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	10
https://biodiversity.org.au/afd/taxa/7bfe8a7e-fff5-40f7-88a3-a795da1ee5c4	Phyllorhiza punctata	Von Lendenfeld, 1884	species	Animalia	Cnidaria	Scyphozoa	Rhizostomeae	Mastigiidae		10
https://biodiversity.org.au/afd/taxa/7c9fe9fa-4b9b-4cca-a6f6-296a68153acf	Podomyrma adelaidae	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Muscleman Ant	10
https://biodiversity.org.au/afd/taxa/8853e65f-cd81-4767-9ebe-af2013a0e938	Delta bicinctum	(Saussure, 1852)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	Wasp	10
https://biodiversity.org.au/afd/taxa/952bd0ab-9178-4a58-bb91-654778554b03	Scopula rubraria	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Carpet Moth	10
https://biodiversity.org.au/afd/taxa/a498f151-3f9e-4fb0-b6f3-64c2f20db5bc	Amniatata caudavittata	(Richardson, 1845)	species	Animalia	Chordata	Actinopterygii	Perciformes	Terapontidae	Yellowtail Grunter	10
https://biodiversity.org.au/afd/taxa/a6c28c42-f794-4555-a38f-aff9ecf6d53a	Utetheisa pulchelloides	Hampson, 1907	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Crimson Spotted Moth	10
https://biodiversity.org.au/afd/taxa/aac06d61-b8b3-4988-9483-3455b96c4a15	Phaps (Phaps) elegans	(Temminck, 1809)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Brush Bronzewing	10
https://biodiversity.org.au/afd/taxa/acf603a5-ec8c-426a-ba08-0bb79ac32fa9	Hylaeus (Prosopisteron) quadratus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	10
https://biodiversity.org.au/afd/taxa/b8b65d6e-7c13-4074-a875-862b46985f8e	Erina acasta	(Cox, 1873)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Blotched Blue	10
https://biodiversity.org.au/afd/taxa/bd47e007-3a1c-4330-ac70-ef6ffe0128cc	Exoneura (Exoneura) bicolor	Smith, 1854	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Reed Bee	10
https://biodiversity.org.au/afd/taxa/dba78701-cae9-4afb-a41a-6697c52c5e34	Botaurus poiciloptilus	(Wagler, 1827)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Australasian Bittern	10
https://biodiversity.org.au/afd/taxa/ea44c14d-5b57-4f2b-9d58-fa7f8c6cb479	Ethonion roei	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/ead4aed4-b7dd-4c0b-8fbf-a72ab69b0403	Stenoderus suturalis	(Olivier, 1795)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		10
https://biodiversity.org.au/afd/taxa/ef70e7c7-a3ca-4476-ac64-c2cbdc663562	Vespadelus regulus	(Thomas, 1906)	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Southern Forest Bat	10
https://id.biodiversity.org.au/node/apni/2886250	Gastrolobium oxylobioides	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Champion Bay Poison	10
https://id.biodiversity.org.au/node/apni/2886742	Astartea scoparia	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Common Astartea	10
https://id.biodiversity.org.au/node/apni/2887078	Hakea cyclocarpa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Ramshorn	10
https://id.biodiversity.org.au/node/apni/2887617	Conostephium minus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Pink-tipped Pearl Flower	10
https://id.biodiversity.org.au/node/apni/2888428	Acacia drummondii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Drummond's Wattle	10
https://id.biodiversity.org.au/node/apni/2888651	Pultenaea ericifolia	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		10
https://id.biodiversity.org.au/node/apni/2891198	Lechenaultia expansa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		10

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2891726	Desmocladus asper	(Nees) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		10
https://id.biodiversity.org.au/node/apni/2894718	Grevillea diversifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Variable-leaved Grevillea	10
https://id.biodiversity.org.au/node/apni/2895177	Comesperma flavum	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		10
https://id.biodiversity.org.au/node/apni/2897219	Eucalyptus patens	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Blackbutt	10
https://id.biodiversity.org.au/node/apni/2898701	Dampiera coronata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Wedge-leaved Dampiera	10
https://id.biodiversity.org.au/node/apni/2899172	Amyema miquelii	(Lehm. ex Miq.) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Box Mistletoe	10
https://id.biodiversity.org.au/node/apni/2899507	Waitzia nitida	(Lindl.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		10
https://id.biodiversity.org.au/node/apni/2900500	Lepidosperma tetraquetrum	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		10
https://id.biodiversity.org.au/node/apni/2901595	Salix babylonica	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Salicaceae	Weeping Willow	10
https://id.biodiversity.org.au/node/apni/2902442	Xanthorrhoea drummondii	Harv.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae		10
https://id.biodiversity.org.au/node/apni/2903990	Pentameris pallida	(Thunb.) Galley & H.P.Linder	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Pussy Tail	10
https://id.biodiversity.org.au/node/apni/2905839	Leptospermum laevigatum	(Gaertn.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Coast Tea-tree	10
https://id.biodiversity.org.au/node/apni/2906546	Avena barbata	Pott ex Link	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Bearded Oats	10
https://id.biodiversity.org.au/node/apni/2907285	Isotoma pusilla	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Small Isotome	10
https://id.biodiversity.org.au/node/apni/2908255	Hibbertia stellaris	Endl.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Guinea Flower	10
https://id.biodiversity.org.au/node/apni/2912379	Centaurium erythraea	Rafn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Common Centaury	10
https://id.biodiversity.org.au/node/apni/2913384	Darwinia pimelioides	Cayzer & F.W.Wakef.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		10
https://id.biodiversity.org.au/node/apni/2916215	Bossiaea pulchella	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		10
https://id.biodiversity.org.au/node/apni/2916496	Stackhousia pubescens	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae		10
https://id.biodiversity.org.au/node/apni/2918082	Grevillea robusta	A.Cunn. ex R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Silky Oak	10
https://id.biodiversity.org.au/node/apni/2918109	Goodenia micrantha	Hemsl. ex Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		10
https://id.biodiversity.org.au/node/apni/2918621	Verticordia drummondii	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Drummond's Featherflower	10
https://id.biodiversity.org.au/node/apni/2920283	Juncus pallidus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Pale Rush	10
https://id.biodiversity.org.au/node/apni/2920654	Cryptandra nutans	Steud.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		10
https://id.biodiversity.org.au/node/apni/2920702	Misopates orontium	(L.) Raf.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Lesser Snapdragon	10
https://id.biodiversity.org.au/node/apni/2920942	Isolepis levynsiana	Muasya & D.A.Simpson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tiny Flat-sedge	10
https://id.biodiversity.org.au/node/ausmoss/10085108	Funaria hygrometrica	Hedw.	species	Plantae	Bryophyta	Bryopsida	Funariales	Funariaceae	Common Cord-moss	10
https://id.biodiversity.org.au/taxon/apni/51283610	Drosera micrantha	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		10
https://id.biodiversity.org.au/taxon/apni/51288780	Babingtonia pelloeae	Rye & Trudgen	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Pelloe's Babingtonia	10
https://id.biodiversity.org.au/taxon/apni/51289571	Calothamnus lateralis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		10
https://id.biodiversity.org.au/taxon/apni/51293452	Hakea neospathulata	I.M.Turner	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		10
https://id.biodiversity.org.au/taxon/apni/51409853	Prasophyllum plumiforme	Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Leek Orchid	10
https://id.biodiversity.org.au/taxon/apni/51414290	Thelymitra graminea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Shy Sun Orchid	10
https://id.biodiversity.org.au/taxon/apni/51439731	Eremaea asterocarpa	Hnatiuk	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		10
https://id.biodiversity.org.au/taxon/apni/51441839	Pterostylis atrosanguinea	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Crowded Banded Greenhood	10
https://id.biodiversity.org.au/taxon/apni/51448660	Lantana camara	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Lantana	10
https://id.biodiversity.org.au/taxon/apni/51614272	Petrophile squamata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		10
https://id.biodiversity.org.au/taxon/apni/51702973	Bossiaea angustifolia	(Meisn.) Keighery	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		10
https://id.biodiversity.org.au/taxon/apni/51736246	Apium prostratum	Labill. ex Vent.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Sea Celery	10
https://biodiversity.org.au/afd/taxa/068af882-301d-4d2d-a873-960efb6d61ca	Leioproctus (Leioproctus) opaculus	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		9
https://biodiversity.org.au/afd/taxa/07dcbbb3-4b05-42ea-8f8f-009a56d258b5	Zachria flavicoma	L. Koch, 1875	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		9
https://biodiversity.org.au/afd/taxa/1288a458-1631-40e5-837d-fd286679f866	Cladorhynchus leucocephalus	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Charadriiformes	Recurvirostridae	Banded Stilt	9
https://biodiversity.org.au/afd/taxa/2e41afc2-e300-48e7-b88c-438517ecee81	Hemicordulia australiae	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Odonata	Corduliidae	Australian Emerald	9
https://biodiversity.org.au/afd/taxa/316c5ff9-137b-4356-a46d-5d136aecb1d1	Microeca (Microeca) fascinans	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Jacky Winter	9
https://biodiversity.org.au/afd/taxa/3940981a-42a5-4bab-8213-1c8df6ac64da	Typhlodromus doreenae	Schicha, 1987	species	Animalia	Arthropoda	Arachnida	Mesostigmata	Phytoseiidae		9
https://biodiversity.org.au/afd/taxa/434f49ea-6924-4a2f-9d47-c721b1be2343	Gastrinodes argoplaca	(Meyrick, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	9
https://biodiversity.org.au/afd/taxa/438d9182-0903-4c66-b6c9-7521cf133963	Delma grayii	Smith, 1849	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Side-barred Delma	9
https://biodiversity.org.au/afd/taxa/49a7d9e8-c444-4788-ac38-15b9393018e9	Cethegus fugax	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Euagridae		9
https://biodiversity.org.au/afd/taxa/4bde78a3-1f52-4432-99ec-ff0a98131b87	Pogonortalis doclea	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Platystomatidae	Signal Fly	9
https://biodiversity.org.au/afd/taxa/5832a5b9-1052-4d35-a7fb-2c93c211c6c9	Ogyris amaryllis	Hewitson, 1862	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Amaryllis Azure	9
https://biodiversity.org.au/afd/taxa/5f2d91f8-afd8-41dc-8e6d-fec5f51e29ca	Austrothemis nigrescens	(Martin, 1901)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Swamp Flat-tail	9
https://biodiversity.org.au/afd/taxa/6014bb6c-d940-4e6c-b0b0-c00b10b6faec	Cosmodes elegans	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Green Blotched Moth	9
https://biodiversity.org.au/afd/taxa/62428f61-df42-4eb6-b4fa-053b4f93be80	Bembix vespiformis	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	9

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/63f90170-118f-4b12-8330-63d61ca6ae53	Herpetogramma licarsisalis	(Walker, 1859)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Sod Webworm	9
https://biodiversity.org.au/afd/taxa/6a73fc39-5edb-413a-a615-8b5aa7124711	Poecilometis lineatus	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		9
https://biodiversity.org.au/afd/taxa/77c37810-551f-4786-8606-8838db47b05c	Lasioscopus acmaeops	(Jacobi, 1909)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		9
https://biodiversity.org.au/afd/taxa/78d13b37-837c-4fb5-a37d-686e6ce4afc3	Ellipsidion australe	(Saussure, 1863)	species	Animalia	Arthropoda	Insecta	Blattodea	Pseudophyllodromiidae	Austral Ellipsidion Cockroach	9
https://biodiversity.org.au/afd/taxa/7989381b-c16f-485d-bd01-ff394d96e64d	Ethonion breve	(Carter, 1923)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		9
https://biodiversity.org.au/afd/taxa/9351c305-68c2-4272-84ca-c900ac6bcee9	Chrysopogon albopunctatus	(Macquart, 1846)	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		9
https://biodiversity.org.au/afd/taxa/946b5655-fc69-4220-97a5-288b9f9eca39	Xanthagrion erythroneurum	(Selys, 1876)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	Red & Blue Damsel	9
https://biodiversity.org.au/afd/taxa/9cf3eaf7-c855-4e69-afc3-9bcf97201788	Necterosoma darwini	(Babington, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	9
https://biodiversity.org.au/afd/taxa/a19849cc-caa1-43c2-97f8-2e3dae6f4cb9	Tatea rufilabris	(A. Adams, 1862)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Tateidae	Freshwater Snail	9
https://biodiversity.org.au/afd/taxa/ab8a8b97-90dc-4c83-be78-b0af065685a1	Coryphistes ruricola	(Burmeister, 1838)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Bark-mimicking Grasshopper	9
https://biodiversity.org.au/afd/taxa/b6f36641-54da-419a-8315-835a6c2e2975	Monomorium laeve	Mayr, 1876	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Yellow Mono Ant	9
https://biodiversity.org.au/afd/taxa/b811ea50-7e38-45f0-bedc-c2870851bbe4	Exaireta spinigera	(Wiedemann, 1830)	species	Animalia	Arthropoda	Insecta	Diptera	Stratiomyidae	Garden Soldier Fly	9
https://biodiversity.org.au/afd/taxa/bbc91646-4947-459c-9a3b-7f1122e656f7	Cygnus (Chenopis) atratus	(Latham, 1790)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Black Swan	9
https://biodiversity.org.au/afd/taxa/bcdc20a2-7b4e-4507-bf3a-9d2cf85c82d9	Phoracantha recurva	Newman, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		9
https://biodiversity.org.au/afd/taxa/cc1c005d-05f3-49db-90a0-d56219832418	Ichneumon promissorius	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		9
https://biodiversity.org.au/afd/taxa/d18ba9ca-1f5e-4b51-8884-8a6c4df038d9	Arenigobius bifrenatus	(Kner, 1865)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Bridled Goby	9
https://biodiversity.org.au/afd/taxa/d40ed699-db9d-4dd9-88c6-02bc46370ee2	Thomisus spectabilis	Doleschall, 1859	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Flower Spider	9
https://biodiversity.org.au/afd/taxa/d51204af-f782-4c64-9428-e30a8a705aa1	Ischnura heterosticta	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	Common Bluetail	9
https://biodiversity.org.au/afd/taxa/d8af29b8-05d6-451a-ac51-ba27f3aa07b7	Oecobius navus	Blackwall, 1859	species	Animalia	Arthropoda	Arachnida	Araneae	Oecobiidae	Wall Spider	9
https://biodiversity.org.au/afd/taxa/e031af48-c8dc-4a2d-99d2-df53bdf4adbc	Miniargiolestes minimus	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Argiolestidae	Stream Flatwing	9
https://biodiversity.org.au/afd/taxa/e8734472-e068-46ab-9340-023eac3d5519	Heoclisis fundata	(Walker, 1853)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Antlion	9
https://biodiversity.org.au/afd/taxa/ea376e20-4098-4271-975e-11c695f9865e	Acantholophus suturalis	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		9
https://biodiversity.org.au/afd/taxa/ec2c76c7-0cd9-4f26-935e-4d90762590fa	Haematopus longirostris	Vieillot, 1817	species	Animalia	Chordata	Aves	Charadriiformes	Haematopodidae	Australian Pied Oystercatcher	9
https://biodiversity.org.au/afd/taxa/f7b096e9-a676-4f2e-8710-c2d4ddfded19	Megachile (Eutricharaea) simplex	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	9
https://id.biodiversity.org.au/node/apni/2886064	Stenocarpus sinuatus	Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wheel Of Fire	9
https://id.biodiversity.org.au/node/apni/2886131	Myriophyllum drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		9
https://id.biodiversity.org.au/node/apni/2886352	Patersonia pygmaea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Pygmy Patersonia	9
https://id.biodiversity.org.au/node/apni/2886672	Echinochloa crus-galli	(L.) P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Barnyard Grass	9
https://id.biodiversity.org.au/node/apni/2889667	Platysace compressa	(Labill.) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Tapeworm Plant	9
https://id.biodiversity.org.au/node/apni/2889984	Hakea candolleana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		9
https://id.biodiversity.org.au/node/apni/2891901	Cycnogeton lineare	(Endl.) Sond.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae		9
https://id.biodiversity.org.au/node/apni/2892432	Gompholobium ovatum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		9
https://id.biodiversity.org.au/node/apni/2893862	Triglochin centrocarpa	Hook.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Dwarf Arrowgrass	9
https://id.biodiversity.org.au/node/apni/2895096	Pimelea brevistyla	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		9
https://id.biodiversity.org.au/node/apni/2895916	Stenanthemum emarginatum	Rye	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		9
https://id.biodiversity.org.au/node/apni/2896695	Lomandra spartea	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		9
https://id.biodiversity.org.au/node/apni/2897106	Aponogeton hexatepalus	H.Bruggen	species	Plantae	Charophyta	Equisetopsida	Alismatales	Aponogetonaceae	Stalked Water Ribbons	9
https://id.biodiversity.org.au/node/apni/2899057	Billardiera heterophylla	(Lindl.) L.W.Cayzer & Crisp	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Bluebell Creeper	9
https://id.biodiversity.org.au/node/apni/2899357	Ehrharta longiflora	Sm.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Veldt-grass	9
https://id.biodiversity.org.au/node/apni/2899520	Stylidium breviscapum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Boomerang Triggerplant	9
https://id.biodiversity.org.au/node/apni/2903376	Austrostipa pycnostachya	(Benth.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		9
https://id.biodiversity.org.au/node/apni/2903771	Billardiera fusiformis	Labill.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Bluebell Creeper	9
https://id.biodiversity.org.au/node/apni/2904092	Empodisma gracillimum	(F.Muell.) L.A.S.Johnson & D.F.Cutler	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Tanglefoot	9
https://id.biodiversity.org.au/node/apni/2905500	Comesperma ciliatum	Steetz	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		9
https://id.biodiversity.org.au/node/apni/2905552	Callistemon phoeniceus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Lesser Bottlebrush	9
https://id.biodiversity.org.au/node/apni/2905657	Centrolepis mutica	(R.Br.) Hieron.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		9
https://id.biodiversity.org.au/node/apni/2907001	Crassula closiana	(Gay) Reiche	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Stalked Crassula	9
https://id.biodiversity.org.au/node/apni/2907847	Lepidosperma angustatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		9
https://id.biodiversity.org.au/node/apni/2908100	Leucopogon verticillatus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Tassel Flower	9
https://id.biodiversity.org.au/node/apni/2908597	Thomasia pauciflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Few Flowered Thomasia	9
https://id.biodiversity.org.au/node/apni/2909092	Schinus terebinthifolia	Raddi	species	Plantae	Charophyta	Equisetopsida	Sapindales	Anacardiaceae	Brazilian Pepper Tree	9

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2909227	Colocasia esculenta	(L.) Schott	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Taro	9
https://id.biodiversity.org.au/node/apni/2909951	Eucalyptus erythrocorys	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Red-capped Gum	9
https://id.biodiversity.org.au/node/apni/2910238	Paspalum urvillei	Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Vasey Grass	9
https://id.biodiversity.org.au/node/apni/2911712	Boronia tenuis	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Blue Boronia	9
https://id.biodiversity.org.au/node/apni/2913504	Acacia aphylla	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Leafless Rock Wattle	9
https://id.biodiversity.org.au/node/apni/2913654	Tropaeolum majus	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Tropaeolaceae	Nasturtium	9
https://id.biodiversity.org.au/node/apni/2914042	Anthocercis gracilis	Benth.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Slender Tailflower	9
https://id.biodiversity.org.au/node/apni/2914355	Lepyrodia macra	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Large Scale Rush	9
https://id.biodiversity.org.au/node/apni/2915299	Quercus robur	L.	species	Plantae	Charophyta	Equisetopsida	Fagales	Fagaceae	English Oak	9
https://id.biodiversity.org.au/node/apni/2917263	Dietes grandiflora	N.E.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Wild Iris	9
https://id.biodiversity.org.au/node/apni/2920096	Leucopogon gracillimus	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		9
https://id.biodiversity.org.au/node/apni/2920807	Eucalyptus kruseana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Bookleaf Mallee	9
https://id.biodiversity.org.au/node/apni/2921084	Erodium botrys	(Cav.) Bertol.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Big Herons-bill	9
https://id.biodiversity.org.au/node/apni/4750977	Muehlenbeckia adpressa	(Labill.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Climbing Lignum	9
https://id.biodiversity.org.au/taxon/apni/51289275	Calothamnus rupestris	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Mouse Ears	9
https://id.biodiversity.org.au/taxon/apni/51311057	Xerochrysum macranthum	(Benth.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		9
https://id.biodiversity.org.au/taxon/apni/51430932	Daucus glochidiatus	(Labill.) Fisch., C.A.Mey. & Ave-Lall.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Native Carrot	9
https://id.biodiversity.org.au/taxon/apni/51446170	Chaetanthus aristatus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Bearded Twinerush	9
https://biodiversity.org.au/afd/taxa/0296bff8-3397-41d2-a4f3-91140321d0a5	Lasioglossum (Chilalictus) castor	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		8
https://biodiversity.org.au/afd/taxa/06e4e0c6-6973-4441-b7f2-2a5dcb932778	Nephila edulis	(LabillardiÃ¨re, 1799)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Australian Golden Orb-weaving Spider	8
https://biodiversity.org.au/afd/taxa/0d3ceb6d-a8de-45d3-8827-e4b97dfe92bf	Zonioploca bicolor	Shaw, 1925	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		8
https://biodiversity.org.au/afd/taxa/0fb7f878-4118-4277-903f-f9965d85aadd	Homoneura (Homoneura) perthensis	Malloch, 1927	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae		8
https://biodiversity.org.au/afd/taxa/10225969-809f-475b-b89b-7300f29a202d	Metaballus frontalis	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		8
https://biodiversity.org.au/afd/taxa/3edd50d6-4964-4766-b97a-3cd9f7baa7a6	Gyromantis kraussi	(Saussure, 1872)	species	Animalia	Arthropoda	Insecta	Mantodea	Amorphoscelidae		8
https://biodiversity.org.au/afd/taxa/4029aa18-3b82-450d-b24d-2b69ee3f946c	Oncorhinothynnus xanthospilus	(Shuckard, 1841)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		8
https://biodiversity.org.au/afd/taxa/4119a01b-3563-4633-b6b3-22dd28b790ce	Spodoptera litura	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Armyworm Moth	8
https://biodiversity.org.au/afd/taxa/459c6357-a012-465e-8c05-684264cd4ea4	Maratus mungaich	Waldock, 1995	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		8
https://biodiversity.org.au/afd/taxa/4d561038-f0fd-40e2-a607-7392ffc39c26	Bardistus cibarius	Newman, 1841	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Badee Grub	8
https://biodiversity.org.au/afd/taxa/5060e514-bb60-4e65-81a5-5a45ed453e67	Aedes (Rampamyia) notoscriptus	(Skuse, 1889)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae		8
https://biodiversity.org.au/afd/taxa/54fe92ef-0c36-4db8-8574-ba9e9d42dd20	Enasiba tristis	Olliff, 1886	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		8
https://biodiversity.org.au/afd/taxa/563c86d5-0707-46cd-8aaa-944bb2ea9a5f	Poecilometis punctiventris	(StÃ¥l, 1876)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		8
https://biodiversity.org.au/afd/taxa/5d3f3041-83a6-4d47-a640-67ddbabc845f	Hippodamia variegata	(Goeze, 1777)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Spotted Amber Ladybird	8
https://biodiversity.org.au/afd/taxa/61e170fd-93a7-4187-81b5-db2e25c2faf8	Balta hebardi	Princis, 1969	species	Animalia	Arthropoda	Insecta	Blattodea	Pseudophyllodromiidae		8
https://biodiversity.org.au/afd/taxa/623f0c55-e927-42a7-b0e6-220fec9d9691	Melangyna (Austrosyrphus) viridiceps	(Macquart, 1847)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Hover Fly	8
https://biodiversity.org.au/afd/taxa/66cf9e86-f1f3-4716-a4d3-cd4650ff087a	Tringa (Heteroscelus) brevipes	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Grey-tailed Tattler	8
https://biodiversity.org.au/afd/taxa/6b6a81b1-4928-488e-a45b-d42868c263a7	Raveniella peckorum	Rix & Harvey, 2010	species	Animalia	Arthropoda	Arachnida	Araneae	Anapidae		8
https://biodiversity.org.au/afd/taxa/6c5dc29f-1dbc-483c-b126-552993af97b1	Exoneurella setosa	(Houston, 1976)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae		8
https://biodiversity.org.au/afd/taxa/782c7f94-c447-41a9-80c8-2d4b9ea90fe2	Trichocolletes dives	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		8
https://biodiversity.org.au/afd/taxa/78ff5da4-018e-41e7-b019-e70d84da24b5	Campylomma liebknechti	(Girault, 1934)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Apple Dimpling Bug	8
https://biodiversity.org.au/afd/taxa/87d7d33c-e2e3-442c-aca9-aaa49a758bb2	Austrolestes annulosus	(Selys, 1862)	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Blue Ringtail	8
https://biodiversity.org.au/afd/taxa/9c2c48ed-7d1b-4cbb-ad24-d6abee807b02	Backobourkia brouni	(Urquhart, 1885)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	8
https://biodiversity.org.au/afd/taxa/ab3930a8-0ece-4216-9f02-cdc8ecf46f96	Pseudapines geminata	(Van Duzee, 1905)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Pittosporum Bug	8
https://biodiversity.org.au/afd/taxa/aea31ae7-e22c-4f0f-8644-c8f4a42471a9	Zaspilothynnus gilesi	Turner, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		8
https://biodiversity.org.au/afd/taxa/d052714a-7788-4ea9-a048-ac7664ccf27e	Ostearius melanopygius	(O.P.-Cambridge, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Linyphiidae		8
https://biodiversity.org.au/afd/taxa/d4fe643e-881f-49de-a8c9-628d5bce2e24	Macrotis lagotis	(Reid, 1837)	species	Animalia	Chordata	Mammalia	Peramelemorphia	Thylacomyidae	Bilby	8
https://biodiversity.org.au/afd/taxa/d5a8bde0-f56a-4af9-962a-d168b3e3308b	Coturnix (Coturnix) pectoralis	Gould, 1837	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Stubble Quail	8
https://biodiversity.org.au/afd/taxa/dafde291-d532-462b-8ca3-6c3d839cd719	Nezara viridula	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Green Vegetable Bug	8
https://biodiversity.org.au/afd/taxa/e23bc7cf-ee0c-4748-87a7-816df6c82341	Lasioglossum (Chilalictus) teltiri	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		8
https://biodiversity.org.au/afd/taxa/e438e96d-ceab-48a2-9bbb-966e92206113	Melanacanthus scutellaris	(Dallas, 1852)	species	Animalia	Arthropoda	Insecta	Hemiptera	Alydidae	Podsucking Bug	8

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/e68cbf98-1efe-4f96-a748-a771ce365de3	Oenosandra boisduvalii	Newman, 1856	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oenosandridae	Boisduval S Autumn Moth	8
https://biodiversity.org.au/afd/taxa/eff71393-69a4-4bbf-a505-3746f5165cd4	Habronestes australiensis	(O.P.-Cambridge, 1869)	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		8
https://biodiversity.org.au/afd/taxa/f13d3116-25ed-439c-bb75-531a94bd77d0	Neuroctenus transitus	Monteith, 1997	species	Animalia	Arthropoda	Insecta	Hemiptera	Aradidae		8
https://biodiversity.org.au/afd/taxa/f75b10e2-d382-48e8-8666-0da3d5303a25	Austroaeschna anacantha	Tillyard, 1908	species	Animalia	Arthropoda	Insecta	Odonata	Aeshnidae	Western Darner	8
https://biodiversity.org.au/afd/taxa/fa6364d4-bd9b-4e28-a983-4395e1d2ebea	Drepanacra binocula	(Newman, 1838)	species	Animalia	Arthropoda	Insecta	Neuroptera	Hemerobiidae	Hooktipped Brown Lacewing	8
https://biodiversity.org.au/afd/taxa/fbd4faa9-cf8f-421a-9640-831fa8b1e59d	Coelophora inaequalis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Common Australian Lady Beetle	8
https://biodiversity.org.au/afd/taxa/fc3b46b6-9622-4141-b803-f2e2d7297a7b	Pinkfloydia harveii	Dimitrov & Hormiga, 2011	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		8
https://biodiversity.org.au/afd/taxa/fe41d894-082c-4d2b-b49e-c543ce554b6b	Helea gilesi	(Carter, 1910)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		8
https://id.biodiversity.org.au/node/apni/2889067	Bolboschoenus caldwellii	(V.J.Cook) SojÃ¡k	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Salt Club-sedge	8
https://id.biodiversity.org.au/node/apni/2892855	Rytidosperma occidentale	(Vickery) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Western Wallaby Grass	8
https://id.biodiversity.org.au/node/apni/2896616	Dichopogon preissii	(Endl.) Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Nodding Chocolate Lily	8
https://id.biodiversity.org.au/node/apni/2897441	Lepidosperma tenue	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		8
https://id.biodiversity.org.au/node/apni/2898405	Melaleuca teretifolia	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Banbar	8
https://id.biodiversity.org.au/node/apni/2900642	Petrorhagia dubia	(Raf.) G.Lopez & Romo	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Velvet Pink	8
https://id.biodiversity.org.au/node/apni/2901268	Moraea miniata	Andrews	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Two-leaf Cape Tulip	8
https://id.biodiversity.org.au/node/apni/2901294	Dichelachne crinita	(L.f.) Hook.f.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Long-hair Plume-grass	8
https://id.biodiversity.org.au/node/apni/2904648	Acacia extensa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Wiry Wattle	8
https://id.biodiversity.org.au/node/apni/2904661	Cicendia filiformis	(L.) Delarbre	species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Slender Cicendia	8
https://id.biodiversity.org.au/node/apni/2904997	Juncus bufonius	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Toad Rush	8
https://id.biodiversity.org.au/node/apni/2905466	Daviesia longifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		8
https://id.biodiversity.org.au/node/apni/2906504	Convolvulus remotus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Grassy Bindweed	8
https://id.biodiversity.org.au/node/apni/2907634	Medicago polymorpha	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Spineless Burr Medic	8
https://id.biodiversity.org.au/node/apni/2908818	Vinca major	L.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Blue Periwinkle	8
https://id.biodiversity.org.au/node/apni/2910232	Galium divaricatum	Pourr. ex Lam.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Slender Bedstraw	8
https://id.biodiversity.org.au/node/apni/2910351	Verticordia insignis	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		8
https://id.biodiversity.org.au/node/apni/2910909	Genista linifolia	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flax-leaf Broom	8
https://id.biodiversity.org.au/node/apni/2911209	Stylidium guttatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Dotted Triggerplant	8
https://id.biodiversity.org.au/node/apni/2911400	Delonix regia	(Bojer ex Hook.) Raf.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Royal Poinciana	8
https://id.biodiversity.org.au/node/apni/2912573	Wurmbea pygmaea	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae		8
https://id.biodiversity.org.au/node/apni/2915025	Lobelia tenuior	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Slender Lobelia	8
https://id.biodiversity.org.au/node/apni/2915319	Cynodon dactylon	(L.) Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Couch	8
https://id.biodiversity.org.au/node/apni/2915837	Philydrella pygmaea	(R.Br.) Caruel	species	Plantae	Charophyta	Equisetopsida	Commelinales	Philydraceae	Lesser Butterfly Flowers	8
https://id.biodiversity.org.au/node/apni/2918865	Kickxia elatine	(L.) Dumort.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Pointed Toadflax	8
https://id.biodiversity.org.au/node/apni/2918887	Gompholobium preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		8
https://id.biodiversity.org.au/node/apni/2919505	Stylidium longitubum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Jumping Jacks	8
https://id.biodiversity.org.au/node/apni/2919853	Trithuria occidentalis	Benth.	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae	Swan Hydatella	8
https://id.biodiversity.org.au/node/apni/2919872	Trifolium arvense	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Haresfoot Clover	8
https://id.biodiversity.org.au/node/apni/2920041	Cenchrus purpureus	(Schumach.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Elephant Grass	8
https://id.biodiversity.org.au/node/apni/2920072	Dillwynia cinerascens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grey Parrot-pea	8
https://id.biodiversity.org.au/node/apni/2920777	Patersonia rudis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Hairy Flag	8
https://id.biodiversity.org.au/node/apni/7772838	Polypogon monspeliensis	(L.) Desf.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Beardgrass	8
https://id.biodiversity.org.au/node/fungi/60092201	Amanita carneiphylla	O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		8
https://id.biodiversity.org.au/taxon/apni/51268414	Cotula coronopifolia	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Water Buttons	8
https://id.biodiversity.org.au/taxon/apni/51271041	Callitris pyramidalis	(Miq.) J.E.Piggin & J.J.Bruhl	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Swamp Cypress	8
https://id.biodiversity.org.au/taxon/apni/51283612	Drosera minutiflora	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		8
https://id.biodiversity.org.au/taxon/apni/51293740	Leptocarpus coangustatus	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		8
https://id.biodiversity.org.au/taxon/apni/51293762	Leptocarpus decipiens	B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		8
https://id.biodiversity.org.au/taxon/apni/51293793	Leptocarpus scariosus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		8
https://id.biodiversity.org.au/taxon/apni/51294393	Stylidium neurophyllum	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Fan-leaved Triggerplant	8
https://id.biodiversity.org.au/taxon/apni/51399190	Caladenia marginata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Fairy Orchid	8
https://id.biodiversity.org.au/taxon/apni/51405036	Epiblema grandiflorum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Babe-in-a-cradle	8
https://id.biodiversity.org.au/taxon/apni/51406604	Microtis alba	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Mignonette Orchid	8

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51406650	Microtis unifolia	(G.Forst.) Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Onion Orchid	8
https://id.biodiversity.org.au/taxon/apni/51409809	Prasophyllum macrostachyum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Laughing Leek Orchid	8
https://id.biodiversity.org.au/taxon/apni/51442479	Amphipogon strictus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Greybeard Grass	8
https://id.biodiversity.org.au/taxon/apni/51445936	Cheilanthes sieberi	Kunze	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Rock Fern	8
NZOR-6-24030	Nitella tasmanica	(O.F. MÃ¼ll. ex. A. Braun) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae	Green Algae	7
https://biodiversity.org.au/afd/taxa/04254e40-ccf4-4d5f-97dc-3b1f088bc3cf	Euryglossina (Euryglossina) argocephala	Exley, 1968	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	7
https://biodiversity.org.au/afd/taxa/0dec2a4d-7cad-4792-845d-b614bb59d78c	Myrmecia mandibularis	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Toothless Bull Ant	7
https://biodiversity.org.au/afd/taxa/0e526884-3eb4-490c-9362-3eb8065ee0d4	Plutella xylostella	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Plutellidae	Diamondback Moth	7
https://biodiversity.org.au/afd/taxa/17854bf0-7a1b-4bae-8225-bbff39505e1f	Anopheles (Cellia) annulipes	Walker, 1856	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Spear Mosquito	7
https://biodiversity.org.au/afd/taxa/1ba5e738-915d-455e-baa6-c387b4772210	Hylaeus (Gnathoprosopis) euxanthus	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	7
https://biodiversity.org.au/afd/taxa/2843e4d8-931a-41f0-875e-f6756f44088f	Hydromys chrysogaster	Geoffroy, 1804	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	Water-rat	7
https://biodiversity.org.au/afd/taxa/2bc54184-b42a-4390-a12d-7ac7e3027e26	Astraeus (Depollus) aberrans	van de Poll, 1886	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/2c39748f-c769-40fb-8c3d-09b5cd192342	Camponotus marcens	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		7
https://biodiversity.org.au/afd/taxa/30fd2ca0-be49-4c29-ab62-3cac512e5878	Ptomaphila lacrymosa	(Schreibers, 1802)	species	Animalia	Arthropoda	Insecta	Coleoptera	Silphidae	Carrion Beetle	7
https://biodiversity.org.au/afd/taxa/33806661-a5ff-4795-9325-33e0a3113c86	Hemisaga albilinea	Rentz, 1993	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		7
https://biodiversity.org.au/afd/taxa/380590bb-467e-470e-9f2c-61832b68d178	Ctenotus australis	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Limestone Ctenotus	7
https://biodiversity.org.au/afd/taxa/39686d03-b65f-4f08-bc78-cfc49a109f4d	Synothele michaelseni	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		7
https://biodiversity.org.au/afd/taxa/39e12c5c-a623-4758-a329-f3ae642b6f1d	Mesodina cyanophracta	Lower, 1911	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Blue Iris-skipper	7
https://biodiversity.org.au/afd/taxa/3c570e2d-bf52-4051-abd3-5dde4d161af3	Diplodactylus polyophthalmus	GÃ¼nther, 1867	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Spotted Sandplain Gecko	7
https://biodiversity.org.au/afd/taxa/3cfe8657-b8aa-4f53-a035-d50db22dffca	Castiarina sagittaria	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/4f37aef6-0f7a-4e91-91ae-9193cd131126	Allothereua maculata	(Newport, 1844)	species	Animalia	Arthropoda	Chilopoda	Scutigeromorpha	Scutigeridae	Species Of House Centipede	7
https://biodiversity.org.au/afd/taxa/509d0e8e-bf58-4a27-995c-d854416c3b4a	Archiargiolestes pusillus	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Argiolestidae	Little Flatwing	7
https://biodiversity.org.au/afd/taxa/562a5c6b-51e8-457e-9b5d-c921af5e18ed	Tarsipes rostratus	Gervais & Verreaux, 1842	species	Animalia	Chordata	Mammalia	Diprotodontia	Tarsipedidae	Honey Possum	7
https://biodiversity.org.au/afd/taxa/5c9ab00e-2da3-49d9-9979-651b2bd4eba3	Pyralis farinalis	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Meal Moth	7
https://biodiversity.org.au/afd/taxa/5d485afe-3c96-4ca5-8dc1-ea67a309d1c1	Austalis copiosa	(Walker, 1852)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		7
https://biodiversity.org.au/afd/taxa/619b3e1b-71d9-4ce8-87bd-92d117a7de37	Artoriopsis joergi	Framenau, 2007	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		7
https://biodiversity.org.au/afd/taxa/628e3950-022e-4fe3-9264-40bdbc2bc649	Zaspilothynnus seductor	(Smith, 1868)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		7
https://biodiversity.org.au/afd/taxa/683021bb-2474-40ac-8ef1-8e0386c192b6	Solaenodolichopus pruvoti	(Brolemann, 1931)	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		7
https://biodiversity.org.au/afd/taxa/6ac56cf2-7d6f-4b21-ae1e-bb46df3dfc07	Neoseiulus harveyi	(McMurtry & Schicha, 1987)	species	Animalia	Arthropoda	Arachnida	Mesostigmata	Phytoseiidae		7
https://biodiversity.org.au/afd/taxa/6d838bb3-a576-49b1-9472-e27a03baa558	Nicodamus mainae	Harvey, 1995	species	Animalia	Arthropoda	Arachnida	Araneae	Nicodamidae		7
https://biodiversity.org.au/afd/taxa/70f3de70-ae21-4b63-9a9f-613b857f2c76	Earias huegeliana	Gaede, 1938	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae	Rough Bollworm Moth	7
https://biodiversity.org.au/afd/taxa/81b64c0a-2410-4bfd-9453-b706a8ae7617	Anilios pinguis	(Waite, 1897)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Rotund Blind Snake	7
https://biodiversity.org.au/afd/taxa/866ba3e1-f853-4643-a97c-3a3f0fe9cf22	Polistes (Polistella) humilis	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	Common Paper Wasp	7
https://biodiversity.org.au/afd/taxa/8dbdc531-8a12-40a1-a840-e53c696a2459	Diplodactylus vittatus	Gray, 1832	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Eastern Stone Gecko	7
https://biodiversity.org.au/afd/taxa/91b1b912-718d-4b8e-9e2c-55d2a92b239a	Leioproctus (Leioproctus) plumosus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	7
https://biodiversity.org.au/afd/taxa/9649ef88-bc30-4375-8b6b-49d72dfad9fb	Castiarina subtrifasciata	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/a44eab4d-28ba-4a53-b1ab-ab01a0a17802	Elapognathus coronatus	(Schlegel, 1837)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Western Crowned Snake	7
https://biodiversity.org.au/afd/taxa/b10fb29f-a476-4a23-a04c-52e296b1d380	Cypericoccus multipora	Williams, 1985	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		7
https://biodiversity.org.au/afd/taxa/b1d14cb6-d5d6-413b-b319-b36a00898140	Proteuxoa epiplecta	(GuenÃ©e, 1868)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae		7
https://biodiversity.org.au/afd/taxa/b9255d27-58e0-4a8b-9ac8-854c1ad1a741	Nephrotoma australasiae	(Skuse, 1890)	species	Animalia	Arthropoda	Insecta	Diptera	Tipulidae		7
https://biodiversity.org.au/afd/taxa/bc925520-c943-40c2-9a1d-3c5a8c8025f1	Amegilla (Asaropoda) preissi	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae		7
https://biodiversity.org.au/afd/taxa/bd136580-4ebe-4749-b652-3cfd934679a3	Hypsidia niphosema	(Lower, 1908)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Drepanidae		7
https://biodiversity.org.au/afd/taxa/bdb2074c-e572-4469-9607-0e11690edb56	Orthorhinus cylindrirostris	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Elephant Weevil	7
https://biodiversity.org.au/afd/taxa/c4842587-0b83-4d7b-9047-9fd2a6ecba23	Culex (Culex) quinquefasciatus	Say, 1823	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	House Mosquito	7
https://biodiversity.org.au/afd/taxa/ca2130d2-9965-4aed-8fb1-f378866346a3	Astraeus (Astraeus) oberthuri	van de Poll, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/d3b7d115-bd80-4ad4-ad8f-9c48e40450a7	Austrosynthemis cyanitincta	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Turquoise Tigertail	7

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/d82dd2e8-0573-430a-91ab-1efa31c5c7e9	Occiperipatoides gilesii	(Spencer, 1909)	species	Animalia	Onychophora			Peripatopsidae		7
https://biodiversity.org.au/afd/taxa/db8ea0ac-1e65-499e-9ef2-8fbbd3afaaf3	Chasmina pulchra	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	7
https://biodiversity.org.au/afd/taxa/de7d53cd-33a4-48f9-b38c-d792fd1f52ea	Melobasis gloriosa	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/e29ab738-af2b-438a-80cf-675a37616ba9	Osphranter robustus	(Gould, 1841)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Common Wallaroo	7
https://biodiversity.org.au/afd/taxa/e32ef200-cc8d-4d71-88e2-521ac0d38af9	Socca senicaudata	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		7
https://biodiversity.org.au/afd/taxa/eba9ef04-13e3-4a67-b359-fd21f1b146bf	Phryganoporus candidus	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae	Spider	7
https://biodiversity.org.au/afd/taxa/f3ed7df3-cb3f-48c5-841c-d5dc556e5db6	Vespula germanica	(Fabricius, 1793)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	European Wasp	7
https://biodiversity.org.au/afd/taxa/f40752b0-a14a-42ce-bc47-ec207cb0b4bd	Melopsittacus undulatus	(Shaw, 1805)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Budgerigar	7
https://biodiversity.org.au/afd/taxa/f93f120b-129e-4f7d-888a-8a762bbff73e	Mantis octospilota	Westwood, 1889	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Blackbarred Mantid	7
https://id.biodiversity.org.au/node/apni/2886594	Hibbertia nymphaea	Diels	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		7
https://id.biodiversity.org.au/node/apni/2886637	Podotheca chrysantha	(Steetz) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Yellow Podotheca	7
https://id.biodiversity.org.au/node/apni/2886962	Atriplex prostrata	Boucher ex DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Hastate Orache	7
https://id.biodiversity.org.au/node/apni/2887401	Astartea fascicularis	(Labill.) DC.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Recherche Astartea	7
https://id.biodiversity.org.au/node/apni/2888864	Paspalum dilatatum	Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Paspalum	7
https://id.biodiversity.org.au/node/apni/2889404	Leptomeria cunninghamii	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae		7
https://id.biodiversity.org.au/node/apni/2889646	Crassula decumbens	Thunb.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Rufous Stonecrop	7
https://id.biodiversity.org.au/node/apni/2890095	Lepidosperma asperatum	(KÃ¼k.) R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		7
https://id.biodiversity.org.au/node/apni/2891153	Digitaria sanguinalis	(L.) Scop.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Summer Grass	7
https://id.biodiversity.org.au/node/apni/2892118	Ipomoea muelleri	Benth.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Poison Morning-glory	7
https://id.biodiversity.org.au/node/apni/2892964	Drosera pycnoblasta	Diels	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pearly Sundew	7
https://id.biodiversity.org.au/node/apni/2894949	Cyperus tenuiflorus	Rottb.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Scaly Sedge	7
https://id.biodiversity.org.au/node/apni/2895152	Tribonanthes australis	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Southern Tiurndin	7
https://id.biodiversity.org.au/node/apni/2896226	Oxalis purpurea	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	One-o'clock	7
https://id.biodiversity.org.au/node/apni/2896476	Homalospermum firmum	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		7
https://id.biodiversity.org.au/node/apni/2896561	Gastrolobium reticulatum	(Meisn.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		7
https://id.biodiversity.org.au/node/apni/2897034	Laxmannia grandiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		7
https://id.biodiversity.org.au/node/apni/2897333	Spergula arvensis	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Corn Spurrey	7
https://id.biodiversity.org.au/node/apni/2897438	Schoenus pennisetis	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		7
https://id.biodiversity.org.au/node/apni/2898862	Calandrinia corrigioloides	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Strap Purslane	7
https://id.biodiversity.org.au/node/apni/2899088	Cassytha flava	Nees	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	7
https://id.biodiversity.org.au/node/apni/2900324	Juncus microcephalus	Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Tiny-headed Rush	7
https://id.biodiversity.org.au/node/apni/2900605	Erigeron karvinskianus	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bony-tip Fleabane	7
https://id.biodiversity.org.au/node/apni/2900966	Dittrichia graveolens	(L.) Greuter	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Stinkwort	7
https://id.biodiversity.org.au/node/apni/2902563	Thysanotus scaber	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		7
https://id.biodiversity.org.au/node/apni/2902847	Stylidium lineatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Sunny Triggerplant	7
https://id.biodiversity.org.au/node/apni/2904253	Monotaxis occidentalis	Endl.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae		7
https://id.biodiversity.org.au/node/apni/2904675	Vellereophyton dealbatum	(Thunb.) Hilliard & B.L.Burtt	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	White Cudweed	7
https://id.biodiversity.org.au/node/apni/2904959	Ficus carica	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Moraceae	Edible Fig	7
https://id.biodiversity.org.au/node/apni/2908467	Patersonia umbrosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Yellow Flags	7
https://id.biodiversity.org.au/node/apni/2908807	Mirbelia ramulosa	(Benth. ex Lindl.) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Mirbelia	7
https://id.biodiversity.org.au/node/apni/2909154	Hydrocotyle lemnoides	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Aquatic Pennywort	7
https://id.biodiversity.org.au/node/apni/2910304	Melaleuca viminea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Mohan	7
https://id.biodiversity.org.au/node/apni/2911349	Brachyscome bellidioides	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		7
https://id.biodiversity.org.au/node/apni/2912636	Opercularia hispidula	Endl.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Hispid Stinkweed	7
https://id.biodiversity.org.au/node/apni/2913099	Schoenus bifidus	(Nees) Boeckeler	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		7
https://id.biodiversity.org.au/node/apni/2913142	Leucopogon glaucifolius	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		7
https://id.biodiversity.org.au/node/apni/2913186	Leptomeria empetriformis	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae		7
https://id.biodiversity.org.au/node/apni/2913332	Andersonia gracilis	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Slender Andersonia	7
https://id.biodiversity.org.au/node/apni/2914196	Tetraria capillaris	(F.Muell.) J.M.Black	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Hair Sedge	7
https://id.biodiversity.org.au/node/apni/2915188	Platytheca galioides	Steetz	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		7
https://id.biodiversity.org.au/node/apni/2915226	Monopsis debilis	(L.f.) C.Presl	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Pansy Lobelia	7
https://id.biodiversity.org.au/node/apni/2915326	Patersonia babianoides	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		7
https://id.biodiversity.org.au/node/apni/2915396	Stylidium obtusatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pinafore Triggerplant	7
https://id.biodiversity.org.au/node/apni/2915781	Astroloma macrocalyx	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Swan Berry	7
https://id.biodiversity.org.au/node/apni/2916722	Brachychiton acerifolius	(A.Cunn. ex G.Don) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Illawarra Flame Tree	7
https://id.biodiversity.org.au/node/apni/2917706	Oxalis incarnata	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Pale Wood-sorrel	7
https://id.biodiversity.org.au/node/apni/2918630	Lavandula stoechas	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Italian Lavender	7
https://id.biodiversity.org.au/node/apni/2919576	Sphaerolobium macranthum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		7
https://id.biodiversity.org.au/node/apni/2919924	Gastrolobium linearifolium	G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		7

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2920306	Cyperus polystachyos	Rottb.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Bunchy Flat-sedge	7
https://id.biodiversity.org.au/node/apni/2920619	Cartonema philydroides	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Commelinaceae		7
https://id.biodiversity.org.au/node/apni/4092442	Gomphocarpus fruticosus	(L.) W.T.Aiton	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Narrow-leaved Cotton Bush	7
https://id.biodiversity.org.au/node/apni/7766887	Eragrostis elongata	(Willd.) J.Jacq.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lovegrass	7
https://id.biodiversity.org.au/node/apni/7808071	Portulaca oleracea	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Munyeroo	7
https://id.biodiversity.org.au/node/apni/7989386	Stylidium pulchellum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Thumbelina Triggerplant	7
https://id.biodiversity.org.au/node/ausmoss/10113042	Sematophyllum homomallum	(Hampe) Broth.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Sematophyllaceae	Bronze Signal-moss	7
https://id.biodiversity.org.au/node/ausmoss/2899866	Lunularia cruciata	(L.) Dumort.	species	Plantae	Marchantiophyta	Marchantiopsida	Lunulariales	Lunulariaceae	Crescent Moonwort	7
https://id.biodiversity.org.au/node/ausmoss/2920390	Lethocolea pansa	(Taylor) G.A.M.Scott & K.G.Beckm.	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Acrobolbaceae	Common Pouchwort	7
https://id.biodiversity.org.au/node/fungi/60091623	Chlorophyllum molybdites	(G.Mey.) Massee	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Green-gilled Parasol	7
https://id.biodiversity.org.au/node/fungi/60096339	Boletellus obscurecoccineus	(HÃ¶hn.) Singer	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		7
https://id.biodiversity.org.au/node/lichen/30089049	Xanthoparmelia nana	(Kurok.) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		7
https://id.biodiversity.org.au/taxon/apni/51269199	Pandorea pandorana	(Andrews) Steenis	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Wonga Vine	7
https://id.biodiversity.org.au/taxon/apni/51283097	Cyperus congestus	Vahl	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Dense Flat-sedge	7
https://id.biodiversity.org.au/taxon/apni/51283515	Drosera microphylla	Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Golden Rainbow	7
https://id.biodiversity.org.au/taxon/apni/51288192	Orianthera campanulata	(R.Br.) C.S.P.Foster & B.J.Conn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		7
https://id.biodiversity.org.au/taxon/apni/51290657	Pterostylis crebriflora	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Darling Range Banded Greenhood	7
https://id.biodiversity.org.au/taxon/apni/51399078	Caladenia hirta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Sugar Candy Orchid	7
https://id.biodiversity.org.au/taxon/apni/51401354	Cyrtostylis tenuissima	(Nicholls & Goadby) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Gnat Orchid	7
https://id.biodiversity.org.au/taxon/apni/51404177	Diuris brevis	D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Short-nosed Donkey Orchid	7
https://id.biodiversity.org.au/taxon/apni/51405086	Eriochilus helonomos	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Bunny Orchid	7
https://id.biodiversity.org.au/taxon/apni/51414280	Thelymitra flexuosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Twisted Sun-orchid	7
https://id.biodiversity.org.au/taxon/apni/51433732	Hypericum gramineum	G.Forst.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Hypericaceae	Small St John's Wort	7
https://id.biodiversity.org.au/taxon/apni/51436351	Trifolium dubium	Sibth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Suckling Clover	7
https://id.biodiversity.org.au/taxon/apni/51440290	Melaleuca incana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Grey Honeymyrtle	7
https://id.biodiversity.org.au/taxon/apni/51613009	Salicornia quinqueflora	Bunge ex Ung.-Sternb.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Beaded Glasswort	7
NZOR-6-103292	Chara fibrosa	(Agardh ex Bruzelius) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae	Green Algae	6
https://biodiversity.org.au/afd/taxa/00067a34-0239-42f0-9335-aed46533933f	Gasteruption breviscutum	Kieffer, 1911	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		6
https://biodiversity.org.au/afd/taxa/00947c3c-6fd2-4fed-9af1-2d8c95438847	Alcaeus varicornis	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Acacia Shield Bug	6
https://biodiversity.org.au/afd/taxa/04cab999-1a92-4479-8bdb-02e93d361f1b	Tiracerus foveicollis	(Raffray, 1887)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		6
https://biodiversity.org.au/afd/taxa/098a51d0-a9d2-4adf-a2c7-cce5db7b0628	Megachile (Hackeriapis) canifrons	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	6
https://biodiversity.org.au/afd/taxa/0c577e55-63a3-4180-b8c8-ca28b5dba656	Simplisetia aequisetis	(Augener, 1913)	species	Animalia	Annelida	Polychaeta		Nereididae	Squirt Worm	6
https://biodiversity.org.au/afd/taxa/10ad88a5-e029-4534-bd40-2c1ba1b18e73	Brunotartessus fulvus	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	6
https://biodiversity.org.au/afd/taxa/12e5f0eb-d91a-4f17-b8d5-ebc4c81ea782	Echthromorpha intricatoria	(Fabricius, 1804)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae	Cream Spotted Ichneumon Wasp	6
https://biodiversity.org.au/afd/taxa/14833a25-6e9d-4651-bbf3-2163de7e1252	Geopelia cuneata	(Latham, 1801)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Diamond Dove	6
https://biodiversity.org.au/afd/taxa/149f9a28-8b82-431e-8732-c025785c01b3	Nymphes nigrescens	New, 1982	species	Animalia	Arthropoda	Insecta	Neuroptera	Nymphidae		6
https://biodiversity.org.au/afd/taxa/16181dc4-61c5-40a0-bd98-b9854b457efb	Acantholophus amycteroides	Macleay, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		6
https://biodiversity.org.au/afd/taxa/1ac5f37c-285d-486a-9cae-918971f46bdd	Exometoeca nycteris	Meyrick, 1888	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Western Flat	6
https://biodiversity.org.au/afd/taxa/1dfa06ee-4576-4a78-a9d9-8578cc16be34	Doratifera oxleyi	(Newman, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Limacodidae	Painted Cup Moth	6
https://biodiversity.org.au/afd/taxa/246ede86-5d70-4efb-9498-4ebe75ccf492	Taeniopygia guttata	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Passeriformes	Estrildidae	Zebra Finch	6
https://biodiversity.org.au/afd/taxa/253b8bdb-1402-4b7b-b245-4af68eeb7b1e	Camponotus chalceus	Crawley, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		6
https://biodiversity.org.au/afd/taxa/25a12b6a-80ba-4e31-9b50-32a374d1c3b0	Geophagus brasiliensis	(Quoy & Gaimard, 1824)	species	Animalia	Chordata	Actinopterygii	Perciformes	Cichlidae	Pearl Cichlid	6
https://biodiversity.org.au/afd/taxa/28d1be6e-54ef-4412-877d-15c56a3c23e4	Gasteruption mirabilifemorale	Pasteels, 1957	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		6
https://biodiversity.org.au/afd/taxa/2dda01d5-f69c-4a24-8fbc-214839a208a1	Trichocolletes erythrurus	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		6
https://biodiversity.org.au/afd/taxa/336bc500-a1b8-41a2-b554-d5b5bf1ba8f7	Neolucia agricola	(Westwood, 1851)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Fringed Heath-blue	6
https://biodiversity.org.au/afd/taxa/378e853b-577c-42f7-8fb7-f2951382f0c9	Limnoxenus zealandicus	(Broun, 1880)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	6
https://biodiversity.org.au/afd/taxa/38000ff7-7b9a-4561-aa4d-b3613d3865cb	Euryglossina (Euryglossina) hypochroma	Cockerell, 1916	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	6

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/3ab45dde-28a2-4e24-8a91-8577052a0933	Onthophagus ferox	Harold, 1867	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Western Dung Beetle	6
https://biodiversity.org.au/afd/taxa/3eb72e21-eeb5-4ef2-806b-f27e42e990e1	Paropsisterna cloelia	(StÃ¥l, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		6
https://biodiversity.org.au/afd/taxa/445201d1-241f-41da-acd8-8b64cae3a329	Tasmanicosa godeffroyi	(L. Koch, 1865)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Garden Wolf Spider	6
https://biodiversity.org.au/afd/taxa/48bd256d-536d-4ca8-96eb-950f17e80184	Rhipidura (Rhipidura) fuliginosa	(Sparrman, 1787)	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	New Zealand Fantail	6
https://biodiversity.org.au/afd/taxa/5147c83e-1c90-4690-9ccb-be428f73274f	Tumulitermes westraliensis	(Hill, 1921)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		6
https://biodiversity.org.au/afd/taxa/5815e99d-01cd-4a92-99ba-36f480c4834d	Lophochroa leadbeateri	(Vigors, 1831)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Major Mitchell's Cockatoo	6
https://biodiversity.org.au/afd/taxa/598ca9b8-5d59-48e2-9cd6-b0f43c5b61c5	Anilios waitii	(Boulenger, 1895)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Beaked Blind Snake	6
https://biodiversity.org.au/afd/taxa/5a255809-f1a5-420f-9cd3-98bc5b2a3f5f	Euzosteria femoralis	(Walker, 1868)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		6
https://biodiversity.org.au/afd/taxa/5e0f496f-5045-41ff-8c03-f3c8fd4f8ccd	Platycercus (Platycercus) elegans	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Crimson Rosella	6
https://biodiversity.org.au/afd/taxa/5f44995b-559b-4dea-a30d-e3f2adf17f8c	Chlidonias (Pelodes) hybrida	(Pallas, 1811)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Whiskered Tern	6
https://biodiversity.org.au/afd/taxa/60998480-21c4-4ca0-aa5d-de272080c1c3	Ostorhinchus rueppellii	(GÃ¼nther, 1859)	species	Animalia	Chordata	Actinopterygii	Perciformes	Apogonidae	Western Gobbleguts	6
https://biodiversity.org.au/afd/taxa/6388c877-2bde-4fd9-8fb0-067ae333e79b	Nacoleia rhoeoalis	(Walker, 1859)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	6
https://biodiversity.org.au/afd/taxa/6452a494-1f1d-4db6-ac5e-70b392c67103	Favonigobius punctatus	(Gill & Miller, 1990)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Yellowspotted Sandgoby	6
https://biodiversity.org.au/afd/taxa/6540db4d-6ad2-4d02-a1a3-0ce812f68bca	Chauliognathus tricolor	(Castelnau, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cantharidae		6
https://biodiversity.org.au/afd/taxa/66950a6c-6f03-4cf5-bf33-01cee054408c	Milax gagates	(Draparnaud, 1801)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Milacidae	Jet Slug	6
https://biodiversity.org.au/afd/taxa/6c23af65-32c9-42b1-8188-ce042047aced	Phalloceros caudimaculatus	(Hensel, 1868)	species	Animalia	Chordata	Actinopterygii	Cyprinodontiformes	Poeciliidae	Speckled Mosquitofish	6
https://biodiversity.org.au/afd/taxa/7232c4a5-5a51-4e29-b96f-eeaea1760b51	Castiarina phaeopus	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		6
https://biodiversity.org.au/afd/taxa/7686818e-9819-4589-ae27-851e1ba4eae0	Anachloris tofocolorata	Schmidt, 2001	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	6
https://biodiversity.org.au/afd/taxa/7be588ab-4891-4dc6-8a27-119ccfaba789	Rentinus dilatatus	(Westwood, 1838)	species	Animalia	Arthropoda	Insecta	Hemiptera	Fulgoridae	Planthopper	6
https://biodiversity.org.au/afd/taxa/82f9ae34-036a-4293-aaaf-cf47376b95a4	Archimantis latistyla	(Serville, 1838)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		6
https://biodiversity.org.au/afd/taxa/84207c1f-ef83-472c-a3b7-d72f0438c4e5	Pyropsalta amnica	Moulds & Marshall, 2022	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		6
https://biodiversity.org.au/afd/taxa/84ac1e81-c3f6-43b7-b549-b1c406893280	Australothis rubrescens	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	6
https://biodiversity.org.au/afd/taxa/8698c1d0-2079-477f-832a-0771c8df7cad	Acanthagenys rufogularis	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Spiny-cheeked Honeyeater	6
https://biodiversity.org.au/afd/taxa/879e81d3-a4e8-452c-a2b0-2cdfa1e7dd49	Spilostethus pacificus	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Hemiptera	Lygaeidae	Bug	6
https://biodiversity.org.au/afd/taxa/8f8d2b19-d839-43eb-a84f-bc5836f9de70	Karaops ellenae	Crews & Harvey, 2011	species	Animalia	Arthropoda	Arachnida	Araneae	Selenopidae		6
https://biodiversity.org.au/afd/taxa/96caf85e-123d-476a-ad55-9291f6cc5985	Catasarcus hopei	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		6
https://biodiversity.org.au/afd/taxa/99460294-9d26-4ed4-8032-a120e314b53f	Phlyctinus callosus	(Schoenherr, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Garden Weevil	6
https://biodiversity.org.au/afd/taxa/9c31e938-3029-4764-9163-725f47fdd00a	Zasphinctus imbecilis	(Forel, 1907)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		6
https://biodiversity.org.au/afd/taxa/9fabb63e-192a-45a4-8c1f-7ad41597e960	Iridomyrmex suchieri	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	6
https://biodiversity.org.au/afd/taxa/9feb7e18-7f75-4a08-bc1b-6bc2120b6e32	Sternopriscus browni	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	6
https://biodiversity.org.au/afd/taxa/a38e9409-f7a7-4ca8-bcf7-300e759fb9cc	Missulena hoggi	Womersley, 1943	species	Animalia	Arthropoda	Arachnida	Araneae	Actinopodidae		6
https://biodiversity.org.au/afd/taxa/a3e4c2f2-360b-4685-801a-da4073ac45f9	Lasioglossum (Chilalictus) supralucens	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		6
https://biodiversity.org.au/afd/taxa/aaef2128-4dba-4619-86ef-8ba5ed6f1559	Cercophonius sulcatus	Kraepelin, 1908	species	Animalia	Arthropoda	Arachnida	Scorpiones	Bothriuridae		6
https://biodiversity.org.au/afd/taxa/adf11871-c02e-4864-83ae-393d528614b7	Nesoptilotis leucotis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-eared Honeyeater	6
https://biodiversity.org.au/afd/taxa/ae27a30b-e5c5-4399-aba4-1ded9f037c58	Myandra bicincta	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Prodidomidae	Long-spinneret Ground Spider	6
https://biodiversity.org.au/afd/taxa/affdbb83-357b-4b56-8899-eba55333f2ea	Araneus talipedatus	(Keyserling, 1887)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	6
https://biodiversity.org.au/afd/taxa/b2d8f15f-9dc2-4caf-aaaa-06ecaf31a242	Afurcagobius suppositus	(Sauvage, 1880)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Southwestern Goby	6
https://biodiversity.org.au/afd/taxa/c1d86cba-7f06-4639-b524-7f7c0818c4e6	Paralastor ignotus	Perkins, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		6
https://biodiversity.org.au/afd/taxa/c70d0758-9a34-438e-b910-c1f319538d8a	Thrips imaginis	Bagnall, 1926	species	Animalia	Arthropoda	Insecta	Thysanoptera	Thripidae	Plague Thrips	6
https://biodiversity.org.au/afd/taxa/caf3685c-fbeb-41b9-b832-dcf48802875f	Ctenotus ora	Kay & Keogh, 2012	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Coastal Plains Skink	6
https://biodiversity.org.au/afd/taxa/d4682c56-5ca7-4dc0-b057-f973112d859a	Ecnomus pansus	Neboiss, 1982	species	Animalia	Arthropoda	Insecta	Trichoptera	Ecnomidae	Caddisfly	6
https://biodiversity.org.au/afd/taxa/d560c2ba-faff-4973-a2d1-f4dbcf06bbf0	Clogmia albipunctata	(Williston, 1893)	species	Animalia	Arthropoda	Insecta	Diptera	Psychodidae	Moth Fly	6
https://biodiversity.org.au/afd/taxa/d8d2f323-d106-4c6d-abc3-6cd608ff3771	Acroaspis olorina	Karsch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		6
https://biodiversity.org.au/afd/taxa/d9d5caed-f028-4a4c-97cb-c686690ea582	Agrius convolvuli	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Convolvulus Hawk Moth	6
https://biodiversity.org.au/afd/taxa/e73171f0-298e-416c-a892-cfe479ea2762	Leioproctus (Exleycolletes) microdontus	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		6
https://biodiversity.org.au/afd/taxa/e9726b26-7bdb-4a63-9a92-3aa9166b3f28	Synalus angustus	(L. Koch, 1876)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	6
https://biodiversity.org.au/afd/taxa/e9b8abc4-1198-4c3f-bf21-fd1aa411305f	Taractrocera papyria	(Boisduval, 1832)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	White-banded Grass-dart	6
https://biodiversity.org.au/afd/taxa/ef38683f-5276-4c12-9061-5e86a8c77880	Hemidactylus frenatus	DumÃ©ril & Bibron, 1836	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	House Gecko	6

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/f0dd2cc5-3d75-4810-9bd2-4bf32765c700	Uroctena westralis	(Chilton, 1925)	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Paramelitidae	Amphipod	6
https://biodiversity.org.au/afd/taxa/f5902d4c-02e6-4ffb-b26b-9830c892bac9	Leioproctus (Urocolletes) rhodurus	Michener, 1965	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		6
https://id.biodiversity.org.au/name/apni/51306673	Hibbertia semipilosa	K.R.Thiele	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		6
https://id.biodiversity.org.au/node/apni/2886123	Lomandra suaveolens	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		6
https://id.biodiversity.org.au/node/apni/2886127	Lotus angustissimus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Slender Bird's-foot Trefoil	6
https://id.biodiversity.org.au/node/apni/2886948	Gladiolus undulatus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Wild Gladiolus	6
https://id.biodiversity.org.au/node/apni/2887445	Pimelea sulphurea	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Yellow Banjine	6
https://id.biodiversity.org.au/node/apni/2887606	Nicotiana glauca	Graham	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Tree Tobacco	6
https://id.biodiversity.org.au/node/apni/2887708	Austrostipa variabilis	(Hughes) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		6
https://id.biodiversity.org.au/node/apni/2888285	Eriachne ovata	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Swamp Wanderrie	6
https://id.biodiversity.org.au/node/apni/2889469	Tecticornia halocnemoides	(Nees) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Red Glasswort	6
https://id.biodiversity.org.au/node/apni/2889691	Schoenus capillifolius	D.A.Cooke	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		6
https://id.biodiversity.org.au/node/apni/2889833	Eucalyptus macrocarpa	Hook.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Blue Bush	6
https://id.biodiversity.org.au/node/apni/2889836	Thysanotus anceps	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		6
https://id.biodiversity.org.au/node/apni/2891057	Cytogonidium leptocarpoides	(Benth.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		6
https://id.biodiversity.org.au/node/apni/2893343	Allocasuarina huegeliana	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Rock Sheoak	6
https://id.biodiversity.org.au/node/apni/2893482	Utricularia inaequalis	A.DC.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae		6
https://id.biodiversity.org.au/node/apni/2894269	Oxalis perennans	Haw.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Native Sorrel	6
https://id.biodiversity.org.au/node/apni/2895312	Drosera zonaria	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Painted Sundew	6
https://id.biodiversity.org.au/node/apni/2896030	Hakea laurina	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Pincushion Hakea	6
https://id.biodiversity.org.au/node/apni/2897215	Conostylis bracteata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		6
https://id.biodiversity.org.au/node/apni/2897537	Gastridium phleoides	(Nees & Meyen) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Nit-grass	6
https://id.biodiversity.org.au/node/apni/2898045	Banksia pteridifolia	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		6
https://id.biodiversity.org.au/node/apni/2898610	Stylidium lateriticola	Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		6
https://id.biodiversity.org.au/node/apni/2899072	Rytidosperma acerosum	(Vickery) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		6
https://id.biodiversity.org.au/node/apni/2901018	Baeometra uniflora	(Jacq.) G.J.Lewis	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Baeometra	6
https://id.biodiversity.org.au/node/apni/2902607	Liparophyllum capitatum	(Nees ex Lehm.) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		6
https://id.biodiversity.org.au/node/apni/2903335	Drosera pulchella	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pretty Sundew	6
https://id.biodiversity.org.au/node/apni/2903833	Schoenus sculptus	(Nees) Boeckeler	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Gimlet Bog-rush	6
https://id.biodiversity.org.au/node/apni/2904003	Bossiaea concinna	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		6
https://id.biodiversity.org.au/node/apni/2904465	Corynotheca micrantha	(Lindl.) Druce	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Sand Lily	6
https://id.biodiversity.org.au/node/apni/2904956	Eleusine indica	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Crowsfoot Grass	6
https://id.biodiversity.org.au/node/apni/2905345	Banksia prionotes	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Acorn Banksia	6
https://id.biodiversity.org.au/node/apni/2905578	Halgania corymbosa	Lindl.	species	Plantae	Charophyta	Equisetopsida		Boraginaceae		6
https://id.biodiversity.org.au/node/apni/2905672	Ferraria crispa	Burm.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Black Flag	6
https://id.biodiversity.org.au/node/apni/2905984	Utricularia violacea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Violet Bladderwort	6
https://id.biodiversity.org.au/node/apni/2906381	Ipomoea batatas	(L.) Lam.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Sweet Potato	6
https://id.biodiversity.org.au/node/apni/2906496	Chorizandra enodis	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Black Bristle-sedge	6
https://id.biodiversity.org.au/node/apni/2908047	Hypolaena pubescens	(R.Br.) Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		6
https://id.biodiversity.org.au/node/apni/2908333	Pelargonium capitatum	(L.) L'HÃ©r.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Rose-scented Pelargonium	6
https://id.biodiversity.org.au/node/apni/2910010	Bacopa monnieri	(L.) Wettst.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Water Hyssop	6
https://id.biodiversity.org.au/node/apni/2910308	Ornduffia submersa	(Aston) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		6
https://id.biodiversity.org.au/node/apni/2910424	Bossiaea aquifolium	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Water Bush	6
https://id.biodiversity.org.au/node/apni/2910515	Stenotaphrum secundatum	(Walter) Kuntze	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Buffalo Grass	6
https://id.biodiversity.org.au/node/apni/2911719	Gratiola pubescens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Glandular Brooklime	6
https://id.biodiversity.org.au/node/apni/2912118	Thysanotus arenarius	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Sand-dune Fringed Lily	6
https://id.biodiversity.org.au/node/apni/2913921	Amaryllis belladonna	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Amaryllidaceae	Belladonna Lily	6
https://id.biodiversity.org.au/node/apni/2914378	Cyathochaeta teretifolia	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		6
https://id.biodiversity.org.au/node/apni/2914460	Stenanthemum humile	Benth.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		6
https://id.biodiversity.org.au/node/apni/2914552	Hensmania turbinata	(Endl.) W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae		6
https://id.biodiversity.org.au/node/apni/2916204	Hibbertia montana	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		6

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2916443	Selaginella gracillima	(Kunze) Spring ex Salomon	species	Plantae	Charophyta	Equisetopsida	Selaginellales	Selaginellaceae	Tiny Clubmoss	6
https://id.biodiversity.org.au/node/apni/2916725	Tribolium uniolae	(L.f.) Renvoize	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Secund Desmazeria	6
https://id.biodiversity.org.au/node/apni/2916956	Microlaena stipoides	(Labill.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Weeping Grass	6
https://id.biodiversity.org.au/node/apni/2917465	Haemodorum paniculatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Mardja	6
https://id.biodiversity.org.au/node/apni/2917990	Haemodorum brevisepalum	Benth.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		6
https://id.biodiversity.org.au/node/apni/2918603	Callitriche stagnalis	Scop.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Common Water-starwort	6
https://id.biodiversity.org.au/node/apni/2920769	Watsonia borbonica	(Pourr.) Goldblatt	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Rosy Watsonia	6
https://id.biodiversity.org.au/node/apni/7079512	Symphyotrichum squamatum	(Spreng.) G.L.Nesom	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bushy Starwort	6
https://id.biodiversity.org.au/node/apni/7080900	Symphyotrichum subulatum	(Michx.) G.L.Nesom	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Wild Aster	6
https://id.biodiversity.org.au/node/apni/7120186	Lepidosperma apricola	R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		6
https://id.biodiversity.org.au/node/apni/7746707	Bromus hordeaceus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Soft Brome	6
https://id.biodiversity.org.au/node/apni/7984728	Stylidium despectum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Hundreds And Thousands	6
https://id.biodiversity.org.au/node/apni/8507720	Dillwynia retorta	(J.C.Wendl.) Druce	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		6
https://id.biodiversity.org.au/node/ausmoss/10110349	Rosulabryum billarderii	(SchwÃ¤gr.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Common Thread-moss	6
https://id.biodiversity.org.au/node/ausmoss/2890300	Fossombronia cultriformis	G.A.M.Scott & D.C.Pike	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Frillwort	6
https://id.biodiversity.org.au/node/fungi/60113293	Phyllachora grevilleae	(LÃ©v.) Sacc.	species	Fungi	Ascomycota	Sordariomycetes	Phyllachorales	Phyllachoraceae		6
https://id.biodiversity.org.au/taxon/apni/51283232	Calectasia grandiflora	L.Preiss	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Blue Tinsel Lily	6
https://id.biodiversity.org.au/taxon/apni/51289066	Calothamnus hirsutus	Hawkeswood	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		6
https://id.biodiversity.org.au/taxon/apni/51291672	Persicaria decipiens	(R.Br.) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Slender Knotweed	6
https://id.biodiversity.org.au/taxon/apni/51300125	Gastrolobium epacridoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		6
https://id.biodiversity.org.au/taxon/apni/51300296	Lythrum hyssopifolia	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Lythraceae	Lesser Loosestrife	6
https://id.biodiversity.org.au/taxon/apni/51311636	Boronia crenulata	Sm.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Aniseed Boronia	6
https://id.biodiversity.org.au/taxon/apni/51399004	Caladenia filamentosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Daddy Long-legs	6
https://id.biodiversity.org.au/taxon/apni/51399251	Caladenia pectinata	R.S.Rogers	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	King Spider Orchid	6
https://id.biodiversity.org.au/taxon/apni/51404307	Diuris porrifolia	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Rosy-cheeked Donkey Orchid	6
https://id.biodiversity.org.au/taxon/apni/51404321	Diuris purdiei	Diels	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Purdie's Donkey Orchid	6
https://id.biodiversity.org.au/taxon/apni/51406465	Leptoceras menziesii	(R.Br.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Hare Orchid	6
https://id.biodiversity.org.au/taxon/apni/51429001	Melaleuca nesophila	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Showy Honey Myrtle	6
https://id.biodiversity.org.au/taxon/apni/51434660	Machaerina rubiginosa	(Spreng.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Baumea	6
https://id.biodiversity.org.au/taxon/apni/51436646	Acacia pycnantha	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Golden Wattle	6
https://id.biodiversity.org.au/taxon/apni/51445154	Pontederia crassipes	Mart.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Pontederiaceae	Water Hyacinth	6
https://id.biodiversity.org.au/taxon/apni/51447742	Solanum americanum	Mill.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Solanum	6
https://id.biodiversity.org.au/taxon/apni/51744686	Lagenophora platysperma	Jian Wang ter & A.R.Bean	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		6
NZOR-6-115963	Chara australis	R.Br.	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae		5
https://biodiversity.org.au/afd/taxa/00f30921-852f-4f4a-91d1-b85959785c80	Maroga melanostigma	(Wallengren, 1861)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Fruit Stem Borer Moth	5
https://biodiversity.org.au/afd/taxa/03282ece-e33d-4147-a841-dd9f0896e319	Sidymella trapezia	(L. Koch, 1874)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Trapezium Crab Spider	5
https://biodiversity.org.au/afd/taxa/05349d8f-bf20-4914-b43b-d6a4fa132008	Plebs eburnus	(Keyserling, 1886)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Bush Orb-weaver Spider	5
https://biodiversity.org.au/afd/taxa/092991a6-b6b2-4602-a6d6-a410fa13a9fd	Arniscus humeralis	(Dallas, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		5
https://biodiversity.org.au/afd/taxa/092b9246-16a8-461b-ac39-4363bebc9ce9	Hypertropha chlaenota	Meyrick, 1887	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hypertrophidae	Moth	5
https://biodiversity.org.au/afd/taxa/09d59f0a-e8fe-465c-9db3-13efc6a8e31c	Numenius (Phaeopus) phaeopus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Whimbrel	5
https://biodiversity.org.au/afd/taxa/0a42c6d5-1234-4fd8-bc53-8b70d17729c9	Mnesampela privata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Autumn Gum Moth	5
https://biodiversity.org.au/afd/taxa/0b9f8deb-6503-48e0-b952-383fcb924ce6	Laccotrephes (Laccotrephes) tristis	(StÃ¥l, 1854)	species	Animalia	Arthropoda	Insecta	Hemiptera	Nepidae	Water Scorpion	5
https://biodiversity.org.au/afd/taxa/0cb3491d-03fe-431e-bd4a-9f6447b4d644	Epicyme rubropunctaria	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	5
https://biodiversity.org.au/afd/taxa/114e0ff1-c98a-4c05-9a6b-8a3aa15a95a5	Epicoccus acaciae	(Maskell, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		5
https://biodiversity.org.au/afd/taxa/13c0e45c-84fa-4a64-a138-e163fc3ee7af	Cormocephalus turneri	Pocock, 1901	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		5
https://biodiversity.org.au/afd/taxa/17ce98f0-73f8-4fdd-89ca-b04992162b77	Campion rubellus	NavÃ¡s, 1914	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		5
https://biodiversity.org.au/afd/taxa/1f4cf48a-ad72-4f16-99bf-2ea2ee1b8f7a	Myrmecia vindex	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bull Ant	5
https://biodiversity.org.au/afd/taxa/29c3647e-1457-4fb1-b0a3-e31a78e538d1	Eurostopodus (Eurostopodus) argus	(Hartert, 1892)	species	Animalia	Chordata	Aves	Caprimulgiformes	Caprimulgidae	Spotted Nightjar	5
https://biodiversity.org.au/afd/taxa/2b6dcb32-6507-4553-970d-d06229af401e	Pygopus lepidopodus	(LacÃ©pÃ¨de, 1804)	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Common Scaly-foot	5
https://biodiversity.org.au/afd/taxa/2d51ff56-997d-4a12-963f-d2bf47489f49	Thyreus waroonensis	(Cockerell, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Cuckoo Bee	5

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/2f3cda32-b7ee-4a78-b03b-58cc369b4d45	Lerista distinguenda	(Werner, 1910)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	South-western Orange-tailed Slider	5
https://biodiversity.org.au/afd/taxa/2f41ce76-55c9-472e-97de-eda04be5fde5	Destolmia lineata	Walker, 1855	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Moth	5
https://biodiversity.org.au/afd/taxa/30ee9d69-b5f3-4f81-8b7c-10074fbdc485	Capra hircus	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Artiodactyla	Bovidae	Goat	5
https://biodiversity.org.au/afd/taxa/315f1776-5722-408a-b07e-77530f5731e1	Gasteruption bicarinatum	(Turner, 1981)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		5
https://biodiversity.org.au/afd/taxa/34207a50-3aad-4820-840a-68d5447c9b9f	Campion tenuistrigus	(Gerstaecker, 1885)	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		5
https://biodiversity.org.au/afd/taxa/345f6fa3-17f1-49bb-9def-9744c97ec73c	Anomalomydas mackerrasi	(Norris, 1938)	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		5
https://biodiversity.org.au/afd/taxa/3a53429b-45eb-4421-bcd7-661345957310	Drymaplaneta semivitta	(Walker, 1868)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Gisborne Cockroach	5
https://biodiversity.org.au/afd/taxa/3defc558-7f2a-497c-96ad-f6c80bb61d6f	Nyctemera amicus	(White, 1841)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	5
https://biodiversity.org.au/afd/taxa/4090ad27-9c69-454d-aa47-23860b9ee50b	Xenus cinereus	(GÃ¼ldenstÃ¤dt, 1775)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Terek Sandpiper	5
https://biodiversity.org.au/afd/taxa/489058be-ee9b-4fe6-bc74-159c10ea620d	Cryptocheilus bicolor	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae	Orange Spider Wasp	5
https://biodiversity.org.au/afd/taxa/49061f27-9c42-440c-9539-6300536ff3f5	Cylindraustralia tindalei	GÃ¼nther, 1992	species	Animalia	Arthropoda	Insecta	Orthoptera	Cylindrachetidae		5
https://biodiversity.org.au/afd/taxa/4bddd400-b075-4b08-967c-2c98a3e84b7c	Myrmeleon acer	Walker, 1853	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Common Antlion	5
https://biodiversity.org.au/afd/taxa/4cee8a8f-3848-4095-8734-254056585182	Galaxias occidentalis	Ogilby, 1899	species	Animalia	Chordata	Actinopterygii	Salmoniformes	Galaxiidae	Western Galaxias	5
https://biodiversity.org.au/afd/taxa/4d4c38e1-650b-4cf5-b331-7aa2fb0a5e06	Catasarcus bilineatus	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		5
https://biodiversity.org.au/afd/taxa/4f8d196e-6b81-44cb-beeb-64cd15c2ae19	Lychas marmoreus	(C.L. Koch, 1845)	species	Animalia	Arthropoda	Arachnida	Scorpiones	Buthidae	Marbled Scorpion	5
https://biodiversity.org.au/afd/taxa/5526c312-451f-4c90-a69e-088b55be6956	Pluvialis fulva	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Pacific Golden Plover	5
https://biodiversity.org.au/afd/taxa/588a782c-be72-4e20-a241-af5f3876a658	Bembix littoralis	Turner, 1908	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	5
https://biodiversity.org.au/afd/taxa/5ac1cf3f-ff43-490d-ac23-ea3ca00005e3	Hygraula nitens	(Butler, 1880)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Pond Moth	5
https://biodiversity.org.au/afd/taxa/5ea9c3a8-567a-4ab0-8a14-39d4de6ccf47	Delma fraseri	Gray, 1831	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Fraser's Delma	5
https://biodiversity.org.au/afd/taxa/5f40deca-aff7-4fbb-97ea-b9c89c99c237	Nyctophilus geoffroyi	Leach, 1821	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Lesser Long-eared Bat	5
https://biodiversity.org.au/afd/taxa/6167accb-7377-4534-b284-cc09e98441e6	Ectrephes formicarum	Pascoe, 1866	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		5
https://biodiversity.org.au/afd/taxa/65da4cb2-b431-408e-acb8-f480fd3c5679	Eudesmeola lawsoni	(R. Felder & Rogenhofer, 1874)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	5
https://biodiversity.org.au/afd/taxa/6c406e1a-690c-411a-b407-34c78dc7b612	Poecilometis apicalis	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	5
https://biodiversity.org.au/afd/taxa/6dbaeb00-dd98-4be8-9bce-3be6188b7581	Nisista galearia	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	5
https://biodiversity.org.au/afd/taxa/6f559bab-779d-4f8e-8212-eac8bff0a47e	Adelium brevicorne	Blessig, 1861	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae	Ground Beetle Sp 1	5
https://biodiversity.org.au/afd/taxa/70b173fb-a9cc-4b73-a9ee-598d1b5289a6	Limosa limosa	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Black-tailed Godwit	5
https://biodiversity.org.au/afd/taxa/71aa0370-adeb-4c36-ac1e-b89db30d3f84	Camponotus nigriceps	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Black-headed Sugar Ant	5
https://biodiversity.org.au/afd/taxa/8070e8d7-5c38-4954-8f76-7a18ce826cba	Metaparagia maculata	(Meade-Waldo, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		5
https://biodiversity.org.au/afd/taxa/834e771e-c391-4107-ba54-6f65dc0b3619	Cryptoblepharus plagiocephalus	(Cocteau, 1836)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	PÃ©ron's Snake-eyed Skink	5
https://biodiversity.org.au/afd/taxa/8708ed8d-1fe9-40c2-bd3e-aaf2e2bed5ce	Hypobapta barnardi	Goldfinch, 1929	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	5
https://biodiversity.org.au/afd/taxa/87d9866d-6df6-481b-aa61-721fdfd09879	Artamus (Campbellornis) personatus	(Gould, 1841)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Masked Woodswallow	5
https://biodiversity.org.au/afd/taxa/889257cc-10fa-4ad9-9d8d-0101377b083e	Creiis periculosus	(Olliff, 1895)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae		5
https://biodiversity.org.au/afd/taxa/8c7319ee-c6f9-4f11-98ee-e8ca0ebe465d	Rhinotia suturalis	(MacLeay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Belidae	Tailed Weevil	5
https://biodiversity.org.au/afd/taxa/8eab29fe-cfc3-450c-8718-074cae5164a2	Lehmannia nyctelia	(Bourguignat, 1861)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae	Striped Field Slug	5
https://biodiversity.org.au/afd/taxa/95f77dfd-5319-499c-a275-7e588db9b12e	Iridomyrmex conifer	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Coned Tyrant Ant	5
https://biodiversity.org.au/afd/taxa/9824ad43-a8bf-4693-8f06-0ae2a99592bf	Calosoma (Australodrepa) schayeri	Erichson, 1842	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae	Green Carab Beetle	5
https://biodiversity.org.au/afd/taxa/9ac99027-d2f3-4d56-90c6-8c7bc47405f2	Nacaduba biocellata	(C. & R. Felder, 1865)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Two-spotted Line-blue	5
https://biodiversity.org.au/afd/taxa/a8c12e04-6382-44e8-9093-ac103f333d6d	Acantholophus dumosus	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		5
https://biodiversity.org.au/afd/taxa/b50cfabc-67a2-43b8-810c-20d0aef16c4e	Tmarus marmoreus	(L. Koch, 1876)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		5
https://biodiversity.org.au/afd/taxa/b817ed58-14c6-4169-bcad-66f7a227e72a	Amblyomma triguttatum	Koch, 1844	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		5
https://biodiversity.org.au/afd/taxa/b82607ab-9c04-48af-8bbf-8f4266eb36ef	Castiarina rufipennis	(Kirby, 1818)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		5
https://biodiversity.org.au/afd/taxa/babedf46-96f6-42b5-b817-963228c553c1	Corasoides occidentalis	Humphrey, 2017	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae		5
https://biodiversity.org.au/afd/taxa/bfbb0bdc-3365-41b7-b15f-766c522c4cc6	Acantholophus lateralis	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		5
https://biodiversity.org.au/afd/taxa/c188e141-68f6-47ad-8327-c9fe56075c0a	Synemon leucospila	Meyrick, 1891	species	Animalia	Arthropoda	Insecta	Lepidoptera	Castniidae		5
https://biodiversity.org.au/afd/taxa/c2056f1b-fcde-45b9-904b-1cab280368d1	Canis familiaris	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Carnivora	Canidae	Common Dog	5
https://biodiversity.org.au/afd/taxa/c650dca9-69e3-4051-ace8-86444b0ee972	Egretta sacra	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Eastern Reef Egret	5
https://biodiversity.org.au/afd/taxa/c8c6a91a-bc1b-43e9-8a4a-c79ef1866e90	Macrosiphum (Macrosiphum) rosae	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphididae	Rose Aphid	5
https://biodiversity.org.au/afd/taxa/cd3dc353-d08a-4747-b031-eecf684971e0	Melobasis cuprifera	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		5
https://biodiversity.org.au/afd/taxa/cd4e3b1b-4387-4338-8fc8-0da4f30a9e0b	Burhinus (Burhinus) grallarius	(Latham, 1801)	species	Animalia	Chordata	Aves	Charadriiformes	Burhinidae	Bush Stone-curlew	5
https://biodiversity.org.au/afd/taxa/d045f508-3c75-470e-b1c7-83d2029e2d98	Paropsides calypso	(Blackburn, 1898)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		5
https://biodiversity.org.au/afd/taxa/d1756a83-ed3c-4593-8df6-99904d056089	Buddelundia opaca	(Budde-Lund, 1912)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Armadillidae		5
https://biodiversity.org.au/afd/taxa/dc21add3-0376-4164-9dfe-dacc5c50ef40	Micromus tasmaniae	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Neuroptera	Hemerobiidae	Tasmanian Brown Lacewing	5
https://biodiversity.org.au/afd/taxa/deae26a7-c580-4208-8183-0922cd0c6f9a	Ophiusa tirhaca	(Cramer, 1777)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	5

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/ec93619c-59cc-4ada-bee3-e6680ddd1b54	Hurleya kalamundae	StraÅjkraba, 1966	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Paramelitidae	Amphipod	5
https://biodiversity.org.au/afd/taxa/ecb2030b-0309-43f2-8fb3-22776db1b98d	Ixobrychus flavicollis	(Latham, 1790)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Black Bittern	5
https://biodiversity.org.au/afd/taxa/f0052736-ed3a-4170-a7b2-94bde6d36d19	Phalaenoides glycinae	Lewin, 1805	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Grapevine Moth	5
https://biodiversity.org.au/afd/taxa/f7c7c697-c589-4ac5-bf3f-7d6bc33d3f58	Dictyotus conspicuus	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	5
https://biodiversity.org.au/afd/taxa/f95f3be8-a197-490f-a687-8666c9a0b149	Tympanophora similis	Riek, 1976	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		5
https://id.biodiversity.org.au/name/apni/51346839	Drosera sp. Branched styles (S.C.Coffey 193)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		5
https://id.biodiversity.org.au/name/apni/57527	Machaerina articulata	(R.Br.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Jointed Twig-rush	5
https://id.biodiversity.org.au/node/apni/2886311	Dielsia stenostachya	(W.Fitzg.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		5
https://id.biodiversity.org.au/node/apni/2886391	Mirbelia dilatata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Holly-leaved Mirbelia	5
https://id.biodiversity.org.au/node/apni/2886851	Allium triquetrum	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae	Angled Onion	5
https://id.biodiversity.org.au/node/apni/2886878	Sparaxis tricolor	(Schneev.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Tricolor Harlequin Flower	5
https://id.biodiversity.org.au/node/apni/2887332	Mesomelaena graciliceps	(C.B.Clarke) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2887548	Nicotiana rotundifolia	Lindl.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Round-leaf Tobacco	5
https://id.biodiversity.org.au/node/apni/2888413	Cotula australis	(Sieber ex Spreng.) Hook.f.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Cotula	5
https://id.biodiversity.org.au/node/apni/2888471	Ottelia ovalifolia	(R.Br.) Rich.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Swamp Lily	5
https://id.biodiversity.org.au/node/apni/2888893	Stylidium divaricatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Daddy-long-legs	5
https://id.biodiversity.org.au/node/apni/2889330	Podotheca gnaphalioides	Graham	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Golden Long-heads	5
https://id.biodiversity.org.au/node/apni/2890692	Calectasia cyanea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Blue Tinsel Lily	5
https://id.biodiversity.org.au/node/apni/2890894	Eremophila nivea	Chinnock	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Silky Eremophila	5
https://id.biodiversity.org.au/node/apni/2891026	Andersonia heterophylla	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		5
https://id.biodiversity.org.au/node/apni/2891185	Schoenus benthamii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2891369	Platysace ramosissima	(Benth.) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2891485	Melaleuca cuticularis	Labill.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Western Swamp-paperbark	5
https://id.biodiversity.org.au/node/apni/2891607	Leucopogon sp. Great Southern (R.S.Cowan A-586)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		5
https://id.biodiversity.org.au/node/apni/2891773	Suaeda australis	(R.Br.) Moq.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Austral Seablite	5
https://id.biodiversity.org.au/node/apni/2892410	Crassula natans	Thunb.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Swamp Stonecrop	5
https://id.biodiversity.org.au/node/apni/2894412	Hydrocotyle striata	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae		5
https://id.biodiversity.org.au/node/apni/2894492	Pithocarpa corymbulosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Corymbose Pithocarpa	5
https://id.biodiversity.org.au/node/apni/2895283	Lepidosperma scabrum	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Scabrid Sword-sedge	5
https://id.biodiversity.org.au/node/apni/2895786	Pilostyles hamiltoniorum	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Malvales	Apodanthaceae		5
https://id.biodiversity.org.au/node/apni/2895938	Xanthosia ciliata	Hook.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2896895	Thunbergia alata	Bojer ex Sims	species	Plantae	Charophyta	Equisetopsida	Lamiales	Acanthaceae	Black-eyed Susan	5
https://id.biodiversity.org.au/node/apni/2896952	Templetonia retusa	(Vent.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cockies Tongue	5
https://id.biodiversity.org.au/node/apni/2897804	Xanthorrhoea brunonis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae		5
https://id.biodiversity.org.au/node/apni/2898538	Myoporum caprarioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Slender Myoporum	5
https://id.biodiversity.org.au/node/apni/2899003	Meionectes brownii	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Swamp Raspwort	5
https://id.biodiversity.org.au/node/apni/2899271	Diplolaena drummondii	(Benth.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Lesser Diplolaena	5
https://id.biodiversity.org.au/node/apni/2899876	Eucalyptus caesia	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Silver Princess	5
https://id.biodiversity.org.au/node/apni/2900052	Schoenus clandestinus	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2900260	Andersonia caerulea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Foxtails	5
https://id.biodiversity.org.au/node/apni/2900655	Stachys arvensis	(L.) L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Stagger Weed	5
https://id.biodiversity.org.au/node/apni/2901201	Tecticornia lepidosperma	(Paul G.Wilson) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Wa Samphire	5
https://id.biodiversity.org.au/node/apni/2901786	Gastrolobium calycinum	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	York Road Poison	5
https://id.biodiversity.org.au/node/apni/2903182	Daviesia pedunculata	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		5
https://id.biodiversity.org.au/node/apni/2903963	Schoenolaena juncea	Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2904415	Acacia microbotrya	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Manna Wattle	5
https://id.biodiversity.org.au/node/apni/2904884	Grammatotheca bergiana	(Cham.) C.Presl	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae		5
https://id.biodiversity.org.au/node/apni/2906267	Millotia myosotidifolia	(Benth.) Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Broad-leaf Millotia	5
https://id.biodiversity.org.au/node/apni/2906728	Austrostipa bronweniae	A.R.Williams	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		5
https://id.biodiversity.org.au/node/apni/2906811	Atriplex hymenotheca	Moq.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae		5
https://id.biodiversity.org.au/node/apni/2907093	Ranunculus muricatus	L.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Pricklefruit Buttercup	5
https://id.biodiversity.org.au/node/apni/2907978	Hibbertia cunninghamii	Aiton ex Hook.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		5
https://id.biodiversity.org.au/node/apni/2908061	Opercularia apiciflora	Labill. ex Juss.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae		5

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https://id.biodiversity.org.au/node/apni/2908502	Amphipogon amphipogonoides	(Steud.) Vickery	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		5
https://id.biodiversity.org.au/node/apni/2908591	Sphaerolobium vimineum	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Leafless Globe-pea	5
https://id.biodiversity.org.au/node/apni/2908720	Marianthus erubescens	Putt.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Red Billardiera	5
https://id.biodiversity.org.au/node/apni/2909143	Dimorphotheca ecklonis	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cape Daisy	5
https://id.biodiversity.org.au/node/apni/2909503	Tribulus terrestris	L.	species	Plantae	Charophyta	Equisetopsida	Zygophyllales	Zygophyllaceae	Goathead Burr	5
https://id.biodiversity.org.au/node/apni/2909517	Ixia maculata	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Yellow Ixia	5
https://id.biodiversity.org.au/node/apni/2909603	Stuckenia pectinata	(L.) Borner	species	Plantae	Charophyta	Equisetopsida	Alismatales	Potamogetonaceae	Fennel Pondweed	5
https://id.biodiversity.org.au/node/apni/2909747	Ficinia nodosa	(Rottb.) Goetgh., Muasya & D.A.Simpson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Knobby Club-rush	5
https://id.biodiversity.org.au/node/apni/2910059	Fumaria muralis	Sond. ex W.D.J.Koch	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Papaveraceae	Fumitory	5
https://id.biodiversity.org.au/node/apni/2910094	Xanthosia atkinsoniana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2910171	Cyathochaeta clandestina	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2910721	Dischisma capitatum	Choisy	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Woolly-head Dichisma	5
https://id.biodiversity.org.au/node/apni/2910785	Haemodorum simulans	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		5
https://id.biodiversity.org.au/node/apni/2910937	Ornduffia albiflora	(F.Muell.) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		5
https://id.biodiversity.org.au/node/apni/2911396	Lomandra brittanii	T.S.Choo	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		5
https://id.biodiversity.org.au/node/apni/2912523	Lepyrodia muirii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		5
https://id.biodiversity.org.au/node/apni/2912661	Xylomelum angustifolium	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Sandplain Woody Pear	5
https://id.biodiversity.org.au/node/apni/2913105	Wurmbea tenella	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Eight Nancy	5
https://id.biodiversity.org.au/node/apni/2913574	Crepis foetida	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Foetid Hawk's-beard	5
https://id.biodiversity.org.au/node/apni/2913998	Gnephosis tenuissima	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Dwarf Golden-tip	5
https://id.biodiversity.org.au/node/apni/2914200	Leucopogon tenuis	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		5
https://id.biodiversity.org.au/node/apni/2914405	Trithuria bibracteata	Stapf ex D.A.Cooke	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae		5
https://id.biodiversity.org.au/node/apni/2914483	Acacia anomala	C.A.Gardner ex Court	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grass Wattle	5
https://id.biodiversity.org.au/node/apni/2916225	Cephalipterum drummondii	A.Gray	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pompom Head	5
https://id.biodiversity.org.au/node/apni/2916854	Conospermum incurvum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Plume Smokebush	5
https://id.biodiversity.org.au/node/apni/2916912	Scaevola nitida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Shining Fanflower	5
https://id.biodiversity.org.au/node/apni/2917914	Dodonaea ericoides	Miq.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		5
https://id.biodiversity.org.au/node/apni/2917991	Chasmanthe floribunda	(Salisb.) N.E.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	African Cornflag	5
https://id.biodiversity.org.au/node/apni/2919175	Lolium rigidum	Gaudin	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wimmera Ryegrass	5
https://id.biodiversity.org.au/node/apni/2919233	Pimelea preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		5
https://id.biodiversity.org.au/node/apni/2919467	Philydrella drummondii	L.G.Adams	species	Plantae	Charophyta	Equisetopsida	Commelinales	Philydraceae	Greater Butterfly Flowers	5
https://id.biodiversity.org.au/node/apni/2919554	Triglochin mucronata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Prickly Arrowgrass	5
https://id.biodiversity.org.au/node/apni/2920108	Vachellia karroo	(Hayne) Banfi & Galasso	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Karroo Thorn	5
https://id.biodiversity.org.au/node/apni/2920874	Poranthera huegelii	Klotzsch	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Heath Poranthera	5
https://id.biodiversity.org.au/node/apni/7455751	Pauridia glabella	(R.Br.) Snijman & Kocyan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hypoxidaceae		5
https://id.biodiversity.org.au/node/apni/7776299	Sorghum halepense	(L.) Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Johnson Grass	5
https://id.biodiversity.org.au/node/apni/8505665	Daviesia incrassata	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		5
https://id.biodiversity.org.au/node/apni/8655662	Rhodanthe manglesii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		5
https://id.biodiversity.org.au/node/ausmoss/10083595	Fissidens taylorii	MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Pygmy Pocket-moss	5
https://id.biodiversity.org.au/node/fungi/60091637	Coprinus comatus	(O.F.MÃ¼ll.) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Shaggy Mane	5
https://id.biodiversity.org.au/node/fungi/60102877	Batrachochytrium dendrobatidis	Longcore, Pessier & D.K.Nichols	species	Fungi	Chytridiomycota	Chytridiomycetes	Rhizophydiales		Chytrid Fungus	5
https://id.biodiversity.org.au/node/fungi/60103887	Diachea leucopodia	(Bull.) Rostaf.	species	Protista	Amoebozoa	Myxogastrea	Stemonitida	Stemonitidaceae		5
https://id.biodiversity.org.au/taxon/apni/51249803	Pteridium esculentum	(G.Forst.) Cockayne	species	Plantae	Charophyta	Equisetopsida	Polypodiales	Dennstaedtiaceae	Austral Bracken	5
https://id.biodiversity.org.au/taxon/apni/51268439	Eclipta prostrata	(L.) L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	White Eclipta	5
https://id.biodiversity.org.au/taxon/apni/51270276	Polycarpon tetraphyllum	(L.) L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Four-leaf Allseed	5
https://id.biodiversity.org.au/taxon/apni/51283626	Drosera neesii	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Jewel Rainbow	5
https://id.biodiversity.org.au/taxon/apni/51283630	Drosera occidentalis	Morrison	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Western Sundew	5
https://id.biodiversity.org.au/taxon/apni/51289308	Calothamnus torulosus	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		5
https://id.biodiversity.org.au/taxon/apni/51290266	Regelia ciliata	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		5
https://id.biodiversity.org.au/taxon/apni/51291059	Bellardia viscosa	(L.) Fisch. & C.A.Mey.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Yellow Bartsia	5
https://id.biodiversity.org.au/taxon/apni/51293786	Leptocarpus roycei	B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		5
https://id.biodiversity.org.au/taxon/apni/51299910	Brachypodium distachyon	(L.) P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	False Brome	5
https://id.biodiversity.org.au/taxon/apni/51300244	Juncus caespiticius	E.Mey.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Grassy Rush	5
https://id.biodiversity.org.au/taxon/apni/51398787	Caladenia arenicola	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Carousel Spider Orchid	5
https://id.biodiversity.org.au/taxon/apni/51404335	Diuris setacea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bristly Donkey Orchid	5
https://id.biodiversity.org.au/taxon/apni/51409835	Prasophyllum ovale	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Leek Orchid	5
https://id.biodiversity.org.au/taxon/apni/51414424	Thelymitra stellata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Star Sunorchid	5

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51433771	Burchardia bairdiae	Keighery	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae		5
https://id.biodiversity.org.au/taxon/apni/51434704	Machaerina vaginalis	(Benth.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/taxon/apni/51439052	Hibiscus diversifolius	Jacq.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Swamp Hibiscus	5
https://id.biodiversity.org.au/taxon/apni/51441918	Pterostylis orbiculata	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Coastal Banded Greenhood	5
https://id.biodiversity.org.au/taxon/apni/51445859	Cheilanthes distans	(R.Br.) Mett.	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Bristly Cloak-fern	5
https://id.biodiversity.org.au/taxon/apni/51446276	Acaena echinata	Nees	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Sheep's Burr	5
https://id.biodiversity.org.au/taxon/ausmoss/10144080	Ceratodon purpureus	(Hedw.) Brid.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Redshank Moss	5
https://id.biodiversity.org.au/taxon/ausmoss/10152539	Campylopus bicolor	(MÃ¼ll.Hal.) Wilson	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Swan-neck Moss	5
https://id.biodiversity.org.au/taxon/fungi/60115577	Morchella rufobrunnea	GuzmÃįn & F.Tapia	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Morchellaceae		5
ALA_DR22913_251	Gryllodes sigillatus		species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllidae	Indian House Cricket	4
NZOR-6-124554	Pseudocyphellaria neglecta	(MÃ¼ll.Arg.) H.Magn.	species	Fungi	Ascomycota	Lecanoromycetes	Peltigerales	Lobariaceae		4
NZOR-6-99607	Flavoparmelia rutidota	(Hook.f. & Taylor) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae	Common Biscuit Lichen	4
https://biodiversity.org.au/afd/taxa/01570ffa-e917-489c-82ae-9d25d307dd35	Myrmecia picta	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bull Ant	4
https://biodiversity.org.au/afd/taxa/0a1ad736-943a-49f8-afc8-c14624e58731	Donuca spectabilis	Walker, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	White-spotted Owl Moth	4
https://biodiversity.org.au/afd/taxa/0acf0128-8670-42e2-ac5c-d9efbb3c864f	Plesiolaea maritima	(Lower, 1897)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		4
https://biodiversity.org.au/afd/taxa/0c810db5-846a-41a5-a620-cf84f3e68529	Eurymelita terminalis	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	4
https://biodiversity.org.au/afd/taxa/0ebe0386-6f5c-4310-b96f-156edd5e4d68	Coleocoptus senio	(Newman, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		4
https://biodiversity.org.au/afd/taxa/0fa7937f-8452-4c0d-bb08-b9308f97680b	Ocirrhoe unimaculata	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	4
https://biodiversity.org.au/afd/taxa/111e0393-12a6-4948-8929-bbc7e15ecbcd	Maratus chrysomelas	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Variable Peacock Spider	4
https://biodiversity.org.au/afd/taxa/146f01aa-333f-4744-a8a2-f90a8e9c6050	Hellula hydralis	GuenÃ©e, 1854	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	4
https://biodiversity.org.au/afd/taxa/183f936d-aaf1-4846-8538-ae785e70edce	Stenocotis depressa	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Black Flat-head Leafhopper	4
https://biodiversity.org.au/afd/taxa/1bf24d7e-3b21-4aba-9ea1-df66908afcf4	Carassius auratus	(Linnaeus, 1758)	species	Animalia	Chordata	Actinopterygii	Cypriniformes	Cyprinidae	Goldfish	4
https://biodiversity.org.au/afd/taxa/1d3e7e69-3f81-49ac-9753-955c078efa76	Gehyra punctata	(Fry, 1914)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Spotted Dtella	4
https://biodiversity.org.au/afd/taxa/20e14885-ca48-4d37-9535-35bf3b315500	Polyzosteria fulgens	Mackerras, 1965	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		4
https://biodiversity.org.au/afd/taxa/21607ba9-1045-4c34-ba1d-b78ba19dc64e	Plectostenus gracilicornis	Lea, 1910	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		4
https://biodiversity.org.au/afd/taxa/22172391-4315-46fa-8a31-ca8d8ec1af40	Cormocephalus rubriceps	(Newport, 1843)	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		4
https://biodiversity.org.au/afd/taxa/22573748-d817-4c7c-b93c-ed5655e6958f	Coleotichus costatus	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Hemiptera	Scutelleridae	Shield Bug	4
https://biodiversity.org.au/afd/taxa/24d6a8c0-f177-4af4-bbe5-e550cfadc8fa	Triclista singularis	(Macquart, 1846)	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		4
https://biodiversity.org.au/afd/taxa/26c234cf-9d6c-4be6-8ef3-8f5b055addb2	Hemisaga denticulata	(White, 1841)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		4
https://biodiversity.org.au/afd/taxa/2b80bafc-727d-4091-8792-718349a9c9e9	Cyrtophora parnasia	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		4
https://biodiversity.org.au/afd/taxa/2f467813-b673-40ad-bbb9-1d5f55de837c	Cryptachaea veruculata	(Urquhart, 1886)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	4
https://biodiversity.org.au/afd/taxa/31b7f51d-fcdb-4e53-a761-2d385fe0a18d	Bostrychopsis jesuita	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bostrichidae	Large Auger Beetle	4
https://biodiversity.org.au/afd/taxa/32564987-a33c-47fc-8e4d-97432f50f77a	Cubicorhynchus dohrnii	(Waterhouse, 1854)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		4
https://biodiversity.org.au/afd/taxa/342960c5-65b1-4763-94e6-70c34d2be7ed	Tiracerus subcylindricornis	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		4
https://biodiversity.org.au/afd/taxa/3b05d614-aca5-4d6e-b4b9-8bd7ac7f7ee6	Calidris (Crocethia) alba	(Pallas, 1764)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Sanderling	4
https://biodiversity.org.au/afd/taxa/3db44d56-129a-48f4-a792-a37dfd8da6e5	Tranes vigorsii	Boheman, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		4
https://biodiversity.org.au/afd/taxa/443310b4-9a91-4780-940c-57f4d6ffe370	Talaurinus roei	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		4
https://biodiversity.org.au/afd/taxa/44f66303-f4ba-48de-b180-9c2b65ca8018	Lioponera nigriventris	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		4
https://biodiversity.org.au/afd/taxa/4987409b-ea0a-4150-b9ae-93f3ebe971b7	Campion australasiae	(GuÃ©rin-MÃ©neville, 1844)	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		4
https://biodiversity.org.au/afd/taxa/49e68d00-63c0-4482-8378-d67daa2fe05a	Harpobittacus similis	Esben-Petersen, 1935	species	Animalia	Arthropoda	Insecta	Mecoptera	Bittacidae		4
https://biodiversity.org.au/afd/taxa/4e0362a8-d3d2-4c4b-b663-38de6d734dbd	Taylorilygus apicalis	(Fieber, 1861)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Brokenbacked Bug	4
https://biodiversity.org.au/afd/taxa/5076c757-134a-477f-b7fe-cf4cd6f39527	Agrotis infusa	(Boisduval, 1832)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Bogong Moth	4
https://biodiversity.org.au/afd/taxa/573a0067-0dd1-48f8-b48b-26f67e2ab976	Australomisidia cruentata	(L. Koch, 1874)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	4
https://biodiversity.org.au/afd/taxa/5816c5ce-a661-48a3-ae72-377337f34752	Distoplectron gerstaeckeri	(Esben-Petersen, 1918)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		4
https://biodiversity.org.au/afd/taxa/58986fee-b686-47c7-9bf9-a9a5e37df1d5	Paropsisterna crocata	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		4
https://biodiversity.org.au/afd/taxa/5b9af1d5-307d-4835-8a12-0ee1d9e24df6	Uroctena affinis	Nicholls, 1926	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Paramelitidae	Amphipod	4
https://biodiversity.org.au/afd/taxa/5c372eff-84ce-4e35-95f1-b2276e6530fc	Tramea stenoloba	(Watson, 1962)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Narrow-lobed Glider	4
https://biodiversity.org.au/afd/taxa/5e43e5d8-2b6f-4d8e-bd66-09340850f327	Acmonotus incusifer	McLachlan, 1871	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae		4
https://biodiversity.org.au/afd/taxa/5ebff4cf-11b2-444a-b60c-6ff6a17ba18d	Aphis (Aphis) nerii	Boyer de Fonscolombe, 1841	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphididae	Oleander Aphid	4
https://biodiversity.org.au/afd/taxa/5ff29bca-f02f-468f-9f96-9ae956015e01	Numenius (Numenius) madagascariensis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Eastern Curlew	4
https://biodiversity.org.au/afd/taxa/615d55e1-fdb9-4d6e-962b-4f4caa203622	Trachylestes turneri	(Miller, 1958)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	4
https://biodiversity.org.au/afd/taxa/61f6bef9-58d4-4fee-9295-212f4e224c97	Quedius diversipennis	Fauvel, 1878	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		4
https://biodiversity.org.au/afd/taxa/6653e981-88aa-45d8-8db6-55d61ff33b0d	Trachycosmus sculptilis	Simon, 1893	species	Animalia	Arthropoda	Arachnida	Araneae	Trochanteriidae	Spider	4
https://biodiversity.org.au/afd/taxa/6792227d-4b9a-4287-8089-376ff354de96	Smicrophylax australis	(Ulmer, 1908)	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Caddisfly	4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/67ae9c55-f9e2-4c3e-971e-ceaab5c01e98	Uloborus barbipes	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Uloboridae		4
https://biodiversity.org.au/afd/taxa/6e380202-046a-42a1-bc63-db5ee340fa39	Branta canadensis	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Canada Goose	4
https://biodiversity.org.au/afd/taxa/6e4ae4ec-b6ca-459f-9e81-c286fc715ce1	Todiramphus (Cyanalcyon) pyrrhopygius	(Gould, 1840)	species	Animalia	Chordata	Aves	Coraciiformes	Alcedinidae	Red-backed Kingfisher	4
https://biodiversity.org.au/afd/taxa/758122b8-e4df-4e44-abd2-ebaf7998851c	Entometa guttularis	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lasiocampidae	Boxtree Moth	4
https://biodiversity.org.au/afd/taxa/7729490c-b662-4bc5-add8-cf6ce6d99ca9	Diphucrania leucosticta	(Kirby, 1818)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		4
https://biodiversity.org.au/afd/taxa/810e0f87-63ad-4f0a-81ea-80508ee82da8	Hyalarcta nigrescens	(Doubleday, 1845)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Psychidae	Ribbed Bagworm Moth	4
https://biodiversity.org.au/afd/taxa/82875ca4-24ba-4672-81fe-60baf09a331b	Westralunio carteri	Iredale, 1934	species	Animalia	Mollusca	Bivalvia	Unionida	Hyriidae	Ambiguus Mussel	4
https://biodiversity.org.au/afd/taxa/82a5f234-3a9d-40f7-ab5d-bf823942ad96	Cossodes lyonetii	White, 1841	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cossidae		4
https://biodiversity.org.au/afd/taxa/83bf9ae3-eaab-48dd-aaf4-af410f9b073d	Tatea huonensis	(Tenison-Woods, 1876)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Tateidae		4
https://biodiversity.org.au/afd/taxa/844259fc-4f98-44d4-bd44-b25024d7543a	Pletholax gracilis	Cope, 1864	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Keeled Legless Lizard	4
https://biodiversity.org.au/afd/taxa/88ab4486-1ae6-4179-b62e-163fc33fd95f	Falcunculus frontatus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Falcunculidae	Crested Shrike-tit	4
https://biodiversity.org.au/afd/taxa/88dc84d9-a155-41c7-9bcc-e683b8ef4589	Stanwatkinsius subcarinifrons	(Thomson, 1879)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		4
https://biodiversity.org.au/afd/taxa/89ed70a3-7cb2-47cb-bedd-d39808f27559	Melanacanthus margineguttatus	Distant, 1911	species	Animalia	Arthropoda	Insecta	Hemiptera	Alydidae		4
https://biodiversity.org.au/afd/taxa/9117b44e-259a-462c-a238-fd59e180dad7	Plesiochrysa ramburi	(Schneider, 1851)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		4
https://biodiversity.org.au/afd/taxa/913336ed-f521-44cc-98e3-7f8dcfa69f57	Lasioglossum (Chilalictus) vitripenne	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	4
https://biodiversity.org.au/afd/taxa/92f392a9-7d6d-4115-861c-0f5f0a772dcf	Hoggicosa storri	(McKay, 1973)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		4
https://biodiversity.org.au/afd/taxa/958714ac-bc5d-4a8b-96d3-58d295df91c6	Arotrophora arcuatalis	(Walker, 1866)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Moth	4
https://biodiversity.org.au/afd/taxa/967145f0-a34d-4d2c-bef1-d6aac08e83ee	Megachile atrella	Cockerell, 1906	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	4
https://biodiversity.org.au/afd/taxa/97e7e30d-a7c4-40a7-b7d5-a2511ef7d091	Poecilasthena pulchraria	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	4
https://biodiversity.org.au/afd/taxa/9851cdd7-0e2e-400a-92cc-fa35698e3575	Hesperilla dirphia	Hewitson, 1868	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Western Brown Skipper	4
https://biodiversity.org.au/afd/taxa/9c64e037-478d-45c9-8222-f72a2a3a41fa	Cricotopus (Cricotopus) albitarsis	Drayson, Cranston & Krosch, 2015	species	Animalia	Arthropoda	Insecta	Diptera	Chironomidae		4
https://biodiversity.org.au/afd/taxa/9d91bf6c-a3be-4865-9bd0-d8727a1b6ad4	Pasiphilodes testulata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	4
https://biodiversity.org.au/afd/taxa/9e1860a5-8499-4ca9-9231-b1dfc3f3c249	Pardillana limbata	(StÃ¥l, 1878)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		4
https://biodiversity.org.au/afd/taxa/a11d18da-7b14-4a92-8081-2784c828aa68	Hololepta (Hololepta) australica	Marseul, 1853	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		4
https://biodiversity.org.au/afd/taxa/a1f0c554-0f01-45ec-8f24-3f611567f4b1	Telecrates laetiorella	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	4
https://biodiversity.org.au/afd/taxa/a51a34fa-2536-4a9d-ba11-603a9656bb75	Crematogaster laeviceps	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Cocktail Ant	4
https://biodiversity.org.au/afd/taxa/a8b54d4a-70b9-458a-80f4-79109fc46226	Garrha idiosema	(Turner, 1917)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	4
https://biodiversity.org.au/afd/taxa/ac0e451c-3718-4ba0-a87b-afdde2fc2f8f	Doleromyrma darwiniana	(Forel, 1907)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Brown House Ant	4
https://biodiversity.org.au/afd/taxa/b08d6ba1-a92e-4f16-aaab-c76e926d5219	Eublemma cochylioides	(GuenÃ©e, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Eublemma Moth	4
https://biodiversity.org.au/afd/taxa/b32a2ec6-315c-48cf-84b3-4898e39f4b57	Sugomel niger	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Black Honeyeater	4
https://biodiversity.org.au/afd/taxa/b518a4b3-4f64-499b-8747-5642bab6bd79	Symonicoccus chorizandrae	Koteja & Brookes, 1981	species	Animalia	Arthropoda	Insecta	Hemiptera	Coccidae		4
https://biodiversity.org.au/afd/taxa/b595892a-6bb6-4886-91be-f0b8ae503a4e	Bruchophagus fellis	(Girault, 1928)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Eurytomidae		4
https://biodiversity.org.au/afd/taxa/b795f19e-ff71-417d-8741-1d0c157df381	Pachyprosopis (Pachyprosopula) purnongensis	(Rayment, 1928)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		4
https://biodiversity.org.au/afd/taxa/b7d21fef-2f99-4724-a8ec-2376eae1c0cc	Bibio imitator	Walker, 1835	species	Animalia	Arthropoda	Insecta	Diptera	Bibionidae	Garden Maggot	4
https://biodiversity.org.au/afd/taxa/b98ba854-85a8-4f6d-b709-b9a9e5ed887d	Monomorium sordidum	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	4
https://biodiversity.org.au/afd/taxa/b9cc8d40-274f-482a-be2a-e50074a8642e	Epithrix australis	Bryant, 1953	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		4
https://biodiversity.org.au/afd/taxa/b9d06f62-63da-4649-80ba-33986ea058e1	Notamacropus eugenii	(Desmarest, 1817)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Tammar Wallaby	4
https://biodiversity.org.au/afd/taxa/ba92e10f-6023-47bd-bd6d-fafaf8922700	Rhytidoponera rufonigra	Clark, 1936	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		4
https://biodiversity.org.au/afd/taxa/bd332ca4-dab5-4fda-8d68-04b678ffcdb4	Ninox (Hieracoglaux) connivens	(Latham, 1801)	species	Animalia	Chordata	Aves	Strigiformes	Strigidae	Barking Owl	4
https://biodiversity.org.au/afd/taxa/c115b3ea-ecdb-40fb-86db-05176d709d4b	Parapharyngodon anomalus	Hobbs, 1996	species	Animalia	Nematoda	Chromadorea	Spirurida	Pharyngodonidae		4
https://biodiversity.org.au/afd/taxa/c53ceb06-6818-409e-84d3-4505f5abc003	Demansia reticulata	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Yellow-faced Whipsnake	4
https://biodiversity.org.au/afd/taxa/c6c2ad9d-4f52-451b-b123-6680187d8794	Pseudanapaea denotata	(Walker, 1865)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Limacodidae		4
https://biodiversity.org.au/afd/taxa/c79eed6c-2a4d-49fe-bf1b-58244f7d9d60	Chlaenius (Pelasmomimus) greyanus	White, 1841	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		4
https://biodiversity.org.au/afd/taxa/c9c959b4-b873-4b03-9fab-ef5f6bb1e224	Ischnochiton (Ischnochiton) contractus	(Reeve, 1847)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		4
https://biodiversity.org.au/afd/taxa/d0c0d859-e9e5-4131-a19b-9929f18c3688	Hogna crispipes	(L. Koch, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	4
https://biodiversity.org.au/afd/taxa/d27e6ae5-3c52-4e93-be9a-a2f638754917	Callohesma aureopicta	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		4
https://biodiversity.org.au/afd/taxa/d2f7fdb2-9d78-4cc1-a8bc-95d1e8b28504	Idaea inversata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	4
https://biodiversity.org.au/afd/taxa/d586fcd4-e1ef-47c9-85c1-3b59fac23686	Neohavinthus pentatoma	(Herrich-Schaeffer, 1853)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/d5bec3d6-3c2c-4335-94aa-2d9679032ed4	Numida meleagris	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Galliformes	Numididae	Helmeted Guineafowl	4
https://biodiversity.org.au/afd/taxa/d687fa91-59fa-46cb-b205-a62e4066b80c	Clitemnestra guttatula	(Turner, 1936)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		4
https://biodiversity.org.au/afd/taxa/d76a6b06-4639-4ca4-badc-bad4c14efcdc	Fluviolanatus subtortus	(Dunker, 1857)	species	Animalia	Mollusca	Bivalvia	Cardiida	Trapezidae	Clam	4
https://biodiversity.org.au/afd/taxa/d787efdd-7ad5-4304-a53d-a083ed6dfee2	Coptocercus rubripes	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		4
https://biodiversity.org.au/afd/taxa/d8013c80-f75c-4e4e-951b-690e7298bb28	Gonocephalum elderi	(Blackburn, 1892)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae	Vegetable Beetle	4
https://biodiversity.org.au/afd/taxa/d9a08fe7-10ac-41b0-8093-fd1ac19a682b	Acanthophis antarcticus	(Shaw & Nodder, 1802)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Common Death Adder	4
https://biodiversity.org.au/afd/taxa/d9f671eb-44c0-4d35-9090-273a56acb4d5	Helochares tristis	(W.J. Macleay, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	4
https://biodiversity.org.au/afd/taxa/dc2918a1-3d48-4628-b156-cf38c14c6c97	Faveria tritalis	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Couchgrass Webworm Moth	4
https://biodiversity.org.au/afd/taxa/dcdd893a-d906-471b-9ec9-31659c15ead1	Anthrenus (Nathrenus) verbasci	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae	Varied Carpet Beetle	4
https://biodiversity.org.au/afd/taxa/dd552b84-a313-4879-ada9-80d55b57d407	Cryptolaemus montrouzieri	Mulsant, 1853	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		4
https://biodiversity.org.au/afd/taxa/df461ff0-0913-4824-8db8-07421c1eb02a	Austroagrion cyane	(Selys, 1876)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	South-western Billabongfly	4
https://biodiversity.org.au/afd/taxa/e05c41be-d2ac-46d1-8efd-c858133211c0	Megachile (Austrochile) remotula	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		4
https://biodiversity.org.au/afd/taxa/e130fae3-af3b-4cca-968c-a40e04243152	Antigastra catalaunalis	(Duponchel, 1831)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		4
https://biodiversity.org.au/afd/taxa/e2e7f865-9843-46dc-bbb9-8161d26c8c21	Pediana occidentalis	Hogg, 1903	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		4
https://biodiversity.org.au/afd/taxa/ee06a32c-c7f3-423c-bc29-6962cd9bfa6b	Coelioxys froggatti	Cockerell, 1911	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	4
https://biodiversity.org.au/afd/taxa/f1c0ca04-8d30-40f4-ab25-103c74f430d2	Tyto novaehollandiae	(Stephens, 1826)	species	Animalia	Chordata	Aves	Strigiformes	Tytonidae	Masked Owl	4
https://biodiversity.org.au/afd/taxa/f39bc28e-8c11-40bc-9029-3c4da640c925	Nannophya dalei	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Eastern Pygmyfly	4
https://biodiversity.org.au/afd/taxa/f6d35146-7837-44f4-91a0-172b5807dcbb	Lichenaula onychodes	Turner, 1898	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	4
https://biodiversity.org.au/afd/taxa/f8527af2-27e2-4c87-bc4d-48c5c9095d3a	Megachile semiluctuosa	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	4
https://biodiversity.org.au/afd/taxa/f941d4ec-007c-4c73-8952-994801e178e2	Hippotion scrofa	(Boisduval, 1832)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Scrofa Hawk Moth	4
https://biodiversity.org.au/afd/taxa/fa60490f-3102-4caa-afda-a148fd902c3d	Caenoplana coerulea	Moseley, 1877	species	Animalia	Platyhelminthes	Rhabditophora	Tricladida	Geoplanidae		4
https://biodiversity.org.au/afd/taxa/fcfe302b-2089-4057-9b01-12a05c60c78a	Pseudonaja nuchalis	GÃ¼nther, 1858	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Northern Brown Snake	4
https://biodiversity.org.au/afd/taxa/fdbd03de-719e-42d9-ba5c-7afb7aeb97fb	Choreutis ophiosema	(Lower, 1896)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Choreutidae		4
https://biodiversity.org.au/afd/taxa/fe577a22-f8c6-4f30-84af-bcd35da0a2ca	Aedes (Dobrotworskyius) alboannulatus	(Macquart, 1850)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Mosquito	4
https://id.biodiversity.org.au/name/apni/51370379	Rumicastrum uncinellum	(Obbens) Hershk.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae		4
https://id.biodiversity.org.au/node/apni/2886364	Cenchrus longisetus	M.C.Johnst.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Feathertop	4
https://id.biodiversity.org.au/node/apni/2886595	Bolboschoenus fluviatilis	(Torr.) SojÃ¡k	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tall Club-sedge	4
https://id.biodiversity.org.au/node/apni/2886663	Tetratheca setigera	Endl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		4
https://id.biodiversity.org.au/node/apni/2887514	Melaleuca quinquenervia	(Cav.) S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Paperbark	4
https://id.biodiversity.org.au/node/apni/2887728	Logfia gallica	(L.) Coss. & Germ.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Narrow Cudweed	4
https://id.biodiversity.org.au/node/apni/2888386	Schoenus rigens	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2888694	Trifolium incarnatum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Crimson Clover	4
https://id.biodiversity.org.au/node/apni/2888695	Hemiandra glabra	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		4
https://id.biodiversity.org.au/node/apni/2888954	Drosera platystigma	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Black-eyed Sundew	4
https://id.biodiversity.org.au/node/apni/2889532	Anthotium junciforme	(de Vriese) D.A.Morrison	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Rush-like Anthotium	4
https://id.biodiversity.org.au/node/apni/2889582	Daviesia debilior	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2889922	Eragrostis curvula	(Schrad.) Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	African Love-grass	4
https://id.biodiversity.org.au/node/apni/2890286	Schoenus subfascicularis	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2890909	Oenothera laciniata	Hill	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Cut-leaf Evening-primrose	4
https://id.biodiversity.org.au/node/apni/2891017	Bossiaea spinescens	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2891029	Xerochrysum bracteatum	(Vent.) Tzvelev	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Golden Everlasting	4
https://id.biodiversity.org.au/node/apni/2891158	Brassica x napus	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Rape	4
https://id.biodiversity.org.au/node/apni/2891273	Euphorbia maculata	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Eyebane	4
https://id.biodiversity.org.au/node/apni/2891391	Olax scalariformis	A.S.George	species	Plantae	Charophyta	Equisetopsida	Santalales	Olacaceae		4
https://id.biodiversity.org.au/node/apni/2891639	Agave americana	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Century Plant	4
https://id.biodiversity.org.au/node/apni/2892873	Schoenus natans	(F.Muell.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Floating Bog-rush	4
https://id.biodiversity.org.au/node/apni/2892966	Siloxerus filifolius	(Benth.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2893227	Lotus uliginosus	Schkuhr	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Greater Bird's-foot Trefoil	4
https://id.biodiversity.org.au/node/apni/2893373	Lotus subbiflorus	Lag.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hairy Bird's-foot Trefoil	4
https://id.biodiversity.org.au/node/apni/2893990	Cheiranthera preissiana	Putt.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		4
https://id.biodiversity.org.au/node/apni/2894273	Romulea flava	(Lam.) M.P.de Vos	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		4
https://id.biodiversity.org.au/node/apni/2894809	Lomandra integra	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2895392	Polygala myrtifolia	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Myrtle-leaf Milkwort	4
https://id.biodiversity.org.au/node/apni/2896265	Schoenus laevigatus	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Short-leaf Bog-sedge	4
https://id.biodiversity.org.au/node/apni/2896412	Schoenus latitans	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2896767	Calytrix depressa	(Turcz.) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		4
https://id.biodiversity.org.au/node/apni/2896953	Stenopetalum filifolium	Benth.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae		4
https://id.biodiversity.org.au/node/apni/2896978	Cymbopogon obtectus	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Silky-heads	4
https://id.biodiversity.org.au/node/apni/2897276	Physalis peruviana	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Cape Gooseberry	4
https://id.biodiversity.org.au/node/apni/2899267	Schoenus subbarbatus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Bearded Bog-rush	4
https://id.biodiversity.org.au/node/apni/2900668	Isopogon divergens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spreading Coneflower	4
https://id.biodiversity.org.au/node/apni/2901115	Poa annua	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Meadow-grass	4
https://id.biodiversity.org.au/node/apni/2901234	Billardiera floribunda	(Putt.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	White Flowered Billardiera	4
https://id.biodiversity.org.au/node/apni/2901671	Banksia praemorsa	Andrews	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Cut-leaf Banksia	4
https://id.biodiversity.org.au/node/apni/2902508	Daviesia decipiens	(E.Pritz.) Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2902832	Acacia celastrifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Glowing Wattle	4
https://id.biodiversity.org.au/node/apni/2902944	Dodonaea hackettiana	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae	Hackett's Hopbush	4
https://id.biodiversity.org.au/node/apni/2903078	Myriophyllum echinatum	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		4
https://id.biodiversity.org.au/node/apni/2903272	Drosera nitidula	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Shining Sundew	4
https://id.biodiversity.org.au/node/apni/2903995	Hyalosperma simplex	(Steetz) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2905033	Trifolium subterraneum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Subterranean Clover	4
https://id.biodiversity.org.au/node/apni/2905316	Chorizandra multiarticulata	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2907569	Gompholobium capitatum	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Yellow Pea	4
https://id.biodiversity.org.au/node/apni/2907999	Acacia horridula	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2908460	Juncus subsecundus	N.A.Wakef.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Finger Rush	4
https://id.biodiversity.org.au/node/apni/2908930	Hydrocotyle diantha	DC.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Kangaroo Island Pennywort	4
https://id.biodiversity.org.au/node/apni/2909130	Asteridea gracilis	A.Gray	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2909229	Macarthuria apetala	Harv.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Limeaceae		4
https://id.biodiversity.org.au/node/apni/2909307	Acacia truncata	(Burm.f.) Hoffmanns.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2909339	Athrotaxis cupressoides	D.Don	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Pencil Pine	4
https://id.biodiversity.org.au/node/apni/2909611	Isolepis multicaulis	Schltdl.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Grassy Club-rush	4
https://id.biodiversity.org.au/node/apni/2909879	Dampiera trigona	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Angled-stem Dampiera	4
https://id.biodiversity.org.au/node/apni/2910179	Kunzea baxteri	(Klotzsch) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Crimson Kunzea	4
https://id.biodiversity.org.au/node/apni/2910345	Trihaloragis hexandra	(F.Muell.) M.L.Moody & Les	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		4
https://id.biodiversity.org.au/node/apni/2910480	Myriophyllum crispatum	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Upright Milfoil	4
https://id.biodiversity.org.au/node/apni/2911372	Isolepis cyperoides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2911382	Grevillea speciosa	(Knight) McGill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Red Spider Flower	4
https://id.biodiversity.org.au/node/apni/2911613	Gahnia trifida	Labill.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Cutting Grass	4
https://id.biodiversity.org.au/node/apni/2911942	Stylidium rhynchocarpum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Black-beaked Triggerplant	4
https://id.biodiversity.org.au/node/apni/2912425	Amphipogon debilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		4
https://id.biodiversity.org.au/node/apni/2912435	Grevillea leucopteris	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Old Socks	4
https://id.biodiversity.org.au/node/apni/2913581	Lonicera japonica	Thunb.	species	Plantae	Charophyta	Equisetopsida	Dipsacales	Caprifoliaceae	Japanese Honeysuckle	4
https://id.biodiversity.org.au/node/apni/2914002	Hyparrhenia hirta	(L.) Stapf	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Tambookie Grass	4
https://id.biodiversity.org.au/node/apni/2915131	Gastrolobium spinosum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Prickly Poison	4
https://id.biodiversity.org.au/node/apni/2915404	Centratherum punctatum	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Brazilian Button Flower	4
https://id.biodiversity.org.au/node/apni/2915528	Cenchrus macrourus	(Trin.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	African Feather Grass	4
https://id.biodiversity.org.au/node/apni/2915549	Urospermum picroides	(L.) Scop. ex F.W.Schmidt	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	False Hawkbit	4
https://id.biodiversity.org.au/node/apni/2915808	Acacia sphacelata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2915809	Campsis x tagliabuana	(Vis.) Rehder	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Trumpet Creeper	4
https://id.biodiversity.org.au/node/apni/2916002	Oenothera jamesii	Torr. & A.Gray	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae		4
https://id.biodiversity.org.au/node/apni/2916418	Grevillea vestita	(Endl.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		4
https://id.biodiversity.org.au/node/apni/2917189	Myriocephalus appendiculatus	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2917192	Hakea ceratophylla	(Sm.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Horned Leaf Hakea	4
https://id.biodiversity.org.au/node/apni/2918187	Asteridea pulverulenta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Bristle Daisy	4
https://id.biodiversity.org.au/node/apni/2918237	Jacksonia condensata	Crisp & J.R.Wheeler	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2918415	Schoenus subbulbosus	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2918542	Euphorbia terracina	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	False Caper	4
https://id.biodiversity.org.au/node/apni/2918776	Watsonia marginata	(L.f.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Bordered Watsonia	4
https://id.biodiversity.org.au/node/apni/2918954	Acacia decurrens	Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Early Black-wattle	4
https://id.biodiversity.org.au/node/apni/2919170	Euphorbia peplus	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Cancer Weed	4
https://id.biodiversity.org.au/node/apni/2919217	Lachnagrostis filiformis	(G.Forst.) Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Common Blown-grass	4
https://id.biodiversity.org.au/node/apni/2919289	Dodonaea ceratocarpa	Endl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		4
https://id.biodiversity.org.au/node/apni/2920101	Chamaecytisus palmensis	(Christ) F.A.Bisby & K.W.Nicholls	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tree Lucerne	4
https://id.biodiversity.org.au/node/apni/2920220	Calandrinia liniflora	Fenzl	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Parakeelya	4
https://id.biodiversity.org.au/node/apni/2920458	Schoenus elegans	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2920854	Isolepis cernua	(Vahl) Roem. & Schult.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Nodding Club Rush	4
https://id.biodiversity.org.au/node/apni/3588334	Eleocharis keigheryi	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Keighery's Eleocharis	4
https://id.biodiversity.org.au/node/apni/6289292	Conostylis festucacea	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		4
https://id.biodiversity.org.au/node/apni/6986247	Erigeron bonariensis	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Flaxleaf Fleabane	4
https://id.biodiversity.org.au/node/apni/7814427	Grevillea curviloba	McGill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		4
https://id.biodiversity.org.au/node/apni/8453517	Utricularia tenella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Pink Bladderwort	4
https://id.biodiversity.org.au/node/ausmoss/10073014	Eccremidium arcuatum	(Hook.f. & Wilson) MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Earth Moss	4
https://id.biodiversity.org.au/node/ausmoss/10086019	Grimmia laevigata	(Brid.) Brid.	species	Plantae	Bryophyta	Bryopsida	Grimmiales	Grimmiaceae	Salt And Pepper	4
https://id.biodiversity.org.au/node/ausmoss/10086346	Grimmia pulvinata	(Hedw.) Sm.	species	Plantae	Bryophyta	Bryopsida	Grimmiales	Grimmiaceae		4
https://id.biodiversity.org.au/node/ausmoss/2912228	Fossombronia cerebriformis	G.A.M.Scott & D.C.Pike	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Brainwort	4
https://id.biodiversity.org.au/node/fungi/60091619	Chlorophyllum brunneum	(Farl. & Burt) Vellinga	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		4
https://id.biodiversity.org.au/node/fungi/60095421	Gymnopilus junonius	(Fr.) P.D.Orton	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		4
https://id.biodiversity.org.au/node/fungi/60099129	Pycnoporus coccineus	(Fr.) Bondartsev & Singer	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae		4
https://id.biodiversity.org.au/node/fungi/60103751	Fuligo septica	(L.) F.H.Wigg.	species	Protista	Amoebozoa	Myxogastrea	Physarida	Physaraceae		4
https://id.biodiversity.org.au/node/lichen/30088882	Xanthoparmelia antleriformis	(Elix) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		4
https://id.biodiversity.org.au/taxon/apni/51269064	Verbesina encelioides	(Cav.) Benth. & Hook.f. ex A.Gray	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Crownbeard	4
https://id.biodiversity.org.au/taxon/apni/51291262	Digitaria ciliaris	(Retz.) Koeler	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Summer Grass	4
https://id.biodiversity.org.au/taxon/apni/51291422	Phalaris angusta	Nees ex Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		4
https://id.biodiversity.org.au/taxon/apni/51294359	Stylidium araeophyllum	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Stilt Walker	4
https://id.biodiversity.org.au/taxon/apni/51294410	Stylidium striatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Fan-leaved Triggerplant	4
https://id.biodiversity.org.au/taxon/apni/51310608	Acacia paradoxa	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Kangaroo Thorn	4
https://id.biodiversity.org.au/taxon/apni/51399002	Caladenia ferruginea	Nicholls	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Rusty Spider Orchid	4
https://id.biodiversity.org.au/taxon/apni/51399379	Caladenia splendens	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Splendid Spider Orchid	4
https://id.biodiversity.org.au/taxon/apni/51409741	Prasophyllum cyphochilum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pouched Leek Orchid	4
https://id.biodiversity.org.au/taxon/apni/51412234	Pterostylis nana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dwarf Greenhood	4
https://id.biodiversity.org.au/taxon/apni/51414250	Thelymitra canaliculata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blue Sun Orchid	4
https://id.biodiversity.org.au/taxon/apni/51414364	Thelymitra nuda	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Plain Sun Orchid	4
https://id.biodiversity.org.au/taxon/apni/51429703	Tricoryne humilis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae		4
https://id.biodiversity.org.au/taxon/apni/51438096	Sparaxis pillansii	L.Bolus	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Harlequin Flower	4
https://id.biodiversity.org.au/taxon/apni/51441703	Eriochilus sp. Roleystone (G.Brockman 1140)		species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae		4
https://id.biodiversity.org.au/taxon/apni/51744770	Monoculus monstrosus	(Burm.f.) B.Nord.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Tripteris	4
NZOR-6-123377	Phacodinium metchnikoffi	(Certes, 1891)	species	Protista	Ciliophora	Spirotrichea	Phacodiniida	Phacodiniidae		3
NZOR-6-31101	Xanthoparmelia metaclystoides	(Kurok. & Filson) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		3
NZOR-6-40364	Cladia aggregata	(Sw.) Nyl.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae	Common Coral-lichen	3
NZOR-6-52611	Puccinia coronata	Corda	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		3
NZOR-6-55751	Xanthoparmelia verrucella	(Essl.) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		3
NZOR-6-73977	Nothoscordum gracile	(Aiton) Stearn	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae		3
NZOR-6-78122	Cladonia cervicornis	(Ach.) Flot.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae	Cup Lichen	3
https://biodiversity.org.au/afd/taxa/0120164e-ebea-4367-863d-0bbf72ad8379	Numenius (Mesoscolopax) minutus	Gould, 1841	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Little Curlew	3
https://biodiversity.org.au/afd/taxa/04404f52-68f5-49fe-b879-10dacbbdb7de	Asadipus kunderang	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/05971198-3c77-43d8-adf7-f58a14c0823b	Polyrhachis (Campomyrma) phryne	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	3
https://biodiversity.org.au/afd/taxa/0947ed77-b443-46e1-9b7d-0b15ce4d2a6c	Icerya purchasi	Maskell, 1879	species	Animalia	Arthropoda	Insecta	Hemiptera	Monophlebidae	Cottony Cushion Scale	3
https://biodiversity.org.au/afd/taxa/0a489981-08f6-4819-9891-3bcb33c54f27	Spodoptera mauritia	(Boisduval, 1833)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae		3
https://biodiversity.org.au/afd/taxa/0c29b165-7dfd-478e-9a3b-371baa59dea3	Australonereis ehlersi	(Augener, 1913)	species	Animalia	Annelida	Polychaeta		Nereididae	Estuarine Bait Worm	3
https://biodiversity.org.au/afd/taxa/0e3cb986-21af-4dae-a912-558bb361f6b9	Melobasis rectipilosa	Levey, 2012	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/10a05291-3acd-4c2f-8c5a-bde2a2b1f01b	Dolichoderus rufotibialis	Clark, 1930	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		3
https://biodiversity.org.au/afd/taxa/18359185-4e14-4e47-ab55-0b92a5a036b3	Amitermes obeuntis	(Silvestri, 1909)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		3
https://biodiversity.org.au/afd/taxa/184e2ad8-9000-42bf-b1f6-161a679afcd5	Stilbopteryx napoleo	(LefÃ¨bvre, 1842)	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae		3
https://biodiversity.org.au/afd/taxa/18fb0aad-dd51-4e28-a5bb-71dfb48a78c0	Tapeigaster paramonovi	McAlpine & Kent, 1982	species	Animalia	Arthropoda	Insecta	Diptera	Heteromyzidae	Fly	3
https://biodiversity.org.au/afd/taxa/19465e79-c34b-4da6-acf1-266d00c7b4d3	Halobaena caerulea	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Procellariiformes	Procellariidae	Blue Petrel	3
https://biodiversity.org.au/afd/taxa/1b3e2bd5-0b41-43cc-8b83-425639f57353	Phanomorpha icelomorpha	(Turner, 1908)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		3
https://biodiversity.org.au/afd/taxa/1ee1766b-a109-4c67-b816-59c620606a7d	Paropsisterna debilis	(Chapuis, 1877)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		3
https://biodiversity.org.au/afd/taxa/21a03741-e847-42c5-87e6-7515ee3d4b68	Isopeda magna	Hirst, 1992	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Huntsman Spider	3
https://biodiversity.org.au/afd/taxa/28663829-709e-4dc3-99c1-7ce68b4c1e8b	Musgraveia sulciventris	(StÃ¥l, 1863)	species	Animalia	Arthropoda	Insecta	Hemiptera	Tessaratomidae	Bronze Orange Bug	3
https://biodiversity.org.au/afd/taxa/2a15ae5b-7938-4bab-89af-040bc1bc7700	Oncocoris apicalis	(Dallas, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	3
https://biodiversity.org.au/afd/taxa/2ec8e91c-ba47-4548-9147-b3887461e15c	Mythimna (Pseudaletia) convecta	(Walker, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Common Armyworm Moth	3
https://biodiversity.org.au/afd/taxa/2f34e183-2260-4d8c-84bb-ef57c66dde1f	Conocephalus (Chloroxiphidion) upoluensis	(Karny, 1907)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		3
https://biodiversity.org.au/afd/taxa/2fa47871-3637-4b3a-bfd8-89750d53e8fa	Arenaria interpres	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Ruddy Turnstone	3
https://biodiversity.org.au/afd/taxa/312f6611-ea11-4fe2-bd34-a60f61cf7c14	Prietocella barbara	(Linnaeus, 1758)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Small Pointed Snail	3
https://biodiversity.org.au/afd/taxa/373313a9-9570-4386-9060-58a73bb77481	Gonipterus citrophagus	Lea, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/383daf29-74b1-40b1-9014-51bbf3af8898	Chlidonias (Chlidonias) leucopterus	(Temminck, 1815)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	White-winged Black Tern	3
https://biodiversity.org.au/afd/taxa/39dcb491-26b8-42bd-bade-f199025506a0	Meyriccia latro	(Zeller, 1873)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	3
https://biodiversity.org.au/afd/taxa/3b2e834b-434e-45fa-aaea-220fd741ce18	Stenosmylus tenuis	(Walker, 1853)	species	Animalia	Arthropoda	Insecta	Neuroptera	Osmylidae	Brown Lacewing	3
https://biodiversity.org.au/afd/taxa/3b6365fd-f3b1-4079-b012-2c072f9bcf2a	Anilicus loricatus	CandÃ¨ze, 1863	species	Animalia	Arthropoda	Insecta	Coleoptera	Elateridae		3
https://biodiversity.org.au/afd/taxa/3c4408af-6088-4850-890b-9952fb44faed	Culex (Culex) annulirostris	Skuse, 1889	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Common Banded Mosquito	3
https://biodiversity.org.au/afd/taxa/3d64be53-c8a6-48dd-b067-b9056bd76372	Theridion pyramidale	L. Koch, 1867	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae		3
https://biodiversity.org.au/afd/taxa/3e5370e0-fe92-4275-abe0-b5cf5d4fbdb4	Hemiergis peronii	(Gray, 1831)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Lowlands Earless Skink	3
https://biodiversity.org.au/afd/taxa/3e6071cc-886f-4bfa-ba71-ccefe29c3563	Zanessa rubrovariegata	Kirkaldy, 1902	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Plant Bug	3
https://biodiversity.org.au/afd/taxa/426f7c7a-fb95-49cc-989d-4fab897aa9d1	Gallus gallus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Red Junglefowl	3
https://biodiversity.org.au/afd/taxa/44048a97-0c9d-47f6-974a-c8e20e35ee72	Catasarcus spinipennis	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/441e4fdd-fedb-44ef-956f-72a0c37e172e	Mallada signatus	(Schneider, 1851)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae	Green Lacewing	3
https://biodiversity.org.au/afd/taxa/45f49e98-84dc-4eb7-b379-1aa2baa882a2	Catasarcus impressipennis	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Redlegged Weevil	3
https://biodiversity.org.au/afd/taxa/48e09a45-e2af-4b68-a012-92fc13a4d09f	Blackbolbus frontalis	(GuÃ©rin-MÃ©neville, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		3
https://biodiversity.org.au/afd/taxa/4a29e778-8bb9-4336-bbc0-5b2c0f2b5d0a	Cormocephalus strigosus	Kraepelin, 1908	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		3
https://biodiversity.org.au/afd/taxa/4a2c0a2c-ca61-4997-a1ae-3e5d869c9998	Myrmecia desertorum	Wheeler, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bull Ant	3
https://biodiversity.org.au/afd/taxa/4b6a7cc9-8846-4d3d-a574-bb60acb9335c	Araneus circulissparsus	(Keyserling, 1887)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	3
https://biodiversity.org.au/afd/taxa/4c6b91d4-58ee-4f6f-bb76-d2178cb1da3c	Aonychus luctuosus	Pascoe, 1872	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/4e18a350-7bfd-4ec6-b0ae-fb07e66066eb	Cybister tripunctatus	(Olivier, 1795)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/4f8a4899-77c3-4386-aadd-91cd264bb032	Ophiusa parcemacula	(T.P. Lucas, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	3
https://biodiversity.org.au/afd/taxa/5166fc12-1bfd-4adf-bd6a-d3628f9bc8d5	Artoria flavimana	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Yellow-handed Forest Runner	3
https://biodiversity.org.au/afd/taxa/520f38e2-b08b-45de-ba8e-3c1ea2f21304	Carcinops (Carcinops) pumilio	(Erichson, 1834)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae	Predacious Hister Beetle	3
https://biodiversity.org.au/afd/taxa/53930942-2452-48ea-9494-bda46232284b	Gryllotalpa monanka	Otte & Alexander, 1983	species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllotalpidae	Dark Night Mole Cricket	3
https://biodiversity.org.au/afd/taxa/56b25185-6748-4161-9fb9-b33ce1f2b70a	Geloptera tuberculata	Baly, 1861	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		3
https://biodiversity.org.au/afd/taxa/58ba8c81-1a56-4f45-a8a0-fc71db73d805	Euoplos inornatus	(Rainbow & Pulleine, 1918)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae	Inornate Trapdoor Spider (northern Jarrah Forest)	3
https://biodiversity.org.au/afd/taxa/590143f6-f894-4a85-962e-f4c5d0630dc9	Nesidovelia peramoena	(Hale, 1925)	species	Animalia	Arthropoda	Insecta	Hemiptera	Veliidae	Riffle Bug	3
https://biodiversity.org.au/afd/taxa/5b10883a-c1d2-40bb-a8c4-2608f118737b	Palaemonetes australis	Dakin, 1915	species	Animalia	Arthropoda	Malacostraca	Decapoda	Palaemonidae	Shrimp	3
https://biodiversity.org.au/afd/taxa/5c1e8868-d577-4d81-afeb-7082a773f073	Rhipicera (Agathorhipis) reichei	GuÃ©rin-MÃ©neville, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Rhipiceridae		3
https://biodiversity.org.au/afd/taxa/5c845241-e00c-4761-a10a-446f73542b0e	Ctenotus gemmula	Storr, 1974	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Jewelled Sandplain Ctenotus	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/5f10759b-120d-4fc7-a726-9beba1e71010	Eucyclodes buprestaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Bordered Emerald	3
https://biodiversity.org.au/afd/taxa/6223329a-2506-4dec-b8d3-74180605b770	Synothele durokoppin	Raven, 1994	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		3
https://biodiversity.org.au/afd/taxa/6476145d-ace2-4c7c-ad0e-7c0f424728ff	Morethia lineoocellata	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	West Coast Morethia Skink	3
https://biodiversity.org.au/afd/taxa/65441a04-e79c-4d39-8cb3-e2c5d1e738e4	Neosparassus calligaster	(Thorell, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Huntsman Spider	3
https://biodiversity.org.au/afd/taxa/65fddb92-b360-4148-a2d3-c7bef955b321	Dingosa serrata	(L. Koch, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	3
https://biodiversity.org.au/afd/taxa/666b4abe-5b24-424d-b3d5-585a46c1ed3e	Sandalodes superbus	(Karsch, 1878)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Jumping Spider	3
https://biodiversity.org.au/afd/taxa/69bb2340-d214-48bd-8b07-31bd2083ce84	Phonognatha melania	(L. Koch, 1871)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		3
https://biodiversity.org.au/afd/taxa/6a9fa450-e819-4c2f-912c-acef335ef3b1	Procordulia affinis	(Selys, 1871)	species	Animalia	Arthropoda	Insecta	Odonata	Corduliidae	Western Swamp Emerald	3
https://biodiversity.org.au/afd/taxa/6d1aeef1-b551-4b14-9136-7b66c7078aa2	Sphenarches anisodactylus	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae		3
https://biodiversity.org.au/afd/taxa/6fc52f95-2870-46ee-a735-edaccc9ed1ef	Xenostrobus securis	(Lamarck, 1819)	species	Animalia	Mollusca	Bivalvia	Mytilida	Mytilidae	Little Brown Mussel	3
https://biodiversity.org.au/afd/taxa/7033613a-175e-4c6d-b588-c178c181cd7c	Camponotus cinereus	Mayr, 1876	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Mallee Black Sugar Ant	3
https://biodiversity.org.au/afd/taxa/716f3c48-65fe-4fd2-8ae3-e12a6b9e272f	Chlamydopsis inquilina	Lewis, 1885	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		3
https://biodiversity.org.au/afd/taxa/768fc522-cdb2-47fb-8d83-ba89ac62f77e	Anous tenuirostris	(Temminck, 1823)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Lesser Noddy	3
https://biodiversity.org.au/afd/taxa/77135229-9379-4e48-872f-9d453ce12eb9	Frankliniella occidentalis	(Pergande, 1895)	species	Animalia	Arthropoda	Insecta	Thysanoptera	Thripidae	Western Flower Thrips	3
https://biodiversity.org.au/afd/taxa/795759eb-1311-4fdc-9c77-d120fe3fe1e5	Hydrophilus (Hydrophilus) latipalpus	Castelnau, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Large Water Beetle	3
https://biodiversity.org.au/afd/taxa/7b537819-13c2-4974-969e-c95c6b00201d	Melanodryas (Melanodryas) cucullata	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Hooded Robin	3
https://biodiversity.org.au/afd/taxa/7b636ab5-e3e4-4c70-b39e-4edac05fb21a	Hylaeus (Rhodohylaeus) proximus	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3
https://biodiversity.org.au/afd/taxa/7c306f93-0f29-439f-9331-8437ae917ab2	Xederra gwynnei	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		3
https://biodiversity.org.au/afd/taxa/7dace421-a63b-43b3-9599-fb638fdc603b	Sphex fumipennis	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		3
https://biodiversity.org.au/afd/taxa/7e6f280b-1869-4b45-8cda-9e85e232fde2	Bothriembryon (Bothriembryon) bulla	(Menke, 1843)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		3
https://biodiversity.org.au/afd/taxa/7eb4fd6b-d734-4aec-8479-dd95e2cfa7bf	Colymbomorpha vittata	Britton, 1959	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Spring Beetle	3
https://biodiversity.org.au/afd/taxa/818816c1-4ecb-46d4-9c6c-6221017d1dac	Glenoleon osmyloides	(Gerstaecker, 1885)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		3
https://biodiversity.org.au/afd/taxa/81b56db9-b213-4021-8da4-9211d9991442	Catasarcus asphaltinus	Thompson, 1968	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/8271b6c5-bcc4-461e-bb3a-a686080a895a	Egernia napoleonis	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	South-western Crevice-skink	3
https://biodiversity.org.au/afd/taxa/82933e92-4a6e-4c68-ad04-c879c4e91ce5	Castiarina sanguinolenta	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/872642c1-0c9b-43df-9a01-5c85c58f3fbd	Merimna atrata	(Gory & Laporte, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae	Fire Beetle	3
https://biodiversity.org.au/afd/taxa/894eebde-7708-4d07-816c-44705f21b23b	Limbodessus inornatus	(Sharp, 1882)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/8af958df-95ab-4fa8-9468-3df275de414b	Pimelopus nothus	Burmeister, 1847	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		3
https://biodiversity.org.au/afd/taxa/8c26f157-5a75-4c27-8866-a9375718eebf	Urnisa rugosa	de Saussure, 1884	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		3
https://biodiversity.org.au/afd/taxa/8c4b3f88-1b80-47a9-9253-72752cec9e40	Archaeosynthemis leachii	(Selys, 1871)	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Twinspot Tigertail	3
https://biodiversity.org.au/afd/taxa/8e4bd073-9dae-4ec0-b1f8-d82286cdeb7e	Eristalinus (Lathyrophthalmus) punctulatus	(Macquart, 1847)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Native Drone Fly	3
https://biodiversity.org.au/afd/taxa/8f78ddbe-507e-4bf1-b136-c2417608d81a	Bothriomutilla rugicollis	(Westwood, 1843)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Mutillidae		3
https://biodiversity.org.au/afd/taxa/8f97f5a0-d09b-4bab-bf72-a7ca598482c1	Gryllotalpa pluvialis	(MjÃ¶berg, 1913)	species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllotalpidae		3
https://biodiversity.org.au/afd/taxa/928f9b98-d671-4c9d-8ffc-0698b21271f9	Pollanisus cupreus	Walker, 1854	species	Animalia	Arthropoda	Insecta	Lepidoptera	Zygaenidae		3
https://biodiversity.org.au/afd/taxa/933d9577-360e-41a3-8b6d-c58f7915dcfc	Melanozosteria obscura	(Tepper, 1893)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Cockroach	3
https://biodiversity.org.au/afd/taxa/9372ffa6-b5d5-4445-a117-8848bd9a8db9	Leucania diatrecta	Butler, 1886	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Dark-barred Wainscot	3
https://biodiversity.org.au/afd/taxa/9433b5cc-6e48-4f6f-bc00-0a32b394cd82	Wingia aurata	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Golden Leaf Moth	3
https://biodiversity.org.au/afd/taxa/95fdd700-ab8c-4be1-a7ea-0d8b663c90fc	Culex (Culex) australicus	Dobrotworsky & Drummond, 1953	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Australian House Mosquito	3
https://biodiversity.org.au/afd/taxa/960a92a7-4ffd-4c97-a0ff-499972640aa4	Camponotus terebrans	(Lowne, 1865)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Brown Bearded Sugar Ant	3
https://biodiversity.org.au/afd/taxa/96bf9e24-0480-4eec-920a-792ce5676569	Austrolestes io	(Selys, 1862)	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Iota Ringtail	3
https://biodiversity.org.au/afd/taxa/97b364bd-8144-48d7-aeef-6c4f8a1a30bd	Arachnura higginsi	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Scorpion Tailed Spider	3
https://biodiversity.org.au/afd/taxa/97c6160f-903b-4e12-88f3-d16bce3dc9bb	Turnix (Alphaturnia) velox	(Gould, 1841)	species	Animalia	Chordata	Aves	Turniciformes	Turnicidae	Little Button-quail	3
https://biodiversity.org.au/afd/taxa/9853b9e2-9bac-4068-a384-d9aed06d8b16	Ctenotus impar	Storr, 1969	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Odd-striped Ctenotus	3
https://biodiversity.org.au/afd/taxa/98fc76ef-ed4e-45fb-ab12-93666966aa8c	Heliothis punctifera	Walker, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	3
https://biodiversity.org.au/afd/taxa/9d1f8e18-31f1-434e-963e-1aac866a18a3	Arthritica semen	(Menke, 1843)	species	Animalia	Mollusca	Bivalvia	Cardiida	Lasaeidae	Mound Springs Mussel	3
https://biodiversity.org.au/afd/taxa/9d3d787b-1a6d-49f7-8d57-f063bb66df00	Lampropholis delicata	(De Vis, 1888)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Dark-flecked Garden Sunskink	3
https://biodiversity.org.au/afd/taxa/9eb3842d-26f6-4f33-a84c-ed04d524b0cc	Craspedoplax variabilis	(H. Adams & Angas, 1864)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Acanthochitonidae		3
https://biodiversity.org.au/afd/taxa/9ef64a31-2ba4-4a76-8334-f038b40ea381	Anthomyia punctipennis	Wiedemann, 1830	species	Animalia	Arthropoda	Insecta	Diptera	Anthomyiidae	Fly	3
https://biodiversity.org.au/afd/taxa/a0758ac2-d01d-4593-bb18-06846b47b1e3	Cernuella virgata	(Da Costa, 1778)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Vineyard Snail	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/a081c2de-aa17-49ca-a4ff-e7e78e447b31	Cyclosa trilobata	(Urquhart, 1885)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Three Lobed Spider	3
https://biodiversity.org.au/afd/taxa/a5757f21-b709-4e34-9904-a5e58b32700b	Hellyethira litua	Wells, 1979	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	3
https://biodiversity.org.au/afd/taxa/a63f8b9c-d378-4bc5-a6cc-9b65b50ea7a0	Acanthiza (Geobasileus) uropygialis	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Chestnut-rumped Thornbill	3
https://biodiversity.org.au/afd/taxa/a874274e-07dc-416a-b25e-99bd9633aaf3	Euryglossa rubricata	Smith, 1879	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3
https://biodiversity.org.au/afd/taxa/abf2af2e-941a-4d1a-b6da-861c0d8d7003	Tiracerus duboulayi	(Waterhouse, 1864)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		3
https://biodiversity.org.au/afd/taxa/ac463aa3-eb82-4d5c-af5c-61c44b7dbb33	Pachyprosopis (Pachyprosopis) haematostoma	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3
https://biodiversity.org.au/afd/taxa/ac67791b-5e52-4a7f-acfc-e07e28b16a54	Zonioploca pallida	Shelford, 1909	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		3
https://biodiversity.org.au/afd/taxa/ae56080e-4e73-457d-93a1-0be6a1d50f34	Malurus (Malurus) cyaneus	(Ellis, 1782)	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Superb Fairy-wren	3
https://biodiversity.org.au/afd/taxa/afcfd026-3915-4d62-9cf5-f8042055fd55	Epicyrtica oostigma	(Turner, 1929)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		3
https://biodiversity.org.au/afd/taxa/b19c31b6-db31-4e0b-b92a-aafbcebbd5e8	Dicax cephalotes	Fauvel, 1878	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		3
https://biodiversity.org.au/afd/taxa/b200510f-c3f7-4a51-a22e-ed0b58d9bd15	Spectrotrota fimbrialis	Warren, 1891	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	3
https://biodiversity.org.au/afd/taxa/b2496ba9-f04d-4983-b5e4-66ab6b37935a	Anachloris uncinata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	3
https://biodiversity.org.au/afd/taxa/b32f831c-79bf-44f8-ace3-f7e0140ab09f	Lerista lineata	Bell, 1833	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Perth Slider	3
https://biodiversity.org.au/afd/taxa/b6a5b715-df02-430e-940a-d1a67f392b63	Nycterephes coracopa	Turner, 1906	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		3
https://biodiversity.org.au/afd/taxa/ba1babd0-8422-4129-bb33-51d9fa18ea99	Thallarcha eremicola	Pescott, 1951	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		3
https://biodiversity.org.au/afd/taxa/ba2e5761-2348-4b28-87bf-3a7137fb424b	Stomorhina subapicalis	(Macquart, 1847)	species	Animalia	Arthropoda	Insecta	Diptera	Rhiniidae	Blow Fly	3
https://biodiversity.org.au/afd/taxa/bde957d4-9876-45b4-be00-b223c7d95a3e	Necterosoma undecimlineatum	(Babington, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/beaaadce-092f-4143-9bb5-965f1741e271	Decienus sphasodes	Pascoe, 1873	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/c19269de-2a8f-48e4-b838-f10d31335c78	Poliaspis nitens	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		3
https://biodiversity.org.au/afd/taxa/c1cbc4ca-5b2a-4329-a9a8-b00181054bdb	Garrha oncospila	(Turner, 1946)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		3
https://biodiversity.org.au/afd/taxa/c237e01c-1e79-4bb0-9b54-00fe6c84421e	Chrysodeixis eriosoma	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Green Looper Moth	3
https://biodiversity.org.au/afd/taxa/c2a587b7-2091-4e74-9637-8d896db83164	Lasioglossum (Parasphecodes) lichatum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		3
https://biodiversity.org.au/afd/taxa/c2abad6a-b416-4300-875b-f412f4f67f5c	Phalacrinus umbratus	Blackburn, 1902	species	Animalia	Arthropoda	Insecta	Coleoptera	Phalacridae		3
https://biodiversity.org.au/afd/taxa/c3db9c89-1e8a-43ed-ae75-357e7f0d0f0a	Culex (Neoculex) latus	Dobrotworsky, 1956	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae		3
https://biodiversity.org.au/afd/taxa/c3f85f86-be9b-4d51-9fff-6be0a416bc50	Neocuris discoflava	Fairmaire, 1877	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/c461a291-1853-4588-bf8d-547d46d3af53	Megachile ferox	Smith, 1879	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	3
https://biodiversity.org.au/afd/taxa/c6eaf329-6dde-4220-b4fa-6bcb8294b5bf	Lioponera brevis	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		3
https://biodiversity.org.au/afd/taxa/cab281ba-f166-4fc2-bd1d-36ad059c9946	Sondra aurea	(L. Koch, 1880)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		3
https://biodiversity.org.au/afd/taxa/cdb5e630-7450-48d6-b7fa-59d2f47259a6	Novakiella trituberculosa	(Roewer, 1942)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	3
https://biodiversity.org.au/afd/taxa/ceb735ff-60b9-4d69-93b3-b4bda6f5930e	Aedriodes nodipennis	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/cec9b490-3fb0-47d9-a5fe-6c65ad316335	Sphex modestus	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		3
https://biodiversity.org.au/afd/taxa/cf20257c-15d5-4102-92d6-bf967fa7ac66	Perga christii	Westwood, 1880	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	3
https://biodiversity.org.au/afd/taxa/d1f0b96c-7d32-405d-8d1a-d07110909369	Tetranychus evansi	Baker & Pritchard, 1960	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Tetranychidae	Tomato Red Spider Mite	3
https://biodiversity.org.au/afd/taxa/d45055e0-0db3-40ad-b421-76bdb7f0859f	Melobasis regalis	Carter, 1923	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/d65742aa-b0e4-4961-b2de-5801773b0cdb	Anthela varia	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Anthelidae	Lappet Moth	3
https://biodiversity.org.au/afd/taxa/da5968bc-6406-41bd-af91-52aea31ed9a4	Phoracantha punctata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		3
https://biodiversity.org.au/afd/taxa/dd33af1e-19e7-4fcd-9485-8726d84a664e	Darwinocoris australicus	Slater, 1962	species	Animalia	Arthropoda	Insecta	Hemiptera	Pachygronthidae		3
https://biodiversity.org.au/afd/taxa/ddb5feb3-b2ec-49fb-8623-bdae82518257	Paederus meyricki	Blackburn, 1891	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		3
https://biodiversity.org.au/afd/taxa/dead8e60-8756-4563-9fbe-93c7ed83bed3	Coracina (Pteropodocys) maxima	(RÃ¼ppell, 1839)	species	Animalia	Chordata	Aves	Passeriformes	Campephagidae	Ground Cuckoo-shrike	3
https://biodiversity.org.au/afd/taxa/e1d15b68-77f2-4aee-9700-c50e7371cb90	Alpheus euphrosyne	de Man, 1897	species	Animalia	Arthropoda	Malacostraca	Decapoda	Alpheidae		3
https://biodiversity.org.au/afd/taxa/e2717954-7da9-48e0-8850-70ebd9987c22	Oxyethira (Trichoglene) retracta	Wells, 1981	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	3
https://biodiversity.org.au/afd/taxa/e290c38c-be5b-45e6-b031-b29a3ed293ef	Chrysopasta elegans	(Macquart, 1846)	species	Animalia	Arthropoda	Insecta	Diptera	Tachinidae		3
https://biodiversity.org.au/afd/taxa/e4d2e8d1-ef4b-4754-aa4a-4890cbed19c6	Naupactus cervinus	Boheman, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Fuller's Rose Weevil	3
https://biodiversity.org.au/afd/taxa/e53bf0ab-d0aa-468b-bcbc-26a7ac911110	Ecnolagria aeneoviolacea	(Champion, 1895)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		3
https://biodiversity.org.au/afd/taxa/e628d7f1-f1b4-41ca-bdad-f9c83f5773b2	Lasioglossum (Chilalictus) occiduum	Walker, 1999	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		3
https://biodiversity.org.au/afd/taxa/e62dbf80-13b0-465f-8706-b667dd5ba2a0	Heteropternis obscurella	(Blanchard, 1853)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		3
https://biodiversity.org.au/afd/taxa/e667825e-8c15-4026-951a-8308e2408ed7	Agapophytus annamariae	Winterton & Irwin, 2001	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		3
https://biodiversity.org.au/afd/taxa/e73fc62b-de69-427d-a7b8-c89fa2063665	Melanozosteria fulva	Princis, 1954	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		3
https://biodiversity.org.au/afd/taxa/e7d3accb-9518-4626-a134-1274dcb5e419	Synechocera elongata	Thomson, 1879	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/f05e4133-2784-42a1-8507-e34d53f707d6	Prionyx globosus	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae	Wasp	3
https://biodiversity.org.au/afd/taxa/f18785ad-b806-42e0-9bcd-8aee456360a6	Leioproctus (Lamprocolletes) chalybeatus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/f4112526-84ba-4407-8fc0-aebf9c89c461	Ambicodamus kochi	Harvey, 1995	species	Animalia	Arthropoda	Arachnida	Araneae	Nicodamidae		3
https://biodiversity.org.au/afd/taxa/f660c6e6-0c6d-41d4-9ecf-e59f3535205c	Platynectes (Platynectes) aenescens	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/f6f6d149-b76d-4e58-aa3c-7f9406175b45	Monopis icterogastra	(Zeller, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tineidae	Wool Moth	3
https://biodiversity.org.au/afd/taxa/f747ca2d-7a60-4390-ae1b-3fe2d6270cc2	Hylaeus (Macrohylaeus) alcyoneus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Species Of Yellowfaced Bee	3
https://biodiversity.org.au/afd/taxa/f85bdff9-9db3-4ef2-b636-d22dd7aee827	Ocirrhoe inconspicua	(Dallas, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	3
https://biodiversity.org.au/afd/taxa/fc6053da-0825-4ba6-ac56-40997ffa6c30	Theba pisana	(MÃ¼ller, 1774)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Helicidae	White Italian Snail	3
https://biodiversity.org.au/afd/taxa/fd887322-79d1-42f2-8190-abb54e4bb39d	Earias paralella	T.P. Lucas, 1898	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae	Tuft Moth	3
https://biodiversity.org.au/afd/taxa/fe80ca2f-f41d-4d5b-b2d1-b1197f8764ec	Agrotis porphyricollis	GuenÃ©e, 1852	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	3
https://id.biodiversity.org.au/name/apni/51682635	Hypocalymma suave	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Tall White Myrtle	3
https://id.biodiversity.org.au/node/apni/2886205	Tremulina tremula	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Quivery Cord Rush	3
https://id.biodiversity.org.au/node/apni/2887024	Stylidium ecorne	(F.Muell. ex F.L.Erickson & J.H.Willis) P.G.Farrell & S.H.James	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Foot Triggerplant	3
https://id.biodiversity.org.au/node/apni/2888587	Myriocephalus occidentalis	(F.Muell.) P.S.Short	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/node/apni/2888798	Andersonia longifolia	(Benth.) L.Watson	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		3
https://id.biodiversity.org.au/node/apni/2889233	Oxalis debilis	Kunth	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Pink Shamrock	3
https://id.biodiversity.org.au/node/apni/2890064	Myriophyllum limnophilum	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2890441	Stylidium bicolor	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Northern Sandplain Triggerplant	3
https://id.biodiversity.org.au/node/apni/2890640	Hibbertia polystachya	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		3
https://id.biodiversity.org.au/node/apni/2890840	Callitris acuminata	(Parl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae		3
https://id.biodiversity.org.au/node/apni/2891073	Isolepis stellata	(C.B.Clarke) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Star Club-rush	3
https://id.biodiversity.org.au/node/apni/2891074	Melaleuca aspalathoides	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		3
https://id.biodiversity.org.au/node/apni/2891182	Linum marginale	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Linaceae	Native Flax	3
https://id.biodiversity.org.au/node/apni/2891952	Podolepis nutans	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/node/apni/2892423	Digitaria longiflora	(Retz.) Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Digitaria	3
https://id.biodiversity.org.au/node/apni/2892570	Pultenaea ochreata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2893048	Cyperus vorsteri	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2893781	Triglochin striata	Ruiz & Pav.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Streaked Arrowgrass	3
https://id.biodiversity.org.au/node/apni/2894260	Triglochin nana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Dwarf Arrowgrass	3
https://id.biodiversity.org.au/node/apni/2894435	Comesperma volubile	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Love Creeper	3
https://id.biodiversity.org.au/node/apni/2894665	Gastrolobium bilobum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Heart-leaved Poison	3
https://id.biodiversity.org.au/node/apni/2894677	Typha orientalis	C.Presl	species	Plantae	Charophyta	Equisetopsida	Poales	Typhaceae	Bullrush	3
https://id.biodiversity.org.au/node/apni/2894708	Allocasuarina microstachya	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae		3
https://id.biodiversity.org.au/node/apni/2894970	Schoenoplectus tabernaemontani	(C.C.Gmel.) Palla	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	River Club-rush	3
https://id.biodiversity.org.au/node/apni/2895388	Samolus repens	(J.R.Forst. & G.Forst.) Pers.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae	Creeping Brookweed	3
https://id.biodiversity.org.au/node/apni/2895570	Astartea affinis	(Endl.) Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	West-coast Astartea	3
https://id.biodiversity.org.au/node/apni/2896169	Adiantum aethiopicum	L.	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Common Maidenhair	3
https://id.biodiversity.org.au/node/apni/2896899	Amphipogon laguroides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		3
https://id.biodiversity.org.au/node/apni/2897222	Darwinia apiculata	N.G.Marchant	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Scarp Darwinia	3
https://id.biodiversity.org.au/node/apni/2897264	Brachyscome glandulosa	(Steetz) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Sticky Daisy	3
https://id.biodiversity.org.au/node/apni/2897449	Erodium cygnorum	Nees	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Erodium	3
https://id.biodiversity.org.au/node/apni/2897463	Borya scirpoidea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae		3
https://id.biodiversity.org.au/node/apni/2897938	Lemna disperma	Hegelm.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Common Duckweed	3
https://id.biodiversity.org.au/node/apni/2898177	Leucopogon racemulosus	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		3
https://id.biodiversity.org.au/node/apni/2899160	Indigofera australis	Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Australian Indigo	3
https://id.biodiversity.org.au/node/apni/2899597	Phylloglossum drummondii	Kunze	species	Plantae	Charophyta	Equisetopsida	Lycopodiales	Lycopodiaceae	Pigmy Clubmoss	3
https://id.biodiversity.org.au/node/apni/2899734	Isolepis oldfieldiana	(S.T.Blake) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2899812	Nerium oleander	L.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Oleander	3
https://id.biodiversity.org.au/node/apni/2899846	Astartea leptophylla	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	River-bank Astartea	3
https://id.biodiversity.org.au/node/apni/2900162	Lepyrodia curvescens	B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		3
https://id.biodiversity.org.au/node/apni/2900289	Adenanthos sericeus	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Coastal Woollybush	3
https://id.biodiversity.org.au/node/apni/2900587	Spyridium globulosum	(Labill.) Benth.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Basket Bush	3
https://id.biodiversity.org.au/node/apni/2901308	Setaria parviflora	(Poir.) Kerguelen	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Pigeon Grass	3
https://id.biodiversity.org.au/node/apni/2901311	Hibbertia amplexicaulis	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		3

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https://id.biodiversity.org.au/node/apni/2901642	Cycnogeton huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae		3
https://id.biodiversity.org.au/node/apni/2901856	Rubus laciniatus	Willd.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Blackberry	3
https://id.biodiversity.org.au/node/apni/2902158	Stenanthemum tridentatum	(Steud.) Reissek	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		3
https://id.biodiversity.org.au/node/apni/2902615	Gonocarpus nodulosus	Nees	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2902759	Austrostipa semibarbata	(R.Br.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fibrous Spear-grass	3
https://id.biodiversity.org.au/node/apni/2902839	Jacksonia angulata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2902871	Rhodanthe pygmaea	(DC.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pigmy Daisy	3
https://id.biodiversity.org.au/node/apni/2903310	Conospermum capitatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2903567	Pimelea lehmanniana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		3
https://id.biodiversity.org.au/node/apni/2903669	Centrolepis cephaloformis	Reader	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		3
https://id.biodiversity.org.au/node/apni/2903693	Callistemon viminalis	(Sol. ex Gaertn.) G.Don	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Creek Bottlebrush	3
https://id.biodiversity.org.au/node/apni/2904031	Samolus junceus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae		3
https://id.biodiversity.org.au/node/apni/2904060	Schoenus caespititius	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tufted Bog-rush	3
https://id.biodiversity.org.au/node/apni/2904130	Goodenia pulchella	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		3
https://id.biodiversity.org.au/node/apni/2904382	Centrolepis glabra	(F.Muell. ex Sond.) Hieron.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae	Smooth Centrolepis	3
https://id.biodiversity.org.au/node/apni/2904829	Verticordia picta	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	China Cups	3
https://id.biodiversity.org.au/node/apni/2905546	Caesia occidentalis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pale Grass Lily	3
https://id.biodiversity.org.au/node/apni/2906045	Campsis radicans	(L.) Seem. ex Bureau	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae		3
https://id.biodiversity.org.au/node/apni/2906198	Schoenus plumosus	Rye	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2906385	Erythrina x sykesii	Barneby & Krukoff	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Thorny Coral Tree	3
https://id.biodiversity.org.au/node/apni/2906711	Ehrharta brevifolia	Schrad.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Veldt Grass	3
https://id.biodiversity.org.au/node/apni/2907105	Sporobolus africanus	(Poir.) Robyns & Tournay	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Rat-tail Grass	3
https://id.biodiversity.org.au/node/apni/2907602	Jacksonia gracillima	Chappill	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2907696	Angianthus micropodioides	(Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/node/apni/2907819	Vitis vinifera	L.	species	Plantae	Charophyta	Equisetopsida	Vitales	Vitaceae	Grape Vine	3
https://id.biodiversity.org.au/node/apni/2907896	Kunzea praestans	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		3
https://id.biodiversity.org.au/node/apni/2908504	Pimelea rosea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Rose Banjine	3
https://id.biodiversity.org.au/node/apni/2908539	Schoenus variicellae	Rye	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2909633	Conospermum canaliculatum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2910012	Olax benthamiana	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Olacaceae		3
https://id.biodiversity.org.au/node/apni/2910276	Juncus planifolius	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Broad-leaf Rush	3
https://id.biodiversity.org.au/node/apni/2910494	Melaleuca armillaris	(Sol. ex Gaertn.) Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Giant Honey Myrtle	3
https://id.biodiversity.org.au/node/apni/2910636	Vallisneria nana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Vallisneria	3
https://id.biodiversity.org.au/node/apni/2911351	Velleia trinervis	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		3
https://id.biodiversity.org.au/node/apni/2911428	Lepidosperma sieberi	Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spreading Sword-sedge	3
https://id.biodiversity.org.au/node/apni/2912478	Stachystemon sp. Keysbrook (R.Archer 17/11/99)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Picrodendraceae		3
https://id.biodiversity.org.au/node/apni/2913117	Calytrix sapphirina	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		3
https://id.biodiversity.org.au/node/apni/2913225	Cassia fistula	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Golden Shower	3
https://id.biodiversity.org.au/node/apni/2913361	Hydrocotyle alata	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae		3
https://id.biodiversity.org.au/node/apni/2913538	Lepidium rotundum	(Desv.) DC.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Veined Peppercress	3
https://id.biodiversity.org.au/node/apni/2914146	Haemodorum sparsiflorum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Mardja	3
https://id.biodiversity.org.au/node/apni/2914831	Gratiola peruviana	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Austral Brooklime	3
https://id.biodiversity.org.au/node/apni/2915119	Templetonia drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2915504	Goodenia incana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Hoary Goodenia	3
https://id.biodiversity.org.au/node/apni/2915591	Centrolepis alepyroides	(Nees) Walp.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		3
https://id.biodiversity.org.au/node/apni/2916194	Petrophile juncifolia	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2916341	Acacia denticulosa	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sandpaper Wattle	3
https://id.biodiversity.org.au/node/apni/2916565	Tecoma capensis	(Thunb.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Cape Honeysuckle	3
https://id.biodiversity.org.au/node/apni/2916688	Sagina apetala	Ard.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Common Pearlwort	3
https://id.biodiversity.org.au/node/apni/2917056	Meionectes tenuifolia	(Benth.) M.L.Moody & Les	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2917330	Luzula meridionalis	H.Nordensk.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Common Wood-rush	3
https://id.biodiversity.org.au/node/apni/2918442	Utricularia volubilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Twining Bladderwort	3
https://id.biodiversity.org.au/node/apni/2918908	Acacia glaucoptera	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Clay Wattle	3
https://id.biodiversity.org.au/node/apni/2919624	Hemigenia argentea	Bartl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		3
https://id.biodiversity.org.au/node/apni/2919773	Cyperus eragrostis	Lam.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Drain Flat-sedge	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2919993	Pandorea jasminoides	(G.Don) K.Schum.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Bower Vine	3
https://id.biodiversity.org.au/node/apni/2920009	Ptychosema pusillum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Dwarf Pea	3
https://id.biodiversity.org.au/node/apni/2920093	Sida fibulifera	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Pin Sida	3
https://id.biodiversity.org.au/node/apni/2920325	Grevillea crithmifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2920423	Grevillea pimeleoides	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2920461	Oxalis exilis	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Short-fruit Oxalis	3
https://id.biodiversity.org.au/node/apni/2920492	Gonocarpus paniculatus	(Benth.) Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2920725	Hemigenia sericea	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Silky Hemigenia	3
https://id.biodiversity.org.au/node/apni/4335051	Ptilotus pyramidatus	(Moq.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Pyramid Mullamulla	3
https://id.biodiversity.org.au/node/apni/7061040	Pseudognaphalium luteoalbum	(L.) Hilliard & B.L.Burtt	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Jersey Cudweed	3
https://id.biodiversity.org.au/node/apni/7194281	Euphorbia drummondii	Boiss.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Mat Spurge	3
https://id.biodiversity.org.au/node/apni/7775640	Sorghum bicolor	(L.) Moench	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Grain Sorghum	3
https://id.biodiversity.org.au/node/apni/7867056	Azolla rubra	R.Br.	species	Plantae	Charophyta	Equisetopsida	Salviniales	Salviniaceae	Pacific Azolla	3
https://id.biodiversity.org.au/node/apni/7990061	Stylidium roseoalatum	F.L.Erickson & J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pink-winged Triggerplant	3
https://id.biodiversity.org.au/node/apni/8506340	Daviesia gracilis	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/ausmoss/10104031	Pleuridium ecklonii	(Mitt.) Snider	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae		3
https://id.biodiversity.org.au/node/ausmoss/10129376	Gemmabryum pachytheca	(MÃ¼ll.Hal.) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Acorn-fruited Thread-moss	3
https://id.biodiversity.org.au/node/ausmoss/2919920	Riccia bifurca	Hoffm.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Lizard Crystalwort	3
https://id.biodiversity.org.au/node/fungi/60091529	Agaricus xanthodermus	Genev.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Yellow Stainer	3
https://id.biodiversity.org.au/node/fungi/60091909	Leucocoprinus birnbaumii	(Corda) Singer	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		3
https://id.biodiversity.org.au/node/fungi/60093425	Fistulina hepatica	(Schaeff.) With.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Fistulinaceae		3
https://id.biodiversity.org.au/node/fungi/60095449	Gymnopilus purpuratus	(Cooke & Massee) Singer	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		3
https://id.biodiversity.org.au/node/fungi/60095661	Pholiota drummondii	(Berk.) Pegler	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		3
https://id.biodiversity.org.au/node/fungi/60096317	Austroboletus occidentalis	Watling & N.M.Greg.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		3
https://id.biodiversity.org.au/node/fungi/60096449	Boletus sinapecruentus	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		3
https://id.biodiversity.org.au/node/fungi/60096945	Scleroderma cepa	Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae		3
https://id.biodiversity.org.au/node/fungi/60098939	Phaeotrametes decipiens	(Berk.) Lloyd ex J.E.Wright	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae		3
https://id.biodiversity.org.au/node/fungi/60099241	Trametes versicolor	(L.) Lloyd	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae	Turkey-tail	3
https://id.biodiversity.org.au/node/fungi/60099693	Russula erumpens	Cleland & Cheel	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		3
https://id.biodiversity.org.au/node/fungi/60101241	Uromycladium tepperianum	(Sacc.) McAlpine	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pileolariaceae		3
https://id.biodiversity.org.au/node/fungi/60101939	Tilletia viennotii	Syd.	species	Fungi	Basidiomycota	Exobasidiomycetes	Tilletiales	Tilletiaceae		3
https://id.biodiversity.org.au/node/fungi/60104095	Ceratiomyxa fruticulosa	(O.F.MÃ¼ll.) T.Macbr.	species	Protista	Amoebozoa	Protostelea	Protostelida	Ceratiomyxaceae	Honeycomb Coral Slime Mold	3
https://id.biodiversity.org.au/taxon/apni/51266598	Narcissus tazetta	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Amaryllidaceae	Polyanthus Narcissus	3
https://id.biodiversity.org.au/taxon/apni/51268021	Centaurea melitensis	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Maltese Cockspur	3
https://id.biodiversity.org.au/taxon/apni/51268572	Leontodon rhagadioloides	(L.) Enke & Zidorn	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Hedypnois	3
https://id.biodiversity.org.au/taxon/apni/51268985	Solidago chilensis	Meyen	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Brazilian Arnica	3
https://id.biodiversity.org.au/taxon/apni/51269204	Spathodea campanulata	P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	West African Tulip Tree	3
https://id.biodiversity.org.au/taxon/apni/51269943	Canna x generalis	L.H.Bailey	species	Plantae	Charophyta	Equisetopsida	Zingiberales	Cannaceae	Canna	3
https://id.biodiversity.org.au/taxon/apni/51283567	Drosera indumenta	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		3
https://id.biodiversity.org.au/taxon/apni/51283596	Drosera micra	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		3
https://id.biodiversity.org.au/taxon/apni/51290626	Prasophyllum cuneatum	D.L.Jones & G.Brockman	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Wedge Leek Orchid	3
https://id.biodiversity.org.au/taxon/apni/51291363	Hordeum hystrix	Roth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Mediterranean Barley-grass	3
https://id.biodiversity.org.au/taxon/apni/51291653	Muehlenbeckia polybotrya	Meisn.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae		3
https://id.biodiversity.org.au/taxon/apni/51294367	Stylidium hesperium	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Western Reed Triggerplant	3
https://id.biodiversity.org.au/taxon/apni/51300007	Cotula cotuloides	(Steetz) Druce	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Smooth Cotula	3
https://id.biodiversity.org.au/taxon/apni/51300341	Rhodanthe chlorocephala	(Turcz.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/taxon/apni/51312751	Drosera marchantii	DeBuhr	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Bridal Rainbow	3
https://id.biodiversity.org.au/taxon/apni/51399000	Caladenia falcata	(Nicholls) M.A.Clem. & Hopper	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Green Spider Orchid	3
https://id.biodiversity.org.au/taxon/apni/51400251	Calochilus stramenicola	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Wandoo Beard Orchid	3
https://id.biodiversity.org.au/taxon/apni/51401348	Cyrtostylis huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Midge Orchid	3
https://id.biodiversity.org.au/taxon/apni/51404189	Diuris carinata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Bee Orchid	3
https://id.biodiversity.org.au/taxon/apni/51404219	Diuris emarginata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Late Donkey Orchid	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51409707	Prasophyllum brownii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Christmas Leek Orchid	3
https://id.biodiversity.org.au/taxon/apni/51414248	Thelymitra campanulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Shirt Orchid	3
https://id.biodiversity.org.au/taxon/apni/51414440	Thelymitra vulgaris	Jeanes	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Sun Orchid	3
https://id.biodiversity.org.au/taxon/apni/51429596	Swainsona canescens	(Benth. ex Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grey Swainson-pea	3
https://id.biodiversity.org.au/taxon/apni/51432117	Erigeron sumatrensis	Retz.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Tall Fleabane	3
https://id.biodiversity.org.au/taxon/apni/51434552	Machaerina arthrophylla	(Nees) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Baumea	3
https://id.biodiversity.org.au/taxon/apni/51434579	Machaerina juncea	(R.Br.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Bare Twig-rush	3
https://id.biodiversity.org.au/taxon/apni/51434593	Machaerina laxa	(Nees) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Lax Twig-rush	3
https://id.biodiversity.org.au/taxon/apni/51434627	Machaerina preissii	(Nees) L.A.S.Johnson & T. Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/taxon/apni/51435519	Beyeria lechenaultii	(DC.) Baill.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Pale Turpentine-bush	3
https://id.biodiversity.org.au/taxon/apni/51436112	Gastrolobium retusum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/taxon/apni/51436514	Acacia cochlearis	(Labill.) H.L.Wendl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Rigid Wattle	3
https://id.biodiversity.org.au/taxon/apni/51437552	Haemodorum loratum	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		3
https://id.biodiversity.org.au/taxon/apni/51438395	Cassytha pubescens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Downy Dodder-laurel	3
https://id.biodiversity.org.au/taxon/apni/51439689	Corymbia ficifolia	(F.Muell.) K.D.Hill & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Red-flowering Gum	3
https://id.biodiversity.org.au/taxon/apni/51440334	Rinzia crassifolia	Turcz.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Darling Range Rinzia	3
https://id.biodiversity.org.au/taxon/apni/51440862	Epilobium billardiereanum	Ser.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Variable Willow-herb	3
https://id.biodiversity.org.au/taxon/apni/51442674	Eragrostis cilianensis	(All.) Vignolo ex Janch.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lovegrass	3
https://id.biodiversity.org.au/taxon/apni/51442740	Lachnagrostis plebeia	(R.Br.) Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Coarse Blowngrass	3
https://id.biodiversity.org.au/taxon/apni/51446415	Malus domestica	(Suckow) Borkh.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Apple	3
https://id.biodiversity.org.au/taxon/apni/51462044	Podolepis aristata	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/taxon/apni/51695391	Hyalosperma glutinosum	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/taxon/apni/51696571	Vitex trifolia	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Beach Vitex	3
https://id.biodiversity.org.au/taxon/apni/51726301	Grevillea preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spider Net Grevillea	3
https://id.biodiversity.org.au/taxon/apni/51735708	Alternanthera denticulata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Lesser Joyweed	3
https://id.biodiversity.org.au/taxon/apni/51743538	Euchiton sphaericus	(Willd.) Holub	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Cudweed	3
https://id.biodiversity.org.au/taxon/ausmoss/10154625	Fissidens megalotis	Schimp. ex MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Curly Pocket-moss	3
ALA_DR22913_870	Steatoda triangulosa		species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Triangulate Bud Spider	2
NZOR-6-106546	Xanthoparmelia flavescentireagens	(Gyeln.) D.J.Galloway	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-106961	Cladia schizopora	(Nyl.) Nyl.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		2
NZOR-6-125271	Paraporpidia leptocarpa	(Nyl.) Rambold & Hertel	species	Fungi	Ascomycota	Lecanoromycetes	Lecideales	Porpidiaceae		2
NZOR-6-12872	Cladia muelleri	(Hampe) Parnmen & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		2
NZOR-6-134199	Paraporpidia glauca	(Taylor) Rambold	species	Fungi	Ascomycota	Lecanoromycetes	Lecideales	Porpidiaceae		2
NZOR-6-21961	Xanthoparmelia amplexula	(Stirt.) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-2359	Xanthoparmelia notata	(Kurok.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-25217	Tubulicrinis calothrix	(Pat.) Donk	species	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Hymenochaetaceae		2
NZOR-6-26299	Bartramia stricta	Brid.	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae		2
NZOR-6-30899	Thysanothecium scutellatum	(Fr.) D.J.Galloway	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		2
NZOR-6-38820	Pediastrum duplex	Meyen	species	Plantae	Chlorophyta	Chlorophyceae	Chlorococcales	Hydrodictyaceae	Green Microalga	2
NZOR-6-39489	Psora crystallifera	(Taylor) MÃ¼ll.Arg.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Physciaceae		2
NZOR-6-40053	Trichia crateriformis	G.W. Martin	species	Protista	Amoebozoa	Myxogastrea	Trichiida	Trichiaceae		2
NZOR-6-53387	Cryptococcus gattii	(Vanbreus. & Takashio) Kwon-Chung & Boekhout	species	Fungi	Basidiomycota	Tremellomycetes	Tremellales	Tremellaceae		2
NZOR-6-55950	Diplocarpon mespili	(Sorauer) B. Sutton	species	Fungi	Ascomycota	Leotiomycetes	Helotiales	Dermateaceae		2
NZOR-6-61826	Citrullus lanatus	(Thunb.) Matsum. & Nakai	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Camel Melon	2
NZOR-6-66105	Buellia homophylia	(C.Knight) Zahlbr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Physciaceae		2
NZOR-6-85163	Eutypella citricola	Speg., 1898	species	Fungi	Ascomycota	Sordariomycetes	Xylariales	Diatrypaceae		2
NZOR-6-8578	Xanthoparmelia xanthomelaena	(MÃ¼ll.Arg.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-98323	Phaeohelotium undulatum	Baral, R. Galan & R. Tena	species	Fungi	Ascomycota	Leotiomycetes	Helotiales	Helotiaceae		2
https://biodiversity.org.au/afd/taxa/00ca4509-b346-4749-aff4-cf5e16c9a7e9	Hesperoedura reticulata	(Bustard, 1969)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Reticulated Velvet Gecko	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/011a81cd-6cc5-4c51-8106-2a5dda16a9d1	Megachile (Chalicodomoides) aethiops	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		2
https://biodiversity.org.au/afd/taxa/031eb198-85f9-48a8-824e-5d370df8c3ea	Casbia rectaria	Walker, 1866	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/04c593e5-86aa-41ea-ba76-38d9576ca6ae	Gerres subfasciatus	Cuvier, 1830	species	Animalia	Chordata	Actinopterygii	Perciformes	Gerreidae	Common Silverbiddy	2
https://biodiversity.org.au/afd/taxa/057d6fe4-d2ea-40f7-8b90-4e0f9e7ff665	Coptotermes acinaciformis	(Froggatt, 1898)	species	Animalia	Arthropoda	Insecta	Blattodea	Rhinotermitidae	Subterranean Termite	2
https://biodiversity.org.au/afd/taxa/07dd3637-6c43-4a94-a983-7c4a2d86fdf8	Apiomorpha munita	(Schrader, 1863)	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae	Felt Scale Insect	2
https://biodiversity.org.au/afd/taxa/09cf0906-bf05-4678-a652-d38b7657c2fe	Pheidole antipodum	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/0b488763-6bba-4502-8cc9-364cb97319ad	Hypobapta tachyhalotaria	Hausmann, Sommerer, Rougerie & Hebert, 2009	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/0c2a87a0-37ec-4fdc-82dd-95809b933370	Calochrysa extranea	(Esben-Petersen, 1917)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		2
https://biodiversity.org.au/afd/taxa/0e647393-fbcb-470a-994f-068aebecfceb	Rostratula australis	(Gould, 1838)	species	Animalia	Chordata	Aves	Charadriiformes	Rostratulidae	Australian Painted Snipe	2
https://biodiversity.org.au/afd/taxa/0f93e4c0-5239-42d4-934e-33699fe81774	Anischys luteovarius	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Acanthosomatidae	Shield Bug	2
https://biodiversity.org.au/afd/taxa/0feb2ee4-75fe-4a58-9a70-520b489a38ae	Ischnochiton (Autochiton) virgatus	(Reeve, 1848)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		2
https://biodiversity.org.au/afd/taxa/10291c9b-8838-4814-82df-621a6e24ca3e	Artoriopsis eccentrica	Framenau, 2007	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	2
https://biodiversity.org.au/afd/taxa/115dba46-0725-4c43-b1a9-826353ec5a20	Sphex cognatus	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		2
https://biodiversity.org.au/afd/taxa/124663d8-5fcb-41c7-a1a1-7684666d45dd	Perga schiodtei	Westwood, 1880	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae		2
https://biodiversity.org.au/afd/taxa/125b31ca-2272-4354-96a5-9378c94e1e4a	Maratus michaelseni	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/132c56b5-d6e7-414d-9d11-76a9a1153543	Mutusca brevicornis	(Dallas, 1852)	species	Animalia	Arthropoda	Insecta	Hemiptera	Alydidae	Broad-headed Bug	2
https://biodiversity.org.au/afd/taxa/14498669-20db-425e-a1ae-0b216004acd7	Ischnochiton (Ischnochiton) elongatus	(Blainville, 1825)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		2
https://biodiversity.org.au/afd/taxa/1462cee2-d70e-490a-828f-c096d633943e	Psychopsis mimica	Newman, 1842	species	Animalia	Arthropoda	Insecta	Neuroptera	Psychopsidae		2
https://biodiversity.org.au/afd/taxa/1494e01c-a2ab-47d4-92fc-9dbdcb053016	Paropsis geographica	Baly, 1866	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/16ac4ef9-4b82-486f-8f77-61d9135c1f54	Eupeodes (Macrosyrphus) confrater	(Wiedemann, 1830)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		2
https://biodiversity.org.au/afd/taxa/16df7f9d-0926-434b-ba7d-527fb517850f	Euryglossina (Euryglossina) lynettae	(Rayment, 1955)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/175f8ced-fb8e-46f1-939a-16657169f7b9	Scopula sublinearia	(Walker, 1866)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/18ce1fc8-3045-4136-8a45-f5c94d2ef96f	Acanthopagrus butcheri	(Munro, 1949)	species	Animalia	Chordata	Actinopterygii	Perciformes	Sparidae	Black Bream	2
https://biodiversity.org.au/afd/taxa/1a6bc12f-2692-4b5d-a743-9f6488ff6993	Alcaeus lignicolor	Walker, 1867	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	2
https://biodiversity.org.au/afd/taxa/1af2276a-f00a-4985-8af9-1e6595aca0ed	Nephila pilipes	(Fabricius, 1793)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Giant Wood-spider	2
https://biodiversity.org.au/afd/taxa/1b2b899d-fb07-42ca-89d1-df1dead540b4	Polyzosteria cuprea	Saussure, 1863	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/1d662d0e-95ed-4fbc-8c17-be793e3d300f	Cygnus olor	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Mute Swan	2
https://biodiversity.org.au/afd/taxa/1e3e13fa-ae40-4962-bf58-7c110e98e12b	Nyllius asperatus	StÃ¥l, 1859	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae		2
https://biodiversity.org.au/afd/taxa/1f1634bf-7fe5-4198-b6c4-d1e449578690	Pelororhinus crassus	Blackburn, 1892	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Horse-nosed Weevil	2
https://biodiversity.org.au/afd/taxa/20366a2e-d1dd-4a72-9c4a-574b72ce1333	Hortophora transmarina	(Keyserling, 1865)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/208f08d6-08c1-4a4f-bff3-23407f094174	Nisista notodontaria	Walker, 1860	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/215e78cc-1a38-42eb-b2be-10f384551158	Unixenus attemsi	Nguyen Duy-Jacquemin & CondÃ©, 1967	species	Animalia	Arthropoda	Diplopoda	Polyxenida	Polyxenidae		2
https://biodiversity.org.au/afd/taxa/21d77c3f-e18a-4d8b-ae77-2cc3d0a9d6e9	Masasteron mas	(JocquÃ©, 1991)	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae	Ant Spider	2
https://biodiversity.org.au/afd/taxa/22c519a0-6ada-4589-b4a2-e99dfe0e59d8	Ctenoplusia albostriata	(Bremer & Grey, 1853)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae		2
https://biodiversity.org.au/afd/taxa/24c21411-d78c-415d-a848-f0abb83b615a	Platalea (Platalea) regia	Gould, 1838	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Royal Spoonbill	2
https://biodiversity.org.au/afd/taxa/24c67cec-7ed0-475f-8106-7de443f2a059	Melobasis sexplagiata	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/267a88c1-c1e2-498c-bbfb-47f6fc6956bb	Colobopsis gasseri	(Forel, 1894)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/2750f911-a2ef-44ab-a726-c12298cfaacc	Antiporus hollingsworthi	Watts, 1997	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae		2
https://biodiversity.org.au/afd/taxa/27654b34-2642-47a3-b70e-9ae7ba37a857	Chalinolobus morio	(J.E. Gray, 1841)	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Chocolate Wattled Bat	2
https://biodiversity.org.au/afd/taxa/2803a6a4-1911-4441-be94-c7c30505e44e	Pomatostomus (Morganornis) superciliosus	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Pomatostomidae	White-browed Babbler	2
https://biodiversity.org.au/afd/taxa/28b4606f-1d98-4d0b-bd95-5d100792fd91	Williamsita manifestata	(Turner, 1915)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		2
https://biodiversity.org.au/afd/taxa/29dadb84-8bde-410f-a621-838468de471d	Ligyra cingulata	(Wulp, 1885)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		2
https://biodiversity.org.au/afd/taxa/29e7a46f-f067-4a43-aecf-8a164fac3e4e	Brachyurophis fasciolatus	(GÃ¼nther, 1872)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Narrow-banded Shovel-nosed Snake	2
https://biodiversity.org.au/afd/taxa/2b04f62e-59c0-44e7-92a9-605efc204ba7	Monoctenia smerintharia	Felder & Rogenhofer, 1875	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Dark Leaf Moth	2
https://biodiversity.org.au/afd/taxa/2b5a549b-91f5-4f3b-b95a-5a95f9864194	Theristria rieki	Lambkin, 1986	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		2
https://biodiversity.org.au/afd/taxa/2c57687d-234e-4b7c-b557-57773afab1aa	Syllitus tabidus	Pascoe, 1871	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/2c656f7f-76e6-48e9-9d7d-ce94f7fc64b8	Caridina indistincta	Calman, 1926	species	Animalia	Arthropoda	Malacostraca	Decapoda	Atyidae	Freshwater Shrimp	2
https://biodiversity.org.au/afd/taxa/2df0b623-0614-4655-8b03-3ed620603c71	Parapsilocephala frontalis	(KrÃ¶ber, 1912)	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/2e2fc888-ea54-47c1-9b34-45825bc830d0	Siphanta acuta	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Flatidae	Green Planthopper	2
https://biodiversity.org.au/afd/taxa/2eb53c4d-a293-4a33-a1ac-277a385a8bd4	Cuspicona simplex	Walker, 1867	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Green Potato Bug	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/32d826d7-b0df-4969-85f2-29b34a6aadb8	Chrysis impostor	MocsÃ¡ry, 1887	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		2
https://biodiversity.org.au/afd/taxa/33c5fa84-076b-4c8c-bd36-bccc7da67f7b	Trapezites argenteoornatus	(Hewitson, 1868)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Silver-spotted Skipper	2
https://biodiversity.org.au/afd/taxa/340b0c41-f809-48ed-ab11-96324150bb09	Myrmecia tepperi	Emery, 1898	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bucktoothed Bull Ant	2
https://biodiversity.org.au/afd/taxa/34a7d9e6-6841-4bd5-a08c-9b6deff1d5d6	Callipappus farinosus	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Callipappidae		2
https://biodiversity.org.au/afd/taxa/361c724c-0281-4544-81ae-508abeb9647b	Astraeus (Astraeus) flavopictus	Laporte & Gory, 1837	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/362fdb55-25d0-4f22-a4ba-d9f232421d76	Hyles livornicoides	(T.P. Lucas, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Whitelined Hawk Moth	2
https://biodiversity.org.au/afd/taxa/37076260-bbd1-4850-8077-ed2372db1d52	Iridomyrmex chasei	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/37b02e04-e785-4d10-80bc-884778546415	Gonolabis woodwardi	Burr, 1908	species	Animalia	Arthropoda	Insecta	Dermaptera	Anisolabididae		2
https://biodiversity.org.au/afd/taxa/38d46ddf-c4c9-47e9-bc2f-040cad0b8bc7	Ceratitis capitata	(Wiedemann, 1824)	species	Animalia	Arthropoda	Insecta	Diptera	Tephritidae	Medfly	2
https://biodiversity.org.au/afd/taxa/38eed9c6-3461-4f19-9505-5bef5a21606f	Aspidiotus nerii	BouchÃ©, 1833	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae	Ivy Scale	2
https://biodiversity.org.au/afd/taxa/390bb87e-bf1b-4261-bdaa-bc8d07db76ce	Lepturidea occidentalis	(Blackburn, 1891)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		2
https://biodiversity.org.au/afd/taxa/39505c08-30cc-4288-9ecd-e6020bb948a1	Cercartetus concinnus	(Gould, 1845)	species	Animalia	Chordata	Mammalia	Diprotodontia	Burramyidae	Western Pygmy-possum	2
https://biodiversity.org.au/afd/taxa/39c742b1-995e-42ae-b23b-8d318c99b1cf	Oenochroma pallida	Warren, 1898	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/39d10a65-b06e-4acd-89f7-eef17edda1af	Porcellionides pruinosus	(Brandt, 1833)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Porcellionidae		2
https://biodiversity.org.au/afd/taxa/39d75a99-00bb-4f61-b828-fee07b2a5ad5	Thynnus pulchralis	Smith, 1859	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		2
https://biodiversity.org.au/afd/taxa/39ef4fbe-9676-4a9f-9330-327a4315b8ac	Dingosa murata	Framenau & Baehr, 2007	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	2
https://biodiversity.org.au/afd/taxa/3c0b1e29-2ac5-4ff2-a6e1-73d368ae2753	Euzosteria lata	Mackerras, 1965	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/3c7d43b8-fd9c-481d-9939-b1ac5b70f4d5	Kapunda troughtoni	(Distant, 1910)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Variable Shield Bug	2
https://biodiversity.org.au/afd/taxa/3c9021e9-5319-42e5-95ea-0a21889de974	Tapeigaster nigricornis	(Macquart, 1851)	species	Animalia	Arthropoda	Insecta	Diptera	Heteromyzidae	Fly	2
https://biodiversity.org.au/afd/taxa/3db50e7b-dd77-4987-afa7-543d077e95ac	Limacus flavus	(Linnaeus, 1758)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae	Yellow Cellar Slug	2
https://biodiversity.org.au/afd/taxa/3e3ceb5b-8ad5-4d46-b238-48b5e8f36bf8	Suta nigriceps	(GÃ¼nther, 1863)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Mitchell's Short-tailed Snake	2
https://biodiversity.org.au/afd/taxa/3e52278d-42f9-44db-9586-82e8267f2f24	Lycosa ariadnae	McKay, 1979	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		2
https://biodiversity.org.au/afd/taxa/3e965e97-4f98-40bd-bb72-efafd9f93e4f	Megachile rufolobata	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		2
https://biodiversity.org.au/afd/taxa/3f6b4cd7-592b-4cc3-aecb-d11642836ad3	Lampona brevipes	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		2
https://biodiversity.org.au/afd/taxa/3f738e26-7d59-4878-8436-ddf94ae0e662	Megachile (Rhodomegachile) deanii	Rayment, 1935	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		2
https://biodiversity.org.au/afd/taxa/40de4fe8-f73c-47e4-a982-25b24437ee5d	Sphex formosellus	van der Vecht, 1957	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		2
https://biodiversity.org.au/afd/taxa/43600036-0bfd-4cf9-bb16-c6b28fdbb377	Myrmecia urens	Lowne, 1865	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Baby Bull Ant	2
https://biodiversity.org.au/afd/taxa/45506d3a-f0a9-42d4-8b0f-3af63ebf22a1	Nysius vinitor	Bergroth, 1891	species	Animalia	Arthropoda	Insecta	Hemiptera	Lygaeidae	Rutherglen Bug	2
https://biodiversity.org.au/afd/taxa/458318db-a0c0-4e3c-94d8-53039c5f3ba6	Nanexila armeniacum	Winterton & Irwin, 1999	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/460f5b70-28df-4f40-b120-bdc61b08990a	Mecyclothorax (Mecyclothorax) punctipennis	(Macleay, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		2
https://biodiversity.org.au/afd/taxa/46306d30-cfa1-4528-906b-cae2e9c5c0e8	Vanellus (Lobipluvia) miles	(Boddaert, 1783)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Masked Lapwing	2
https://biodiversity.org.au/afd/taxa/46b7236e-c41f-4148-847b-31e64fc5c789	Milvus migrans	(Boddaert, 1783)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Black Kite	2
https://biodiversity.org.au/afd/taxa/46d5eed0-3d80-4d46-9114-3ad170982193	Pseudosuccinea columella	(Say, 1817)	species	Animalia	Mollusca	Gastropoda		Lymnaeidae	Striated Pond Snail	2
https://biodiversity.org.au/afd/taxa/4750c68e-007d-4ded-ba91-c87fd4a751fe	Withius piger	(Simon, 1878)	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Withiidae		2
https://biodiversity.org.au/afd/taxa/47da66c3-9b6f-405e-8d7e-6a98183dc1b1	Melanozosteria subinclusa	(Princis, 1966)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/486655ac-9826-4629-8d86-bb7de0e9fc3c	Acupalpa dolichorhyncha	Winterton, 2011	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/49a31f74-a891-4f2a-a301-48909305ec68	Eleale reichei	(Spinola, 1844)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		2
https://biodiversity.org.au/afd/taxa/4a54a9d8-b2fe-4885-868c-c0be9e812d3b	Monomorium fieldi	Forel, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Little Black Mono Ant	2
https://biodiversity.org.au/afd/taxa/4ce54a4c-1e96-47fc-bf00-95b2740388f3	Hydroptila losida	Mosely, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	2
https://biodiversity.org.au/afd/taxa/4d1ac502-b2dd-42d6-8594-9b4bdd8b031e	Paralastor occidentalis	Perkins, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		2
https://biodiversity.org.au/afd/taxa/4d4bffe8-6ebf-456a-afc7-4bf3b925a8cb	Parascolaimus brevisetus	Hourston & Warwick, 2011	species	Animalia	Nematoda	Chromadorea	Monhysterida	Axonolaimidae		2
https://biodiversity.org.au/afd/taxa/4d9e0149-ff93-4808-ae26-d1506c3b0d28	Dinophalus bathrosema	(Prout, 1911)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/4e6444ca-82b4-43f3-acea-0cc2e1edef4c	Aleyrodes proletella	(Linneaus, 1758)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aleyrodidae	Whitefly	2
https://biodiversity.org.au/afd/taxa/4e854a33-0826-4ef0-86a2-a9d996453002	Taenogerella nigrapicalis	(Mann, 1928)	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae	Stiletto Fly	2
https://biodiversity.org.au/afd/taxa/4eeb2e0b-c08a-4fc5-8956-6830f70cab38	Hesperilla donnysa	Hewitson, 1868	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Varied Sedge-skipper	2
https://biodiversity.org.au/afd/taxa/4f327985-3668-4c66-8fd5-67f291918126	Tharpyna campestrata	L. Koch, 1874	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	2
https://biodiversity.org.au/afd/taxa/4f5ab623-d62d-4df2-9cad-05a3857a5988	Etiella chrysoporella	Meyrick, 1879	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	2
https://biodiversity.org.au/afd/taxa/5062fed7-5347-4632-8e96-15e2e31fa5aa	Rhytidoponera foveolata	Crawley, 1925	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/5093c51f-d856-459c-ac0b-bd72f39eeaca	Geotria australis	Gray, 1851	species	Animalia	Chordata		Petromyzontiformes	Geotriidae	Pouch Lamprey	2
https://biodiversity.org.au/afd/taxa/51d984c5-2c66-4914-9b86-dd219c858560	Amblyomma fimbriatum	Koch, 1844	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		2
https://biodiversity.org.au/afd/taxa/5230b25e-16cb-4800-9548-0319899ea233	Notonecta (Enitharonecta) handlirschi	Kirkaldy, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Notonectidae	Backswimmer	2
https://biodiversity.org.au/afd/taxa/52f4272d-6d31-4bee-bc8a-bc658e0030eb	Tiracerus bipartitus	(Raffray, 1900)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/56720da5-179b-47fa-bf5c-30d87d8384ed	Austronomus australis	(J.E. Gray, 1838)	species	Animalia	Chordata	Mammalia	Chiroptera	Molossidae	White-striped Freetail-bat	2
https://biodiversity.org.au/afd/taxa/570290dc-c175-46d0-9c5c-7446068cb01e	Parathelandros maini	Inglis, 1968	species	Animalia	Nematoda	Chromadorea	Spirurida	Pharyngodonidae		2
https://biodiversity.org.au/afd/taxa/59c2b9e3-61d6-4b9a-aa7f-11ea63821870	Hellyethira malleoforma	Wells, 1979	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	2
https://biodiversity.org.au/afd/taxa/59e82e98-687a-4498-95d0-6d45d42a14ac	Camponotus rufus	Crawley, 1925	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/5aa24b0f-1c97-4bb0-b8c5-a0696a796d7d	Rubria informis	(Kirkaldy, 1906)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	2
https://biodiversity.org.au/afd/taxa/5acf09e2-44c5-4a7b-9d8b-4e285110dca2	Callomelitta antipodes	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/5c372f0e-d257-4cdb-b558-f1383c53c3ee	Ardenna pacifica	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Procellariiformes	Procellariidae	Wedge-tailed Shearwater	2
https://biodiversity.org.au/afd/taxa/5cc13781-b672-463e-909b-909a8813f915	Temognatha bruckii	(Thomson, 1878)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/5ce40890-05fd-4f55-a62d-872d5cdf7567	Dicranolaius bellulus	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Melyridae	Red And Blue Beetle	2
https://biodiversity.org.au/afd/taxa/5cec64e4-8896-4473-9d46-f4ab08237c22	Cuspicona cygniterrae	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		2
https://biodiversity.org.au/afd/taxa/5cff3e97-ac5d-40cf-9b4c-d1d248b1c439	Araneus eburneiventris	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/5e01cb65-7243-4988-b0f9-461af9fc8d0a	Nabis (Tropiconabis) kinbergii	Reuter, 1872	species	Animalia	Arthropoda	Insecta	Hemiptera	Nabidae	Pacific Damsel Bug	2
https://biodiversity.org.au/afd/taxa/5e0ef3d9-24f1-4769-8bc7-5c0e249aee74	Dictyotus caenosus	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Brown Shield Bug	2
https://biodiversity.org.au/afd/taxa/5f6bc245-a9c9-4310-a27b-65355262299b	Aedes (Ochlerotatus) vigilax	(Skuse, 1889)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Black Bush-mosquito	2
https://biodiversity.org.au/afd/taxa/620d2713-5d09-4770-b6ab-1cf52145e6c2	Rhinotia melanocephala	(Boheman, 1839)	species	Animalia	Arthropoda	Insecta	Coleoptera	Belidae		2
https://biodiversity.org.au/afd/taxa/6241dbfb-be39-489c-871b-d015710a8e94	Isala palliolata	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		2
https://biodiversity.org.au/afd/taxa/64680109-7a87-4e1c-870b-2ef54d359de0	Anabarhynchus spinosus	Lyneborg, 2001	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/64bbd521-e1ad-4768-9c40-bce5f6630095	Heterotermes platycephalus	Froggatt, 1897	species	Animalia	Arthropoda	Insecta	Blattodea	Rhinotermitidae		2
https://biodiversity.org.au/afd/taxa/64c70778-de1a-45ad-a1e3-4e1a3c7efc5f	Phaulacridium vittatum	(SjÃ¶stedt, 1920)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Wingless Grasshopper	2
https://biodiversity.org.au/afd/taxa/65010c48-3882-4bbc-be99-6b3e286f1b96	Urocentrum turbo	MÃ¼ller, 1786	species	Protista	Ciliophora	Oligohymenophorea	Peniculida	Urocentridae		2
https://biodiversity.org.au/afd/taxa/66e5e0cc-bbcb-41cd-8cf2-859d6310eb30	Diphucrania tyrrhena	(Carter, 1923)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/67515890-92af-4c56-9349-ab5fc58aef78	Noongara issoides	(Distant, 1905)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		2
https://biodiversity.org.au/afd/taxa/6867e3d4-e6c7-4c6c-928a-b32f5f905c96	Paropsisterna decolorata	(Chapuis, 1877)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/68942162-d312-4934-b633-aee95c166e00	Neophoca cinerea	(PÃ©ron, 1816)	species	Animalia	Chordata	Mammalia	Carnivora	Otariidae	Australian Sea-lion	2
https://biodiversity.org.au/afd/taxa/694a8fde-c6b1-4947-bae1-801541614999	Circus assimilis	Jardine & Selby, 1828	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Spotted Harrier	2
https://biodiversity.org.au/afd/taxa/6995f7a1-f7ba-4a9a-8293-b72d85328f6c	Malurus (Leggeornis) pulcherrimus	Gould, 1844	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Blue-breasted Fairy-wren	2
https://biodiversity.org.au/afd/taxa/69a82c67-5b1a-4411-9fde-f6625bf2dcbd	Meranoplus oceanicus	Smith, 1862	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/6a6c553c-0a70-4a44-8cca-a80b30e27e08	Lioponera clarus	(Clark, 1930)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/6a7fcc1a-2447-411a-97b1-648432872683	Astenus (Astenus) indicus	(Kraatz, 1859)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2
https://biodiversity.org.au/afd/taxa/6b57c1e7-5996-46e2-a21c-c6edbdc1a8ed	Ardozyga catarrhacta	(Meyrick, 1904)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gelechiidae		2
https://biodiversity.org.au/afd/taxa/7343b302-c8f0-42e2-b7f5-e4a26042ba48	Amarinus laevis	(Targioni Tozzetti, 1877)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Hymenosomatidae	Estuarine Spider Crab	2
https://biodiversity.org.au/afd/taxa/7361418f-6c31-47c3-9975-171c924b37e8	Icerya acaciae	(Morrison & Morrison, 1923)	species	Animalia	Arthropoda	Insecta	Hemiptera	Monophlebidae		2
https://biodiversity.org.au/afd/taxa/737198bf-0ca6-43e1-a428-f9e0f257f5c3	Chalcites osculans	Gould, 1847	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Black-eared Cuckoo	2
https://biodiversity.org.au/afd/taxa/741d7a82-42fa-4e10-9983-b972f7bc2963	Cleobora mellyi	(Mulsant, 1850)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Southern Ladybird	2
https://biodiversity.org.au/afd/taxa/7461ad03-4c20-485f-b0f2-b90f8ed8257a	Xederra squamiger	Ander, 1938	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		2
https://biodiversity.org.au/afd/taxa/747b1f24-ddf5-438a-ac5e-b174c30a64e2	Myrmecia nigriceps	Mayr, 1862	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bullant	2
https://biodiversity.org.au/afd/taxa/74d644fd-a8c9-4d49-9c91-978b6de7797c	Ixodes fecialis	Warburton & Nuttall, 1909	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		2
https://biodiversity.org.au/afd/taxa/74eab0f4-2fce-4374-b772-2965eb7fcc94	Dolophones conifera	(Keyserling, 1886)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/7641c494-49bb-49e8-b2ee-89e4fe430a3f	Litoria infrafrenata	(GÃ¼nther, 1867)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	White-lipped Tree Frog	2
https://biodiversity.org.au/afd/taxa/76da646c-b4af-4438-be45-19fb1902bff6	Ischnochiton (Ischnochiton) lineolatus	(Blainville, 1825)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		2
https://biodiversity.org.au/afd/taxa/79066b7d-cc60-4665-b1ce-fbacbd95a2ae	Iridomyrmex discors	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/797fbfbd-a7e1-4ac7-a030-540caf6f29b2	Drosophila (Sophophora) melanogaster	Meigen, 1830	species	Animalia	Arthropoda	Insecta	Diptera	Drosophilidae		2
https://biodiversity.org.au/afd/taxa/7a4fca39-a032-4f13-8764-d39911ca72a5	Macrobrachium australiense	Holthuis, 1950	species	Animalia	Arthropoda	Malacostraca	Decapoda	Palaemonidae	Freshwater Prawn	2
https://biodiversity.org.au/afd/taxa/7c1392ff-c0bc-43b8-87a5-889f43887b43	Sericophorus relucens	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	2
https://biodiversity.org.au/afd/taxa/7dddc8c7-cbc2-4f5f-878b-2136873a5f89	Horistothrips australiae	Morgan, 1913	species	Animalia	Arthropoda	Insecta	Thysanoptera	Phlaeothripidae		2
https://biodiversity.org.au/afd/taxa/7f6e1013-9cb4-403d-a913-0e2cb0913d60	Iridomyrmex mjobergi	Forel, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/7fe9fdf6-a0d6-46d4-8a33-ccc0a3c11074	Labiobulura (Labiobulura) inglisi	(Mawson, 1960)	species	Animalia	Nematoda	Chromadorea	Spirurida	Subuluridae		2
https://biodiversity.org.au/afd/taxa/80a78c62-166b-4fa4-897b-aede8aeacb66	Pungalina albobarbata	(L. Koch, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/810174f7-a7ce-4844-9b66-23c4d6148fd3	Iridomyrmex bicknelli	Emery, 1898	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Black Trail Ant	2
https://biodiversity.org.au/afd/taxa/821d1856-e616-43d3-9a05-46d3b7d5695c	Dolichoderus clusor	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/824f963d-e953-410a-806b-b9a27f3d29af	Myandra cambridgei	Simon, 1887	species	Animalia	Arthropoda	Arachnida	Araneae	Prodidomidae	Long-spinneret Ground Spider	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/84b2e7c5-484a-432b-8653-3be1ea41eae1	Temognatha secularis	(Thomson, 1857)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/84e61fe7-0965-4673-871f-14dc25f48f7e	Agathodes ostentalis	(Geyer, 1837)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		2
https://biodiversity.org.au/afd/taxa/864ada43-ba7c-452f-9851-ad6ccb5fb1c8	Platycephalus westraliae	(Whitley, 1938)	species	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae		2
https://biodiversity.org.au/afd/taxa/87d165e8-aad1-419d-a6b4-244105bb5981	Amorbus alternatus	Dallas, 1852	species	Animalia	Arthropoda	Insecta	Hemiptera	Coreidae	Leaf-footed Bug	2
https://biodiversity.org.au/afd/taxa/87f4e8aa-7338-4510-9c60-1e13073f364a	Blattella germanica	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattellidae	German Cockroach	2
https://biodiversity.org.au/afd/taxa/8824ca8e-a555-4578-b112-fb74339074d3	Oxyopes variabilis	L. Koch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae		2
https://biodiversity.org.au/afd/taxa/8959ac58-6dcc-438c-ac61-01302af030ce	Diphucrania speciosa	(Barker, 2001)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/8966347d-9290-4bc2-a624-959b625faa2c	Piezodorus oceanicus	(Montrouzier, 1864)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	2
https://biodiversity.org.au/afd/taxa/89aa5df3-6df7-4a7c-9207-910563d816b6	Idiodes idiocrossa	(Turner, 1947)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/89b97b17-6abc-4a49-99dd-8ee7c36d6f9c	Eroschema atricolle	Pascoe, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/8ab87508-1f4e-45b9-af9e-89dacaa35195	Italochrysa insignis	(Walker, 1853)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		2
https://biodiversity.org.au/afd/taxa/8b055877-14a0-4c33-bdde-8ff84d385ca5	Tepperia brachychitonis	Marshall, 1936	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/8bef4266-f6d3-4432-801e-0641e9022453	Synothele harveyi	Churchill & Raven, 1994	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		2
https://biodiversity.org.au/afd/taxa/8c14795a-1a73-4261-8a29-15f7696426b4	Helea subseriata	(Blackburn, 1899)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		2
https://biodiversity.org.au/afd/taxa/8ee25988-9391-4b92-a152-ac5f3af14e39	Phoracantha acanthocera	(W.S. Macleay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/8ef0e945-0b77-4fdc-ab85-208454f35b8e	Cherax destructor	Clark, 1936	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Common Yabbie	2
https://biodiversity.org.au/afd/taxa/9002dfbf-9018-47e5-aeb1-d2dca8dd23df	Neocuris thoracica	Fairmaire, 1877	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/90faa6db-ce6d-4194-9d00-c008d03764f0	Opisthoncus polyphemus	(L. Koch, 1867)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/928530f2-5eee-492c-a3f1-b9bbec4a45e3	Servaea spinibarbis	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/9383ad39-a679-45ac-9255-e8bdcb5902cb	Compsotropha selenias	Meyrick, 1884	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	2
https://biodiversity.org.au/afd/taxa/939d747c-7709-41fe-b914-8366b6af6bec	Suphalomitus difformis	(McLachlan, 1871)	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae		2
https://biodiversity.org.au/afd/taxa/942a8190-5c3c-4de3-bfed-72eb1ee4ba83	Diaphanops westermanni	Boheman, 1845	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/9458875f-bb0d-472f-8bdd-c89b11fa60e5	Cryptes baccatus	(Maskell, 1892)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coccidae	Wattle Tick Scale	2
https://biodiversity.org.au/afd/taxa/97072b75-111b-4769-8f80-e246c737a311	Socca pustulosa	(Walckenaer, 1842)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/972536c3-d00f-443b-aba5-7821b9d49dcc	Aphantes melanochorda	(Turner, 1919)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/9830b287-00de-4c5a-a72f-811de43fa336	Lucilia cuprina	(Wiedemann, 1830)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae	Australian Sheep Blowfly	2
https://biodiversity.org.au/afd/taxa/9ab8f7bc-49ea-4664-be26-4807057090e3	Hyphesma atromicans	(Cockerell, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/9aeef589-2845-4876-a57b-b62fcbc49275	Charadrius (Charadrius) leschenaultii	Lesson, 1826	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Greater Sand Plover	2
https://biodiversity.org.au/afd/taxa/9c0bd8bd-1d4b-4917-ad6a-6e00811b2c80	Temognatha westwoodii	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/9f7e9c31-be4d-48b7-bcbc-5566bfaf0769	Philonthus (Philonthus) longicornis	Stephens, 1832	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2
https://biodiversity.org.au/afd/taxa/a0c1e061-de48-4b68-ba11-892b38cf0706	Labdia deliciosella	Walker, 1864	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cosmopterigidae	Cosmet Moth	2
https://biodiversity.org.au/afd/taxa/a1496645-d1fd-4349-88b3-c45c05c7fffc	Pseudorhiza haeckelii	Haacke, 1884	species	Animalia	Cnidaria	Scyphozoa	Rhizostomeae	Lychnorhizidae		2
https://biodiversity.org.au/afd/taxa/a203fcd1-2e58-4e58-99ab-c7d4fd36626f	Eutittha mordax	(L. Koch, 1866)	species	Animalia	Arthropoda	Arachnida	Araneae	Cheiracanthiidae	Yellow Nightstalking Sac Spider	2
https://biodiversity.org.au/afd/taxa/a46d03ea-8754-4916-b3d6-cd5a1ca8501e	Sphenophorus brunnipennis	(Germar, 1824)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	La Plata Weevil	2
https://biodiversity.org.au/afd/taxa/a50e3e8b-7f1b-493a-95f9-91bee9056977	Corgatha pleuroplaca	Turner, 1936	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		2
https://biodiversity.org.au/afd/taxa/a5b1896e-ef50-4571-ac94-7c1f1c031049	Calidris (Erolia) melanotos	(Vieillot, 1819)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Pectoral Sandpiper	2
https://biodiversity.org.au/afd/taxa/a64e9ee1-50a2-4033-8d5e-7d33cf4d1ae9	Diphucrania rubicunda	(Kerremans, 1898)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/a7aae644-2be2-4949-b8c2-28d40fbf2a4f	Eleale aulicodes	Gorham, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		2
https://biodiversity.org.au/afd/taxa/a81d7ce8-2bc0-40e5-a142-9fb8ee2554a2	Rhytidoponera punctata	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/ac7082cd-3cea-42c5-8d99-e418abcf5c95	Melobasis rubromarginata	Saunders, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/af095c94-cfb2-486d-981b-73610327aa82	Oxytelus sculptus	Gravenhorst, 1806	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2
https://biodiversity.org.au/afd/taxa/b0321d70-51a9-4edc-813f-0c133923a843	Cymbacha ocellata	L. Koch, 1874	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	2
https://biodiversity.org.au/afd/taxa/b0ab734d-9131-44f0-a12e-602cc0ef8c1a	Theristria smithersi	Lambkin, 1986	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		2
https://biodiversity.org.au/afd/taxa/b3629a6d-7a14-4c4e-8abc-6a3d4909bb29	Monacanthus chinensis	(Osbeck, 1765)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	Fanbelly Leatherjacket	2
https://biodiversity.org.au/afd/taxa/b52c2f49-9912-4a13-910b-ea8a3e61f6b9	Megaporus howittii	(Clark, 1862)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	2
https://biodiversity.org.au/afd/taxa/b6c58fd5-7e06-4605-b9c6-adcc4f5e81ef	Lipotriches (Austronomia) purnongensis	(Cockerell, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		2
https://biodiversity.org.au/afd/taxa/b801fe91-4646-40c9-aa27-4dc4b7ed2c70	Pachyprosopis (Parapachyprosopis) eucyrta	Exley, 1972	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		2
https://biodiversity.org.au/afd/taxa/b8775f30-7c2a-4bfc-a433-a4f0a5070be3	Eurhopalus ocellifer	(Blackburn, 1891)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae		2
https://biodiversity.org.au/afd/taxa/b91c0efd-df7b-48f6-b070-51d88166b3de	Brachyponera lutea	(Mayr, 1862)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/b92cbe4c-891e-4a1e-a24d-9a42f0dcafaf	Carneodon pecuarius	(Reiche, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/b9c1f0aa-3238-4d12-ab8a-85f2ba3e2978	Diplocotes carinaticeps	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		2
https://biodiversity.org.au/afd/taxa/b9ed5948-d9de-4acc-8ed6-2067bfae7888	Austrokatanga monteithi	Weirauch, Rabitsch & Redei, 2009	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae		2
https://biodiversity.org.au/afd/taxa/ba47071e-2b75-4ebe-ab47-d373ac00bf9f	Cubicorhynchus spinicollis	Macleay, 1866	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/bb9ca04b-020d-4e1d-a71b-ccf52e57e6ae	Euchaetis inceptella	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	2
https://biodiversity.org.au/afd/taxa/bcc33691-4468-4aa8-90dc-ccd04e3ffb80	Pelororhinus stellio	(Pascoe, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/bd058cad-e107-405d-bdb6-3454d51e0d20	Chelmonops curiosus	Kuiter, 1986	species	Animalia	Chordata	Actinopterygii	Perciformes	Chaetodontidae	Western Talma	2
https://biodiversity.org.au/afd/taxa/bdee5510-0759-439e-9280-ac29a737a8b9	Eucyrtops latior	(O.P.-Cambridge, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		2
https://biodiversity.org.au/afd/taxa/bf079286-4589-4065-90df-d7f05340bc0c	Peltoschema nigroconspersa	(Clark, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/bf279c0c-e132-4ab7-a723-9173126b38a6	Anilara longicollis	ThÃ©ry, 1911	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/c1e020d1-7bfd-49dd-accd-e0ba4eb1a834	Macrothynnus insignis	(Smith, 1959)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		2
https://biodiversity.org.au/afd/taxa/c3294d20-8bae-4798-a3fe-53b1541e202c	Physeema labyrinthica	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Dune Ticker	2
https://biodiversity.org.au/afd/taxa/c3557641-53e4-4392-84f3-8e95d9f8e971	Auscala flammea	Emery, Emery & Hutchinson, 2020	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		2
https://biodiversity.org.au/afd/taxa/c3a8fb30-7831-47d8-bc37-ececf8bb6e74	Oecetis pechana	Mosely, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	2
https://biodiversity.org.au/afd/taxa/c5729ef4-fa09-40e0-a144-6e0b7e2a6373	Porrostoma rhipidium	(W.S. Macleay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Lycidae	Long-nosed Lycid Beetle	2
https://biodiversity.org.au/afd/taxa/c6094998-5082-45ae-999c-15736f268171	Eupselia hypsichora	Meyrick, 1906	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hypertrophidae		2
https://biodiversity.org.au/afd/taxa/c66de17a-c6af-4dae-91ba-7cebbf6d7868	Lasioglossum (Chilalictus) seminitens	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		2
https://biodiversity.org.au/afd/taxa/cb87bd5c-225d-42e8-8c08-0b97a8e84298	Myrmecia rugosa	Wheeler, 1933	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/ccf1c2b3-f663-4f04-8779-94b18dbd6c6f	Pantala flavescens	(Fabricius, 1798)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Wandering Glider	2
https://biodiversity.org.au/afd/taxa/cd7709bc-ac13-4b4b-b751-1e18f7d2f3b6	Storena formosa	Thorell, 1870	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae	Ant Spider	2
https://biodiversity.org.au/afd/taxa/ce707c69-b21b-478f-94e5-0e8b0fa96528	Euhesma (Euhesma) platyrhina	(Cockerell, 1915)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		2
https://biodiversity.org.au/afd/taxa/cecb7827-4539-45dd-8908-4b85a1e67dbe	Tamopsis perthensis	Baehr & Baehr, 1987	species	Animalia	Arthropoda	Arachnida	Araneae	Hersiliidae		2
https://biodiversity.org.au/afd/taxa/cf59710d-eb5c-4bc9-98a6-f412eb8a5c72	Gotra luctuosa	(BrullÃ©, 1846)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		2
https://biodiversity.org.au/afd/taxa/d057765c-a936-4673-8518-2131e76bf335	Scoparia exhibitalis	Walker, 1866	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		2
https://biodiversity.org.au/afd/taxa/d09a7b97-32cf-43d9-80ab-d73f50820bf1	Homoneura (Homoneura) binotata	Kim, 1994	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae		2
https://biodiversity.org.au/afd/taxa/d109c7fb-b2c3-4e85-8527-026f33be871f	Menemerus bivittatus	(Dufour, 1831)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/d1ac34d1-a098-4a42-9631-53db287b869a	Ctenophorus adelaidensis	(Gray, 1841)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Western Heath Dragon	2
https://biodiversity.org.au/afd/taxa/d2f0de09-cccc-4231-b082-514121d8d64a	Sclerorrhinella granuliceps	Ferguson, 1912	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/d4679f5e-1a5a-4401-805d-00dfcbaf2689	Buciara bipartita	Walker, 1869	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	2
https://biodiversity.org.au/afd/taxa/d542dc24-d4d1-4848-890a-013cb2f46879	Anterhynchium (Epiodynerus) nigrocinctum	(Saussure, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		2
https://biodiversity.org.au/afd/taxa/d5bb2d23-a535-44ba-9e4d-1cbc2255a322	Hyocephalus aprugnus	Bergroth, 1906	species	Animalia	Arthropoda	Insecta	Hemiptera	Hyocephalidae		2
https://biodiversity.org.au/afd/taxa/d7c1de23-5ff9-42b8-88d8-a6f6c23ed2cd	Peraglyphis scepasta	Common, 1963	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		2
https://biodiversity.org.au/afd/taxa/d7d0749b-65e9-4f6b-9a30-9fd146f36515	Papyrius nitidus	(Mayr, 1862)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/d93672a5-4948-4dd2-a978-57ddbfb6908f	Neodialineura bifaria	Winterton, 2009	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/d9d29f79-0c30-4dfd-ab2e-1fffb126ead1	Artema atlanta	Walckenaer, 1837	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae		2
https://biodiversity.org.au/afd/taxa/daf67e3e-e7ab-494b-bfc7-120859f758ed	Ctenaphides maculatus	(Pascoe, 1873)	species	Animalia	Arthropoda	Insecta	Coleoptera	Brentidae		2
https://biodiversity.org.au/afd/taxa/db161d0f-72a7-4986-9348-81231ef8f3b2	Myrmecia swalei	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/dbb25453-ce45-43a0-bea0-e01f1ba3fe90	Bigenditia zuytdorp	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		2
https://biodiversity.org.au/afd/taxa/dc3536ae-17ea-45f8-bdf5-a8d978243f57	Engraulis australis	(White, 1790)	species	Animalia	Chordata	Actinopterygii	Clupeiformes	Engraulidae	Australian Anchovy	2
https://biodiversity.org.au/afd/taxa/df5c846f-14a9-4f0a-93f4-92710cdb4cd7	Pseudocheirus occidentalis	(Thomas, 1888)	species	Animalia	Chordata	Mammalia	Diprotodontia	Pseudocheiridae	Western Ringtail Possum	2
https://biodiversity.org.au/afd/taxa/df91f299-b48d-4c65-9cc6-6f732619d43c	Metallesthes metallescens	(White, 1859)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/e04ebe9b-2cd3-4905-822f-10a115bf29c3	Bothriembryon (Bothriembryon) kendricki	Hill, Johnson & Merrifield, 1983	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		2
https://biodiversity.org.au/afd/taxa/e2671c3e-5a1a-4f5e-8217-47b2f684f2dc	Chlorobapta frontalis	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/e29da430-bf35-402b-8699-bc9aa0400d06	Rastriopes handschini	(Womersley, 1932)	species	Animalia	Arthropoda	Collembola	Symphypleona	Bourletiellidae		2
https://biodiversity.org.au/afd/taxa/e39cb54a-db5b-4994-bd72-5fc825d0dbe9	Gonipterus scutellatus	Gyllenhal, 1833	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Eucalyptus Weevil	2
https://biodiversity.org.au/afd/taxa/e44def65-b785-4ff3-afc0-d7cf0b6c48c0	Atrapsalta dolens	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		2
https://biodiversity.org.au/afd/taxa/e57056d0-fccd-4e65-9704-41d96be7a07c	Sphodropoda tristis	(Saussure, 1871)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		2
https://biodiversity.org.au/afd/taxa/e5fc1964-35c5-4afa-bd0a-737cba2f8fa9	Cherax preissii	(Erichson, 1846)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae		2
https://biodiversity.org.au/afd/taxa/e6c4d416-e95f-4f2e-81e3-395458f034b1	Ciampa arietaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Brown Pasture Looper Moth	2
https://biodiversity.org.au/afd/taxa/e83e7f85-bf56-4d2f-8db3-7c1b0a814645	Apertochrysa edwardsi	(Banks, 1940)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		2
https://biodiversity.org.au/afd/taxa/e9127388-e51c-41bd-88f8-51d3bfaa6773	Melanozosteria morosa	Shelford, 1909	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/e947e093-d0d0-40a5-9433-ca8071b6dcdf	Meomyia fasciculata	(Macquart, 1840)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	2
https://biodiversity.org.au/afd/taxa/e9cc09f0-bfc4-40a1-8b5b-a7f4beb3271d	Neophema (Neophema) pulchella	(Shaw, 1792)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Turquoise Parrot	2
https://biodiversity.org.au/afd/taxa/ea7087ca-2b95-4b8b-bbef-3090be7a9a96	Entometa fervens	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lasiocampidae	Gum Snout Moth	2
https://biodiversity.org.au/afd/taxa/ec282f38-442d-4241-a1c5-1ec6ae739022	Anoplostethus roseus	Blanchard, 1851	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/ec6fe7e0-a195-49b1-8175-769a1937b003	Ctenophorus reticulatus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Western Netted Dragon	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/ec835f12-ad32-4789-af28-44183c852e34	Chortoicetes terminifera	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Australian Plague Locust	2
https://biodiversity.org.au/afd/taxa/ed0c7fe2-1ec2-4c8e-9458-5743c9af06fc	Argyrodes antipodianus	O.P.-Cambridge, 1880	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Dew Drop Spider	2
https://biodiversity.org.au/afd/taxa/eef5517c-7b7b-48f4-bef6-1ada3b4bf32a	Maevius indecorus	StÃ¥l, 1874	species	Animalia	Arthropoda	Insecta	Hemiptera	Hyocephalidae		2
https://biodiversity.org.au/afd/taxa/f0088853-6045-404b-b866-9f4d6bf15015	Glossopsitta concinna	(Shaw, 1791)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Musk Lorikeet	2
https://biodiversity.org.au/afd/taxa/f0ac3396-77cc-46e5-86ec-744ffce298f9	Halotydeus destructor	(Tucker, 1925)	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Penthaleidae	Redlegged Earth Mite	2
https://biodiversity.org.au/afd/taxa/f1914775-1d91-42cb-8bcd-ab63d129846d	Rhytiphora frenchiana	Breuning, 1961	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/f239f36d-803c-4fd9-a1d8-bb1aeae3f75f	Euryglossina (Microdontura) mellea	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/f3053f62-1109-4eaa-94bf-f9f676259f85	Trachyspina mundaring	Platnick, 2002	species	Animalia	Arthropoda	Arachnida	Araneae	Trochanteriidae		2
https://biodiversity.org.au/afd/taxa/f3bdcaa0-602d-40a4-80bb-b6fad4859647	Temognatha mnizechii	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/f6058722-c010-490c-8486-bd95e3332a40	Epyaxa sodaliata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/f85f8549-58b1-4a9a-87da-19e9e499b8a2	Litoria peronii	(Tschudi, 1838)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	Peron's Tree Frog	2
https://biodiversity.org.au/afd/taxa/f86a7bb3-0165-4c78-8e85-9bec266d729c	Euborellia annulipes	(Lucas, 1847)	species	Animalia	Arthropoda	Insecta	Dermaptera	Anisolabididae	Ring-legged Earwig	2
https://biodiversity.org.au/afd/taxa/f938a8f5-efd0-4c40-ad29-9bb9f81a9754	Trichorhachus nitidus	Kirby, 1882	species	Animalia	Arthropoda	Insecta	Hymenoptera	Argidae		2
https://biodiversity.org.au/afd/taxa/f9536f86-e011-4f6c-b065-b87b4d9ffc57	Stilbum cyanurum	(Foerster, 1771)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		2
https://biodiversity.org.au/afd/taxa/fa5bfcff-c89e-4dda-b7ed-1f61bdf0d1ea	Mugil cephalus	Linnaeus, 1758	species	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	Sea Mullet	2
https://biodiversity.org.au/afd/taxa/fab40ec7-0902-4041-8c50-0aed840c326a	Polyphrades laticollis	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/fae5b036-4167-4d6b-8e52-50093bc58a12	Acantholophus transitus	Macleay, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/fb182002-3838-4f64-b056-3f2f8c6ae8f5	Hylaeus (Hylaeorhiza) nubilosus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/fbe268f9-ac0c-4e77-bfbc-c85f58eea3d5	Hyderodes crassus	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	2
https://biodiversity.org.au/afd/taxa/fd91c6f4-1219-4aab-9c0c-667f3b7764e0	Aplopsis lineoligera	Blanchard, 1850	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/ff034710-5f08-4685-a348-ed5f58056118	Thudaca haplonota	Meyrick, 1893	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hypertrophidae		2
https://biodiversity.org.au/afd/taxa/ff25f9cd-f25e-4df6-a38e-5a20a70119b7	Limnochares australica	Lundblad, 1941	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Limnocharidae	Mite	2
https://biodiversity.org.au/afd/taxa/ff60e8fa-d91b-4846-b30c-9070badb8e71	Pelororhinus sulcirostris	(Lea, 1904)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/ffd0b271-5135-4a10-9c76-555669ca7200	Mimaglossa nauplialis	(Walker, 1859)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	2
https://biodiversity.org.au/afd/taxa/ffd5e948-989e-411b-8883-cc0bc05efa42	Oxycarenus (Oxycarenus) luctuosus	(Montrouzier, 1861)	species	Animalia	Arthropoda	Insecta	Hemiptera	Oxycarenidae	Cottonseed Bug	2
https://id.biodiversity.org.au/node/apni/2886078	Leucopogon parviflorus	(Andrews) Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Coast Beard-heath	2
https://id.biodiversity.org.au/node/apni/2886084	Lysimachia minima	(L.) U.Manns & Anderb.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae	Chaffweed	2
https://id.biodiversity.org.au/node/apni/2886103	Melilotus indicus	(L.) All.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sweet Melilot	2
https://id.biodiversity.org.au/node/apni/2886441	Trifolium tomentosum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Woolly Clover	2
https://id.biodiversity.org.au/node/apni/2886608	Isotoma scapigera	(R.Br.) G.Don	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Salt Isotome	2
https://id.biodiversity.org.au/node/apni/2886982	Juncus holoschoenus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Joint-leaf Rush	2
https://id.biodiversity.org.au/node/apni/2887023	Psoralea pinnata	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	African Scurf-pea	2
https://id.biodiversity.org.au/node/apni/2887122	Leucopogon cryptanthus	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Smallflowered Leucopogon	2
https://id.biodiversity.org.au/node/apni/2887223	Adiantum capillus-veneris	L.	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Maidenhair	2
https://id.biodiversity.org.au/node/apni/2887545	Ricinocarpos tuberculatus	MÃ¼ll.Arg.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae		2
https://id.biodiversity.org.au/node/apni/2887615	Hordeum leporinum	Link	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Barley Grass	2
https://id.biodiversity.org.au/node/apni/2887830	Macroptilium atropurpureum	(DC.) Urb.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Siratro	2
https://id.biodiversity.org.au/node/apni/2887949	Malva parviflora	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Small-flower Mallow	2
https://id.biodiversity.org.au/node/apni/2887979	Juncus pauciflorus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Loose-flower Rush	2
https://id.biodiversity.org.au/node/apni/2888637	Malva preissiana	Miq.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Australian Hollyhock	2
https://id.biodiversity.org.au/node/apni/2888654	Stylidium crossocephalum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Posy Triggerplant	2
https://id.biodiversity.org.au/node/apni/2888841	Trifolium hirtum	All.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Rose Clover	2
https://id.biodiversity.org.au/node/apni/2889101	Pimelea rara	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Summer Pimelea	2
https://id.biodiversity.org.au/node/apni/2889415	Dampiera lavandulacea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		2
https://id.biodiversity.org.au/node/apni/2889436	Doryanthes excelsa	Correa	species	Plantae	Charophyta	Equisetopsida	Asparagales	Doryanthaceae	Gymea Lily	2
https://id.biodiversity.org.au/node/apni/2889510	Lepidium didymum	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Lesser Swine's-cress	2
https://id.biodiversity.org.au/node/apni/2889741	Banksia victoriae	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Woolly Orange Banksia	2
https://id.biodiversity.org.au/node/apni/2889999	Austrostipa hemipogon	(Benth.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Half-bearded Spear-grass	2
https://id.biodiversity.org.au/node/apni/2890025	Cyperus involucratus	Rottb.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Umbrella Plant	2
https://id.biodiversity.org.au/node/apni/2890176	Aphelia brizula	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		2
https://id.biodiversity.org.au/node/apni/2890275	Ranunculus colonorum	Endl.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Common Buttercup	2
https://id.biodiversity.org.au/node/apni/2890446	Prunus cerasifera	Ehrh.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Purple-leaf Cherry-plum	2
https://id.biodiversity.org.au/node/apni/2890582	Sida hookeriana	Miq.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2890656	Acacia implexa	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hickory Wattle	2
https://id.biodiversity.org.au/node/apni/2890819	Drosera leucoblasta	Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Wheel Sundew	2
https://id.biodiversity.org.au/node/apni/2890923	Hibbertia lasiopus	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Large Hibbertia	2
https://id.biodiversity.org.au/node/apni/2890991	Loxocarya striata	(F.Muell.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/node/apni/2891131	Boronia spathulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Boronia	2
https://id.biodiversity.org.au/node/apni/2891145	Conospermum glumaceum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Hooded Smokebush	2
https://id.biodiversity.org.au/node/apni/2891195	Senecio vulgaris	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Groundsel	2
https://id.biodiversity.org.au/node/apni/2891241	Homalanthus populifolius	Graham	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Bleeding-heart Tree	2
https://id.biodiversity.org.au/node/apni/2891248	Isolepis prolifera	(Rottb.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Proliferous Club-sedge	2
https://id.biodiversity.org.au/node/apni/2891374	Melaleuca lanceolata	Otto	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Dryland Tea-tree	2
https://id.biodiversity.org.au/node/apni/2891488	Cyperus alterniflorus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Nutgrass	2
https://id.biodiversity.org.au/node/apni/2891611	Ptilotus stirlingii	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		2
https://id.biodiversity.org.au/node/apni/2891835	Bromus diandrus	Roth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Great Brome	2
https://id.biodiversity.org.au/node/apni/2892165	Atriplex semibaccata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Berry Saltbush	2
https://id.biodiversity.org.au/node/apni/2892200	Synaphea decorticans	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2892274	Eryngium sp. Subdecumbens (G.J.Keighery 5390)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		2
https://id.biodiversity.org.au/node/apni/2892384	Hemiandra incana	Bartl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		2
https://id.biodiversity.org.au/node/apni/2892440	Thomasia triphylla	(Labill.) J.Gay	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		2
https://id.biodiversity.org.au/node/apni/2893120	Casuarina glauca	Sieber ex Spreng.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Swamp Oak	2
https://id.biodiversity.org.au/node/apni/2893138	Rhamnus alaternus	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Blowfly Bush	2
https://id.biodiversity.org.au/node/apni/2893199	Acacia benthamii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bentham's Wattle	2
https://id.biodiversity.org.au/node/apni/2893220	Eucalyptus lane-poolei	Maiden	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Salmonbark	2
https://id.biodiversity.org.au/node/apni/2893357	Anthocercis anisantha	Endl.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae		2
https://id.biodiversity.org.au/node/apni/2893457	Senecio quadridentatus	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cotton Groundsel	2
https://id.biodiversity.org.au/node/apni/2893701	Petrophile media	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2893819	Callistachys lanceolata	Vent.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Greenbush	2
https://id.biodiversity.org.au/node/apni/2893822	Calandrinia granulifera	Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Pigmy Purslane	2
https://id.biodiversity.org.au/node/apni/2894047	Persicaria maculosa	Gray	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Slender Knotweed	2
https://id.biodiversity.org.au/node/apni/2894102	Lepidosperma costale	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2894147	Drosera stricticaulis	(Diels) O.H.Sarg.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Erect Sundew	2
https://id.biodiversity.org.au/node/apni/2894152	Tritonia gladiolaris	(Lam.) Goldblatt & J.C.Manning	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Lined Tritonia	2
https://id.biodiversity.org.au/node/apni/2894398	Gahnia decomposita	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2894713	Linum usitatissimum	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Linaceae	Field Flax	2
https://id.biodiversity.org.au/node/apni/2894906	Solidago canadensis	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Golden Rod	2
https://id.biodiversity.org.au/node/apni/2894962	Calandrinia composita	(Nees) Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae		2
https://id.biodiversity.org.au/node/apni/2895029	Scaevola phlebopetala	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Velvet Fanflower	2
https://id.biodiversity.org.au/node/apni/2895169	Leptospermum erubescens	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Roadside Teatree	2
https://id.biodiversity.org.au/node/apni/2895519	Phalaris paradoxa	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Paradox Canary-grass	2
https://id.biodiversity.org.au/node/apni/2895654	Crassula peduncularis	(Sm.) F.Meigen	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Purple Stonecrop	2
https://id.biodiversity.org.au/node/apni/2896463	Andersonia involucrata	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2896484	Rorippa nasturtium-aquaticum	(L.) Hayek	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Watercress	2
https://id.biodiversity.org.au/node/apni/2896596	Actinotus glomeratus	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		2
https://id.biodiversity.org.au/node/apni/2896718	Tetraria australiensis	C.B.Clarke	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2896776	Stellaria media	(L.) Vill.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Chickweed	2
https://id.biodiversity.org.au/node/apni/2896873	Leucopogon australis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Spike Beard-heath	2
https://id.biodiversity.org.au/node/apni/2896896	Opuntia monacantha	Haw.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Drooping Prickly Pear	2
https://id.biodiversity.org.au/node/apni/2896979	Callistemon glaucus	Sweet	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Albany Bottlebrush	2
https://id.biodiversity.org.au/node/apni/2897057	Veronica arvensis	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Wall Speedwell	2
https://id.biodiversity.org.au/node/apni/2897211	Ophioglossum lusitanicum	L.	species	Plantae	Charophyta	Equisetopsida	Ophioglossales	Ophioglossaceae	Austral Adders Tongue	2
https://id.biodiversity.org.au/node/apni/2897452	Leucopogon cymbiformis	A.Cunn. ex DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2897517	Phyllopodium cordatum	(Thunb.) Hilliard	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Cordate-leaved Phyllopodium	2
https://id.biodiversity.org.au/node/apni/2897549	Amaranthus albus	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Stiff Tumbleweed	2
https://id.biodiversity.org.au/node/apni/2897553	Tricostularia exsul	(C.B.Clarke) K.L.Wilson & R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Robust Tricostularia	2
https://id.biodiversity.org.au/node/apni/2897578	Dysphania ambrosioides	(L.) Mosyakin & Clemants	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Mexican Tea	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2897770	Dillwynia dillwynioides	(Meisn.) Druce	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2897908	Enchylaena tomentosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Ruby Saltbush	2
https://id.biodiversity.org.au/node/apni/2898173	Banksia undata	A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2898181	Helianthus annuus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Sunflower	2
https://id.biodiversity.org.au/node/apni/2898294	Utricularia menziesii	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Redcoats	2
https://id.biodiversity.org.au/node/apni/2898669	Ptilotus polystachyus	(Gaudich.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Long Tails	2
https://id.biodiversity.org.au/node/apni/2900247	Frankenia pauciflora	DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Frankeniaceae	Southern Sea-heath	2
https://id.biodiversity.org.au/node/apni/2900267	Acacia incurva	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2900569	Calycopeplus paucifolius	(Klotzsch) Baill.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae		2
https://id.biodiversity.org.au/node/apni/2900645	Aotus gracillima	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2900848	Setaria incrassata	(Hochst.) Hack.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Setaria	2
https://id.biodiversity.org.au/node/apni/2900870	Centranthus macrosiphon	Boiss.	species	Plantae	Charophyta	Equisetopsida	Dipsacales	Caprifoliaceae	Pretty Betsy	2
https://id.biodiversity.org.au/node/apni/2900880	Synaphea petiolaris	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Synaphea	2
https://id.biodiversity.org.au/node/apni/2901160	Acacia myrtifolia	(Sm.) Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Myrtle Wattle	2
https://id.biodiversity.org.au/node/apni/2901412	Trifolium fragiferum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Strawberry Clover	2
https://id.biodiversity.org.au/node/apni/2901414	Anarthria gracilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		2
https://id.biodiversity.org.au/node/apni/2901445	Schoenus griffinianus	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2901489	Stylidium junceum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Reed Triggerplant	2
https://id.biodiversity.org.au/node/apni/2901610	Geranium retrorsum	L'HÃ©r. ex DC.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Grassland Crane's-bill	2
https://id.biodiversity.org.au/node/apni/2901626	Senecio gilbertii	Turcz.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2901930	Stylidium scabridum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Moth Triggerplant	2
https://id.biodiversity.org.au/node/apni/2902036	Utricularia gibba	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Bladderwort	2
https://id.biodiversity.org.au/node/apni/2902050	Melaleuca pauciflora	Turcz.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/node/apni/2902209	Synaphea reticulata	(Sm.) Druce	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2902224	Grevillea maccutcheonii	Keighery & Cranfield	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Mccutcheon's Grevillea	2
https://id.biodiversity.org.au/node/apni/2902241	Noltea africana	(L.) Endl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Noltea	2
https://id.biodiversity.org.au/node/apni/2902272	Marsilea drummondii	A.Braun	species	Plantae	Charophyta	Equisetopsida	Salviniales	Marsileaceae	Clover Fern	2
https://id.biodiversity.org.au/node/apni/2902521	Erymophyllum tenellum	(Turcz.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2902593	Allium ampeloprasum	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae	Great-head Garlic	2
https://id.biodiversity.org.au/node/apni/2902831	Musa acuminata	Colla	species	Plantae	Charophyta	Equisetopsida	Zingiberales	Musaceae	Edible Banana	2
https://id.biodiversity.org.au/node/apni/2902833	Allocasuarina decussata	(Benth.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Karri Oak	2
https://id.biodiversity.org.au/node/apni/2902868	Hibiscus mutabilis	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		2
https://id.biodiversity.org.au/node/apni/2902954	Austrostipa flavescens	(Labill.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Coast Spear-grass	2
https://id.biodiversity.org.au/node/apni/2902984	Cymbalaria muralis	G.Gaertn., B.Mey. & Scherb.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Ivy-leaf Toadflax	2
https://id.biodiversity.org.au/node/apni/2903048	Acacia cochlocarpa	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2903242	Schoenus andrewsii	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2903360	Banksia sphaerocarpa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Fox Banksia	2
https://id.biodiversity.org.au/node/apni/2903406	Cassytha micrantha	Meisn.	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae		2
https://id.biodiversity.org.au/node/apni/2903489	Schoenus odontocarpus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2903527	Nicandra physalodes	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Apple Of Peru	2
https://id.biodiversity.org.au/node/apni/2903560	Cerastium glomeratum	Thuill.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Common Mouse-ear Chickweed	2
https://id.biodiversity.org.au/node/apni/2903561	Solanum linnaeanum	Hepper & P.-M.L.Jaeger	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Apple Of Sodom	2
https://id.biodiversity.org.au/node/apni/2903725	Gastrolobium lehmannii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cranbrook Pea	2
https://id.biodiversity.org.au/node/apni/2903975	Senecio leucoglossus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2904374	Acacia suaveolens	(Sm.) Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sweet Wattle	2
https://id.biodiversity.org.au/node/apni/2904542	Oxalis bowiei	W.T.Aiton ex G.Don	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Bowie Wood-sorrel	2
https://id.biodiversity.org.au/node/apni/2904646	Elatine gratioloides	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Elatinaceae	Waterwort	2
https://id.biodiversity.org.au/node/apni/2904697	Cyanella hyacinthoides	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Tecophilaeaceae		2
https://id.biodiversity.org.au/node/apni/2904795	Chordifex sphacelatus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/node/apni/2905058	Comesperma griffinii	Keighery	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		2
https://id.biodiversity.org.au/node/apni/2905094	Boronia humifusa	Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		2
https://id.biodiversity.org.au/node/apni/2905168	Cassytha aurea	J.Z.Weber	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	2
https://id.biodiversity.org.au/node/apni/2905224	Dampiera pedunculata	Rajput & Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		2
https://id.biodiversity.org.au/node/apni/2905235	Deyeuxia quadriseta	(Labill.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Reed Bent-grass	2
https://id.biodiversity.org.au/node/apni/2905276	Anredera cordifolia	(Ten.) Steenis	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Basellaceae	Madeira Vine	2
https://id.biodiversity.org.au/node/apni/2906501	Gastrolobium polystachyum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2907019	Corrigiola litoralis	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Strapwort	2
https://id.biodiversity.org.au/node/apni/2907149	Pelargonium littorale	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Native Pelargonium	2
https://id.biodiversity.org.au/node/apni/2907151	Crotalaria agatiflora	Schweinf.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2907262	Phyllanthus tenellus	Roxb.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Hen And Chicken	2
https://id.biodiversity.org.au/node/apni/2907347	Chenopodium album	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Fat Hen	2
https://id.biodiversity.org.au/node/apni/2907528	Cryptandra myriantha	Diels	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Western Heath Cryptandra	2
https://id.biodiversity.org.au/node/apni/2907567	Chamaexeros serra	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		2
https://id.biodiversity.org.au/node/apni/2907658	Austrostipa mollis	(R.Br.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Soft Speargrass	2
https://id.biodiversity.org.au/node/apni/2907757	Coreopsis lanceolata	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Tickseed	2
https://id.biodiversity.org.au/node/apni/2907827	Drosera tubaestylis	N.G.Marchant & Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		2
https://id.biodiversity.org.au/node/apni/2907927	Plantago exilis	Decne.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae		2
https://id.biodiversity.org.au/node/apni/2907935	Epilobium ciliatum	Raf.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Glandular Willow-herb	2
https://id.biodiversity.org.au/node/apni/2908016	Phyllangium palustre	(W.Fitzg.) Dunlop	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		2
https://id.biodiversity.org.au/node/apni/2908086	Grevillea paniculata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Kerosene Bush	2
https://id.biodiversity.org.au/node/apni/2908256	Lepidosperma striatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2908422	Avena fatua	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wild Oats	2
https://id.biodiversity.org.au/node/apni/2909230	Xanthosia rotundifolia	DC.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Southern Cross	2
https://id.biodiversity.org.au/node/apni/2909232	Dampiera sericantha	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		2
https://id.biodiversity.org.au/node/apni/2909349	Melaleuca subtrigona	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/node/apni/2909421	Cryptandra scoparia	Reissek	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		2
https://id.biodiversity.org.au/node/apni/2909696	Azolla pinnata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Salviniales	Salviniaceae	Ferny Azolla	2
https://id.biodiversity.org.au/node/apni/2909697	Trifolium repens	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	White Clover	2
https://id.biodiversity.org.au/node/apni/2909736	Grevillea wickhamii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Holly-leaved Grevillea	2
https://id.biodiversity.org.au/node/apni/2909806	Stenopetalum gracile	Bunge	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae		2
https://id.biodiversity.org.au/node/apni/2910167	Papaver somniferum	L.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Papaveraceae	Opium Poppy	2
https://id.biodiversity.org.au/node/apni/2910254	Epilobium hirtigerum	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Hairy Willow-herb	2
https://id.biodiversity.org.au/node/apni/2910309	Cephalosorus carpesioides	(Turcz.) P.S.Short	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2910549	Billardiera variifolia	DC.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		2
https://id.biodiversity.org.au/node/apni/2910578	Sorghum x drummondii	(Nees ex Steud.) Millsp. & Chase	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		2
https://id.biodiversity.org.au/node/apni/2910693	Schoenus discifer	Tate	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tiny Bog-rush	2
https://id.biodiversity.org.au/node/apni/2910698	Poranthera drummondii	Klotzsch	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae		2
https://id.biodiversity.org.au/node/apni/2910812	Bossiaea disticha	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2910954	Stylidium aceratum	Lowrie & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		2
https://id.biodiversity.org.au/node/apni/2910985	Leucopogon strictus	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2911309	Hakea auriculata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2911343	Astroloma serratifolium	(DC.) Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Kondrung	2
https://id.biodiversity.org.au/node/apni/2911607	Rytidosperma pilosum	(R.Br.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Large Velvet Wallaby-grass	2
https://id.biodiversity.org.au/node/apni/2912115	Glischrocaryon angustifolium	(Nees) M.L.Moody & Les	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Golden Pennants	2
https://id.biodiversity.org.au/node/apni/2912670	Amaranthus powellii	S.Watson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Powell's Amaranth	2
https://id.biodiversity.org.au/node/apni/2913147	Andersonia sprengelioides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Sprengelia-like Andersonia	2
https://id.biodiversity.org.au/node/apni/2913336	Rhodanthe pyrethrum	(Steetz) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2913443	Limnobium laevigatum	(Humb. & Bonpl. ex Willd.) Heine	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Amazon Frogbit	2
https://id.biodiversity.org.au/node/apni/2913468	Brachychiton populneus	(Schott & Endl.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Kurrajong	2
https://id.biodiversity.org.au/node/apni/2913640	Bossiaea spinosa	(Turcz.) Domin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2913655	Centrolepis inconspicua	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		2
https://id.biodiversity.org.au/node/apni/2914057	Borya constricta	Churchill	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae		2
https://id.biodiversity.org.au/node/apni/2914150	Leptocarpus laxus	(R.Br.) B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/node/apni/2914375	Cryptandra pungens	Steud.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		2
https://id.biodiversity.org.au/node/apni/2914596	Lachenalia bulbifera	(Cirillo) Engl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Red Lachenalia	2
https://id.biodiversity.org.au/node/apni/2914668	Cycnogeton procerum	(R.Br.) Buchenau	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Common Water-ribbons	2
https://id.biodiversity.org.au/node/apni/2914995	Grevillea pulchella	(R.Br.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Beautiful Grevillea	2
https://id.biodiversity.org.au/node/apni/2915024	Amphibromus nervosus	(Hook.f.) Baill.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Swamp Wallaby Grass	2
https://id.biodiversity.org.au/node/apni/2915203	Acacia baileyana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cootamundra Wattle	2
https://id.biodiversity.org.au/node/apni/2915551	Dysphania glomulifera	(Nees) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Dysphania	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2915852	Amphibromus vickeryae	S.W.L.Jacobs & Lapinpuro	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		2
https://id.biodiversity.org.au/node/apni/2916283	Landoltia punctata	(G.Mey.) Les & D.J.Crawford	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Thin Duckweed	2
https://id.biodiversity.org.au/node/apni/2916328	Schoenus sublateralis	(Steud.) C.B.Clarke	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2916674	Centipeda cunninghamii	(DC.) A.Braun & Asch.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Sneezeweed	2
https://id.biodiversity.org.au/node/apni/2917147	Leptospermum continentale	Joy Thomps.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Prickly Tea-tree	2
https://id.biodiversity.org.au/node/apni/2917718	Leucopogon oxycedrus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2917792	Senecio pinnatifolius	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Variable Groundsel	2
https://id.biodiversity.org.au/node/apni/2918338	Heliophila pusilla	L.f.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Fine Sunflax	2
https://id.biodiversity.org.au/node/apni/2918410	Phytolacca octandra	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Phytolaccaceae	Red-ink Weed	2
https://id.biodiversity.org.au/node/apni/2918462	Marianthus ringens	(Drumm. ex Harv.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		2
https://id.biodiversity.org.au/node/apni/2918471	Carex appressa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tall Sedge	2
https://id.biodiversity.org.au/node/apni/2919007	Cichorium intybus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Chicory	2
https://id.biodiversity.org.au/node/apni/2919152	Salix cinerea	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Salicaceae	Grey Sallow	2
https://id.biodiversity.org.au/node/apni/2919295	Aphelia drummondii	(Hieron.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		2
https://id.biodiversity.org.au/node/apni/2919385	Plantago bellardii	All.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Hairy Plantain	2
https://id.biodiversity.org.au/node/apni/2919582	Hypocalymma xanthopetalum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Myrtle	2
https://id.biodiversity.org.au/node/apni/2919780	Carex tereticaulis	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Poong'ort	2
https://id.biodiversity.org.au/node/apni/2920067	Sporobolus virginicus	(L.) Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Marine Couch	2
https://id.biodiversity.org.au/node/apni/2920314	Vicia benghalensis	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Purple Vetch	2
https://id.biodiversity.org.au/node/apni/2920526	Verbascum virgatum	Stokes	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Twiggy Mullein	2
https://id.biodiversity.org.au/node/apni/2920740	Chamaescilla spiralis	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		2
https://id.biodiversity.org.au/node/apni/2920929	Scaevola striata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Royal Robe	2
https://id.biodiversity.org.au/node/apni/2920956	Passiflora filamentosa	Cav.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Passifloraceae	Palmate Passionflower	2
https://id.biodiversity.org.au/node/apni/2921040	Eucalyptus camaldulensis	Dehnh.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Red Gum	2
https://id.biodiversity.org.au/node/apni/2921234	Melaleuca holosericea	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/node/apni/2921307	Abutilon grandifolium	(Willd.) Sweet	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Hairy Abutilon	2
https://id.biodiversity.org.au/node/apni/7692612	Kunzea ericifolia	(Sm.) Heynh.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spearwood	2
https://id.biodiversity.org.au/node/apni/7742937	Poranthera moorokatta	R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae		2
https://id.biodiversity.org.au/node/apni/7831290	Persoonia sulcata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/8495539	Levenhookia dubia	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Hairy Stylewort	2
https://id.biodiversity.org.au/node/apni/8669896	Stylidium emarginatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Biddy-four-legs	2
https://id.biodiversity.org.au/node/ausmoss/10058457	Archidium rehmannii	Mitt.	species	Plantae	Bryophyta	Bryopsida	Archidiales	Archidiaceae		2
https://id.biodiversity.org.au/node/ausmoss/10063237	Calymperastrum latifolium	(Hampe) I.G.Stone	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae		2
https://id.biodiversity.org.au/node/ausmoss/10079394	Fissidens curvatus	Hornsch.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Portuguese Pocket-moss	2
https://id.biodiversity.org.au/node/ausmoss/10102878	Philonotis tenuis	(Taylor) Reichardt	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae	Apple Moss	2
https://id.biodiversity.org.au/node/ausmoss/10104241	Pleuridium nervosum	(Hook.) Mitt.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Earth Moss	2
https://id.biodiversity.org.au/node/ausmoss/10108619	Racopilum cuspidigerum	(SchwÃ¤gr.) Ã…ngstr.	species	Plantae	Bryophyta	Bryopsida	Hypnodendrales	Racopilaceae	Carpet Moss	2
https://id.biodiversity.org.au/node/ausmoss/10110398	Rosulabryum campylothecium	(Taylor) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Sand Thread-moss	2
https://id.biodiversity.org.au/node/ausmoss/10110448	Rosulabryum capillare	(Hedw.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Capillary Thread-moss	2
https://id.biodiversity.org.au/node/ausmoss/10114913	Syntrichia laevipila	Brid.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Screw Moss	2
https://id.biodiversity.org.au/node/ausmoss/10117982	Tetrapterum cylindricum	(Taylor) A.Jaeger	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Pottia	2
https://id.biodiversity.org.au/node/ausmoss/10119510	Tortula muralis	Hedw.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Common Wall-moss	2
https://id.biodiversity.org.au/node/ausmoss/2888536	Paracromastigum longiscyphum	(Taylor) R.M.Schust. & J.J.Engel	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Lepidoziaceae	Fingerwort	2
https://id.biodiversity.org.au/node/ausmoss/2890163	Fossombronia intestinalis	Taylor	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Bubble Frillwort	2
https://id.biodiversity.org.au/node/ausmoss/2890539	Riccia limbata	Bisch.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Black-border Crystalwort	2
https://id.biodiversity.org.au/node/ausmoss/2893336	Fossombronia altilamellosa	G.A.M.Scott & D.C.Pike ex Cargill	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Crimson Frillwort	2
https://id.biodiversity.org.au/node/ausmoss/2903860	Fossombronia wattsii	Steph.	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Frillwort	2
https://id.biodiversity.org.au/node/ausmoss/2917625	Riccia sorocarpa	Bisch.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Fleur-de-lys Crystalwort	2
https://id.biodiversity.org.au/node/fungi/60092335	Amanita ochroterrea	Gentilli ex Bas	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		2
https://id.biodiversity.org.au/node/fungi/60092361	Amanita preissii	(Fr.) Sacc.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae	Cinnamon-ring Lepidella	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/fungi/60092449	Amanita wadjukiorum	E.M.Davison	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		2
https://id.biodiversity.org.au/node/fungi/60092503	Bolbitius titubans	(Bull.) Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Bolbitiaceae		2
https://id.biodiversity.org.au/node/fungi/60092723	Cortinarius archeri	Berk.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		2
https://id.biodiversity.org.au/node/fungi/60095471	Hebeloma aminophilum	R.N.Hilton & O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		2
https://id.biodiversity.org.au/node/fungi/60097563	Coltricia cinnamomea	(Jacq.) Murrill	species	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Hymenochaetaceae		2
https://id.biodiversity.org.au/node/fungi/60097863	Rickenella fibula	(Bull.) Raithelh.	species	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Repetobasidiaceae		2
https://id.biodiversity.org.au/node/fungi/60098029	Fomitopsis lilacinogilva	(Berk.) J.E.Wright & J.R.Deschamps	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Fomitopsidaceae		2
https://id.biodiversity.org.au/node/fungi/60098053	Laetiporus portentosus	(Berk.) Rajchenb.	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Fomitopsidaceae	Polypore Fungi	2
https://id.biodiversity.org.au/node/fungi/60098405	Phlebia subceracea	(Wakef.) Nakasone	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Meruliaceae	Golden Splash Tooth	2
https://id.biodiversity.org.au/node/fungi/60102461	Ustilago tepperi	F.Ludw.	species	Fungi	Basidiomycota	Ustilaginomycetes	Ustilaginales	Ustilaginaceae		2
https://id.biodiversity.org.au/node/fungi/60103637	Tubifera ferruginosa	(Batsch) J.F.Gmel.	species	Protista	Amoebozoa	Myxogastrea	Liceida	Tubiferaceae		2
https://id.biodiversity.org.au/node/fungi/60112009	Peziza austrogeaster	(Rodway) Rifai	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pezizaceae		2
https://id.biodiversity.org.au/node/lichen/30086356	Hertelidea pseudobotryosa	R.C.Harris, Ladd & Printzen	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Stereocaulaceae		2
https://id.biodiversity.org.au/node/lichen/30088942	Xanthoparmelia crawfordensis	(Elix) Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/node/lichen/30088961	Xanthoparmelia elevata	Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/node/lichen/30089039	Xanthoparmelia microcephala	Elix & Kantvilas	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/node/lichen/30089081	Xanthoparmelia parvoclystoides	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/taxon/apni/51266535	Amaranthus viridis	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Green Amaranth	2
https://id.biodiversity.org.au/taxon/apni/51268348	Cirsium vulgare	(Savi) Ten.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Spear Thistle	2
https://id.biodiversity.org.au/taxon/apni/51268901	Pogonolepis stricta	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/taxon/apni/51268996	Sonchus asper	(L.) Hill	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Rough Sow-thistle	2
https://id.biodiversity.org.au/taxon/apni/51269070	Xanthium spinosum	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bathurst Burr	2
https://id.biodiversity.org.au/taxon/apni/51269785	Diplotaxis muralis	(L.) DC.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Wall Rocket	2
https://id.biodiversity.org.au/taxon/apni/51269933	Canna x orchiodes	L.H.Bailey	species	Plantae	Charophyta	Equisetopsida	Zingiberales	Cannaceae	Orchid-flowered Canna	2
https://id.biodiversity.org.au/taxon/apni/51270837	Cucumis myriocarpus	Naudin	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Prickly Paddy Melon	2
https://id.biodiversity.org.au/taxon/apni/51271090	Athrotaxis selaginoides	D.Don	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	King Billy Pine	2
https://id.biodiversity.org.au/taxon/apni/51283517	Drosera calycina	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		2
https://id.biodiversity.org.au/taxon/apni/51283586	Drosera macrophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Showy Sundew	2
https://id.biodiversity.org.au/taxon/apni/51285233	Senna artemisioides	(Gaudich. ex DC.) Randell	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Desert Cassia	2
https://id.biodiversity.org.au/taxon/apni/51286863	Acacia dealbata	Link	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Silver Wattle	2
https://id.biodiversity.org.au/taxon/apni/51288225	Orianthera serpyllifolia	(R.Br.) C.S.P.Foster & B.J.Conn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		2
https://id.biodiversity.org.au/taxon/apni/51288787	Babingtonia urbana	Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Coastal Plain Babingtonia	2
https://id.biodiversity.org.au/taxon/apni/51288966	Calothamnus accedens	Hawkeswood	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/taxon/apni/51289009	Calothamnus brevifolius	Hawkeswood	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/taxon/apni/51291297	Echinochloa colona	(L.) Link	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Awnless Barnyard-grass	2
https://id.biodiversity.org.au/taxon/apni/51291310	Echinochloa crus-pavonis	(Kunth) Schult.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Barnyard Grass	2
https://id.biodiversity.org.au/taxon/apni/51291699	Rumex acetosella	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Sorrel	2
https://id.biodiversity.org.au/taxon/apni/51293717	Desmocladus lateriflorus	(W.Fitzg.) B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/taxon/apni/51295029	Petrophile shuttleworthiana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/taxon/apni/51303940	Lycianthes rantonnetii	(CarriÃ¨re) Bitter	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Blue Potato Bush	2
https://id.biodiversity.org.au/taxon/apni/51399044	Caladenia georgei	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tuart Spider Orchid	2
https://id.biodiversity.org.au/taxon/apni/51399186	Caladenia magniclavata	Nicholls	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Big Clubbed Spider Orchid	2
https://id.biodiversity.org.au/taxon/apni/51399333	Caladenia roei	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Ant Orchid	2
https://id.biodiversity.org.au/taxon/apni/51399456	Caladenia vulgata	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Spider Orchid	2
https://id.biodiversity.org.au/taxon/apni/51404213	Diuris drummondii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Donkey Orchid	2
https://id.biodiversity.org.au/taxon/apni/51406606	Microtis alboviridis	R.J.Bates	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Scented Mignonette Orchid	2
https://id.biodiversity.org.au/taxon/apni/51412076	Pterostylis concava	D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Cupped Banded Greenhood	2
https://id.biodiversity.org.au/taxon/apni/51412104	Pterostylis dilatata	A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Robust Snail Orchid	2
https://id.biodiversity.org.au/taxon/apni/51412424	Pterostylis turfosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bearded Bird Orchid	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51414286	Thelymitra fuscolutea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Chestnut Sun Orchid	2
https://id.biodiversity.org.au/taxon/apni/51414378	Thelymitra pauciflora	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Sun Orchid	2
https://id.biodiversity.org.au/taxon/apni/51414432	Thelymitra variegata	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Queen Of Sheba	2
https://id.biodiversity.org.au/taxon/apni/51414436	Thelymitra villosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Custard Orchid	2
https://id.biodiversity.org.au/taxon/apni/51428929	Epitriche demissus	(A.Gray) P.S.Short	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/taxon/apni/51432712	Brassica oleracea	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Cabbage	2
https://id.biodiversity.org.au/taxon/apni/51433159	Dysphania pumilio	(R.Br.) Mosyakin & Clemants	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Small Crumbweed	2
https://id.biodiversity.org.au/taxon/apni/51438065	Moraea setifolia	(L.f.) Druce	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Thread Iris	2
https://id.biodiversity.org.au/taxon/apni/51439385	Pilularia novae-hollandiae	A.Braun	species	Plantae	Charophyta	Equisetopsida	Salviniales	Marsileaceae	Austral Pillwort	2
https://id.biodiversity.org.au/taxon/apni/51441855	Pterostylis ectypha	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Thick-sepaled Snail Orchid	2
https://id.biodiversity.org.au/taxon/apni/51442519	Aristida holathera	Domin	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Erect Kerosene Grass	2
https://id.biodiversity.org.au/taxon/apni/51442535	Avellinia festucoides	(Link) ValdÃ©s & H.Scholz	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Avellinia	2
https://id.biodiversity.org.au/taxon/apni/51442863	Setaria palmifolia	(J.Koenig) Stapf	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Palm Grass	2
https://id.biodiversity.org.au/taxon/apni/51445257	Banksia marginata	Cav.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Silver Banksia	2
https://id.biodiversity.org.au/taxon/apni/51445645	Hakea lorea	(R.Br.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Corkbark Tree	2
https://id.biodiversity.org.au/taxon/apni/51446343	Cotoneaster glaucophyllus	Franch.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Large-leaf Cotoneaster	2
https://id.biodiversity.org.au/taxon/apni/51447920	Stylidium bindoon	Lowrie & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Bindoon Triggerplant	2
https://id.biodiversity.org.au/taxon/apni/51447924	Stylidium diversifolium	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Touch-me-not	2
https://id.biodiversity.org.au/taxon/apni/51471289	Acacia lateriticola	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/taxon/apni/51633006	Eucalyptus foecunda	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Narrow-leaved Red Mallee	2
https://id.biodiversity.org.au/taxon/apni/51699381	Linaria maroccana	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae		2
https://id.biodiversity.org.au/taxon/apni/51737699	Asparagus officinalis	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Asparagus	2
https://id.biodiversity.org.au/taxon/apni/51742837	Chrysocephalum apiculatum	(Labill.) Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Everlasting	2
https://id.biodiversity.org.au/taxon/apni/51743570	Hyalosperma demissum	(A.Gray) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Dwarf Sunray	2
ALA_DR22913_1765	Psittacula krameri		species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Ring-necked Parakeet	1
ALA_DR22913_2197	Corvus splendens		species	Animalia	Chordata	Aves	Passeriformes	Corvidae	House Crow	1
ALA_DR24112_15	Limonium perezii		species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Plumbaginaceae	Sea Lavender	1
ALA_DR24112_151	Freesia alba X leichtlinii		species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		1
ALA_DR24112_24	Acrocephalus stentoreus		species	Animalia	Chordata	Aves	Passeriformes	Acrocephalidae	Clamorous Reed-warbler	1
ALA_DR24112_318	Centaurium erythraea X tenuiflorum		species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Common Centaury X Slender Centaury Hybrid	1
NZOR-6-101149	Rhizopus stolonifer	(Ehrenb.) Vuill.	species	Fungi	Mucoromycota		Mucorales	Rhizopodaceae		1
NZOR-6-103326	Parmotrema robustum	(Degel.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-104765	Chrysothrix xanthina	(Vain.) Kalb	species	Fungi	Ascomycota	Arthoniomycetes	Arthoniales	Chrysothricaceae		1
NZOR-6-105757	Bromus japonicus	Thunb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
NZOR-6-109010	Placoasterella baileyi	(Berk. & Broome) Arx	species	Fungi	Ascomycota	Dothideomycetes	Asterinales	Parmulariaceae		1
NZOR-6-109023	Cladosporium echinulatum	(Berk.) G.A. de Vries	species	Fungi	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae		1
NZOR-6-110207	Xanthoparmelia subimitatrix	(Essl.) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-116386	Trapelia placodioides	Coppins & P.James	species	Fungi	Ascomycota	Lecanoromycetes	Agyriales	Trapeliaceae		1
NZOR-6-117143	Xanthoparmelia cheelii	(Gyeln.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-118121	Siphula coriacea	Nyl.	species	Fungi	Ascomycota	Lecanoromycetes	Pertusariales	Icmadophilaceae		1
NZOR-6-120100	Asparagopsis armata	Harv.	species	Plantae	Rhodophyta	Florideophyceae	Bonnemaisoniales	Bonnemaisoniaceae		1
NZOR-6-123041	Xanthoparmelia imitatrix	(Taylor) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-12393	Trapeliopsis flexuosa	(Fr.) Coppins & P.James	species	Fungi	Ascomycota	Lecanoromycetes	Agyriales	Agyriaceae		1
NZOR-6-124027	Lecidea ochroleuca	Pers.	species	Fungi	Ascomycota	Lecanoromycetes	Lecideales	Lecideaceae		1
NZOR-6-125817	Miyagia pseudosphaeria	(Mont.) JÃ¸rst.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
NZOR-6-126969	Podosphaera pannosa	(Wallr.) de Bary	species	Fungi	Ascomycota	Leotiomycetes	Erysiphales	Erysiphaceae		1
NZOR-6-128446	Ramularia grevilleana	(Oudem.) JÃ¸rst.	species	Fungi	Ascomycota	Dothideomycetes	Capnodiales	Mycosphaerellaceae		1
NZOR-6-129537	Trapelia lilacea	Kantvilas & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Agyriales	Trapeliaceae		1
NZOR-6-130837	Parmotrema perlatum	(Huds.) M.Choisy	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-13114	Ascochyta viciae	Lib.	species	Fungi	Ascomycota	Dothideomycetes	Pleosporales			1
NZOR-6-134014	Coprinopsis patouillardii	(QuÃ©l.) Gminder	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
NZOR-6-134498	Xanthoparmelia filarszkyana	(Gyeln.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-15326	Elsinoe ampelina	Shear	species	Fungi	Ascomycota	Dothideomycetes	Myriangiales	Elsinoaceae		1
NZOR-6-25721	Xanthoparmelia digitiformis	(Elix & P.M.Armstr.) Filson	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-28285	Rhodymenia sonderi	P.C.Silva	species	Plantae	Rhodophyta	Florideophyceae	Rhodymeniales	Rhodymeniaceae		1
NZOR-6-33481	Pustula tragopogonis	(Pers.) Thines	species	Chromista	Oomycota	Oomycetes	Albuginales	Albuginaceae		1
NZOR-6-36002	Buellia macularis	Zahlbr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Physciaceae		1
NZOR-6-37339	Uromyces dianthi	(Pers.) Niessl	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
NZOR-6-45586	Uromyces viciae-fabae	(Pers.) J. SchrÃ¶t.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
NZOR-6-48496	Taxodium distichum	(L.) Rich.	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Southern Cypress	1
NZOR-6-50420	Teloschistes chrysophthalmus	(L.) Th.Fr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Teloschistaceae	Golden-eye Lichen	1
NZOR-6-54657	Acarospora citrina	(Taylor) Zahlbr. ex Rech.	species	Fungi	Ascomycota	Lecanoromycetes	Acarosporales	Acarosporaceae		1
NZOR-6-58290	Colletotrichum gloeosporioides	(Penz.) Penz. & Sacc.	species	Fungi	Ascomycota	Sordariomycetes	Glomerellales	Glomerellaceae		1
NZOR-6-59550	Pterocladia lucida	(Turner) J.Agardh	species	Plantae				Pterocladiaceae		1
NZOR-6-59671	Cladonia southlandica	W.Martin	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		1
NZOR-6-62969	Caloplaca cinnabarina	(Ach.) Zahlbr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Teloschistaceae		1
NZOR-6-64256	Laurencia brongniartii	J.Agardh (Pennycook & Samuels)	species	Plantae	Rhodophyta	Florideophyceae	Ceramiales	Rhodomelaceae		1
NZOR-6-64318	Neofusicoccum parvum	Crous, Slippers & A.J.L. Phillips	species	Fungi	Ascomycota	Dothideomycetes	Botryosphaeriales	Botryosphaeriaceae		1
NZOR-6-68200	Schizymenium bryoides	Harv.	species	Plantae	Bryophyta	Bryopsida	Bryales	Mniaceae	Copper Moss	1
NZOR-6-73414	Asparagopsis taxiformis	(Delile) Trevis.	species	Plantae	Rhodophyta	Florideophyceae	Bonnemaisoniales	Bonnemaisoniaceae		1
NZOR-6-74083	Xanthoparmelia australasica	D.J.Galloway	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-74117	Rosulabryum billardierei	(SchwÃ¤gr.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae		1
NZOR-6-75681	Hypocenomyce australis	Timdal	species	Fungi	Ascomycota	Lecanoromycetes	Umbilicariales	Ophioparmaceae		1
NZOR-6-79056	Nitella pseudoflabellata	(A. Braun) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae	Green Algae	1
NZOR-6-89950	Cladonia rigida	(Hook.f. & Taylor) Hampe	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		1
NZOR-6-907	Thysanothecium hookeri	Mont. & Berk.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		1
NZOR-6-94580	Austroparmelina conlabrosa	(Hale) A. Crespo, Divakar & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-96037	Rhizocarpon superficiale	(Schaer.) Malme	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Rhizocarpaceae		1
NZOR-6-97541	Lamprothamnium papulosum	(Wallr.) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae		1
NZOR-6-98277	Punctelia subalbicans	(Stirt.) D.J.Galloway & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://biodiversity.org.au/afd/taxa/0033e1ce-0082-4b5d-9332-3f55d6d19c82	Karaops jarrit	Crews & Harvey, 2011	species	Animalia	Arthropoda	Arachnida	Araneae	Selenopidae		1
https://biodiversity.org.au/afd/taxa/00d09e2d-a082-4d00-ae78-1e97a5868eda	Neorhaphiomidas hardyi	Norris, 1936	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/010901ae-4678-4ac4-8fdd-421770459ecd	Harpobittacus phaeoscius	Riek, 1954	species	Animalia	Arthropoda	Insecta	Mecoptera	Bittacidae		1
https://biodiversity.org.au/afd/taxa/01355d97-63da-40a7-ad5e-b5174d4cf0be	Polyphrades pusillus	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/0175df2f-07e1-49ef-8aad-c284da9c1cbc	Primeuchroeus reversus	(Smith, 1874)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		1
https://biodiversity.org.au/afd/taxa/0181c460-ab05-4cec-8fb6-baa4e7631cfb	Coelostoma (Coelostoma) fabricii	(Montrouzier, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae		1
https://biodiversity.org.au/afd/taxa/01f03301-5a76-4fb7-886d-41712c37fc8a	Chloroclystis insigillata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/01f753dd-0e2c-411b-8262-0e3c0549e96b	Castiarina cyanipes	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae	Jewel Beetle	1
https://biodiversity.org.au/afd/taxa/01fe0fa5-487e-431f-8906-04f27a755d64	Talaurinus carbonarius	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/0217d265-d00e-44d7-84f3-b769c11c098e	Baiami volucripes	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae		1
https://biodiversity.org.au/afd/taxa/0240ea31-fc77-4667-9ac8-60ffb96235d8	Nemestra incerta	Pascoe, 1872	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/02b00011-052c-435f-8e8d-4561eafde34e	Euthenarus comes	Sloane, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/03067cf4-ba2b-454a-9e3b-8286ef8b7173	Velesunio ambiguus	(Philippi, 1847)	species	Animalia	Mollusca	Bivalvia	Unionida	Hyriidae	Southern Mussel	1
https://biodiversity.org.au/afd/taxa/036e9a3b-e700-4e05-af6e-53d811230798	Diadoxus erythrurus	(White, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae	Small Cypress Jewel Beetle	1
https://biodiversity.org.au/afd/taxa/03708a1b-5fa4-4bb9-986b-5114b695fa68	Ericibdela delotis	(Meyrick, 1888)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/039e21af-7b23-4a2a-a423-16a3865121b1	Notoncus gilberti	Forel, 1895	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Smooth Epaulet Ant	1
https://biodiversity.org.au/afd/taxa/04a9f785-5c14-4623-9483-36bbe13e7550	Bembix atrifrons	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	1
https://biodiversity.org.au/afd/taxa/05609eaa-f1c7-491c-8124-d35beb0bc8b6	Camponotus prostans	Forel, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/056429cc-4b19-4805-8768-1cbf5ba97197	Scopula optivata	(Walker, 1861)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/05ace6f8-2afc-4a3c-be69-ad22804a7dad	Ctenolepisma (Ctenolepisma) longicaudata	Escherich, 1905	species	Animalia	Arthropoda	Insecta	Zygentoma	Lepismatidae	Silverfish	1
https://biodiversity.org.au/afd/taxa/06543cf1-fca2-4b8f-8231-d163f7427bfe	Leucospis morawitzi	Schletterer, 1890	species	Animalia	Arthropoda	Insecta	Hymenoptera	Leucospidae		1
https://biodiversity.org.au/afd/taxa/06e9edc4-038a-4dcf-85ea-6cc8b07e6c7a	Periclystus laceratus	Gerstaecker, 1888	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		1
https://biodiversity.org.au/afd/taxa/07289600-5b05-4c91-99cd-e2b9a7b25105	Perga konowi	Benson, 1939	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae		1
https://biodiversity.org.au/afd/taxa/072d2786-ca6a-4a7f-bb2f-18344a74ccee	Ocynoma antennatum	Pascoe, 1873	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/0796c4dd-d1c6-4e93-819a-fbe6447c4446	Purnella albifrons	(Gould, 1841)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-fronted Honeyeater	1
https://biodiversity.org.au/afd/taxa/079e885d-57c1-4487-b108-94809234bc35	Platycephalus endrachtensis	Quoy & Gaimard, 1825	species	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae	Northern Sand Flathead	1
https://biodiversity.org.au/afd/taxa/0856b247-88a4-4e4b-933a-753277e7f269	Ochetellus glaber	(Mayr, 1862)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Black House Ant	1
https://biodiversity.org.au/afd/taxa/08794605-a84e-4209-9b6f-70414df90be1	Sandava xylistis	Swinhoe, 1900	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/08d932ef-d644-4067-a5de-004cf8f9694c	Cylindrococcus spiniferus	Maskell, 1892	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae	Casuarina Gall	1
https://biodiversity.org.au/afd/taxa/08fd576b-9e64-4f0a-a7ed-44a294301035	Antichiropus minimus	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		1
https://biodiversity.org.au/afd/taxa/095c20f5-7bc6-4b63-a7ae-9254aa5242e2	Neophema (Neonanodes) petrophila	(Gould, 1841)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Rock Parrot	1
https://biodiversity.org.au/afd/taxa/0974b5aa-f5bf-47cc-9cf3-337dcc113c19	Onychoprion anaethetus	(Scopoli, 1786)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Bridled Tern	1
https://biodiversity.org.au/afd/taxa/097f92fa-3515-4d0e-9ea1-5d95b55f3650	Delena convexa	(Hirst, 1991)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		1
https://biodiversity.org.au/afd/taxa/099bc1ea-9508-4e50-88a0-a0aebacc96e2	Staurostichus hilaris	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		1
https://biodiversity.org.au/afd/taxa/0ab5a3f0-5fcc-4f27-bec2-6991055ceeff	Sandalodes joannae	Zabka, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/0ac89650-67a0-4257-9a6b-5e03bafef2df	Catostylus mosaicus	(Quoy & Gaimard, 1824)	species	Animalia	Cnidaria	Scyphozoa	Rhizostomeae	Catostylidae	Blue Blubber	1
https://biodiversity.org.au/afd/taxa/0acfe418-cf4f-4864-8c9b-48f0b2fab987	Parlatoria pittospori	Maskell, 1891	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae	Scale Insect	1
https://biodiversity.org.au/afd/taxa/0ad6c015-f291-4d81-9fdd-a6d081905e60	Xanthesma (Xenohesma) perpulchra	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/0b7f7692-a1c6-4b97-8ae0-528ee261fb56	Abantiades albofasciatus	(Swinhoe, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae		1
https://biodiversity.org.au/afd/taxa/0bdab8a4-6ff2-4de2-97bb-ce38e2c26ee5	Leptophion tetus	Gauld, 1977	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/0c739559-1821-4357-849d-6432babc7aed	Rodwayia occidentalis	Lea, 1907	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptiliidae		1
https://biodiversity.org.au/afd/taxa/0cacb346-fe84-4fa2-b09f-acaa68730c40	Synsphyronus magnus	Hoff, 1947	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Garypidae		1
https://biodiversity.org.au/afd/taxa/0d0a94ac-fc6d-4877-8110-f69aa1a223a0	Tamopsis darlingtoniana	Baehr & Baehr, 1987	species	Animalia	Arthropoda	Arachnida	Araneae	Hersiliidae		1
https://biodiversity.org.au/afd/taxa/0d6726cc-fd16-437e-bea7-14da24bf8b0f	Diaphania indica	(Saunders, 1851)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		1
https://biodiversity.org.au/afd/taxa/0d7a200d-1f14-4b76-8c84-54d02244fe7b	Simplisetia erythraeensis	Fauvel, 1918	species	Animalia	Annelida	Polychaeta		Nereididae	Rag Worm	1
https://biodiversity.org.au/afd/taxa/0dcae410-bb1b-4708-9074-f0570eac26e1	Amphiclasta lygaea	Turner, 1906	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/0e7c0e43-0c27-43d6-bd02-87ad064d8af4	Gowidon longirostris	(Boulenger, 1883)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Long-nosed Dragon	1
https://biodiversity.org.au/afd/taxa/0ed5555a-8058-4018-a9a0-70e5a4c3d050	Amphibalanus amphitrite	(Darwin, 1854)	species	Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae		1
https://biodiversity.org.au/afd/taxa/0f40471f-472a-4b31-9805-01a20938c48c	Trichocolletes capillosus	Batley & Houston, 2012	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/0fc00991-5858-409d-bb8f-e1f14fb4f412	Orcus australasiae	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		1
https://biodiversity.org.au/afd/taxa/10094c32-acf3-489f-aad1-0daf83ccf258	Pseudaonidia dryandrae	(Fuller, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/103640bf-ff87-4bc4-94f9-6e4956ea7dca	Chloroclystis catastreptes	(Meyrick, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/112d02bc-0878-49e1-b605-d971d27698e3	Eudynamys orientalis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Eastern Koel	1
https://biodiversity.org.au/afd/taxa/11b2e880-2b65-4431-896a-d91c0988af77	Amblyomma albolimbatum	Neumann, 1906	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		1
https://biodiversity.org.au/afd/taxa/12521f6f-d06c-4f05-bc88-ac56877c4a1e	Pentasteron securifer	Baehr & JocquÃ©, 2001	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/1265b13a-52b4-462f-8b28-0575df7ff68d	Glareola (Glareola) maldivarum	J.R. Forster, 1795	species	Animalia	Chordata	Aves	Charadriiformes	Glareolidae	Oriental Pratincole	1
https://biodiversity.org.au/afd/taxa/12893c80-8063-4307-b4c9-25a76da45225	Gomphina undulosa	(Lamarck, 1818)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae	Waved Venus	1
https://biodiversity.org.au/afd/taxa/12efb8ec-589f-468f-9df2-a92fc7ae9c66	Kahaono wallacei	Evans, 1966	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	1
https://biodiversity.org.au/afd/taxa/131e4ca3-1d91-440f-93aa-c0c06f667411	Tachystola hemisema	(Meyrick, 1885)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Hemisema Moth	1
https://biodiversity.org.au/afd/taxa/135ae429-04d3-4222-a2ed-a64a45fb567d	Synchonnus corrugatus	Pic, 1923	species	Animalia	Arthropoda	Insecta	Coleoptera	Lycidae		1
https://biodiversity.org.au/afd/taxa/13770e33-7183-4997-a5f9-7a520d3d5e80	Polichne spinulosa	Brunner von Wattenwyl, 1879	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/139377a3-36bd-4f07-a46b-8d1a433b1614	Pergagrapta glabra	(Kirby, 1882)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	1
https://biodiversity.org.au/afd/taxa/13a31834-0f30-4a9c-a68f-a22dd3d3158b	Onychoprion fuscatus	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Sooty Tern	1
https://biodiversity.org.au/afd/taxa/14415184-3538-401b-88ae-80ff8df5f49a	Sidarena hortorum	Irwin & Winterton, 2016	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		1
https://biodiversity.org.au/afd/taxa/14dd4ad6-b963-4156-8783-1bdcd05987e8	Megalopsalis tanisphyros	Taylor, 2011	species	Animalia	Arthropoda	Arachnida	Opiliones	Neopilionidae		1
https://biodiversity.org.au/afd/taxa/152e2c52-de10-4131-bae3-210410b63fac	Tarsostenus univittatus	(Rossi, 1792)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/154ad4d5-98af-4c91-a4fe-3772149bca3f	Camponotus ceriseipes	Clark, 1938	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/15b99c6c-ee4c-44e2-97af-6e7b18c975a0	Abantiades hydrographus	(R. Felder, 1874)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae		1
https://biodiversity.org.au/afd/taxa/15c5f3de-3b2e-4647-adb1-8dd1891dba26	Melanozosteria triangulata	(Brunner von Wattenwyl, 1893)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		1
https://biodiversity.org.au/afd/taxa/15e09f34-5033-424e-a37c-d6bb55f30b26	Rattus norvegicus	(Berkenhout, 1769)	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	Brown Rat	1
https://biodiversity.org.au/afd/taxa/16171fac-8d6c-4327-9fab-f2db864d71bf	Cyprinus carpio	Linnaeus, 1758	species	Animalia	Chordata	Actinopterygii	Cypriniformes	Cyprinidae	European Carp	1
https://biodiversity.org.au/afd/taxa/16539cfc-a465-498f-a258-56e85293c77d	Hydrochus australis	Motschulsky, 1860	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrochidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/1699b7ff-fc43-4b5a-9c00-7a911d203317	Argiope keyserlingi	Karsch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	St Andrew's Cross Spider	1
https://biodiversity.org.au/afd/taxa/16c9e56c-64e6-4c7c-9056-f8b70c29408f	Melobasis gratiosissima	Thomson, 1879	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/171325ce-7d2e-48de-8185-9bcffe4e780e	Temognatha lessonii	(Gory, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/17856271-c8cf-4e2c-9a72-fff4fd41b12d	Tetramorium striolatum	Viehmeyer, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/17d59974-8572-4bc7-909c-4a97550b1af8	Cheumatopsyche modica	(McLachlan, 1871)	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/184b6687-2d58-4ff2-b0fd-93f462f65333	Syllitus grammicus	(Newman, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Slenderlined Longicorn	1
https://biodiversity.org.au/afd/taxa/18b91b1d-765f-418d-a711-9951c1c43121	Sphallomorpha fallax	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/18ce1ee7-24ab-4da5-88aa-66fafbf0b41a	Garrha amata	(Meyrick, 1914)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/18d4c48a-5500-4c6f-b3ac-997231a7ad86	Cnidoglanis macrocephalus	(Valenciennes, 1840)	species	Animalia	Chordata	Actinopterygii	Siluriformes	Plotosidae	Estuary Cobbler	1
https://biodiversity.org.au/afd/taxa/18dc7440-15cf-442f-9212-21c1ae66ebfe	Tumulitermes apiocephalus	(Silvestri, 1909)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		1
https://biodiversity.org.au/afd/taxa/19606b31-0b98-4ea6-8f6b-bfc7dc817347	Thelohania parastaci	Moodie, Le Jambre & Katz, 2003	species	Protista	Microsporidia	Microsporea	Microsporida	Thelohaniidae		1
https://biodiversity.org.au/afd/taxa/196e0240-e017-4a5d-9010-a80f4334223e	Phenacoccus solenopsis	Tinsley, 1898	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/197536bd-1a87-4329-bb1d-916bff52890c	Platylister (Popinus) strangulatus	(Marseul, 1870)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/19dbb0fd-77c4-442a-989e-e2e6aea38d7a	Androchela milvaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/1a91988e-e958-4565-b936-5c45d072a78e	Copelatus ater	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/1aec2df3-815a-4518-8334-1b9ed529c48f	Storena sinuosa	JocquÃ© & Baehr, 1992	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/1afc2e2d-c021-4cfb-8fa8-b002ac1ed3f2	Charadrius (Charadrius) bicinctus	Jardine & Selby, 1827	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Double-banded Plover	1
https://biodiversity.org.au/afd/taxa/1b38fca7-8fa6-46d6-ad99-ab18b2f68090	Dacnodes shortridgei	(Burr, 1914)	species	Animalia	Arthropoda	Insecta	Dermaptera	Pygidicranidae		1
https://biodiversity.org.au/afd/taxa/1b7907ea-d9a3-4175-9642-e37a3955211a	Pterodontia mellii	Erichson, 1840	species	Animalia	Arthropoda	Insecta	Diptera	Acroceridae	Fly	1
https://biodiversity.org.au/afd/taxa/1c057f71-f2ce-4e03-87a6-6e2f92e97fd5	Paralastor neochromus	Perkins, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		1
https://biodiversity.org.au/afd/taxa/1c33b27e-4807-4afe-b641-f155f5288947	Castiarina dilatata	(Carter, 1927)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/1c3badff-861f-4c7f-ae9e-cd8bbffb5839	Diphucrania parva	(Blackburn, 1887)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/1c4a0ea9-ce85-4495-9962-235c421f7c99	Stephanopis corticalis	L. Koch, 1876	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		1
https://biodiversity.org.au/afd/taxa/1c8c03f4-93d1-4565-92f8-fc6c96c61fe1	Chrysis australis	Bohart, 1985	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		1
https://biodiversity.org.au/afd/taxa/1c8f1df9-4493-4409-8624-a6f097e4b86b	Lasioglossum (Homalictus) dotatum	(Cockerell, 1912)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/1cddec9c-b60f-4412-9402-e6f18d19350d	Belosquilla laevis	(Hess, 1865)	species	Animalia	Arthropoda	Malacostraca	Stomatopoda	Squillidae	Smooth Mantis Shrimp	1
https://biodiversity.org.au/afd/taxa/1d6a6f13-ab97-4378-811a-5268a4560213	Ametalla spinolae	Hope, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/1d8f8c4b-db14-40b8-a7ca-dd7c244a5c8b	Monistria latevittata	SjÃ¶stedt, 1921	species	Animalia	Arthropoda	Insecta	Orthoptera	Pyrgomorphidae		1
https://biodiversity.org.au/afd/taxa/1d960577-ff89-4d60-88f0-bc38e37de0ac	Pseudanapaea dentifascia	Hering, 1931	species	Animalia	Arthropoda	Insecta	Lepidoptera	Limacodidae		1
https://biodiversity.org.au/afd/taxa/1e91b319-844a-463d-86bb-ebade3d1dd94	Idiosoma cupulifex	(Main, 1957)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		1
https://biodiversity.org.au/afd/taxa/2038cde4-07ac-4785-8e3a-2f2c0ac3154e	Adelium breviusculum	Gebien, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/20501349-c07a-4c17-94d3-ee2ccd77ca83	Castiarina rufolimbata	(Carter, 1916)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/20812727-98cd-4721-8268-2417298d9b02	Mezium americanum	(Laporte, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		1
https://biodiversity.org.au/afd/taxa/2115f89b-129d-4fae-a7a4-e49305f30977	Endoxyla coscinophanes	(Turner, 1945)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cossidae		1
https://biodiversity.org.au/afd/taxa/2169f40c-56f7-4831-a016-d340e8f55cb8	Teleogryllus commodus	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllidae	Black Field Cricket	1
https://biodiversity.org.au/afd/taxa/21734a28-992e-43f6-8686-c8ed4c63d22d	Urodacus manicatus	(Thorell, 1876)	species	Animalia	Arthropoda	Arachnida	Scorpiones	Urodacidae	Black Rock Scorpion	1
https://biodiversity.org.au/afd/taxa/2183dce8-33ec-48bc-9d2c-121e3bc36945	Dichromodes euprepes	Prout, 1910	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/21ccaa12-e1cd-4ea4-9f6f-051d60ee6d21	Paralecanium frenchii	(Maskell, 1891)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coccidae		1
https://biodiversity.org.au/afd/taxa/221440bb-fc69-4184-9cac-fa7377f48e91	Raractocetus kreusleri	(Pascoe, 1864)	species	Animalia	Arthropoda	Insecta	Coleoptera	Lymexylidae		1
https://biodiversity.org.au/afd/taxa/224e55e0-e286-49b6-be9b-8526ef332015	Cerceris gilesi	Turner, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		1
https://biodiversity.org.au/afd/taxa/22558283-355c-4d8a-bdf3-b1a717726059	Neoseiulus dieteri	(Schicha, 1979)	species	Animalia	Arthropoda	Arachnida	Mesostigmata	Phytoseiidae		1
https://biodiversity.org.au/afd/taxa/22ccf62c-3896-42a8-9ff4-33db59a51e76	Gymnapistes marmoratus	(Cuvier, 1829)	species	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Tetrarogidae	Soldier	1
https://biodiversity.org.au/afd/taxa/24e9928c-7cc0-4cd4-b4fe-d3e30ecab9c2	Syntonarcha iriastis	Meyrick, 1890	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		1
https://biodiversity.org.au/afd/taxa/2504bbe5-7b2c-4ab6-af56-395c1ebfbb63	Dysmicoccus waustensis	Qin & Gullan, 1990	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/2553bf22-2538-474e-9baf-79007cf8e8d2	Cryptodus variolosus	White, 1841	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/25875948-bfe9-42e1-ad69-eb06a9263d0e	Oecetis laustra	Mosely, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/25a3be6b-b732-48db-ac2c-709015ae3a8a	Tricoryna punctulativentris	(Girault, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Eucharitidae		1
https://biodiversity.org.au/afd/taxa/25fb5676-7119-4d42-a6ba-ffefa490b12d	Synthemis eustalacta	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Swamp Tigertail	1
https://biodiversity.org.au/afd/taxa/26795f0f-1248-4104-8b25-569fe5665576	Synaleurodicus serratus	Martin, 1999	species	Animalia	Arthropoda	Insecta	Hemiptera	Aleyrodidae		1
https://biodiversity.org.au/afd/taxa/2681ac8d-6ecb-47e9-8f6b-a4b855760700	Ereiconastes butyrea	(Turner, 1935)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/269a5e22-a158-4966-b5de-f3ac10d4dd44	Dichromodes compsotis	Meyrick, 1890	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/272261b5-5575-473d-9fbf-a0ac39ed2add	Microxeromagna lowei	(Potiez & Michaud, 1838)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Citrus Snail	1
https://biodiversity.org.au/afd/taxa/27798195-db8e-4d18-b3c6-0f5445fccaec	Hybogralius hartmeyeri	(RÃ©gimbart, 1908)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/27a8ae5d-7e58-4bec-b7b2-f4eebda40ae1	Dexerra angularis	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/28667d0e-1cc0-42d4-8d2f-e548c7ec22d2	Symplecta (Trimicra) pilipes	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Diptera	Limoniidae		1
https://biodiversity.org.au/afd/taxa/288c30e9-4ebb-4609-ac9a-6257fd542ff0	Timareta crinita	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/28e32db7-9b48-4247-bbc6-c41878ad4f61	Falsistrellus mackenziei	Kitchener, Caputi & Jones, 1986	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Western False Pipistrelle	1
https://biodiversity.org.au/afd/taxa/292e4eec-920c-4926-9e7d-22ff35fb4dfc	Iridomyrmex splendens	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	1
https://biodiversity.org.au/afd/taxa/29c4ad35-d5e0-47e2-b37d-bcfe1fdd2d59	Tracholena sulfurosa	(Meyrick, 1910)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/29cee780-0fc0-4ddb-a83a-c1d6908dbf39	Phoracantha odewahnii	Pascoe, 1864	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/2a98a8e0-f2ba-4824-b545-9a4ba5032fb2	Hanoniscus tuberculatus	Budde-Lund, 1912	species	Animalia	Arthropoda	Malacostraca	Isopoda	Oniscidae		1
https://biodiversity.org.au/afd/taxa/2a9e3b87-7cc1-43fb-b236-bcc112da1dca	Stiltia isabella	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Charadriiformes	Glareolidae	Australian Pratincole	1
https://biodiversity.org.au/afd/taxa/2ae13397-85e2-45cb-8a6c-6271e92964a4	Limax maximus	Linnaeus, 1758	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae	Leopard Slug	1
https://biodiversity.org.au/afd/taxa/2b00cb95-b55d-43f7-9aba-b0fa1c06cae1	Platyzosteria fallax	(Walker, 1868)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		1
https://biodiversity.org.au/afd/taxa/2b61c53a-cf16-445c-b03a-a9a9ca163dd4	Megaporus solidus	(Sharp, 1882)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/2ba88fd9-4afa-444f-8165-f1ebb0fbf728	Achyra affinitalis	(Lederer, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/2bea0a2b-a7ad-4f41-8a72-7e35b25efabf	Paracymus pygmaeus	(W.J. Macleay, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/2c610213-bb25-4ed0-9a4b-368dd3e8a555	Australomimetus spinosus	Heimer, 1986	species	Animalia	Arthropoda	Arachnida	Araneae	Mimetidae		1
https://biodiversity.org.au/afd/taxa/2cb66fde-af74-4c50-a6fd-e7906752a396	Aleucosia australensis	(Evenhuis, 1980)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		1
https://biodiversity.org.au/afd/taxa/2cec2484-ec94-470c-b749-f3765c576a73	Chelaner leae	(Forel, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	1
https://biodiversity.org.au/afd/taxa/2cef7dd5-fdd4-4529-8bc7-1746cfa680c7	Eufrenchia falcata	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Membracidae	Treehopper	1
https://biodiversity.org.au/afd/taxa/2d412aaa-15e5-4b26-9a44-57fd5fdd1293	Apiomorpha helmsii	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/2d41626a-fc2f-4fb9-8a35-a7bd855c1982	Uraba lugens	Walker, 1863	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae	Gum-leaf Skeletoniser	1
https://biodiversity.org.au/afd/taxa/2d45d64b-8ecf-4aef-847a-69d0af85e098	Molophilus (Molophilus) flavoannulatus	Alexander, 1927	species	Animalia	Arthropoda	Insecta	Diptera	Limoniidae		1
https://biodiversity.org.au/afd/taxa/2d4b1471-5bbc-4f30-9327-7091abf85ffc	Leucauge dromedaria	(Thorell, 1881)	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		1
https://biodiversity.org.au/afd/taxa/2e407d03-f15f-4bfb-8cb0-0e8dab31bb38	Tanyzancla melanocrossa	(Meyrick, 1889)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/2e581b4a-e8bc-4d05-98e8-c3282f57e618	Anomis flava	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/2e7f9078-4aab-425a-8036-66d7b1b8c95a	Tachynomyia aurifrons	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/306ced7b-9c6b-4e40-934b-1c13fe8bbd6a	Debiliana GROUP debiliana	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Leafroller Moth	1
https://biodiversity.org.au/afd/taxa/307e4cb6-baf4-44be-bbe1-8ce6ad7df09c	Leptotarsus (Leptotarsus) kalamundaensis	Dobrotworsky, 1972	species	Animalia	Arthropoda	Insecta	Diptera	Tipulidae		1
https://biodiversity.org.au/afd/taxa/30e51139-20c8-4d9a-b9f4-9be1f34dae3f	Lampona yanchep	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		1
https://biodiversity.org.au/afd/taxa/3103c529-ddbe-4bc0-9067-fbe2e21a5c39	Cherax tenuimanus	(Smith, 1912)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Yabbies	1
https://biodiversity.org.au/afd/taxa/31389480-c201-4022-801d-bc8180f50352	Leptanilla swani	Wheeler, 1932	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/31d6550b-b03e-48f5-9673-71ba72cd55d1	Questopogon affinis	Daniels, 1976	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/31f1be53-cbd0-4e3c-91c1-3ee9e66893a9	Notagonum submetallicum	(White, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae	Submetallic Ground Beetle	1
https://biodiversity.org.au/afd/taxa/326ba5a9-e3ea-4feb-8c0e-5d71f57a4df9	Camponotus consobrinus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Banded Sugar Ant	1
https://biodiversity.org.au/afd/taxa/328080c3-b7bc-49fc-954a-3708e59642d1	Phytometra formosalis	(Walker, 1866)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/32b4807d-3132-4691-811a-3497e4241ecd	Dolichoderus parvus	Clark, 1930	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Dolly Ant	1
https://biodiversity.org.au/afd/taxa/32b587ca-bc16-4e9f-9c25-27d55b2c36bb	Scobinichthys granulatus	(White, 1790)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	Rough Leatherjacket	1
https://biodiversity.org.au/afd/taxa/32bd894d-7b06-4788-9732-25b8ce58d4e3	Lasioglossum (Chilalictus) mundulum	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	1
https://biodiversity.org.au/afd/taxa/33210dc1-4501-456d-9112-56b531c45ebe	Perilampomyia notatifrons	Girault, 1916	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/33702f89-60b2-4098-9cb0-20180783514d	Passer (Passer) domesticus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Passeriformes	Passeridae	House Sparrow	1
https://biodiversity.org.au/afd/taxa/33780c17-6ce3-4315-8ccf-850a40ed0be6	Carcharhinus leucas	(MÃ¼ller & Henle, 1839)	species	Animalia	Chordata	Chondrichthyes	Carcharhiniformes	Carcharhinidae	Bull Shark	1
https://biodiversity.org.au/afd/taxa/33e5a445-8377-4e00-83ec-a43f5622f493	Tmesiphorus ponerae	Lea, 1910	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/3433fe69-d1e1-4fbc-9741-7e0c516eff48	Leptoperla australica	(Enderlein, 1909)	species	Animalia	Arthropoda	Insecta	Plecoptera	Gripopterygidae	Stonefly	1
https://biodiversity.org.au/afd/taxa/345c3638-d1ea-4967-8137-a1bf8133cdf3	Phoracantha elegans	Blackburn, 1894	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/348b1556-8f9c-473d-986f-4b306a9b5769	Smiliopus quadrinotatus	(Reuter, 1881)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	1
https://biodiversity.org.au/afd/taxa/34a53188-1116-4579-82de-5d3c9c973dbb	Hemicloea sublimbata	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Gnaphosidae		1
https://biodiversity.org.au/afd/taxa/35d18d0a-6f74-4c03-b519-3518ac4a35e4	Ephutomorpha fulvocrinita	Turner, 1940	species	Animalia	Arthropoda	Insecta	Hymenoptera	Mutillidae		1
https://biodiversity.org.au/afd/taxa/36590edf-c9bf-47ac-968d-3bba67f6fb45	Escura nigrosignata	(Tillyard, 1916)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		1
https://biodiversity.org.au/afd/taxa/36aefc9e-46d8-4751-8dea-09aab3ad771a	Leptoperla bubalus	Theischinger, 1980	species	Animalia	Arthropoda	Insecta	Plecoptera	Gripopterygidae	Stonefly	1
https://biodiversity.org.au/afd/taxa/36fcd47e-c0cb-47a4-96e9-24336b966809	Creontiades dilutus	(StÃ¥l, 1859)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Green Mirid	1
https://biodiversity.org.au/afd/taxa/3726e182-161b-43b0-be02-1959d228edc2	Bothriembryon (Bothriembryon) onslowi	(Cox, 1864)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		1
https://biodiversity.org.au/afd/taxa/3831e65a-7f4d-401d-a93a-8679ede7e0c6	Oligeriops dimorphon	(Ferguson, 1926)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		1
https://biodiversity.org.au/afd/taxa/385fec45-3cfa-4e8a-b698-c14e23f4c8ae	Tachynomyia abdominalis	(GuÃ©rin-MÃ©neville, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/389b53a8-ada3-4ab6-bc82-1379a034a02e	Gerallus dimidiatus	Raffray, 1900	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/38e8c7f6-f05b-4412-a4a6-14474fb0e2ad	Ctenotus delli	Storr, 1974	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Darling Range South-west Ctenotus	1
https://biodiversity.org.au/afd/taxa/38f74819-5d5b-4b18-8920-d18a35bc6198	Euomus stephensii	(Gyllenhal, 1834)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/390dc7f0-3948-41b4-ae44-880ba8ad8c90	Hister ambulator	Thayer, 1991	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/39a71c86-050b-494c-8bac-bbbbf0989fbb	Anilios bituberculatus	(Peters, 1863)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Prong-snouted Blind Snake	1
https://biodiversity.org.au/afd/taxa/39d03242-c05e-4b87-9345-042baabb315d	Galleria mellonella	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Greater Wax Moth	1
https://biodiversity.org.au/afd/taxa/3a62744d-5707-4970-81a5-2a2b1f970261	Megachile (Mitchellapis) fabricator	Smith, 1868	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		1
https://biodiversity.org.au/afd/taxa/3a83c473-14ad-49e3-961c-0566240f117f	Opodiphthera helena	(White, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Saturniidae	Helena Emperor Moth	1
https://biodiversity.org.au/afd/taxa/3a9a93ab-d9e5-441d-a7f0-bf7f68bde991	Peridiococcus ethelae	(Fuller, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/3a9e360a-68e1-4f05-9bca-ba7743341473	Myrmecophilus (Myrmecophilus) testaceus	Chopard, 1926	species	Animalia	Arthropoda	Insecta	Orthoptera	Myrmecophilidae		1
https://biodiversity.org.au/afd/taxa/3ad0bfba-4997-49d7-9c8b-a3d7563e63c8	Euryspilus chalcodes	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/3ad981ec-a167-4919-af32-1bc19e5e833d	Ethmia anthracopis	(Meyrick, 1902)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Ethmiidae		1
https://biodiversity.org.au/afd/taxa/3b14af93-c078-439b-84dc-8f6cbafb888d	Aname fuscocincta	Rainbow & Pulleine, 1918	species	Animalia	Arthropoda	Arachnida	Araneae	Anamidae		1
https://biodiversity.org.au/afd/taxa/3b2f1786-163d-4a76-9993-cb606cafd43b	Creophilus erythrocephalus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae	Devil's Coach-horse	1
https://biodiversity.org.au/afd/taxa/3c037e57-9ac2-4a41-a216-1b4b06cc998f	Saiphos equalis	(Gray, 1825)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Three-toed Skink	1
https://biodiversity.org.au/afd/taxa/3c3f838a-6715-49ad-9392-3a4e0a7ed940	Hylaeus (Euprosopellus) chrysaspis	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	1
https://biodiversity.org.au/afd/taxa/3c7aff4c-611f-4837-96d8-0c1aa3f2167d	Conus (Phasmoconus) australis	Holten, 1802	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Conidae		1
https://biodiversity.org.au/afd/taxa/3c7bf226-c110-4374-9432-c11def8e58c7	Onthophagus rupicapra	Waterhouse, 1894	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/3cdfe369-54b7-4e23-9fec-0425c031ea7d	Eupines (Eupines) sulcata	(Sharp, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/3cee982b-508c-4e49-95af-8374d23974c6	Meliphaga (Meliphaga) lewinii	(Swainson, 1837)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Lewin's Honeyeater	1
https://biodiversity.org.au/afd/taxa/3d32e3ff-1c2f-4225-bb22-b31cf1cc0a05	Mataeomera ligata	(T.P. Lucas, 1895)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/3e1b019f-3659-4c9e-8d45-3e7b357aac4b	Hesperotermes infrequens	(Hill, 1927)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		1
https://biodiversity.org.au/afd/taxa/3ebec256-3ec0-4f18-941f-8444ca3fb616	Xyroscelis crocata	(Gory & Laporte, 1839)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/3ed5170f-ef70-4b17-bec8-ba7eb9728a3c	Symmachis glaucescens	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/3f5fc994-5c65-4d3d-91f5-cc6d3dc1e223	Isopedella tindalei	Hirst, 1993	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		1
https://biodiversity.org.au/afd/taxa/3f747a74-3509-4ef5-a3d9-bb87bfd89572	Tabanus townsvilli	Ricardo, 1915	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/4074d4b3-f9be-49f8-a1d0-6066b56815c1	Ancylis acromochla	(Turner, 1946)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/420d2f62-b96b-44b8-a39f-b3a6de208002	Putoniessa rivularis	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		1
https://biodiversity.org.au/afd/taxa/424f01ca-b425-4da4-83f8-f9e00c9a7189	Paralaea porphyrinaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/428774f1-4b44-4cb1-999a-d6be688f016e	Helochares tenuistriatus	RÃ©gimbart, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/42ac8c27-5013-4109-aaf8-3c3761c62b96	Chrysodeixis subsidens	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Australian Cabbage Looper Moth	1
https://biodiversity.org.au/afd/taxa/438e03b2-9110-4434-882f-d29f70429cdf	Poecilohetaerus aquilus	Schneider, 1991	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae	Acalyptrate Fly	1
https://biodiversity.org.au/afd/taxa/43a691ca-b9b9-4c95-9845-437872bc74e2	Chama ruderalis	Lamarck, 1819	species	Animalia	Mollusca	Bivalvia	Cardiida	Chamidae		1
https://biodiversity.org.au/afd/taxa/43be1b66-57f7-4cd6-9178-dc6747b273f8	Hydrophilus (Hydrophilus) albipes	Castelnau, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/43bf8e95-0ef2-452b-8a1a-f7cba805ebc3	Paropsis deserti	Blackburn, 1896	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/43cd7d23-b737-42b3-acf4-d4da0cb7f4a2	Eulimnadia vinculuma	Timms, 2015	species	Animalia	Arthropoda	Branchiopoda	Diplostraca	Limnadiidae		1
https://biodiversity.org.au/afd/taxa/43e3f6cd-1f82-4c95-b813-bcb07f33c1c4	Sericopimpla crenator	(Fabricius, 1804)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae	Ichneumon Wasp	1
https://biodiversity.org.au/afd/taxa/440adf48-d5d0-4c0f-baad-0364d27a83cf	Eunatalis hirta	(Blackburn, 1890)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/45074972-af18-41be-a0f6-1742bdd3307a	Rhytiphora callosa	ÅšlipiÅ„ski & Escalona, 2013	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/45406fa2-2d44-4ea2-b071-1b41bc8c5221	Thynnoides berthoudi	Turner, 1912	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/457f603b-c072-4d59-9bde-b816d4cf7975	Acrocercops irrorata	(Turner, 1894)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gracillariidae		1
https://biodiversity.org.au/afd/taxa/45e11bfe-2800-4c6e-9374-2cafdfe96535	Melobasis sordida	Blackburn, 1887	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/45e4f886-5d69-4b1c-98c0-2178c194f9c7	Neophema (Neophema) splendida	(Gould, 1841)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Scarlet-chested Parrot	1
https://biodiversity.org.au/afd/taxa/45f06a8f-abf0-482e-8206-2b923b1433e9	Lestricothynnus optimus	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/4609f4bc-01d7-42ef-bed1-dd58b3f3765b	Camponotus dryandrae	McArthur & Adams, 1996	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/462bbae6-998d-46f0-a587-22fa25e82e5d	Astraeus (Astraeus) macmillani	Barker, 1975	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/46a7a95d-7db6-429e-86f7-9aa142f1e722	Rhytiphora maculicornis	(Pascoe, 1858)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/47368a36-ecdd-4be0-a94c-2f00333aef24	Catopsilia pomona	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Lemon Migrant	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/473b40ac-03bd-4153-8430-1c12eda7467b	Lamponella ainslie	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	1
https://biodiversity.org.au/afd/taxa/47546d20-f18b-4d7e-95cf-0eec489ddec5	Aphaenogaster poultoni	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/47730358-084b-4ff4-9f3f-e1c3c74a4272	Neotemnopteryx fulva	(Saussure, 1863)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattellidae	Cockroach	1
https://biodiversity.org.au/afd/taxa/477d2a77-241d-4474-a673-f49d3d81314a	Creiis corniculatus	(Froggatt, 1900)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae	Psyllid Bug	1
https://biodiversity.org.au/afd/taxa/47f41922-3f79-4f2b-8788-3c58c9e56de5	Castiarina enigma	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/486dc705-ba86-4195-a583-cd31a68b02b8	Lissolepis luctuosa	(Peters, 1866)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Mourning Skink	1
https://biodiversity.org.au/afd/taxa/4887d549-91d3-4547-9925-5976287dbf5e	Lasioglossum (Homalictus) sphecodopse	(Cockerell, 1905)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/48b98a23-f14e-4a06-ba7c-fdfc9adc4995	Castiarina sieboldi	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/48d24c82-a1a7-4dec-8706-95831d855329	Radinoderus occidentalis	(Alexander, 1925)	species	Animalia	Arthropoda	Insecta	Diptera	Tanyderidae		1
https://biodiversity.org.au/afd/taxa/4953e093-ff93-4ed7-979f-2082e0e739a0	Westrarchaea spinosa	Rix, 2006	species	Animalia	Arthropoda	Arachnida	Araneae	Malkaridae		1
https://biodiversity.org.au/afd/taxa/496ec61a-02c1-409f-ba18-a1ee24c32c30	Cryptoplus tibialis	(Lea, 1898)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Tuart Bud Weevil	1
https://biodiversity.org.au/afd/taxa/4a6524fb-b256-4790-a877-e5f10502da93	Elanus scriptus	Gould, 1842	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Letter-winged Kite	1
https://biodiversity.org.au/afd/taxa/4a6daa33-3471-407b-9764-12ad920505ed	Lucilia sericata	(Meigen, 1826)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae	Green Blowfly	1
https://biodiversity.org.au/afd/taxa/4a8fd679-6384-4176-9f73-9e5ce8d322c2	Rhinodia rostraria	GuenÃ©e, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/4b288594-e949-452a-b7f1-3fe063546068	Proteuxoa tibiata	(GuenÃ©e, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/4b3e86f0-bad3-4582-9b8f-1f76609d25a2	Podomyrma ferruginea	(Clark, 1934)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/4b961a84-50ea-4e66-87cf-674379a25efc	Phaulomytilus striatus	(Maskell, 1895)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/4ba882cf-ff52-410c-9481-8bae29eadd27	Decilaus squamosus	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/4bbe570d-9e5d-4b6b-a3ae-91067662f4e5	Orosius argentatus	(Evans, 1938)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Common Brown Leafhopper	1
https://biodiversity.org.au/afd/taxa/4bc87f74-2a4d-4dfa-b240-f8e8c3ede298	Acantholophus hypoleucus	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/4c5d075a-9612-4f71-9aa7-37686fef640a	Lioponera clarki	(Crawley, 1922)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/4cdea7c9-bbcc-445c-90cb-c441acb696c7	Hemiramphus robustus	GÃ¼nther, 1866	species	Animalia	Chordata	Actinopterygii	Beloniformes	Hemiramphidae	Three-by-two Garfish	1
https://biodiversity.org.au/afd/taxa/4db0d5c5-fa2b-4ba0-80ca-1bd726606018	Pseudonotonophes dumosus	(Macleay, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/4dc409f1-7ce8-4b65-ae90-90612f29d2af	Dietta (Dietta) sperata	Sharp, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Leiodidae		1
https://biodiversity.org.au/afd/taxa/4dd0ff98-3b5d-454d-b49b-d0c8d296c0ca	Agrypnus labiosus	(CandÃ¨ze, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Elateridae		1
https://biodiversity.org.au/afd/taxa/4e2d913d-b3ec-434c-9e2b-e7cababff957	Eurymelops rubrovittata	(Amyot & Serville, 1843)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	1
https://biodiversity.org.au/afd/taxa/4e5b9a55-10cc-407e-8572-90a0bd20dfbd	Crocidosema plebejana	Zeller, 1847	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Cotton Tipworm Moth	1
https://biodiversity.org.au/afd/taxa/4e712566-8c49-4f8f-a8aa-8df157cddc10	Tymbophora peltastis	Meyrick, 1890	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/4e7dad42-0d39-42a4-a12c-4d343542d6d7	Austrotachardia convexa	(Fuller, 1899)	species	Animalia	Arthropoda	Insecta	Hemiptera	Kerriidae		1
https://biodiversity.org.au/afd/taxa/4eda2065-0ea5-48d5-a1f5-0c749378b5f7	Onthophagus taurus	(Schreber, 1759)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Bullhorned Dung Beetle	1
https://biodiversity.org.au/afd/taxa/4ee1f24a-3309-4049-a24b-ae3203e14228	Paraactinoptera prolixa	(Hardy & Drew, 1996)	species	Animalia	Arthropoda	Insecta	Diptera	Tephritidae		1
https://biodiversity.org.au/afd/taxa/4fc894fa-7f87-40d9-b950-19e1ba40fd78	Garrha pudica	(Zeller, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/5018bf3f-2787-4822-bc74-aa5c16aef9a2	Peltohyas australis	(Gould, 1841)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Inland Dotterel	1
https://biodiversity.org.au/afd/taxa/5020c4f6-95f5-4aa3-9c3b-d8b6d3a8c568	Monilea callifera	(Lamarck, 1822)	species	Animalia	Mollusca	Gastropoda		Trochidae	Shrewd Trochid	1
https://biodiversity.org.au/afd/taxa/518c3dd5-2970-4f87-9cf5-a6dcb19e6424	Oxyopes rubicundus	L. Koch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae		1
https://biodiversity.org.au/afd/taxa/521ff45c-7d85-4306-b4a5-23ffbd30111e	Stangeia xerodes	(Meyrick, 1886)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae	Xerodes Plume Moth	1
https://biodiversity.org.au/afd/taxa/5225ec4e-57cf-48a1-8839-af1542bb54c7	Persectania ewingii	(Westwood, 1839)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Southern Armyworm	1
https://biodiversity.org.au/afd/taxa/522a22ec-3318-4e17-97e7-8d8af150146b	Coptotermes michaelseni	Silvestri, 1909	species	Animalia	Arthropoda	Insecta	Blattodea	Rhinotermitidae		1
https://biodiversity.org.au/afd/taxa/5270dfe7-c74b-405e-88e6-5752d0b93e12	Theclinesthes serpentatus	(Herrich-SchÃ¤ffer, 1869)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Salt-bush Blue	1
https://biodiversity.org.au/afd/taxa/52d566c1-671f-4026-813c-eb94ec31c1f0	Hednota relatalis	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/52f3c1c6-8e4f-4ade-b0f7-17890169efb2	Pavo cristatus	Linnaeus, 1758	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Indian Peafowl	1
https://biodiversity.org.au/afd/taxa/5345163f-d4e5-4c11-8fe2-52e56d770aac	Hiatula alba	(Lamarck, 1818)	species	Animalia	Mollusca	Bivalvia	Cardiida	Psammobiidae	White Sunset Shell	1
https://biodiversity.org.au/afd/taxa/54656641-c469-480d-97ef-47e37d9573f5	Megachile (Eutricharaea) phenacopyga	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	1
https://biodiversity.org.au/afd/taxa/5489676b-7b3c-4baa-9ad6-df21bfe27329	Compsotropha strophiella	Meyrick, 1884	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/549a4089-2722-4a7b-8d61-4549bf3e18b0	Phonognatha graeffei	(Keyserling, 1865)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Leafcurling Spider	1
https://biodiversity.org.au/afd/taxa/54d4776b-0aee-4e1a-bf8f-3f0fff1a811b	Austrammo harveyi	Platnick, 2002	species	Animalia	Arthropoda	Arachnida	Araneae	Ammoxenidae		1
https://biodiversity.org.au/afd/taxa/54d55356-d622-4785-9793-5f3b845dc253	Dasygnathus trituberculatus	Blackburn, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/5560fa1b-9f78-4740-8a08-af149f662abe	Hudsonema aptus	(Neboiss, 1982)	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/56101870-5f8e-4e16-a8ef-0d2967772472	Plodia interpunctella	(HÃ¼bner, 1813)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Snout Moth	1
https://biodiversity.org.au/afd/taxa/56d25dd8-4282-4cd6-9bc7-baaa0b8adfc4	Acridotheres tristis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Passeriformes	Sturnidae	Common Myna	1
https://biodiversity.org.au/afd/taxa/5747c83c-6f03-4fc0-8a49-b91cb5345295	Pogonortalis commoni	Paramonov, 1958	species	Animalia	Arthropoda	Insecta	Diptera	Platystomatidae		1
https://biodiversity.org.au/afd/taxa/5785c6d9-4116-4a89-b854-0777ceca8072	Nola pycnopasta	(Turner, 1944)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae		1
https://biodiversity.org.au/afd/taxa/57d9daa6-11ff-4018-9eb5-072e97fab309	Trygonoptera ovalis	Last & Gomon, 1987	species	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Urolophidae	Striped Stingaree	1
https://biodiversity.org.au/afd/taxa/57e3354f-1060-4e1e-9b29-a945eb232731	Diatenes aglossoides	GuenÃ©e, 1852	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/58673967-18a6-42da-b515-e58ec641cd80	Chalcopteroides fastuosus	(Germar, 1848)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/5967f698-9d2f-499b-a1e0-d18711cbf3e9	Indotyphlops braminus	(Daudin, 1803)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Flowerpot Blind Snake	1
https://biodiversity.org.au/afd/taxa/59a14540-36ab-4dec-86ff-329ec3ce2af0	Garrha platyporphyra	(Turner, 1946)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/59af9b22-26ae-45fa-951c-bbd72d5ee843	Maconellicoccus lanigerus	(Fuller, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/59ccacd6-de10-4068-a814-3e17d182bf70	Erina hyacinthina	(Semper, 1879)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Varied Dusky-blue	1
https://biodiversity.org.au/afd/taxa/5b409a29-3637-44d2-a907-7d612d2e698f	Rhinotia bidentata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Belidae	Two-spotted Weevil	1
https://biodiversity.org.au/afd/taxa/5b8b3fd7-6934-461a-a059-8d90014848ef	Ectenopsis (Leptonopsis) norrisi	Mackerras, 1956	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/5b8e8de6-f128-4e6b-a3cb-0889aa4ae9ea	Hiatella australis	(Lamarck, 1818)	species	Animalia	Mollusca	Bivalvia	Adapedonta	Hiatellidae	Australian Rock-borer	1
https://biodiversity.org.au/afd/taxa/5d102cf6-53ab-4adb-ab55-da651c9d4d4e	Anthela inornata	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Anthelidae		1
https://biodiversity.org.au/afd/taxa/5d586633-d34a-45ee-b11a-e62e363e8fec	Astraeus (Astraeus) crassus	van de Poll, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/5d71e243-065d-4711-9d08-39e0899a46dc	Melophorus sericothrix	Heterick, Castalanelli & Shattuck, 2017	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/5d749c2c-ac25-44fd-9dbc-df2c13a1c8e0	Rhynchium superbum	Saussure, 1852	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		1
https://biodiversity.org.au/afd/taxa/5d937df2-e9dc-43a1-b829-2087ca5529ff	Ethmostigmus rubripes	(Brandt, 1840)	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		1
https://biodiversity.org.au/afd/taxa/5da5972c-423c-4cee-a83f-18babe1d78cf	Synsphyronus mimulus	Chamberlin, 1943	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Garypidae	Pseudoscorpion	1
https://biodiversity.org.au/afd/taxa/5de13a4d-2e71-42bc-a3c0-2db539875c63	Eriococcus apiomorphae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/5deacb64-f050-43f2-a2bf-bca5ced33f5a	Cryptoplus ferrugineus	(Lea, 1927)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/5e0c639e-dba4-463c-a343-36b17b67447e	Rhipidura (Howeavis) dryas	Gould, 1843	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	Arafura Fantail	1
https://biodiversity.org.au/afd/taxa/5e140231-9384-48d8-bce9-5fb56b64be0a	Quedius sulcicollis	Fauvel, 1877	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/5ea11529-b076-4864-b591-0f07acec12c1	Erytenna consputa	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/5ea3f8e5-0bc6-4c76-9d16-3491fb724102	Aedes (Ochlerotatus) turneri	Marks, 1963	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae		1
https://biodiversity.org.au/afd/taxa/5ead713d-52cd-49fa-8161-243303d192b8	Hypographa aristarcha	Prout, 1910	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/5eb77875-c8b5-4c43-8169-2aee0002994b	Brachyhesma (Brachyhesma) perlutea	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/5fd45483-5e66-4215-807e-d13d80b2d4b3	Cerdistus hudsoni	Lavigne, 2011	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/601de6ca-fa8f-41f0-9b6b-b35bd20d922c	Eurhopalus debilius	(Blackburn, 1903)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae		1
https://biodiversity.org.au/afd/taxa/60456352-b9f6-4fb2-8b3f-4053f49aacfc	Hathynnus rubromaculatus	(Turner, 1908)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/60d38c20-51a3-4a4c-a323-a42a5459431c	Anilara obscura	(Macleay, 1872)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/615599bf-e47e-449c-b228-ce80ce3a0bf8	Anthrax crenatus	Yeates & Lambkin, 1998	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/618397ec-ddff-44b6-ae31-70feb352e94b	Poecilipta lugubris	Raven, 2015	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae		1
https://biodiversity.org.au/afd/taxa/61d33b52-c2f0-425d-891e-a6f6cc30f2e6	Podykipus collinus	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Spirostreptida	Iulomorphidae		1
https://biodiversity.org.au/afd/taxa/6204ddc9-89fd-4c77-bd45-6eca978c341b	Tropidoderus michaelseni	Werner, 1912	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae	Michaelsenâ€™s Stick-insect	1
https://biodiversity.org.au/afd/taxa/6210ce52-8335-4e3f-999e-92cd5721e0ac	Irus (Irus) irus	(Linneaus, 1758)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae		1
https://biodiversity.org.au/afd/taxa/6231c7a7-3895-483c-b647-c873e4535196	Varanus rosenbergi	Mertens, 1957	species	Animalia	Chordata	Reptilia	Squamata	Varanidae	Heath Monitor	1
https://biodiversity.org.au/afd/taxa/6244882a-b6d7-424f-8bc4-528304334b48	Petalura hesperia	Watson, 1958	species	Animalia	Arthropoda	Insecta	Odonata	Petaluridae	Western Petaltail	1
https://biodiversity.org.au/afd/taxa/624b3559-676b-4da8-8cb6-135e8e0b0a1a	Tetragnatha luteocincta	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		1
https://biodiversity.org.au/afd/taxa/62ab71ed-2d2c-4949-b0de-407e720450e9	Succinea (Succinea) australis	(FÃ©russac, 1821)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Succineidae	Striate Ambersnail	1
https://biodiversity.org.au/afd/taxa/6304a7b8-c3df-419b-a497-b36b0007d4b4	Peliococcus subcorticicola	Williams, 1985	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/6306a646-2e62-4045-86fc-ef42ed482dfd	Gonorynchus greyi	(Richardson, 1845)	species	Animalia	Chordata	Actinopterygii	Gonorhynchiformes	Gonorynchidae	Beaked Salmon	1
https://biodiversity.org.au/afd/taxa/6311899f-0b83-4f88-adad-afb64fdb36c0	Lasioglossum (Chilalictus) oblitum	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	1
https://biodiversity.org.au/afd/taxa/631b2c6b-8d33-404e-95a5-c9d49707f688	Rhinophthalmus nasutus	(Shuckard, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/638ba2aa-3dde-4e7c-82dc-3b4377c6c21b	Paramixogaster variegatus	(Walker, 1852)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Hover Fly	1
https://biodiversity.org.au/afd/taxa/63caac36-9db6-4d03-86c7-e050dae85668	Cryptoplus rubiginosus	(Pascoe, 1870)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/63fc4c07-2d27-4b67-88fd-84dc8b16b8e5	Aleuromarginatus marginiquus	Martin, 1999	species	Animalia	Arthropoda	Insecta	Hemiptera	Aleyrodidae		1
https://biodiversity.org.au/afd/taxa/6407a890-1405-48e3-a945-d52796cb4f3f	Hednota crypsichroa	Lower, 1893	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/647f5964-9593-4cb8-945d-f53a8d3d091d	Tetragnatha demissa	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		1
https://biodiversity.org.au/afd/taxa/648924d8-86d5-4f95-aeac-ef7cd3ddaee5	Megachile (Austrochile) resinifera	Meade-Waldo, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		1
https://biodiversity.org.au/afd/taxa/6502b308-6432-49db-8229-6db6eacd3fb7	Diaspidiotus loranthi	(Laing, 1929)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae	Scale Insect	1
https://biodiversity.org.au/afd/taxa/6513778d-ca61-4b2d-a9b1-13da473a7d6e	Dolichoderus niger	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/65aa5d13-e2e7-4c10-9092-5cc3742b23e7	Endoxyla bipustulatus	(Walker, 1865)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cossidae		1
https://biodiversity.org.au/afd/taxa/664075bc-95ae-42d6-b8d4-98e1c4089efc	Perga brullei	Westwood, 1880	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	1
https://biodiversity.org.au/afd/taxa/6666bf89-da47-4595-ac09-2019e23bb4d2	Lantanophaga pusillidactylus	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae	Lantana Plume Moth	1
https://biodiversity.org.au/afd/taxa/66bc7430-68ec-41b9-af68-c18758115008	Miscera mesochrysa	(Lower, 1903)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Brachodidae	Day-flying Moth	1
https://biodiversity.org.au/afd/taxa/66fe917e-044e-4d5a-a6ab-2f0b81a6c4b2	Loweria platydesma	(Lower, 1901)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/670252b6-abf8-4795-9716-69f63935db92	Ecnomus turgidus	Neboiss, 1982	species	Animalia	Arthropoda	Insecta	Trichoptera	Ecnomidae	Caddisfly	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/671aad2c-78e2-4e16-8da3-ccaf09866264	Isara glabra	(Swainson, 1821)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Mitridae	Glabra Mitre	1
https://biodiversity.org.au/afd/taxa/67541bb7-94c2-42ca-b9f1-749c3eefeb5a	Medomega averyi	Winterton & Lambkin, 2012	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		1
https://biodiversity.org.au/afd/taxa/675ea70c-83c6-4847-9a5f-bc0e3399c33d	Diomus notescens	(Blackburn, 1889)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Minute Two-spotted Ladybird	1
https://biodiversity.org.au/afd/taxa/67a2c1d2-2219-4452-a877-df283b793e98	Eochrois caminias	(Meyrick, 1889)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/67aa8b67-8453-4be1-ae45-074fd28a5ebd	Longrita insidiosa	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Trochanteriidae		1
https://biodiversity.org.au/afd/taxa/67c95c72-c7e3-404c-92bf-83d256878cfe	Chledocyon marmoratus	Hansen, 1990	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae		1
https://biodiversity.org.au/afd/taxa/694c9de1-d5b0-4c9c-a66a-b83e4eae809d	Haliotis semiplicata	Menke, 1843	species	Animalia	Mollusca	Gastropoda		Haliotidae		1
https://biodiversity.org.au/afd/taxa/696232b3-a081-41fd-924b-04439177c912	Lioponera inconspicua	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/69dc05cf-fb0f-4cd9-bf6b-c52fe269f066	Syneora mundifera	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/6a393367-c882-434c-beb4-59f03c369258	Eunatalis spinicornis	(Blackburn, 1890)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/6acff150-9b74-4de3-8b4d-f8d69071abfa	Atherinosoma microstoma	(GÃ¼nther, 1861)	species	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	Smallmouth Hardyhead	1
https://biodiversity.org.au/afd/taxa/6ad55d7a-5ead-46fc-a47e-eab7ada13ab5	Rhytiphora lateralis	(Pascoe, 1858)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/6b0b01be-f7e1-4280-9e16-d55fac608650	Cryptoerithus quobba	Platnick & Baehr, 2006	species	Animalia	Arthropoda	Arachnida	Araneae	Prodidomidae		1
https://biodiversity.org.au/afd/taxa/6b3383cc-5a09-479a-861a-3e2325833d52	Sphallomorpha dubia	(Castelnau, 1867)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/6c58b0f8-4792-461c-9c3f-58aa831771cc	Neotoxoptera formosana	(Takahashi, 1921)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphididae	Onion Aphid	1
https://biodiversity.org.au/afd/taxa/6c72d199-f0f1-44d3-8197-224a2f7cff5f	Myrmecobius fasciatus	Waterhouse, 1836	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Myrmecobiidae	Numbat	1
https://biodiversity.org.au/afd/taxa/6d251288-cc49-45c8-a1dc-369402ee1441	Zeleboria carinata	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/6dcd3fd8-d081-4031-9fb8-726c916d73c9	Haplonyx longipilosus	Lea, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/6dd06bac-1d37-4c8e-a18d-a3c1a35f56e9	Stephanopis monulfi	Chrysanthus, 1964	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		1
https://biodiversity.org.au/afd/taxa/6e043146-bef8-4e77-b139-06e491ef006c	Kyphocotis tessellata	Kirkaldy, 1906	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		1
https://biodiversity.org.au/afd/taxa/6e185207-7959-41fd-b1b1-43b6eaf31f05	Ischnoderus xanthorrhoeae	(Lea, 1906)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/6e214b36-2195-4548-b2a7-6a5a608cf4bf	Acanthaluteres brownii	(Richardson, 1846)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	Spinytail Leatherjacket	1
https://biodiversity.org.au/afd/taxa/6e8af8d4-f5b1-4474-ae33-fff121758216	Poecilohetaerus albolineatus	Hendel, 1910	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae	Acalyptrate Fly	1
https://biodiversity.org.au/afd/taxa/6eac1e0c-d63c-49a7-8bd5-580a229886dd	Onychohydrus scutellaris	(Germar, 1848)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/6ed45c88-10d0-4db7-9971-d2733ca45455	Dictyotus roei	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/6ef00bbc-4147-475e-8ded-1e0517b39d27	Ourococcus casuarinae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/6ef3ced2-cc14-4c4f-b65b-07aee2c042e1	Bethelium diversicorne	(White, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Wattle Longhorn	1
https://biodiversity.org.au/afd/taxa/6f30f635-08d7-4dfa-9f57-39cad6747e5e	Listroderes delaiguei	Germain, 1895	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Subterranean Clover Weevil	1
https://biodiversity.org.au/afd/taxa/6f90357f-04ac-4302-879c-0d70b6564bfc	Plaxiphora (Plaxiphora) albida	(Blainville, 1825)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Mopaliidae		1
https://biodiversity.org.au/afd/taxa/7114f0f3-f2ac-4f3e-918e-5038ce269c83	Temognatha mitchellii	(Hope, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/714e3610-621e-4cda-9f3e-c93556e9f965	Apiomorpha maliformis	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/723e7b56-1ec7-4e78-8c35-e38009a12030	Haplonyx rubiginosus	Chevrolat, 1879	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/7273fb8d-1320-414f-8c32-48c607a2aaa4	Coleocoris ocellatus	Gross, 1958	species	Animalia	Arthropoda	Insecta	Hemiptera	Rhyparochromidae		1
https://biodiversity.org.au/afd/taxa/72a59565-b7b9-4842-be46-0823cd3b3376	Torbia viridissima	(Brunner von Wattenwyl, 1878)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae	Gum Leaf Katydid	1
https://biodiversity.org.au/afd/taxa/72ae620c-00ad-4edf-8b4d-5c851d7d10ef	Trichocyclus nullarbor	Huber, 2001	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae		1
https://biodiversity.org.au/afd/taxa/72b23d0a-7050-413f-9100-3562d383888e	Gelochelidon nilotica	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Gull-billed Tern	1
https://biodiversity.org.au/afd/taxa/730364ff-b5da-4372-b4d2-6d1a635a8ed6	Priocnemis tuberculatus	(Smith, 1855)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae		1
https://biodiversity.org.au/afd/taxa/730637d2-7992-42bf-8386-da5d562b9701	Epipompilus gilesi	(Turner, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae		1
https://biodiversity.org.au/afd/taxa/7339ef4e-da45-4f0f-8c05-8611ed9d1aa7	Stigmacros glauerti	McAreavey, 1957	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/737c5702-0627-4011-bdee-d54605d05865	Capua intractana	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/7408d449-311f-43a0-a166-b97efedb31c1	Campylothynnus assimilis	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/743cc7d8-b198-4c40-9421-6c66ef173db0	Rhabdosargus sarba	(ForsskÃ¥l, 1775)	species	Animalia	Chordata	Actinopterygii	Perciformes	Sparidae	Tarwhine	1
https://biodiversity.org.au/afd/taxa/745e4c08-610c-4f44-9082-2ed093784a5f	Linstowinema cinctum	(Linstow, 1898)	species	Animalia	Nematoda	Chromadorea	Spirurida	Seuratidae		1
https://biodiversity.org.au/afd/taxa/74b0dd71-034e-4c5f-83a6-461e431f5cfa	Eulamprus quoyii	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Eastern Water-skink	1
https://biodiversity.org.au/afd/taxa/74e1b6f6-f9ce-4cde-a8f6-30791e892c9f	Trullifiorinia acaciae	(Maskell, 1892)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/74f1fa1e-f2bf-4bbd-8b23-18fddfbcb606	Helpis occidentalis	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/756116a0-7363-43b8-a556-018b209dfb15	Empicoris rubromaculatus	(Blackburn, 1889)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	1
https://biodiversity.org.au/afd/taxa/7579a9fa-62c5-4e0a-9773-ae87cd8ed30a	Moloch horridus	Gray, 1841	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Thorny Devil	1
https://biodiversity.org.au/afd/taxa/75e25548-149c-4c22-9251-409c70b75100	Bolborhachium recticorne	(GuÃ©rin-MÃ©neville, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		1
https://biodiversity.org.au/afd/taxa/7683b712-2ddf-4157-8d04-f410c040972d	Heleioporus albopunctatus	Gray, 1841	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Western Spotted Frog	1
https://biodiversity.org.au/afd/taxa/76d15b46-0662-4b01-ae09-93f625dc4d25	Oryzaephilus surinamensis	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Coleoptera	Silvanidae	Sawtoothed Grain Beetle	1
https://biodiversity.org.au/afd/taxa/76ee9811-d8aa-48bf-bc3d-0b188c24b75c	Austrocarea iocephala	(Turner, 1902)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/76f1cf2b-7300-4634-823b-2b9e7a25bc74	Rhytiphora fraserensis	(Blackburn, 1893)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/77101ecd-936c-4664-900f-4c3a2a70bccf	Miltinus cinctus	Paramonov, 1955	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/776b9606-46e9-45b8-ac80-0a06de1bd8bb	Novapus crassus	Sharp, 1875	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/78106ae5-509d-4ab5-aac9-74f23b8ed9ca	Iridonyssus formicans	Raven, 2015	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae		1
https://biodiversity.org.au/afd/taxa/785592cd-c2f7-449e-ae2e-12e73a5a0548	Elythomerus elongatulus	Waterhouse, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Heteroceridae		1
https://biodiversity.org.au/afd/taxa/7890d5ed-3830-435e-98cb-88c6a1103a91	Psephotus haematonotus	(Gould, 1838)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Red-rumped Parrot	1
https://biodiversity.org.au/afd/taxa/78a54915-5690-4ba2-b7d9-d6adee1ad23c	Oxyops pictipennis	Blackburn, 1894	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/79262e5d-269a-46e5-ac99-01551149d263	Notocistela tibialis	Carter, 1915	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/79324028-528b-4df5-9bd6-a6918b129bbb	Leucania (Acantholeucania) stenographa	Lower, 1900	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Sugarcane Armyworm	1
https://biodiversity.org.au/afd/taxa/798b7706-cf22-48ae-9778-026980b8cb13	Bipalium kewense	Moseley, 1878	species	Animalia	Platyhelminthes	Rhabditophora	Tricladida	Geoplanidae		1
https://biodiversity.org.au/afd/taxa/79e4166f-ebc1-4d8e-a9ea-60f2d714ff65	Brachymeria schuberti	(Girault, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chalcididae		1
https://biodiversity.org.au/afd/taxa/7ad36f76-e999-456e-9a37-dea0e7167eb2	Amorbus bispinus	(Westwood, 1842)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coreidae		1
https://biodiversity.org.au/afd/taxa/7c336d03-ad78-4e9e-9614-3c356e086037	Cherax cainii	Austin, 2002	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Marron	1
https://biodiversity.org.au/afd/taxa/7ccb352b-f920-4057-9cee-af847d8b79da	Dactylosternum abdominale	(Fabricius, 1792)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae		1
https://biodiversity.org.au/afd/taxa/7d082b98-a7a0-4f22-a041-d877fc965cc6	Ascetoderes illusus	(Newman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Teredidae		1
https://biodiversity.org.au/afd/taxa/7d45270b-79b5-4f32-a464-4232d16f55e6	Cethosia penthesilea	(Cramer, 1777)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Orange Lacewing	1
https://biodiversity.org.au/afd/taxa/7d69a9fc-ab80-493b-a008-b75514f70422	Sylvicola dubius	(Macquart, 1850)	species	Animalia	Arthropoda	Insecta	Diptera	Anisopodidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/7ea5e06f-5cd1-4d05-806b-898b4fdda9c1	Tiracerus westwoodi	(Sharp, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/7eb1a29d-ab94-4c28-bb1a-10ae409418cb	Nala lividipes	(Dufour, 1820)	species	Animalia	Arthropoda	Insecta	Dermaptera	Labiduridae	Black Field Earwig	1
https://biodiversity.org.au/afd/taxa/7ef26466-8d45-44a7-b309-78b0f5ca656d	Leioproctus (Odontocolletes) callurus	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/7f0b5430-3e37-4dd4-8dff-d6b288cde445	Turdus merula	Linnaeus, 1758	species	Animalia	Chordata	Aves	Passeriformes	Turdidae	Eurasian Blackbird	1
https://biodiversity.org.au/afd/taxa/7f86e06f-d65a-43ee-a557-278ed1cb6e86	Servaea melaina	Richardson & Gunter, 2012	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/7fa36d45-f662-40c5-8ca0-5c014dcaace1	Notamacropus irma	(Jourdan, 1837)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Western Brush Wallaby	1
https://biodiversity.org.au/afd/taxa/7fcc0b1c-0366-482f-82d6-799787034e04	Blepharotes flavus	Ricardo, 1913	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/80115d8a-e36b-4944-9005-0b5a5dc69abc	Badumna longinqua	(L. Koch, 1867)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae	Grey House Spider	1
https://biodiversity.org.au/afd/taxa/803661a0-b7a7-4bcb-ba3d-5c615ed6fcb0	Storeus variegatus	Boheman, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/80f18583-c869-43f8-a7ef-8cef859e939c	Acantholophus maximus	(Macleay, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/80f42479-70c1-4c9c-8abf-b21639ef32cc	Dosinia (Bonartemis) scalaris	(Menke, 1843)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae	Ridged Dosinia	1
https://biodiversity.org.au/afd/taxa/80fd4d8f-0ac6-4fff-9397-66e0094dff52	Ochrogaster lunifer	Herrich-SchÃ¤ffer, [1855]	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Processionary Caterpillar	1
https://biodiversity.org.au/afd/taxa/81219eb1-546a-441d-8f61-77880bd3bf3d	Delma concinna	Kluge, 1974	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Javelin Lizard	1
https://biodiversity.org.au/afd/taxa/8189969e-66ad-4152-894e-64fa5726ecdf	Notopilo confusus	Bartlett & Lambkin, 2022	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/820d04dd-16ca-4260-9505-72efbe1f6316	Sphaeroscelis pectoralis	Burmeister, 1855	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/82d3ca15-6450-4169-b567-9acab77c66df	Crocodylus johnstoni	Krefft, 1873	species	Animalia	Chordata	Reptilia	Crocodylia	Crocodylidae	Freshwater Crocodile	1
https://biodiversity.org.au/afd/taxa/82df47de-1d49-4efc-acff-3f9e95a7a6a2	Ranatra dispar	Montandon, 1903	species	Animalia	Arthropoda	Insecta	Hemiptera	Nepidae	Needle Bug	1
https://biodiversity.org.au/afd/taxa/8303becb-9813-41cd-9271-60cde8a277ad	Ardozyga dysclyta	(Turner, 1933)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gelechiidae		1
https://biodiversity.org.au/afd/taxa/8308a376-50a5-483b-ac9f-39d702b817ec	Pseudemydura umbrina	Siebenrock, 1901	species	Animalia	Chordata	Reptilia	Testudines	Chelidae	Western Swamp Turtle	1
https://biodiversity.org.au/afd/taxa/837f75fa-8ab2-4fc4-bd1f-3d4243aea9af	Psedna nana	(Rehn, 1953)	species	Animalia	Arthropoda	Insecta	Orthoptera	Pyrgomorphidae	Variable Psedna Grasshopper	1
https://biodiversity.org.au/afd/taxa/842d5feb-69c2-4988-9603-8d5ed50e857c	Castiarina aeraticollis	(Carter, 1930)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/8522374c-a0d1-452a-9e80-7898db3b18c9	Oxycanus occidentalis	Tindale, 1935	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae	Ghost Moth	1
https://biodiversity.org.au/afd/taxa/85551b4f-9b9b-4f38-8115-1d0fb85b5504	Castiarina aquila	(Barker, 1980)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/867af2b5-85f0-44bb-ab2d-7a2e1d4fcce8	Oroderes uniformis	Blackburn, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/869dfe23-30b7-4605-a74e-cfc812e1f6e4	Philobota xanthastis	(Meyrick, 1889)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/86ce8342-eef3-437f-900d-98305d040873	Daerlac picturatus	(Distant, 1904)	species	Animalia	Arthropoda	Insecta	Hemiptera	Rhyparochromidae		1
https://biodiversity.org.au/afd/taxa/8793951c-33f6-4b71-bba9-4135ec60b7a0	Eucrassatella decipiens	(Reeve, 1842)	species	Animalia	Mollusca	Bivalvia	Carditida	Crassatellidae		1
https://biodiversity.org.au/afd/taxa/87e128e0-1bd5-468e-80e6-4e5a58db6e51	Idaea costaria	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	White-edged Wave	1
https://biodiversity.org.au/afd/taxa/88cb3e34-f82f-493a-8a5f-6854c4fca7bc	Neocarenum cylindripenne	Bates, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/88d5edf5-1e1f-497f-856a-50abe7369a6a	Euomus scorpio	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/88fa2e18-a989-43f7-a3e5-a06cc3054e87	Ostrea angasi	Sowerby, 1871	species	Animalia	Mollusca	Bivalvia	Ostreida	Ostreidae	Native Oyster	1
https://biodiversity.org.au/afd/taxa/890f3a6a-b988-4b59-8a5a-4c1eb9133153	Culex (Culex) globocoxitus	Dobrotworsky, 1953	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Mosquito	1
https://biodiversity.org.au/afd/taxa/8983482f-58f5-40b4-ae19-9a8d5fe511f9	Hylaeus (Euprosopoides) rotundiceps	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	1
https://biodiversity.org.au/afd/taxa/8a981792-0498-4137-aba0-bbce748c8fbd	Aldrichetta forsteri	(Valenciennes, 1836)	species	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	Yelloweye Mullet	1
https://biodiversity.org.au/afd/taxa/8a9d2584-efb2-4331-b31b-46ddd481c7b1	Euryglossina (Euryglossina) micheneri	Exley, 1968	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/8af0136d-1e42-4e5e-b978-e7c2e573c575	Macropsis norrisi	(Evans, 1941)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		1
https://biodiversity.org.au/afd/taxa/8b2912ee-b480-4308-854a-528b30e8dc59	Nacoleia mesochlora	(Meyrick, 1884)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/8b3e785f-c57f-4c27-9644-24ca535d8546	Briara basalis	(Schaufuss, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/8ba3d111-d0b2-4f93-a4c5-d6703abf46d7	Hullia commoni	Paramonov, 1964	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/8c8b4529-43e5-4265-93f0-7691680df106	Gea theridioides	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	1
https://biodiversity.org.au/afd/taxa/8cea51fa-0175-4c18-bd2d-de912007f4bf	Ctenochares bicolorus	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/8d05e9ad-7a49-4410-8b38-2db89192ab5d	Gasteruption rugosissimum	(Turner, 1918)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		1
https://biodiversity.org.au/afd/taxa/8d0967e5-ecf5-4691-941e-8cce7954ad68	Eriococcus imperfectus	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/8db18894-6024-4b40-bedc-bf42f0322a8b	Torquigener pleurogramma	(Regan, 1903)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Tetraodontidae	Weeping Toadfish	1
https://biodiversity.org.au/afd/taxa/8e0d2204-fe36-4c58-8d56-54406528706f	Platynectes (Gueorguievtes) decempunctatus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/8f169b28-9241-4a54-aedf-08c1d55ce2fc	Olliffia eucalypti	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/8f42096c-404e-497f-8e3f-c606350a6e42	Bolborhachium triunum	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		1
https://biodiversity.org.au/afd/taxa/8f7dd684-51c0-40ae-898e-a08de807293f	Cleora injectaria	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/8f812790-ca29-4be4-b450-242d5306e13f	Steganopsis melanogaster	(Thomson, 1869)	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae		1
https://biodiversity.org.au/afd/taxa/8fa04648-a19e-455b-96a1-943686426e1a	Carybdea xaymacana	Conant, 1897	species	Animalia	Cnidaria	Cubozoa	Carybdeida	Carybdeidae		1
https://biodiversity.org.au/afd/taxa/8fa8d059-9ce9-41f4-b604-63408d1de0b4	Tringa (Rhyacophilus) stagnatilis	(Bechstein, 1803)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Marsh Sandpiper	1
https://biodiversity.org.au/afd/taxa/8fb2c7b3-8fa9-4696-95d2-7bc696335342	Stigmacros clivispina	(Forel, 1902)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/8fc5f9d6-586f-4f0f-a3dc-2b0e8fe77873	Agenioideus nigricornis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae	Spider Wasp	1
https://biodiversity.org.au/afd/taxa/8fdf7d95-b523-43be-83d2-eab563d337c7	Cryptophasa delocentra	(Meyrick, 1890)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/903fe8da-db46-42c2-a150-727909cc5d9a	Myrmecia clarki	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/91220bca-43ec-4fed-901f-2e347c125d10	Hylaeus (Sphaerhylaeus) globuliferus	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Woolybush Bee	1
https://biodiversity.org.au/afd/taxa/91c04945-b44e-41dd-927a-965820740b6e	Laeviscolia frontalis	(Saussure, 1854)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Scoliidae	Parasitoid Wasp	1
https://biodiversity.org.au/afd/taxa/91c7e7f9-38cd-4007-a026-11907a1b4f54	Oxidus gracilis	(C.L. Koch, 1847)	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		1
https://biodiversity.org.au/afd/taxa/924778ad-245b-400f-a497-af8700c22674	Pyrrholaemus sagittatus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Speckled Warbler	1
https://biodiversity.org.au/afd/taxa/929f397e-4f29-4710-9d10-6a725780410f	Aedes (Ochlerotatus) camptorhynchus	(Thomson, 1869)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Mosquito	1
https://biodiversity.org.au/afd/taxa/92ffed59-42cd-408f-a33a-0ff0f75c3111	Myrmecia michaelseni	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/93094636-e8b5-446e-be22-3e0e30ef2564	Pantoreites micans	Lea, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/933ce3d3-56dc-434c-bba5-850332e74ca3	Moranila comperei	(Ashmead, 1904)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/93468a26-7ebe-4827-ad2f-7fb4ce55a082	Hydraena cygnus	Zwick, 1977	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydraenidae	Minute Moss Beetle	1
https://biodiversity.org.au/afd/taxa/93852469-f5e8-432e-ad53-fbd871afa035	Sterna (Sterna) dougallii	Montagu, 1813	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Roseate Tern	1
https://biodiversity.org.au/afd/taxa/942bf5a4-f8ab-42a2-b7f8-daa269882c50	Scaptia minuscula	Mackerras, 1960	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/9436efa2-7a72-457d-9c6d-382cec7a992d	Helea rugosipennis	(Carter, 1910)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/945387ca-e7e8-4822-aa46-4ca19a89abf5	Austalis smaragdi	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		1
https://biodiversity.org.au/afd/taxa/9454e23b-9df7-499f-949d-b9fae8cfcde2	Synsphyronus mimetus	Chamberlin, 1943	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Garypidae	Pseudoscorpion	1
https://biodiversity.org.au/afd/taxa/948d8ca1-62fc-4d03-a79d-4be2de837264	Sus scrofa	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Artiodactyla	Suidae	Pig	1
https://biodiversity.org.au/afd/taxa/94a2b12e-fff6-4b23-8b6b-07f9a4bb807b	Longepi woodman	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	1
https://biodiversity.org.au/afd/taxa/94b31b15-2e10-4caa-8bd6-217996e8fcfa	Bothriembryon (Bothriembryon) balteolus	Iredale, 1939	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		1
https://biodiversity.org.au/afd/taxa/95989b22-cc7b-4b1c-ac96-b6eb7d23d258	Acanthomima rhipheus	(Westwood, 1859)	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae		1
https://biodiversity.org.au/afd/taxa/964d0334-ac5d-4ccb-bf97-4e513dec2a1d	Sphex bilobatus	Kohl, 1895	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		1
https://biodiversity.org.au/afd/taxa/96db6160-ca14-4e1f-9236-e2baaca553da	Anas (Nettion) gracilis	Buller, 1869	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Grey Teal	1
https://biodiversity.org.au/afd/taxa/96e35cba-e86c-47dd-848e-056377227209	Hamirostra melanosternon	(Gould, 1841)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Black-breasted Buzzard	1
https://biodiversity.org.au/afd/taxa/970bcf98-2b68-461f-a610-fe4ecba87a04	Stomorhina pollinosa	Dear, 1977	species	Animalia	Arthropoda	Insecta	Diptera	Rhiniidae		1
https://biodiversity.org.au/afd/taxa/97c64d44-eae2-4381-891a-0db6dab2799c	Thyene concinna	(Keyserling, 1881)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/97dd93a2-fe3f-4083-b21a-4340af658b1f	Pachyneuron emersoni	Girault, 1916	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/97f4d62d-440b-407d-92dc-9bd0c6db3ffb	Turneromyia bassiana	(Turner, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae	Spider Wasp	1
https://biodiversity.org.au/afd/taxa/98387250-42dc-4eb1-a51c-832e2e92cae9	Coccophagus scutellaris	(Dalman, 1825)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Aphelinidae		1
https://biodiversity.org.au/afd/taxa/984bf7f3-3089-4e55-b494-a285eda21b1d	Motacilla (Budytes) tschutschensis	Gmelin, 1789	species	Animalia	Chordata	Aves	Passeriformes	Motacillidae	Eastern Yellow Wagtail	1
https://biodiversity.org.au/afd/taxa/98b8df13-e1d4-4127-82eb-2dff9484f246	Paropsis ornata	(Marsham, 1808)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/98e067fa-ad65-47d2-aec5-4ec5d8eaff49	Tmesothynnus zelebori	(Saussure, 1868)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/991e8681-74a6-4eb8-b24c-adfc5251e206	Notsodipus muckera	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	1
https://biodiversity.org.au/afd/taxa/99313ef3-fec4-4262-bbed-43001d777530	Latrodectus geometricus	C.L. Koch, 1841	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Brown Widow Spider	1
https://biodiversity.org.au/afd/taxa/9985033b-2298-4dfd-8ee6-8596b24b88fa	Achaea janata	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/998f68fd-c063-4fd8-921f-c693a83bb6ac	Castiarina octopunctata	Barker, 1995	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/99e0e13e-49d5-421a-a8f2-3d2ec0fdeb60	Dolomedes facetus	L. Koch, 1876	species	Animalia	Arthropoda	Arachnida	Araneae	Pisauridae	Nursery Web Spider	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/9a26c173-90db-40c8-a40a-c941f10b9289	Calliphora (Paracalliphora) dubia	(Macquart, 1855)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae	Blow Fly	1
https://biodiversity.org.au/afd/taxa/9a386f42-e1a0-4109-b295-969d6a6639b8	Hednota bivittella	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		1
https://biodiversity.org.au/afd/taxa/9abbd117-3bd0-4e07-9a3d-a69dd6eb938a	Phalacrocorax (Anacarbo) fuscescens	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Black-faced Cormorant	1
https://biodiversity.org.au/afd/taxa/9b0a4ad7-4103-41ef-8f27-7274f380413a	Cyphotettix camelus	Rehn, 1952	species	Animalia	Arthropoda	Insecta	Orthoptera	Tetrigidae		1
https://biodiversity.org.au/afd/taxa/9b4016f5-31c8-47b3-9837-8c40703f82ff	Meranoplus aureolus	Crawley, 1921	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/9b64a189-6b45-4901-81bf-d4b120eca329	Mallada tripunctatus	(McLachlan, 1867)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		1
https://biodiversity.org.au/afd/taxa/9bc8a9ac-453a-44b7-a6fa-943ce38df29c	Delena lapidicola	(Hirst, 1991)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		1
https://biodiversity.org.au/afd/taxa/9bd8f66c-ccf4-40af-b2b7-683f59efae8c	Australomimetus auricolatus	(Hickman, 1929)	species	Animalia	Arthropoda	Arachnida	Araneae	Mimetidae	Pirate Spider	1
https://biodiversity.org.au/afd/taxa/9bdbbf80-e6f0-43a7-a44a-590087e34126	Notalina fulva	Kimmins, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/9c2f4309-3210-4171-9a0c-5d879aade079	Atherinomorus vaigiensis	(Quoy & Gaimard, 1825)	species	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	Common Hardyhead	1
https://biodiversity.org.au/afd/taxa/9c87fdf1-cda3-4708-87bb-a8a3cac6282c	Platylomalus umbilicatus	(Marseul, 1870)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/9c91710d-757b-40aa-912a-37813d7e8142	Anoeconeossa communis	Taylor, 1987	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae		1
https://biodiversity.org.au/afd/taxa/9c99ed7a-4a64-4174-b37f-558949f64cef	Plebs bradleyi	(Keyserling, 1887)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Enamelled Spider	1
https://biodiversity.org.au/afd/taxa/9cba92b1-d1c6-43b6-b313-8c691f490d1a	Belenois java	(Linnaeus, 1768)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Caper White	1
https://biodiversity.org.au/afd/taxa/9cf82761-df07-4dee-9ef2-1593e20ac825	Monomorium rothsteini	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Smiling Mono Ant	1
https://biodiversity.org.au/afd/taxa/9d137712-8748-4601-a698-1c8731a63646	Mygalopsis marki	Bailey, 1980	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/9d9d727f-7066-4e0b-a657-54efb0c5b381	Forficula auricularia	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Dermaptera	Forficulidae	European Earwig	1
https://biodiversity.org.au/afd/taxa/9dd46d49-66ae-44d1-82ab-4f12e88d7084	Miscera centropis	Meyrick, 1907	species	Animalia	Arthropoda	Insecta	Lepidoptera	Brachodidae	Day-flying Moth	1
https://biodiversity.org.au/afd/taxa/9e2b4f17-aff6-4855-82ca-0edb08c542f1	Quasispermophorella neuropunctata	(Esben-Petersen, 1917)	species	Animalia	Arthropoda	Insecta	Neuroptera	Berothidae		1
https://biodiversity.org.au/afd/taxa/9e53e17e-a1a5-46c2-a728-3211b4bac7b9	Phallaria ophiusaria	GuenÃ©e, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Brown Leaf Moth	1
https://biodiversity.org.au/afd/taxa/9eb24055-3d88-4f4c-9afd-f1b94855d506	Tympanophora pinnaroo	Rentz, 2001	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/9f4ef5f0-7a28-44d0-a263-dea4f05f3cce	Tridentiger trigonocephalus	(Gill, 1860)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Trident Goby	1
https://biodiversity.org.au/afd/taxa/9fe09f0f-809f-467e-a86b-71dbe88857f6	Hesthesis angulatus	Pascoe, 1863	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/9ffc2a82-51a5-4bf6-9c9d-9c787e3dbb68	Eupines (Eupines) flavoapicalis	Lea, 1910	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/a02783da-9f50-4129-b315-26145214e87a	Orcus nummularis	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		1
https://biodiversity.org.au/afd/taxa/a067bc8a-75a5-492c-a769-f4fe37e9492d	Copidita erythroderes	Lea, 1917	species	Animalia	Arthropoda	Insecta	Coleoptera	Oedemeridae		1
https://biodiversity.org.au/afd/taxa/a0c26a7b-70b6-44f9-999c-407f91c3e051	Euryglossina (Euryglossina) melanocephala	Exley, 1968	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/a0e29fe2-d56a-45fc-afdc-d65e916b2b2e	Terobiella similis	(Girault, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/a0ed1e30-e941-48ff-9d59-c5868455870d	Protoplectron longitudinale	Tillyard, 1916	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Lacewing	1
https://biodiversity.org.au/afd/taxa/a0f00fbc-5825-49c7-aedb-aabd03c19e23	Grammodes oculicola	Walker, 1858	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/a108acef-2255-4866-9bfa-66a49e84fb99	Camponotus walkeri	Forel, 1893	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Sugar Ant	1
https://biodiversity.org.au/afd/taxa/a1e04960-ebbc-40cb-8856-046387888fa3	Euhesma (Euhesma) tubulifera	(Houston, 1983)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/a2074cb8-e146-452c-b326-e2b583f51cc6	Setonix brachyurus	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Quokka	1
https://biodiversity.org.au/afd/taxa/a32b609d-74fd-4177-897e-19dfe2aa6a31	Evas argenteiventris	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/a427e490-1634-416a-a9e8-25b5fc4ff651	Phryssonotus novaehollandiae	(Silvestri, 1923)	species	Animalia	Arthropoda	Diplopoda	Polyxenida	Synxenidae		1
https://biodiversity.org.au/afd/taxa/a51908b7-0cc9-43b3-bdc8-8f673ab53f0e	Pheidole impressiceps	Mayr, 1876	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/a51dca29-50e7-49b4-ae35-5c35a9c4f854	Synemon plana	Walker, 1854	species	Animalia	Arthropoda	Insecta	Lepidoptera	Castniidae	Golden Sun Moth	1
https://biodiversity.org.au/afd/taxa/a534720d-0c1f-4aad-864e-42b7b561d325	Armactica columbina	Walker, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae		1
https://biodiversity.org.au/afd/taxa/a556e305-47fa-4ad8-b69f-21c37ddb6d06	Dichromodes leptozona	Turner, 1930	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/a5b927dd-d5ca-4371-aba2-c4d3ff0b8872	Euphanta munda	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Flatidae		1
https://biodiversity.org.au/afd/taxa/a5fbaef3-553a-428a-b452-4f4cf3aab200	Aphanosperma occidentalis	Britton, 1969	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/a7720374-49dd-4688-80f7-3ef95bf3f128	Newmanoperla exigua	(Kimmins, 1951)	species	Animalia	Arthropoda	Insecta	Plecoptera	Gripopterygidae	Stonefly	1
https://biodiversity.org.au/afd/taxa/a7d96973-4c8b-4abb-b0d4-cc4df11bbd14	Habroloma australis	(Macleay, 1888)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/a8c135bf-e736-4eb0-94e7-c7a8e055ace9	Teredo furcifera	von Martens, 1894	species	Animalia	Mollusca	Bivalvia	Myida	Teredinidae		1
https://biodiversity.org.au/afd/taxa/a9470499-c372-4ca8-bd99-c7d0ba0fc5cc	Helpis minitabunda	(L. Koch, 1880)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Bronze Aussie Jumping Spider	1
https://biodiversity.org.au/afd/taxa/a9523d79-4195-4d4d-80b2-1c8b5117ce09	Castiarina gravis	(Harold, 1869)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/aaed4d86-574b-4626-b99d-be1e22b83d35	Poecilasthena anthodes	(Meyrick, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/ab5501d6-a60b-49d7-9c09-2fcd16e4c860	Bombyx mori	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Bombycidae	Silkworm	1
https://biodiversity.org.au/afd/taxa/abb419a9-49ee-49a9-83f2-1fbb7dcc2196	Coccobius gracilis	(Howard, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Aphelinidae		1
https://biodiversity.org.au/afd/taxa/ac9a9100-ca22-4683-85ea-72b9fc9ab6bb	Ippatha australiensis	Distant, 1910	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/acbc8672-cd73-4581-acdc-584577441673	Aiolopus thalassinus	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/acd10974-44bc-4daa-8321-367ba18d1881	Stenoptilia zophodactylus	(Duponchel, 1840)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae	Plume Moth	1
https://biodiversity.org.au/afd/taxa/ad05a67a-f8ba-4328-ba08-ce113f2914bc	Diplocotes longicornis	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/ad577d1f-9153-4a31-a70d-b3364d325ed5	Xanthorhoe vacuaria	(GuenÃ©e, 1857 [1858])	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/ad5c3a33-2d0f-41f8-8f40-f68af8eb19de	Camponotus lownei	Forel, 1895	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Sugar Ant	1
https://biodiversity.org.au/afd/taxa/ad74c785-b255-42bb-9ed9-c5af854ed39c	Cyprotides cyprotus	(Olliff, 1886)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Copper Pencilled-blue	1
https://biodiversity.org.au/afd/taxa/adbc1c62-faba-453c-9ba9-2183ceb65a5d	Scolia (Discolia) verticalis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Scoliidae	Parasitoid Wasp	1
https://biodiversity.org.au/afd/taxa/adf7620e-0f85-4c40-9c08-e554fe26ffa9	Marteena rubricincta	(Goding & Froggatt, 1904)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Large Yellow-spotted Cicada	1
https://biodiversity.org.au/afd/taxa/ae72f6c9-047b-44b2-8d06-f06fd4707b03	Lioponera angustata	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/aec73fd3-f93e-4c5d-b523-8bc7998dc015	Chrysis perthensis	(Linsenmaier, 1982)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		1
https://biodiversity.org.au/afd/taxa/af1259ca-0a43-4ad1-9626-105ee00d1521	Psilosticha pristis	(Meyrick, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/af4cdc9c-77f3-4c7d-8004-26e5933c7912	Hesperenoeca leucostemma	(Turner, 1941)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/b0c75774-8550-49de-a2f8-ae2104ad4bd8	Ischnochiton (Haploplax) smaragdinus	(Angas, 1867)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		1
https://biodiversity.org.au/afd/taxa/b0e3e827-a0b5-4ecd-817b-e90a320a86a9	Ophelimus zealandicus	(Ashmead, 1904)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Eulophidae		1
https://biodiversity.org.au/afd/taxa/b12a16e9-28bf-4dc2-a6be-6bed5674e666	Campion callosus	Lambkin, 1986	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		1
https://biodiversity.org.au/afd/taxa/b17002de-8cbb-4bcb-b4a5-048afcfea852	Pseudococcus longispinus	(Targioni Tozzetti, 1867)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae	Kimhit Aruqat Zanav	1
https://biodiversity.org.au/afd/taxa/b1b0600f-0f94-48da-a61d-103d9fd5e644	Apsilochorema urdalum	Neboiss, 1962	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydrobiosidae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/b1b3ee6a-6db3-4de9-a360-ea240283d5c9	Idaea philocosma	(Meyrick, 1888)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/b1c41141-c348-4f3f-b597-a35da015da2b	Goniaea vocans	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Slender Gumleaf Grasshopper	1
https://biodiversity.org.au/afd/taxa/b1c7a5ab-ffb8-49c4-a8d0-4594247fbe79	Anthrax maculatus	Macquart, 1846	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/b1ed4690-17be-4f0b-a937-00f1705f71ad	Castiarina recta	(Saunders, 1869)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/b1f2939e-4dbe-4bbd-9f5e-8d943076ddb5	Miltinus stenogaster	(Westwood, 1841)	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/b1ffadc9-ca1e-41fd-a1a8-14f7f476db8e	Dosinia (Fallartemis) sculpta	(Hanley, 1845)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae	Sculptured Dosinia	1
https://biodiversity.org.au/afd/taxa/b229e643-ed65-4914-9c38-87253751eeea	Cercophonius granulosus	Kraepelin, 1908	species	Animalia	Arthropoda	Arachnida	Scorpiones	Bothriuridae		1
https://biodiversity.org.au/afd/taxa/b25baeb6-01ff-4d68-bc7d-52b46aaa214b	Hogna kuyani	Framenau, Gotch & Austin, 2006	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		1
https://biodiversity.org.au/afd/taxa/b2686755-a3b5-42db-9ccd-7c602e036b0c	Masasteron maini	Baehr, 2004	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/b2bc11cf-b219-4416-811e-86493963f82d	Ardozyga stratifera	(Meyrick, 1904)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gelechiidae	Twirler Moth	1
https://biodiversity.org.au/afd/taxa/b2bda61f-7db9-4439-88cc-7c8af8a67d34	Paragia tricolor	Smith, 1850	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		1
https://biodiversity.org.au/afd/taxa/b2f41412-2a00-4b03-95ac-ffae95e56719	Fisera hypoleuca	(Turner, 1919)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Russet Crest-moth	1
https://biodiversity.org.au/afd/taxa/b361d98e-0131-43c5-99dd-8e3a8bb69716	Astenus australicus	Bernhauer, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/b36e49fa-7d41-4fb2-8e40-7cb2e42e8892	Misumena bipunctata	Rainbow, 1898	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		1
https://biodiversity.org.au/afd/taxa/b3b4a4fe-34e8-44a0-806e-619f7db7d47f	Pheidole ampla	Forel, 1893	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/b3b57533-1d98-4c53-9ed9-df162701c770	Myrmecia ludlowi	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/b3b6a51a-dec4-40b2-bf95-c06216f2c161	Iphierga chrysopa	Turner, 1917	species	Animalia	Arthropoda	Insecta	Lepidoptera	Psychidae		1
https://biodiversity.org.au/afd/taxa/b4a775e2-4e5f-4320-9057-46f3b0010f18	Scolecobrotus westwoodii	Hope, 1833	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/b4fa5e42-8033-4538-af25-8b87ced8f344	Atrapsalta encaustica	(Germar, 1834)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Black Squeaker	1
https://biodiversity.org.au/afd/taxa/b56d630f-352d-4589-854a-bdd09b14495c	Strongylorhinus ochraceus	Schoenherr, 1847	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	(gregarious Gall Weevil)	1
https://biodiversity.org.au/afd/taxa/b57b7147-da45-4b89-a37f-e9b8feff728b	Strepsicrates ejectana	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Guava Bud Moth	1
https://biodiversity.org.au/afd/taxa/b6cac5b0-27cc-4c85-9c94-e076a632acd0	Castiarina robusta	(Saunders, 1869)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/b70bbbbc-741a-4fdf-9a76-413a52658dd5	Anilicoides haemorrhoidalis	(CandÃ¨ze, 1889)	species	Animalia	Arthropoda	Insecta	Coleoptera	Elateridae		1
https://biodiversity.org.au/afd/taxa/b7103846-4983-43d4-915c-25af23d9ced7	Phanerotoma behriae	Zettel, 1988	species	Animalia	Arthropoda	Insecta	Hymenoptera	Braconidae		1
https://biodiversity.org.au/afd/taxa/b81d7156-7904-469c-97a6-0bf0b1117c66	Meroglossa rubricata	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/b83fb8c7-1996-4723-ab74-e3ce8e915827	Neolaemosaccus varius	(Bovie, 1909)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/b8ab34bd-fc31-4e3d-a444-60a769e73699	Cleora displicata	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/b8b7aa72-3fae-4fda-a873-7c1b525182e1	Cyrioides vittigera	(Laporte & Gory, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/b94ff043-95cf-43a4-8655-db50efb88c5c	Glenbalodectes norrisi	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/b9525759-a794-4d17-8160-fd77a4801d26	Scolopendra morsitans	Linnaeus, 1758	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		1
https://biodiversity.org.au/afd/taxa/b9a6855d-f095-40d0-bd4f-5e8e2773b89d	Oecetis walpolica	Neboiss, 1982	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/b9f0356d-b0a3-4e1e-912c-b43669ea2420	Astraeus (Astraeus) fraterculus	van de Poll, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/ba24beae-d4ac-4da0-8026-3e32f5d63dda	Amenia nigromaculata	Malloch, 1929	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae		1
https://biodiversity.org.au/afd/taxa/ba3085be-f4ad-4ba3-9915-0e611cdfda19	Eurymelops latifascia	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	1
https://biodiversity.org.au/afd/taxa/bab8dc2c-2f72-42cd-b302-871974162669	Wurda norrisi	Lambkin & Yeates, 2003	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/bac5257b-d89d-4311-9c44-fce1e9b80405	Mauropteron pelago	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae	Robber Fly	1
https://biodiversity.org.au/afd/taxa/bace597d-d167-4c96-856d-b2fa5c3fed68	Metopochetus (Seva) bickeli	McAlpine, 1998	species	Animalia	Arthropoda	Insecta	Diptera	Micropezidae		1
https://biodiversity.org.au/afd/taxa/bb02f6d8-9507-4886-a33b-b4b59a41b9f5	Bembix leeuwinensis	Turner, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		1
https://biodiversity.org.au/afd/taxa/bb5bcfcf-a3ef-4d27-acbd-a511c344cc16	Gotra pomonellae	(Cameron, 1912)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/bb5e8c3b-c218-4551-ba78-0873a9af6288	Mogulones larvatus	(Schultze, 1897)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Paterson's Curse Crown Weevil	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/bb8df0af-3390-433a-8376-8d116a96b04d	Temognatha reichei	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/bc284369-fd28-45c3-a31d-6d26d5328220	Hypsidia microspila	(Turner, 1942)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Drepanidae		1
https://biodiversity.org.au/afd/taxa/bc3f268c-b467-4db3-9d8e-868580c40b4b	Scoloplos normalis	(Day, 1977)	species	Animalia	Annelida	Polychaeta		Orbiniidae		1
https://biodiversity.org.au/afd/taxa/bc8abf00-d671-49ab-a08f-8c385750f8ff	Tiracerus pascoeus	(Sharp, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/bd6d5aed-65d7-446b-be6c-3e5c2c7f92ca	Micramicta amolgaea	(Turner, 1938)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/bede92e7-8579-4f90-af9c-bff648047f2b	Tetramorium impressum	(Viehmeyer, 1925)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/beefc08a-4a28-42aa-a92e-94f44511efde	Blackbolbus taurus	(Westwood, 1848)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		1
https://biodiversity.org.au/afd/taxa/bf01070a-0f1f-46b1-a527-57c1ca400258	Oncocoris desertus	Bergroth, 1916	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		1
https://biodiversity.org.au/afd/taxa/bf8c0283-f035-473b-893b-e365242738d3	Austrotichus rugosus	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Scutelleridae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/bf8d2470-6c86-4483-b695-51fa1a373ec1	Kalotermes aemulus	Sewell & Gay, 1978	species	Animalia	Arthropoda	Insecta	Blattodea	Kalotermitidae		1
https://biodiversity.org.au/afd/taxa/bfc132cc-2347-4f09-ab96-552132fd2413	Platysoma (Platysoma) georgii	Marseul, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/bfdad07d-4fb1-41ce-8edb-e9e54871b8d6	Lixus breweri	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/c00640fb-38ea-4e6d-9e26-bb631d39f50c	Laetesia mollita	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Linyphiidae	Money Spider	1
https://biodiversity.org.au/afd/taxa/c07a0c8d-34e6-434a-b077-b68c325eac8d	Aphneope sericata	Pascoe, 1863	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/c07b4490-d6f9-4cce-bb34-5d30e8ecc999	Ischnochiton (Autochiton) torri	Iredale & May, 1916	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		1
https://biodiversity.org.au/afd/taxa/c11ca0d9-0413-4ba5-806e-e09ca7803041	Coptocercus pedator	(Pascoe, 1864)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/c142fe83-f2c5-45f4-9406-d716112a18e8	Poecilipta smaragdinea	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae		1
https://biodiversity.org.au/afd/taxa/c1530893-f4d9-4bd9-966e-2eda5f921b46	Megalothynnus friederichi	(Dalla Torre, 1897)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/c2ae2daf-6856-494f-b0fb-37309950da54	Bungulla harrisonae	Rix, Raven & Harvey, 2018	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		1
https://biodiversity.org.au/afd/taxa/c2b9ce1e-762f-4415-ac05-ab41c1cf94c7	Physiphora clausa	(Macquart, 1843)	species	Animalia	Arthropoda	Insecta	Diptera	Ulidiidae		1
https://biodiversity.org.au/afd/taxa/c306e3f1-03aa-435d-bac7-551c9c7d1e46	Delena cancerides	Walckenaer, 1837	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Flat Huntsman Spider	1
https://biodiversity.org.au/afd/taxa/c35f13a3-d8d0-4bf0-9c78-3654604edb54	Musculus (Musculus) nanulus	Thiele, 1930	species	Animalia	Mollusca	Bivalvia	Mytilida	Mytilidae		1
https://biodiversity.org.au/afd/taxa/c37c3b1a-9bd5-4f63-9ec9-b9b46a2e6266	Chrysopogon melanorrhinus	Clements, 1985	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae	Robber Fly	1
https://biodiversity.org.au/afd/taxa/c3998ce1-74f4-4e95-a41a-7207c932bba9	Mackerrastrongylus mawsonae	Inglis, 1968	species	Animalia	Nematoda	Chromadorea	Rhabditida	Trichostrongylidae		1
https://biodiversity.org.au/afd/taxa/c3d010b9-6067-407f-b451-3a3ce2f22134	Musca vetustissima	Walker, 1849	species	Animalia	Arthropoda	Insecta	Diptera	Muscidae	Bush Fly	1
https://biodiversity.org.au/afd/taxa/c413e82b-40ae-4473-8461-f80ab97f9342	Nasutitermes exitiosus	(Hill, 1925)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae	Snouted Termite	1
https://biodiversity.org.au/afd/taxa/c45b74db-e978-4a41-a019-ec13e941230f	Oxyopes punctatus	L. Koch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae		1
https://biodiversity.org.au/afd/taxa/c4e1c080-fbeb-4bad-ab3d-8e5e1ee309dc	Sessinia punctum	(W.S. Macleay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Oedemeridae		1
https://biodiversity.org.au/afd/taxa/c522e1a9-848b-41cc-ad8e-5a9e99dd87e9	Apiomorpha ovicoloides	(Tepper, 1893)	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae	Felt Scale Insect	1
https://biodiversity.org.au/afd/taxa/c548bc5c-49e8-469f-b835-31b594982146	Aphela helopoides	Pascoe, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/c5f2228b-9844-4072-9cb9-cc9510c54124	Achaea argilla	Swinhoe, 1901	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/c6531fa7-4305-4fa5-bed1-69958d542aef	Hyphydrus elegans	(Montrouzier, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/c6b5a8d2-b19b-4bcc-ac13-30f4f4d79a2e	Podomyrma chasei	Forel, 1901	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/c7807e28-1ef5-4a18-9954-ef6dce7ff7e1	Hemiaspis signata	(Jan, 1859)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Black-bellied Swamp Snake	1
https://biodiversity.org.au/afd/taxa/c7a7d28f-b337-4470-af70-8d24aacae4ae	Encopothynnus spinulosus	Turner, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/c7c49527-b148-4e8b-ba1f-6be2aa73dfaf	Nauphoeta cinerea	(Olivier, 1789)	species	Animalia	Arthropoda	Insecta	Blattodea	Blaberidae	Speckled Cockroach	1
https://biodiversity.org.au/afd/taxa/c802c55f-80a8-481a-8a31-f7db7923ea9a	Dimorphochilus apicalis	Borchmann, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/c82559eb-0f2d-495b-9d13-fdf5964f8ccc	Platyzosteria similis	Princis, 1954	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Cockroach	1
https://biodiversity.org.au/afd/taxa/c8262ee9-60df-4c98-9604-e50354f94053	Gaius villosus	Rainbow, 1914	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		1
https://biodiversity.org.au/afd/taxa/c9d2e57d-a4b9-418d-a0a0-4c9477c04416	Araneus ginninderranus	Dondale, 1966	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	1
https://biodiversity.org.au/afd/taxa/ca0f23e8-b0f0-4980-8991-737b1b394fc5	Erigone prominens	Bosenberg & Strand, 1906	species	Animalia	Arthropoda	Arachnida	Araneae	Linyphiidae	Money Spider	1
https://biodiversity.org.au/afd/taxa/ca42ab9c-74aa-4339-889a-33d4410dacb7	Utetheisa lotrix	(Cramer, 1777)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	1
https://biodiversity.org.au/afd/taxa/cafa2b08-a812-4908-a69c-912b1b419cfc	Paropsis elytrura	Blackburn, 1901	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/cb42bbaa-d172-4617-8a49-ce13b7bcc4f0	Eriococcus hakeae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/cb4c2b42-e227-4ca5-885a-c2326ae6321c	Molochtus gagates	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/cc7bddfb-4077-49fd-8bbf-b683564fc0f7	Blatta orientalis	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Oriental Cockroach	1
https://biodiversity.org.au/afd/taxa/ccea2408-a0f1-4a5f-b080-3e77ff1b38d9	Aonidia banksiae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/cd6ad15a-894b-4d91-9e6c-6e6c21fd5091	Allodessus bistrigatus	(Clark, 1862)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/ce69a115-a5e4-4332-b737-23baf53f77e9	Hoplostega ochroma	(Meyrick, 1886)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/cfb39306-586c-4270-9ecb-7679ebe4c563	Frontalia genalis	Malloch, 1929	species	Animalia	Arthropoda	Insecta	Diptera	Pyrgotidae		1
https://biodiversity.org.au/afd/taxa/cfb6c4e0-2899-4322-929a-c47d66a4abfb	Porcellio laevis	Latreille, 1804	species	Animalia	Arthropoda	Malacostraca	Isopoda	Porcellionidae		1
https://biodiversity.org.au/afd/taxa/cfe9eca1-feb1-453d-bbb9-5794c5fb0158	Poecilasthena xylocyma	(Meyrick, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/cfea8d32-3a6d-4db0-8819-3b5112a5a471	Euryglossina (Euryglossina) perpusilla	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/d00b4a1f-ffc3-4636-985d-f640a4e1c316	Conuber conicum	(Lamarck, 1822)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Naticidae	Conical Sand Snail	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/d0448257-ea49-4298-97b2-82cd7df01180	Parathyginus acuminatus	Malipatil, 2021	species	Animalia	Arthropoda	Insecta	Hemiptera	Heterogastridae		1
https://biodiversity.org.au/afd/taxa/d0797ddf-5eaf-40da-84e0-87c2f97e2da5	Castiarina laena	(Thomson, 1879)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/d0845748-65a1-4aa8-9ac6-46bde2e89d72	Polyrhachis (Campomyrma) femorata	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	1
https://biodiversity.org.au/afd/taxa/d147024b-971d-4eee-b3e0-83c0601cb3d2	Heleioporus inornatus	(Lee & Main, 1954)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Plains Frog	1
https://biodiversity.org.au/afd/taxa/d169c670-875a-4f1e-a1a9-fbb19430ba10	Melanozosteria occidentalis	Mackerras, 1968	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		1
https://biodiversity.org.au/afd/taxa/d17a5660-110b-40a0-80af-93926fbb3056	Pristoderus elongatus	(Blackburn, 1891)	species	Animalia	Arthropoda	Insecta	Coleoptera	Zopheridae		1
https://biodiversity.org.au/afd/taxa/d18210b4-ea60-48e2-8894-078ec46194d2	Scoloplos cylindrifer	Ehlers, 1904	species	Animalia	Annelida	Polychaeta		Orbiniidae		1
https://biodiversity.org.au/afd/taxa/d2d7481a-4639-4993-bcd1-07f97980f962	Bostockia porosa	Castelnau, 1873	species	Animalia	Chordata	Actinopterygii	Perciformes	Percichthyidae	Nightfish	1
https://biodiversity.org.au/afd/taxa/d35aa5f5-3395-4a93-a8be-1f661ef7ea3b	Casbia lithodora	(Meyrick, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/d4fbd9cd-ac30-4c85-a990-b38f48f2fe25	Euomma testacea	(Carter, 1920)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/d54e4d6d-5901-434f-bedb-0c9e1cf46559	Psalidostetha banksiae	(Lewin, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Banksia Moth	1
https://biodiversity.org.au/afd/taxa/d5557f1d-f417-437f-b548-e02f42cc6974	Diplazon laetatorius	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/d5776799-414c-4012-87fc-4a069acf84f6	Abantiades lineacurva	Moore & Edwards, 2014	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae		1
https://biodiversity.org.au/afd/taxa/d599e780-27f9-4077-a4cb-5844d5656444	Lasioglossum (Chilalictus) metallicum	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/d59edf76-5bcd-48c5-90ef-8d7948541044	Ciampa melanostrepta	(Lower, 1893)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/d5ad45ee-bed8-4378-8a71-dfece38023f6	Encarsia perseus	(Girault, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Aphelinidae		1
https://biodiversity.org.au/afd/taxa/d5b6c816-b979-4b95-84d8-739d4de6104c	Falco (Hierofalco) subniger	G.R. Gray, 1843	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Black Falcon	1
https://biodiversity.org.au/afd/taxa/d5e88c70-f981-4c65-a69a-b4feffd955a7	Achaearanea tepidariorum	(C.L. Koch, 1841)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	1
https://biodiversity.org.au/afd/taxa/d6192a35-3f44-458b-9505-a571955fc476	Ptilonorhynchus violaceus	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Passeriformes	Ptilonorhynchidae	Satin Bowerbird	1
https://biodiversity.org.au/afd/taxa/d636d35b-9fca-40f5-bd7f-ee9cde8e96f7	Ectopatria mundoides	(Lower, 1893)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/d6e55051-fd45-4e42-a028-f20ebabb343a	Diplodactylus pulcher	(Steindachner, 1870)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Fine-faced Gecko	1
https://biodiversity.org.au/afd/taxa/d722a304-7bbf-48a6-a2d8-81ddd3783af6	Leichenum canaliculatum	(Fabricius, 1798)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/d7cd95eb-814c-4d43-b97d-cd10ccae072d	Deretaphrus xanthorrhoeae	Lea, 1899	species	Animalia	Arthropoda	Insecta	Coleoptera	Bothrideridae		1
https://biodiversity.org.au/afd/taxa/d80adaad-c1cf-4660-a378-d5bd42b2819e	Aonychus bicruciatus	Lea, 1905	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/d8cdc7df-6049-4fb7-9e2c-48fd75ecca76	Melita matilda	J.L. Barnard, 1972	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Melitidae		1
https://biodiversity.org.au/afd/taxa/da09d8a0-13b4-46ad-a2de-79bfa0e40f02	Syneora leucanthes	(Turner, 1947)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/da29fd7f-21ab-4131-a929-852514ef8aef	Codula occidentalis	Clements, 1985	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/da3e1c04-7a6e-4b1e-ab92-49523cdee86d	Everardia picta	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		1
https://biodiversity.org.au/afd/taxa/da5db081-bc10-4b47-93cf-18ed30d89a1a	Pachyptila desolata	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Procellariiformes	Procellariidae	Antarctic Prion	1
https://biodiversity.org.au/afd/taxa/daa188cc-adc2-4b8b-92e9-d8f4ee0b28d7	Ptilotula penicillata	(Gould, 1837)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-plumed Honeyeater	1
https://biodiversity.org.au/afd/taxa/db481bbc-06c2-49c7-a5ae-8f593dd12fe6	Bimia bicolor	White, 1850	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Bimia Longicorn	1
https://biodiversity.org.au/afd/taxa/dc92be94-a3e2-4cb2-8614-7087fccece87	Pseudopenthes hesperis	Lambkin & Yeates, 2003	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		1
https://biodiversity.org.au/afd/taxa/dd1217b7-1867-427d-9e0d-4a70e95e8b8b	Crinia signifera	Girard, 1853	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Common Froglet	1
https://biodiversity.org.au/afd/taxa/ddf4074f-0d90-47fd-85ac-ad5263df7f7c	Eucalyptolyma maideni	Froggatt, 1901	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae		1
https://biodiversity.org.au/afd/taxa/ded0d1a2-27a2-4cfc-9258-db4715d39441	Teredo bartschi	Clapp, 1923	species	Animalia	Mollusca	Bivalvia	Myida	Teredinidae		1
https://biodiversity.org.au/afd/taxa/dfbaad56-9aab-4357-bbf6-05ed2fa4105a	Pycnostictus seriatus	de Saussure, 1884	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/e02d9fcf-6f09-459f-8384-22f75588f2c6	Moranila australica	(Girault, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/e0c730d2-8358-44a1-b947-c21a2c174bd1	Leucospis rieki	Boucek, 1974	species	Animalia	Arthropoda	Insecta	Hymenoptera	Leucospidae		1
https://biodiversity.org.au/afd/taxa/e11bb1ea-81e1-4a79-828e-52172f883337	Ornithophila metallica	(Schiner, 1862)	species	Animalia	Arthropoda	Insecta	Diptera	Hippoboscidae		1
https://biodiversity.org.au/afd/taxa/e15a89fc-7ae7-494e-94c3-0dd2af10fc36	Orthodera gunnii	(Le Guillou, 1841)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		1
https://biodiversity.org.au/afd/taxa/e1794dc5-33dc-4be8-8064-b1917e87cc7e	Siraton roei	(Boheman, 1843)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/e1efa6f5-427c-4a63-bb71-9c812bba3b70	Xerocincta neglecta	(Draparnaud, 1805)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Dune Snail	1
https://biodiversity.org.au/afd/taxa/e209e388-2b9e-4caa-9b93-490482751cde	Rhynolaccus exsertus	(Pascoe, 1872)	species	Animalia	Arthropoda	Insecta	Coleoptera	Brentidae		1
https://biodiversity.org.au/afd/taxa/e26897ea-feb2-4365-ba7f-aa358505f0cc	Peakesia hospita	(BolÃ-var, 1898)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/e27a2aff-69d1-4f71-b386-17c2b28a1b36	Bettongia penicillata	Gray, 1837	species	Animalia	Chordata	Mammalia	Diprotodontia	Potoroidae	Brush-tailed Bettong	1
https://biodiversity.org.au/afd/taxa/e32c8f98-483a-4b53-b0cd-42c804badef6	Agapophytus asprolepidotos	Winterton & Irwin, 2001	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		1
https://biodiversity.org.au/afd/taxa/e33f881f-cf28-4a2b-9f34-648b20ce91a0	Lasioglossum (Chilalictus) appositum	(Rayment, 1939)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/e3b842b7-d9f2-487f-a1b6-7fd112051874	Megalopsalis porongorupensis	(Kauri, 1954)	species	Animalia	Arthropoda	Arachnida	Opiliones	Neopilionidae		1
https://biodiversity.org.au/afd/taxa/e3cca9fc-50e3-421f-9513-dd404238a56b	Lerista lineopunctulata	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Dotted-line Robust Slider	1
https://biodiversity.org.au/afd/taxa/e401b14e-7638-4878-95c2-b95babf313a0	Melobasis conica	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/e46c14fe-c026-45ae-a89a-a7eb3da76ac0	Chrysonoma fascialis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/e473834b-a0eb-473c-b59e-55fa06e3c3b4	Rutilia (Rutilia) vivipara	(Fabricius, 1805)	species	Animalia	Arthropoda	Insecta	Diptera	Tachinidae	Horse Fly	1
https://biodiversity.org.au/afd/taxa/e4c6be73-1bf5-45a3-abde-d95f4070f7eb	Anthoglossa plumatus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/e5438d87-4225-46d5-a5eb-c9899dc2aaab	Prolasius antennatus	McAreavey, 1947	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/e55922af-1e4e-4b5f-8a7e-9ab64ed789f2	Leptopius spinosus	(FÃ¥hraeus, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/e5ebb0bd-d45e-417b-9508-6870ffdae5ab	Sphallomorpha atrata	Baehr, 1993	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/e65f2473-2313-47fd-bf6a-3fc2c6af2ff8	Fletchamia dakini	(Dendy, 1915)	species	Animalia	Platyhelminthes	Rhabditophora	Tricladida	Geoplanidae		1
https://biodiversity.org.au/afd/taxa/e6e22707-a7b6-4345-97fe-65f63bd5cbed	Orphnaeus brevilabiatus	(Newport, 1845)	species	Animalia	Arthropoda	Chilopoda	Geophilomorpha	Oryidae		1
https://biodiversity.org.au/afd/taxa/e71a6c2c-66f1-4107-a0a5-954b4a5960ad	Archiargiolestes pusillissimus	Kennedy, 1925	species	Animalia	Arthropoda	Insecta	Odonata	Argiolestidae	Tiny Flatwing	1
https://biodiversity.org.au/afd/taxa/e78b6579-3ba6-4bd2-b4ac-abed07a68520	Hiarchas crassicornis	(Walker, 1867)	species	Animalia	Arthropoda	Insecta	Hemiptera	Acanthosomatidae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/e7ce580f-103f-4735-8565-2940532a3adb	Stigmodera cancellata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/e9b81d5d-ea0a-45bb-b315-aa2b7c9b457b	Arcuatula senhousia	(Benson, 1842)	species	Animalia	Mollusca	Bivalvia	Mytilida	Mytilidae	Senhouse's Mussel	1
https://biodiversity.org.au/afd/taxa/e9f7a838-8e31-4a7f-abe4-88c81a0e6960	Munjua erugata	Lambkin & Yeates, 2003	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/ea820d3f-75c7-4961-bc91-6326d8c16412	Steatoda capensis	Hann, 1990	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	1
https://biodiversity.org.au/afd/taxa/ea859860-0730-4425-be76-3402dcfd0d42	Nothancyla verreauxi	NavÃ¡s, 1910	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		1
https://biodiversity.org.au/afd/taxa/eac42e58-fc47-49f8-a387-6789533f0f38	Austracris guttulosa	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Spur-throated Locust	1
https://biodiversity.org.au/afd/taxa/eb5326fb-37ea-4938-8400-f5a018945050	Goniaea opomaloides	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Mimetic Gumleaf Grasshopper	1
https://biodiversity.org.au/afd/taxa/eb6dc006-5e99-4c4f-8ea7-05c305cff0fb	Phyllococerus purpurascens	Waterhouse, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/eb7e9119-1679-4ea8-8acc-d659522fa81a	Castiarina jospilota	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/eb9a653c-8a4d-4a3a-9a4b-b8b984039fc8	Camponotus michaelseni	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/ec28f891-3f70-4eef-84f1-92385d6bbc21	Palimbolus dimidiatus	(Raffray, 1900)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/ec53da8b-a2ed-43d4-840c-1d2acd756b79	Platax teira	(ForsskÃ¥l, 1775)	species	Animalia	Chordata	Actinopterygii	Perciformes	Ephippidae	Roundface Batfish	1
https://biodiversity.org.au/afd/taxa/ec66d36e-fa36-4cec-96a7-6a87cd3f789b	Paralampona marangaroo	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		1
https://biodiversity.org.au/afd/taxa/ecf6c8bb-115b-4a36-83e1-5e7ec2b62bc6	Sternopriscus multimaculatus	(Clark, 1862)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/ed2bf6d9-6ad2-422e-a967-393f88f14b7b	Piestolestes obscurus	(Bergroth, 1895)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	1
https://biodiversity.org.au/afd/taxa/ee17ae8f-1bf8-4391-a2aa-eb0f07fb14b8	Lasioglossum (Chilalictus) impunctatum	Walker, 1999	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/ee6ad06a-09a2-45a6-8495-44bece443bf3	Ditropidus concolor	(Saunders, 1847)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/eedd1767-9b38-4f83-80ba-a8cbe6867550	Parapalaeosepsis plebeia	(De Meijere, 1906)	species	Animalia	Arthropoda	Insecta	Diptera	Sepsidae	Black Scavenger Fly	1
https://biodiversity.org.au/afd/taxa/ef5385c9-c99a-460d-a444-6374d5d3da87	Cyclochila australasiae	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Masked Devil	1
https://biodiversity.org.au/afd/taxa/ef76c565-1786-4184-9008-e078877d73fc	Papilio (Princeps) aegeus	Donovan, 1805	species	Animalia	Arthropoda	Insecta	Lepidoptera	Papilionidae	Large Citrus Butterfly	1
https://biodiversity.org.au/afd/taxa/efb997b4-e221-471a-a6d4-fe9ce705e416	Metaballus mucronatus	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/f02c65c2-a5e4-49dd-81dd-5bf8f3e0d989	Myrmeleon pictifrons	Gerstaecker, 1885	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		1
https://biodiversity.org.au/afd/taxa/f039ed67-d073-496c-94d4-64f70c9fd8bc	Ectosticta ruida	(Pascoe, 1866)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/f0532d93-67da-4415-b8f0-f83524594ab0	Barycistela robusta	Blackburn, 1891	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/f05c6c7f-40ac-441c-80ad-09e379af1d29	Phanacis hypochoeridis	(Kieffer, 1887)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Cynipidae		1
https://biodiversity.org.au/afd/taxa/f0b0926b-d0e7-4f51-b360-7813c27c9ecb	Austrolestes aleison	Watson & Moulds, 1979	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Western Ringtail	1
https://biodiversity.org.au/afd/taxa/f129ea27-e47c-44f2-8525-92885ae2e13a	Sphallomorpha castelnaui	(Reiche, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/f1674c14-f1e6-45c3-997b-ac1fd78979c2	Olanaea nigricollis	Pascoe, 1873	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/f1e479e6-780a-417d-a223-e2213c9dbc67	Tenodera australasiae	(Leach, 1814)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Purplewinged Mantid	1
https://biodiversity.org.au/afd/taxa/f204d057-cbea-4981-8cb1-19272e1a0f6e	Hesperocordulia berthoudi	Tillyard, 1911	species	Animalia	Arthropoda	Insecta	Odonata	incertae sedis	Orange Streamcruiser	1
https://biodiversity.org.au/afd/taxa/f2069f0b-639e-4eb9-82d1-a4d73ce9ddca	Aphanasium flexilis	(Pascoe, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/f24cd37c-5c49-4c4b-90c2-ebbbfd5a2099	Neorhaphiomidas villosa	Paramonov, 1953	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/f2694353-defe-4efe-935f-e0412b390127	Ribautia repanda	(Attems, 1911)	species	Animalia	Arthropoda	Chilopoda	Geophilomorpha	Chilenophilidae		1
https://biodiversity.org.au/afd/taxa/f3347f75-029f-4c8f-8309-facfbb48d0a4	Peakesia brunnea	(White, 1841)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/f3812aba-d557-457c-bb0b-474bc28ff860	Steatoda nasata	(Chrysanthus, 1975)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae		1
https://biodiversity.org.au/afd/taxa/f3b1ae5d-a616-4c45-b93f-2d1d906cd80b	Sidnia kinbergi	(StÃ¥l, 1859)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Crop Mirid	1
https://biodiversity.org.au/afd/taxa/f3ff97fe-e194-4240-be77-2e738496ea9b	Homadaula poliodes	Meyrick, 1907	species	Animalia	Arthropoda	Insecta	Lepidoptera	Galacticidae		1
https://biodiversity.org.au/afd/taxa/f41187fe-ab93-4181-a871-41861308c96c	Mocis alterna	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Bean Looper Moth	1
https://biodiversity.org.au/afd/taxa/f485a3fc-16eb-4966-a763-627c1ac55dc9	Zillimata scintillans	(O.P.-Cambridge, 1869)	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae	Ant Spider	1
https://biodiversity.org.au/afd/taxa/f4c8a24b-b057-4d11-b91f-163b59db95a3	Saprinus (Saprinus) cyaneus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae	Round Green Hister	1
https://biodiversity.org.au/afd/taxa/f5513cb3-95dd-418a-af07-d80722f77ebb	Chrysomya megacephala	(Fabricius, 1794)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae		1
https://biodiversity.org.au/afd/taxa/f582a6af-08e0-4b68-9ca2-9b1b48142efa	Neatypus obliquus	Waite, 1905	species	Animalia	Chordata	Actinopterygii	Perciformes	Microcanthidae	Footballer Sweep	1
https://biodiversity.org.au/afd/taxa/f5b51752-cdba-404f-9b85-79de32a147d7	Peliocis subcylindricus	Lea, 1930	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/f6200723-9c85-4add-8198-69518c5165dd	Holasteron wamuseum	Baehr, 2004	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/f626dc20-da64-4454-923b-7b15f09aed50	Tepperocoris lofteyensis	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		1
https://biodiversity.org.au/afd/taxa/f629d14e-76d0-4f66-9ba5-fddf7e167747	Ctenisophus patruelis	Raffray, 1900	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/f6600104-28cc-4a15-9218-8116346750a4	Scoloplos simplex	(Hutchings, 1974)	species	Animalia	Annelida	Polychaeta		Orbiniidae		1
https://biodiversity.org.au/afd/taxa/f70036e1-233f-48d8-b7c5-d235bf37eeb7	Vallonia excentrica	Sterki, 1893	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Valloniidae	Eccentric Grass Snail	1
https://biodiversity.org.au/afd/taxa/f78f43e7-4635-49de-8a4f-805d89315c7b	Schizobothrus flavovittatus	SjÃ¶stedt, 1921	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Disappearing Grasshopper	1
https://biodiversity.org.au/afd/taxa/f7cf1816-1c37-4749-b135-f0ec8f667363	Paederus apteromelas	Lea, 1923	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/f7df3501-d354-46d3-80b9-90ebce05bc40	Chlamydopsis macmillani	Caterino, 2003	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/f8417845-df57-40de-8b26-e51c7d1ada33	Croitana croites	(Hewitson, 1874)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Croites Skipper	1
https://biodiversity.org.au/afd/taxa/f8c082bc-76ac-4540-9839-184ada49b935	Bembix furcata	Erichson, 1842	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/f93906ac-e36c-4cb8-b35a-ff31d178f6b0	Ectenopsis (Parasilvius) fusca	Mackerras, 1956	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/f9423ba3-0c6a-4c69-b5b8-6bb8d5d1f441	Remaudiereana inornata	(Walker, 1872)	species	Animalia	Arthropoda	Insecta	Hemiptera	Rhyparochromidae	Seed Bug	1
https://biodiversity.org.au/afd/taxa/f9605a41-8fb7-405f-81de-501891476752	Ancita didyma	Blackburn, 1901	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/f97e993b-b70b-45c4-8d79-b34cc6324d38	Chelodina (Chelodina) steindachneri	Siebenrock, 1914	species	Animalia	Chordata	Reptilia	Testudines	Chelidae	Steindachner's Turtle	1
https://biodiversity.org.au/afd/taxa/f99d2ad9-23dc-4c67-893e-254fc9c614a6	Megaptera novaeangliae	(Borowski, 1781)	species	Animalia	Chordata	Mammalia	Cetacea	Balaenopteridae	Humpback Whale	1
https://biodiversity.org.au/afd/taxa/fa2eeec6-4fef-41ec-a5c6-4195af85ff46	Palaeotoma styphelana	Meyrick, 1881	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/facc80f3-2301-4192-9e68-55c5a2a80808	Amniataba percoides	(GÃ¼nther, 1864)	species	Animalia	Chordata	Actinopterygii	Perciformes	Terapontidae	Barred Grunter	1
https://biodiversity.org.au/afd/taxa/fae23680-ce18-4c5e-be2c-e0b709f12c38	Peltoschema hamadryas	(StÃ¥l, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/fb32df3e-7121-4ae4-a20d-09e0c1537a73	Penthaleus major	(DugÃ¨s, 1834)	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Penthaleidae		1
https://biodiversity.org.au/afd/taxa/fc577fe2-6ce8-4319-ac9c-51e93b77ca74	Austrocroce mira	(McKeown, 1939)	species	Animalia	Arthropoda	Insecta	Neuroptera	Nemopteridae		1
https://biodiversity.org.au/afd/taxa/fd4d5461-f517-4f1a-8ef4-2baf09f9cf7c	Megachile preissi	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		1
https://biodiversity.org.au/afd/taxa/fde4d262-82ac-4f18-826e-5e45e6c4e11f	Apina callisto	(Angas, 1847)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/fe4206db-4519-4106-a6ed-5065b1910268	Cubicorhynchus crenicollis	(Waterhouse, 1854)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/feb31a54-da39-4680-9481-461247aec853	Gerres oyena	(ForsskÃ¥l, 1775)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gerreidae	Blacktip Silverbiddy	1
https://biodiversity.org.au/afd/taxa/fec05b63-c6cf-4ed4-9165-2a7c4f895a90	Chrysobothris viridis	Macleay, 1872	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/fed4e494-5edb-4453-b65b-e8731e381de1	Lioponera reticulata	(Clark, 1926)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/fefb1266-f01c-4770-a4e7-9b2b5e726694	Essolithna rhombus	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/ff1ea01a-0cf2-4acf-935c-d322ecd6c4b9	Physalia utriculus	(La MartiniÃ©rÃ©, 1787)	species	Animalia	Cnidaria	Hydrozoa	Siphonophorae	Physaliidae		1
https://biodiversity.org.au/afd/taxa/ff85564b-410b-4259-8304-1afbe2ee8add	Euclarkia costata	Lea, 1919	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/ffa18bff-1f3d-492f-93fa-744995309c58	Hestiochora occidentalis	Tarmann, 2005	species	Animalia	Arthropoda	Insecta	Lepidoptera	Zygaenidae		1
https://id.biodiversity.org.au/name/apni/116669	Lolium perenne x Lolium rigidum		species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Hybrid Ryegrass	1
https://id.biodiversity.org.au/name/apni/161109	Hypericum monogynum	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Hypericaceae	Gold Flower	1
https://id.biodiversity.org.au/name/apni/165877	Salix matsudana	Koidz.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Salicaceae	Peking Willow	1
https://id.biodiversity.org.au/name/apni/51305207	Scholtzia uniovulata	Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Common Scholtzia	1
https://id.biodiversity.org.au/name/apni/51306772	Pentameris patula	(Nees) Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/name/apni/51346968	Pterostylis brevisepala	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Short-eared Snail Orchid	1
https://id.biodiversity.org.au/name/apni/51346971	Pterostylis crispula	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Snail Orchid	1
https://id.biodiversity.org.au/name/apni/51732102	Drosera hortiorum	T.Krueger & G.Bourke	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Sundews	1
https://id.biodiversity.org.au/name/apni/8946653	Thysanotus sp. Coastal plain (N.H.Brittan 66/63)		species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2886122	Clematis glycinoides	DC.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Forest Headache Vine	1
https://id.biodiversity.org.au/node/apni/2886276	Fimbristylis velata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Veiled Fringe-rush	1
https://id.biodiversity.org.au/node/apni/2886347	Thysanotus formosus	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2886479	Tetratheca affinis	Endl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		1
https://id.biodiversity.org.au/node/apni/2886719	Fallopia convolvulus	(L.) Ã¤Ã¶ve	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Black Bindweed	1
https://id.biodiversity.org.au/node/apni/2886796	Ludwigia repens	J.R.Forst.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Creeping Primrose-willow.	1
https://id.biodiversity.org.au/node/apni/2886806	Goodenia pinnatifida	Schltdl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Cut-leaf Goodenia	1
https://id.biodiversity.org.au/node/apni/2886811	Banksia squarrosa	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2886876	Epilobium tetragonum	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Square-stalked Willowherb	1
https://id.biodiversity.org.au/node/apni/2886901	Thysanotus glaucus	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2886946	Boronia purdieana	Diels	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Winter Boronia	1
https://id.biodiversity.org.au/node/apni/2887080	Panicum hillmanii	Chase	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Witch-grass	1
https://id.biodiversity.org.au/node/apni/2887114	Hakea marginata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2887177	Bossiaea oxyclada	Turcz.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2887234	Raphanus sativus	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Radish	1
https://id.biodiversity.org.au/node/apni/2887310	Symphytum x uplandicum	Nyman	species	Plantae	Charophyta	Equisetopsida		Boraginaceae	Russian Comfrey	1
https://id.biodiversity.org.au/node/apni/2887387	Tanacetum parthenium	(L.) Sch.Bip.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Feverfew	1
https://id.biodiversity.org.au/node/apni/2887551	Pistia stratiotes	L.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Water Lettuce	1
https://id.biodiversity.org.au/node/apni/2887552	Bromus alopecuros	Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Mediterranean Brome	1
https://id.biodiversity.org.au/node/apni/2887590	Trifolium suffocatum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Suffocated Clover	1
https://id.biodiversity.org.au/node/apni/2887709	Podalyria sericea	(Andrews) R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cape Satin Bush	1
https://id.biodiversity.org.au/node/apni/2887844	Leucopogon hirsutus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Hairy Beard-heath	1
https://id.biodiversity.org.au/node/apni/2887881	Trifolium glomeratum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cluster Clover	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2887981	Boronia adamsiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Barbalin Boronia	1
https://id.biodiversity.org.au/node/apni/2888016	Cenchrus echinatus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Mossman River Grass	1
https://id.biodiversity.org.au/node/apni/2888058	Bossiaea linophylla	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-leaved Bossiaea	1
https://id.biodiversity.org.au/node/apni/2888191	Hakea longiflora	(Benth.) R.M.Barker	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2888212	Oenothera mollissima	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae		1
https://id.biodiversity.org.au/node/apni/2888230	Rhadinothamnus anceps	(DC.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Blister Bush	1
https://id.biodiversity.org.au/node/apni/2888317	Youngia japonica	(L.) DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2888366	Conospermum densiflorum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2888507	Plantago coronopus	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Bucks-horn Plantain	1
https://id.biodiversity.org.au/node/apni/2888567	Stylidium squamellosum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Maize Triggerplant	1
https://id.biodiversity.org.au/node/apni/2888610	Glycine canescens	F.J.Herm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Silky Glycine	1
https://id.biodiversity.org.au/node/apni/2888629	Goodenia scapigera	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	White Goodenia	1
https://id.biodiversity.org.au/node/apni/2888724	Parietaria debilis	G.Forst.	species	Plantae	Charophyta	Equisetopsida	Rosales	Urticaceae	Shade Pellitory	1
https://id.biodiversity.org.au/node/apni/2888749	Schoenus pleiostemoneus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2888777	Chenopodium macrospermum	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Red-stem Goosefoot	1
https://id.biodiversity.org.au/node/apni/2888791	Anthosachne scabra	(R.Br.) Nevski	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wheatgrass	1
https://id.biodiversity.org.au/node/apni/2888817	Grevillea dryandroides	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Phalanx Grevillea	1
https://id.biodiversity.org.au/node/apni/2888833	Caesia parviflora	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pale Grass-lily	1
https://id.biodiversity.org.au/node/apni/2888835	Leucopogon striatus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/node/apni/2888916	Daviesia trigonophylla	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2888969	Spergularia nesophila	L.G.Adams	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae		1
https://id.biodiversity.org.au/node/apni/2889003	Bossiaea atrata	J.H.Ross	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2889062	Scaevola lanceolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Long-leaved Scaevola	1
https://id.biodiversity.org.au/node/apni/2889096	Convolvulus sabatius	Viv.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae		1
https://id.biodiversity.org.au/node/apni/2889153	Ptilotus humilis	(Nees) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		1
https://id.biodiversity.org.au/node/apni/2889171	Juncus amabilis	Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Hollow Rush	1
https://id.biodiversity.org.au/node/apni/2889334	Kennedia nigricans	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Black Coral-pea	1
https://id.biodiversity.org.au/node/apni/2889348	Jacksonia calcicola	Chappill	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2889364	Ammi majus	L.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Bishop's Weed	1
https://id.biodiversity.org.au/node/apni/2889534	Petrophile longifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2889583	Chorizema reticulatum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Showy Flame Pea	1
https://id.biodiversity.org.au/node/apni/2889728	Ipomoea aquatica	Forssk.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Kang Kong	1
https://id.biodiversity.org.au/node/apni/2889912	Lachnostachys verbascifolia	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Lambstail	1
https://id.biodiversity.org.au/node/apni/2890078	Leucochrysum fitzgibbonii	(F.Muell.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Fitzgibbons Daisy	1
https://id.biodiversity.org.au/node/apni/2890088	Acacia mutabilis	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2890261	Acacia drewiana	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2890288	Cupaniopsis anacardioides	(A.Rich.) Radlk.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae	Tuckeroo	1
https://id.biodiversity.org.au/node/apni/2890326	Wahlenbergia multicaulis	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tadgell's Bluebell	1
https://id.biodiversity.org.au/node/apni/2890394	Templetonia sulcata	(Meisn.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flat Mallee Pea	1
https://id.biodiversity.org.au/node/apni/2890460	Hakea francisiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Bottlebrush Hakea	1
https://id.biodiversity.org.au/node/apni/2890555	Humulus lupulus	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Cannabaceae	Hop	1
https://id.biodiversity.org.au/node/apni/2890850	Ixia paniculata	D.Delaroche	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Long-tube Ixia	1
https://id.biodiversity.org.au/node/apni/2890948	Seorsus intratropicus	(F.Muell.) Rye & Trudgen	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Seorsus	1
https://id.biodiversity.org.au/node/apni/2890952	Quisqualis indica	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Combretaceae	Rangoon Creeper	1
https://id.biodiversity.org.au/node/apni/2890994	Wigandia urens	(Ruiz & Pav.) Kunth	species	Plantae	Charophyta	Equisetopsida		Boraginaceae		1
https://id.biodiversity.org.au/node/apni/2891463	Brassica fruticulosa	Cirillo	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Twiggy Turnip	1
https://id.biodiversity.org.au/node/apni/2891467	Erodium moschatum	(L.) L'HÃ©r.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Musky Herons-bill	1
https://id.biodiversity.org.au/node/apni/2891536	Drosera humilis	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/node/apni/2891583	Pisum sativum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Garden Pea	1
https://id.biodiversity.org.au/node/apni/2891660	Melaleuca acutifolia	(Benth.) Craven & Lepschi	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2891662	Drosera x sidjamesii	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/node/apni/2891897	Anigozanthos pulcherrimus	Hook.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Yellow Kangaroo Paw	1
https://id.biodiversity.org.au/node/apni/2891958	Gompholobium viscidulum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2891969	Solanum giganteum	Jacq.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae		1
https://id.biodiversity.org.au/node/apni/2892085	Eremophila fraseri	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Burra	1
https://id.biodiversity.org.au/node/apni/2892102	Persoonia longifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Snottygobble	1
https://id.biodiversity.org.au/node/apni/2892240	Alyogyne pinoniana	(Gaudich.) Fryxell	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Sand Hibiscus	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2892249	Trifolium hybridum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Alsike Clover	1
https://id.biodiversity.org.au/node/apni/2892468	Gamochaeta pensylvanica	(Willd.) Cabrera	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cudweed	1
https://id.biodiversity.org.au/node/apni/2892490	Parkinsonia aculeata	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Jerusalem Thorn	1
https://id.biodiversity.org.au/node/apni/2892585	Eustachys distichophylla	(Lag.) Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Evergreen Chloris	1
https://id.biodiversity.org.au/node/apni/2892713	Stylidium perpusillum	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Tiny Trigger-plant	1
https://id.biodiversity.org.au/node/apni/2892734	Caesia calliantha	R.J.F.Hend.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Blue Grass-lily	1
https://id.biodiversity.org.au/node/apni/2892858	Lolium perenne	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Perennial Rye-grass	1
https://id.biodiversity.org.au/node/apni/2893021	Bossiaea rufa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2893162	Cardamine hirsuta	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Common Bitter-cress	1
https://id.biodiversity.org.au/node/apni/2893281	Guichenotia ledifolia	J.Gay	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2893552	Stylobasium australe	(Hook.) Prance	species	Plantae	Charophyta	Equisetopsida	Fabales	Surianaceae		1
https://id.biodiversity.org.au/node/apni/2893612	Dolichandra unguis-cati	(L.) L.G.Lohmann	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Cat's Claw Creeper	1
https://id.biodiversity.org.au/node/apni/2893638	Thomasia brachystachys	Turcz.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2893729	Indigofera colutea	(Burm.f.) Merr.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sticky Indigo	1
https://id.biodiversity.org.au/node/apni/2893800	Epacris longiflora	Cav.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Fuchsia Heath	1
https://id.biodiversity.org.au/node/apni/2893851	Schoenia cassiniana	(Gaudich.) Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pink Everlasting	1
https://id.biodiversity.org.au/node/apni/2893955	Lachnagrostis drummondiana	(Steud.) S.W.L.Jacobs	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2893977	Scaevola crassifolia	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Cushion Fanflower	1
https://id.biodiversity.org.au/node/apni/2894087	Schoenus submicrostachyus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2894128	Thysanotus brachiatus	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2894159	Rostraria cristata	(L.) Tzvelev	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Cats-tail	1
https://id.biodiversity.org.au/node/apni/2894228	Petrophile heterophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2894235	Dampiera wellsiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Wells' Dampiera	1
https://id.biodiversity.org.au/node/apni/2894296	Tagetes minuta	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Stinking Roger	1
https://id.biodiversity.org.au/node/apni/2894403	Hardenbergia violacea	(Schneev.) Stearn	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Native Lilac	1
https://id.biodiversity.org.au/node/apni/2894540	Thysanotus gracilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2894625	Retama raetam	(Forssk.) Webb & Berthel.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	White Weeping Broom	1
https://id.biodiversity.org.au/node/apni/2894680	Carex inversa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Dwarf Sedge	1
https://id.biodiversity.org.au/node/apni/2894765	Hakea scoparia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2894969	Phalaris minor	Retz.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lesser Canary-grass	1
https://id.biodiversity.org.au/node/apni/2894992	Tetratheca pilifera	Lindl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		1
https://id.biodiversity.org.au/node/apni/2894994	Lantana montevidensis	(Spreng.) Briq.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Creeping Lantana	1
https://id.biodiversity.org.au/node/apni/2895180	Chloris gayana	Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Rhodes Grass	1
https://id.biodiversity.org.au/node/apni/2895205	Lomandra longifolia	Labill.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Spiny-headed Mat-rush	1
https://id.biodiversity.org.au/node/apni/2895557	Frankenia punctata	Turcz.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Frankeniaceae	Frankenia	1
https://id.biodiversity.org.au/node/apni/2895645	Actinotus helianthi	Labill.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Flannel Flower	1
https://id.biodiversity.org.au/node/apni/2896123	Medicago sativa	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Lucerne	1
https://id.biodiversity.org.au/node/apni/2896173	Holcus setiger	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Fog	1
https://id.biodiversity.org.au/node/apni/2896294	Wahlenbergia stricta	(R.Br.) Sweet	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tall Bluebell	1
https://id.biodiversity.org.au/node/apni/2896375	Centranthus ruber	(L.) DC.	species	Plantae	Charophyta	Equisetopsida	Dipsacales	Caprifoliaceae	Red Valerian	1
https://id.biodiversity.org.au/node/apni/2896477	Stylidium asteroideum	F.L.Erickson & J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Star Triggerplant	1
https://id.biodiversity.org.au/node/apni/2896543	Mentha pulegium	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Pennyroyal	1
https://id.biodiversity.org.au/node/apni/2896581	Grevillea tetragonoloba	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2896623	Oenothera glazioviana	Micheli	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Reddish Evening-primrose	1
https://id.biodiversity.org.au/node/apni/2896648	Acacia ataxiphylla	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2896763	Alopecurus myosuroides	Huds.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Fox-tail	1
https://id.biodiversity.org.au/node/apni/2896777	Rosa canina	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Dog Rose	1
https://id.biodiversity.org.au/node/apni/2896871	Lagerstroemia indica	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Lythraceae	Crepe Myrtle	1
https://id.biodiversity.org.au/node/apni/2897063	Acacia divergens	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2897110	Schoenus pedicellatus	(R.Br.) Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2897117	Glossostigma drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Phrymaceae	Desert Mud-mat	1
https://id.biodiversity.org.au/node/apni/2897237	Spartochloa scirpoidea	(Steud.) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2897263	Stylidium falcatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Slender Beaked Triggerplant	1
https://id.biodiversity.org.au/node/apni/2897472	Melilotus albus	Medik.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bokhara Clover	1
https://id.biodiversity.org.au/node/apni/2897551	Allium porrum	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae	Leek	1
https://id.biodiversity.org.au/node/apni/2897570	Silene vulgaris	(Moench) Garcke	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Bladder Campion	1
https://id.biodiversity.org.au/node/apni/2897822	Tragopogon porrifolius	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Salsify	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2897829	Verbena bonariensis	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Purple-top Verbena	1
https://id.biodiversity.org.au/node/apni/2897943	Vicia hirsuta	(L.) Gray	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hairy Vetch	1
https://id.biodiversity.org.au/node/apni/2898027	Drosera x badgerupii	Cheek	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/node/apni/2898321	Dipogon lignosus	(L.) Verdc.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Dolichos Pea	1
https://id.biodiversity.org.au/node/apni/2898395	Rytidosperma penicillatum	(Labill.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Wallaby Grass	1
https://id.biodiversity.org.au/node/apni/2898553	Astroloma glaucescens	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/node/apni/2898563	Petrophile serruriae	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2898628	Bromus catharticus	Vahl	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Prairie Grass	1
https://id.biodiversity.org.au/node/apni/2898676	Exocarpos sparteus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae	Broombush	1
https://id.biodiversity.org.au/node/apni/2898838	Eragrostis australasica	(Steud.) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lovegrass	1
https://id.biodiversity.org.au/node/apni/2898885	Pimelea calcicola	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Coastal Banjine	1
https://id.biodiversity.org.au/node/apni/2899012	Ageratina riparia	(Regel) R.M.King & H.Rob.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Mistflower	1
https://id.biodiversity.org.au/node/apni/2899031	Plantago major	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Greater Plantain	1
https://id.biodiversity.org.au/node/apni/2899125	Cochlospermum fraseri	Planch.	species	Plantae	Charophyta	Equisetopsida	Malvales	Bixaceae	Kapok Bush	1
https://id.biodiversity.org.au/node/apni/2899134	Thryptomene saxicola	(A.Cunn. ex Hook.) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Rock Thryptomene	1
https://id.biodiversity.org.au/node/apni/2899317	Medicago arabica	(L.) Huds.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Spotted Medic	1
https://id.biodiversity.org.au/node/apni/2899432	Wilsonia humilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Silky Wilsonia	1
https://id.biodiversity.org.au/node/apni/2899735	Lambertia rariflora	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Green Honeysuckle	1
https://id.biodiversity.org.au/node/apni/2899845	Cynanchum floribundum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Native Pear	1
https://id.biodiversity.org.au/node/apni/2899873	Austrostipa macalpinei	(Reader) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Spear-grass	1
https://id.biodiversity.org.au/node/apni/2899913	Myriophyllum aquaticum	(Vell.) Verdc.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Brazilian Water Milfoil	1
https://id.biodiversity.org.au/node/apni/2899950	Heliotropium europaeum	L.	species	Plantae	Charophyta	Equisetopsida		Boraginaceae	Common Heliotrope	1
https://id.biodiversity.org.au/node/apni/2900051	Dicrastylis globiflora	(Endl.) Rye	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		1
https://id.biodiversity.org.au/node/apni/2900108	Lolium temulentum	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Darnel	1
https://id.biodiversity.org.au/node/apni/2900147	Actinodium cunninghamii	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Daisy	1
https://id.biodiversity.org.au/node/apni/2900164	Kickxia spuria	(L.) Dumort.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Round-leaved Toadflax	1
https://id.biodiversity.org.au/node/apni/2900200	Hemarthria uncinata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Matgrass	1
https://id.biodiversity.org.au/node/apni/2900424	Oenothera drummondii	Hook.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Beach Evening Primrose	1
https://id.biodiversity.org.au/node/apni/2900496	Taxandria parviceps	(Schauer) J.R.Wheeler & N.G.Marchant	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Myrtle	1
https://id.biodiversity.org.au/node/apni/2900626	Crassula exserta	(Reader) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Large-fruit Crassula	1
https://id.biodiversity.org.au/node/apni/2900760	Lomandra drummondii	(Benth.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2900939	Pultenaea aspalathoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2900953	Buddleja madagascariensis	Lam.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Summer Lilac	1
https://id.biodiversity.org.au/node/apni/2900995	Egeria densa	Planch.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Dense Waterweed	1
https://id.biodiversity.org.au/node/apni/2901045	Ehrharta pusilla	Nees ex Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2901153	Artemisia absinthium	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Wormwood	1
https://id.biodiversity.org.au/node/apni/2901178	Gastrolobium parviflorum	(Benth. ex Lindl.) Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Box Poison	1
https://id.biodiversity.org.au/node/apni/2901299	Stylidium cilium	Lowrie, A.H.Burb. & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		1
https://id.biodiversity.org.au/node/apni/2901461	Calytrix chrysantha	Craven	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2901550	Lolium multiflorum	Lam.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Italian Ryegrass	1
https://id.biodiversity.org.au/node/apni/2901632	Euphorbia hyssopifolia	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Euphorbia	1
https://id.biodiversity.org.au/node/apni/2901698	Dodonaea inaequifolia	Turcz.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		1
https://id.biodiversity.org.au/node/apni/2902128	Bossiaea peduncularis	Turcz.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2902145	Cenchrus clandestinus	(Hochst. ex Chiov.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Kikuyu	1
https://id.biodiversity.org.au/node/apni/2902165	Ornithopus compressus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Neat Bird's-foot	1
https://id.biodiversity.org.au/node/apni/2902199	Trifolium micranthum	Viv.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Slender Suckling Clover	1
https://id.biodiversity.org.au/node/apni/2902216	Juncus hybridus	Brot.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae		1
https://id.biodiversity.org.au/node/apni/2902237	Acacia fimbriata	A.Cunn. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Fringed Wattle	1
https://id.biodiversity.org.au/node/apni/2902321	Gahnia aristata	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2902330	Geranium molle	L.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Soft Geranium	1
https://id.biodiversity.org.au/node/apni/2902335	Billardiera coriacea	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Billardiera	1
https://id.biodiversity.org.au/node/apni/2902376	Lasiopetalum floribundum	Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Free Flowering Lasiopetalum	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2902426	Arthropodium fimbriatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Nodding Chocolate Lily	1
https://id.biodiversity.org.au/node/apni/2902538	Opercularia spermacocea	Labill. ex Juss.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae		1
https://id.biodiversity.org.au/node/apni/2902541	Leucopogon assimilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/node/apni/2902762	Setaria verticillata	(L.) P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Whorled Pigeon Grass	1
https://id.biodiversity.org.au/node/apni/2902838	Alocasia brisbanensis	(F.M.Bailey) Domin	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Cunjevoi	1
https://id.biodiversity.org.au/node/apni/2902904	Panicum capillare	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Common Millet	1
https://id.biodiversity.org.au/node/apni/2903034	Thysanotus fastigiatus	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2903076	Callitris canescens	(Parl.) S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Cypress Pine	1
https://id.biodiversity.org.au/node/apni/2903098	Eremophila drummondii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Drummond's Eremophila	1
https://id.biodiversity.org.au/node/apni/2903166	Goodenia pusilliflora	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Small-flower Goodenia	1
https://id.biodiversity.org.au/node/apni/2903348	Calytrix leschenaultii	(Schauer) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Posy Starflower	1
https://id.biodiversity.org.au/node/apni/2903384	Rytidosperma racemosum	(R.Br.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wallaby Grass	1
https://id.biodiversity.org.au/node/apni/2903408	Comesperma integerrimum	Endl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		1
https://id.biodiversity.org.au/node/apni/2903655	Solanum lycopersicum	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Lycopersicon	1
https://id.biodiversity.org.au/node/apni/2903698	Hemiandra rutilans	O.H.Sarg.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Colourful Snakebush	1
https://id.biodiversity.org.au/node/apni/2903796	Eremophila pantonii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Broombush	1
https://id.biodiversity.org.au/node/apni/2903941	Comesperma rhadinocarpum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Slender-fruited Comesperma	1
https://id.biodiversity.org.au/node/apni/2903978	Olearia strigosa	(Steetz) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bristly Daisy Bush	1
https://id.biodiversity.org.au/node/apni/2904153	Gastrolobium stipulare	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2904187	Gahnia filum	(Labill.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Thatching Grass	1
https://id.biodiversity.org.au/node/apni/2904192	Schoenus asperocarpus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Poison Sedge	1
https://id.biodiversity.org.au/node/apni/2904246	Calotis erinacea	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Tangled Burr-daisy	1
https://id.biodiversity.org.au/node/apni/2904436	Casuarina cunninghamiana	Miq.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	River She-oak	1
https://id.biodiversity.org.au/node/apni/2904704	Solanum triflorum	Nutt.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Three-flower Nightshade	1
https://id.biodiversity.org.au/node/apni/2904712	Scaevola thesioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Gibbous-fruited Scaevola	1
https://id.biodiversity.org.au/node/apni/2904955	Bromus rubens	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Red Brome	1
https://id.biodiversity.org.au/node/apni/2904969	Dampiera diversifolia	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		1
https://id.biodiversity.org.au/node/apni/2905038	Stylidium rigidulum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Flagon Triggerplant	1
https://id.biodiversity.org.au/node/apni/2905275	Pimelea sylvestris	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		1
https://id.biodiversity.org.au/node/apni/2905409	Stylidium glabrifolium	Lowrie & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		1
https://id.biodiversity.org.au/node/apni/2905809	Allocasuarina lehmanniana	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Dune Sheoak	1
https://id.biodiversity.org.au/node/apni/2905944	Gastrolobium hamulosum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hookpoint Poison	1
https://id.biodiversity.org.au/node/apni/2905946	Gomphocarpus physocarpus	E.Mey.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Balloon Cotton-bush	1
https://id.biodiversity.org.au/node/apni/2906005	Datura innoxia	Mill.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Downy Thornapple	1
https://id.biodiversity.org.au/node/apni/2906069	Acacia parramattensis	Tindale	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Parramatta Wattle	1
https://id.biodiversity.org.au/node/apni/2906147	Ceratopetalum gummiferum	Sm.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Cunoniaceae	Christmas Bush	1
https://id.biodiversity.org.au/node/apni/2906224	Opuntia ficus-indica	(L.) Mill.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Indian Fig	1
https://id.biodiversity.org.au/node/apni/2906277	Daviesia pectinata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Thorny Bitter-pea	1
https://id.biodiversity.org.au/node/apni/2906408	Hydrilla verticillata	(L.f.) Royle	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Hydrilla	1
https://id.biodiversity.org.au/node/apni/2906470	Lawrencia squamata	Nees	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Thorny Lawrencia	1
https://id.biodiversity.org.au/node/apni/2906561	Grevillea obtusifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2906599	Lechenaultia longiloba	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Irwin Leschenaultia	1
https://id.biodiversity.org.au/node/apni/2906788	Salvinia x molesta	D.S.Mitch.	species	Plantae	Charophyta	Equisetopsida	Salviniales	Salviniaceae	Salvinia	1
https://id.biodiversity.org.au/node/apni/2906801	Agave vivipara	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2906891	Melaleuca elliptica	Labill.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2906893	Hakea circumalata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2906915	Waltheria indica	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Waltheria	1
https://id.biodiversity.org.au/node/apni/2906991	Mentha spicata	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Spearmint	1
https://id.biodiversity.org.au/node/apni/2907046	Oenothera lindheimeri	(Engelm. & A.Gray) W.L.Wagner & Hoch	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Clock Weed	1
https://id.biodiversity.org.au/node/apni/2907123	Anarthria humilis	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		1
https://id.biodiversity.org.au/node/apni/2907128	Schoenus loliaceus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2907279	Melaleuca fulgens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Paperbark	1
https://id.biodiversity.org.au/node/apni/2907304	Chondrilla juncea	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Skeleton Weed	1
https://id.biodiversity.org.au/node/apni/2907374	Phyla nodiflora	(L.) Greene	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Carpetweed	1

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https://id.biodiversity.org.au/node/apni/2907494	Silene nocturna	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Mediterranean Catchfly	1
https://id.biodiversity.org.au/node/apni/2907691	Senegalia rugata	(Lam.) Britton & Rose	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Soap Pod	1
https://id.biodiversity.org.au/node/apni/2907787	Potamogeton crispus	L.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Potamogetonaceae	Curly Pondweed	1
https://id.biodiversity.org.au/node/apni/2907888	Tribonanthes violacea	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Violet Tiurndin	1
https://id.biodiversity.org.au/node/apni/2908199	Alyogyne huegelii	(Endl.) Fryxell	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Lilac Hibiscus	1
https://id.biodiversity.org.au/node/apni/2908282	Triglochin muelleri	Buchenau	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae		1
https://id.biodiversity.org.au/node/apni/2908384	Cheiranthera parviflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		1
https://id.biodiversity.org.au/node/apni/2908589	Grevillea nana	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2908934	Verticordia chrysantha	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Featherflower	1
https://id.biodiversity.org.au/node/apni/2908951	Lophostemon confertus	(R.Br.) Peter G.Wilson & J.T.Waterh.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Brush Box	1
https://id.biodiversity.org.au/node/apni/2908954	Trithuria australis	(Diels) D.D.Sokoloff, Remizowa, T.D.Macfarl. & Rudall	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae		1
https://id.biodiversity.org.au/node/apni/2909030	Bossiaea divaricata	Turcz.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2909084	Cucurbita pepo	L.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Field Pumpkin	1
https://id.biodiversity.org.au/node/apni/2909214	Cenchrus spinifex	Cav.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Spiny Burr Grass	1
https://id.biodiversity.org.au/node/apni/2909264	Lepyrodia glauca	(Nees) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/node/apni/2909280	Conospermum flexuosum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Tangled Smokebush	1
https://id.biodiversity.org.au/node/apni/2909287	Gladiolus angustus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Painted Lady	1
https://id.biodiversity.org.au/node/apni/2909310	Watsonia knysnana	L.Bolus	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		1
https://id.biodiversity.org.au/node/apni/2909491	Robinia pseudoacacia	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Black Locust	1
https://id.biodiversity.org.au/node/apni/2909572	Brachyscome pusilla	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2909588	Oxalis corniculata	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Creeping Wood-sorrel	1
https://id.biodiversity.org.au/node/apni/2909615	Gladiolus carneus	D.Delaroche	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Broad-leaf Painted Lady	1
https://id.biodiversity.org.au/node/apni/2909752	Lepidosperma pruinosum	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2909953	Podolepis capillaris	(Steetz) Diels	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Wiry Podolepis	1
https://id.biodiversity.org.au/node/apni/2910043	Guichenotia sarotes	Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2910128	Desmocladus virgatus	(Benth.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/node/apni/2910296	Typha domingensis	Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Typhaceae	Cumbungi	1
https://id.biodiversity.org.au/node/apni/2910332	Gonocarpus benthamii	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		1
https://id.biodiversity.org.au/node/apni/2910497	Phalaris aquatica	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Phalaris	1
https://id.biodiversity.org.au/node/apni/2910541	Solanum laciniatum	Aiton	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Cut-leaf Kangaroo-apple	1
https://id.biodiversity.org.au/node/apni/2910676	Senecio elegans	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Purple Groundsel	1
https://id.biodiversity.org.au/node/apni/2910767	Trifolium pratense	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Red Clover	1
https://id.biodiversity.org.au/node/apni/2910800	Echinochloa esculenta	(A.Braun) H.Scholz	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Japanese Millet	1
https://id.biodiversity.org.au/node/apni/2910933	Korthalsella leucothrix	Barlow	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae	Jointed Mistletoe	1
https://id.biodiversity.org.au/node/apni/2910975	Borya subulata	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae		1
https://id.biodiversity.org.au/node/apni/2911021	Eleocharis acuta	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Common Spike-sedge	1
https://id.biodiversity.org.au/node/apni/2911249	Alyogyne hakeifolia	(Giord.) Alef.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Hakea-leaf Hibiscus	1
https://id.biodiversity.org.au/node/apni/2911324	Scaevola paludosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		1
https://id.biodiversity.org.au/node/apni/2911332	Thysanotus asper	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2911444	Hakea leucoptera	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Needle Hakea	1
https://id.biodiversity.org.au/node/apni/2911522	Banksia calophylla	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2911622	Oxalis caprina	Thunb.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Goat's Foot	1
https://id.biodiversity.org.au/node/apni/2911683	Lobularia maritima	(L.) Desv.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Sweet Alyssum	1
https://id.biodiversity.org.au/node/apni/2911795	Aira elegantissima	Schur	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Delicate Hair-grass	1
https://id.biodiversity.org.au/node/apni/2911837	Casuarina equisetifolia	L.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Coastal She-oak	1
https://id.biodiversity.org.au/node/apni/2911850	Acacia lasiocalyx	C.R.P.Andrews	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Shaggy Wattle	1
https://id.biodiversity.org.au/node/apni/2911922	Daviesia brachyphylla	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2911988	Acacia lineolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Dwarf Myall	1
https://id.biodiversity.org.au/node/apni/2912030	Bromus madritensis	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Madrid Brome	1
https://id.biodiversity.org.au/node/apni/2912157	Brassica tournefortii	Gouan	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Wild Turnip	1
https://id.biodiversity.org.au/node/apni/2912217	Isopogon linearis	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2912223	Withania somnifera	(L.) Dunal	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Winter Cherry	1
https://id.biodiversity.org.au/node/apni/2912289	Hymenosporum flavum	(Hook.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Native Frangipani	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2912328	Gastrolobium celsianum	(Lem.) G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2912339	Stachystemon axillaris	A.S.George	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Picrodendraceae		1
https://id.biodiversity.org.au/node/apni/2912342	Commersonia densiflora	(Turcz.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2912409	Isoetes drummondii	A.Braun	species	Plantae	Charophyta	Equisetopsida	Isoetales	Isoetaceae	Plain Quillwort	1
https://id.biodiversity.org.au/node/apni/2912460	Ligustrum ovalifolium	Hassk.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Oleaceae	Hedge Privet	1
https://id.biodiversity.org.au/node/apni/2912472	Gladiolus alatus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		1
https://id.biodiversity.org.au/node/apni/2912506	Lepyrodia riparia	B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/node/apni/2912580	Amphipogon caricinus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Grey-beard Grass	1
https://id.biodiversity.org.au/node/apni/2912595	Hypolaena fastigiata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Tassel Rope Rush	1
https://id.biodiversity.org.au/node/apni/2912620	Cynosurus echinatus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Rough Dog's Tail	1
https://id.biodiversity.org.au/node/apni/2912637	Mirbelia trichocalyx	Domin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2912697	Lavandula dentata	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	French Lavender	1
https://id.biodiversity.org.au/node/apni/2912706	Boronia dichotoma	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		1
https://id.biodiversity.org.au/node/apni/2912800	Schinus molle	L.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Anacardiaceae	Pepper-tree	1
https://id.biodiversity.org.au/node/apni/2912835	Hibbertia pungens	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		1
https://id.biodiversity.org.au/node/apni/2912868	Lupinus albus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2912891	Gamochaeta calviceps	(Fernald) Cabrera	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cudweed	1
https://id.biodiversity.org.au/node/apni/2913137	Trymalium spatulatum	(Labill.) G.Don	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		1
https://id.biodiversity.org.au/node/apni/2913241	Rhodanthe spicata	(Steetz) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2913413	Lomandra pauciflora	(R.Br.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2913696	Hakea recurva	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2913741	Aira praecox	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Early Hair-grass	1
https://id.biodiversity.org.au/node/apni/2913788	Wahlenbergia gracilenta	Lothian	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Hairy Annual-bluebell	1
https://id.biodiversity.org.au/node/apni/2913918	Gladiolus watsonius	Thunb.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Red Afrikander	1
https://id.biodiversity.org.au/node/apni/2913992	Liparophyllum violifolium	(F.Muell.) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		1
https://id.biodiversity.org.au/node/apni/2914034	Corymbia maculata	(Hook.) K.D.Hill & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spotted Gum	1
https://id.biodiversity.org.au/node/apni/2914075	Helichrysum leucopsideum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Satin Everlasting	1
https://id.biodiversity.org.au/node/apni/2914160	Banksia fraseri	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2914184	Allocasuarina thuyoides	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Horned Sheoak	1
https://id.biodiversity.org.au/node/apni/2914198	Dampiera lindleyi	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		1
https://id.biodiversity.org.au/node/apni/2914214	Hibbertia serrata	Hotchk.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Serrate-leaved Guinea Flower	1
https://id.biodiversity.org.au/node/apni/2914299	Phyllangium divergens	(Hook.f.) Dunlop	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae	Wiry Mitrewort	1
https://id.biodiversity.org.au/node/apni/2914300	Ricinocarpos undulatus	Lehm.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Wedding Bush	1
https://id.biodiversity.org.au/node/apni/2914307	Tecticornia pergranulata	(J.M.Black) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Samphire	1
https://id.biodiversity.org.au/node/apni/2914322	Chorizema ilicifolium	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Holly Flame Pea	1
https://id.biodiversity.org.au/node/apni/2914401	Grevillea teretifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2914441	Aristida contorta	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Bunched Kerosene Grass	1
https://id.biodiversity.org.au/node/apni/2914530	Banksia hewardiana	(Meisn.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2914642	Iris unguicularis	Poir.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Winter Flowers Iris	1
https://id.biodiversity.org.au/node/apni/2914725	Stylidium leptocalyx	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Slender-calyxed Trigger Plant	1
https://id.biodiversity.org.au/node/apni/2914771	Lysiosepalum involucratum	(Turcz.) Druce	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2914827	Atriplex hypoleuca	Nees	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae		1
https://id.biodiversity.org.au/node/apni/2914832	Lepidosperma effusum	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spreading Sword-sedge	1
https://id.biodiversity.org.au/node/apni/2914851	Scholtzia laxiflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2914852	Polypogon tenellus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2914926	Grevillea juncifolia	Hook.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Honeysuckle Spider Flower	1
https://id.biodiversity.org.au/node/apni/2915094	Boronia heterophylla	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Kalgan Boronia	1
https://id.biodiversity.org.au/node/apni/2915173	Poa porphyroclados	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2915205	Melaleuca huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Chenille Honeymyrtle	1
https://id.biodiversity.org.au/node/apni/2915272	Dactylis glomerata	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Cocksfoot	1
https://id.biodiversity.org.au/node/apni/2915275	Senecio picridioides	(Turcz.) M.E.Lawr.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Purple-leaf Groundsel	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2915369	Chamaescilla gibsonii	Keighery	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2915383	Centrolepis pilosa	Hieron.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		1
https://id.biodiversity.org.au/node/apni/2915420	Mentha aquatica	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Water Mint	1
https://id.biodiversity.org.au/node/apni/2915499	Angianthus drummondii	(Turcz.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2915548	Mentha suaveolens	Ehrh.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Apple Mint	1
https://id.biodiversity.org.au/node/apni/2915655	Anigozanthos rufus	Labill.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Red Kangaroo Paw	1
https://id.biodiversity.org.au/node/apni/2915686	Phoenix canariensis	H.Wildpret	species	Plantae	Charophyta	Equisetopsida	Arecales	Arecaceae	Canary Island Palm	1
https://id.biodiversity.org.au/node/apni/2915695	Senecio diaschides	D.G.Drury	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Shingle Fireweed	1
https://id.biodiversity.org.au/node/apni/2915725	Grevillea flexuosa	(Lindl.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Tangled Grevillea	1
https://id.biodiversity.org.au/node/apni/2915741	Stylidium adpressum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Trigger-on-stilits	1
https://id.biodiversity.org.au/node/apni/2915842	Leptospermum spinescens	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2915890	Lamium amplexicaule	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Deadnettle	1
https://id.biodiversity.org.au/node/apni/2915935	Crassula extrorsa	Toelken	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae		1
https://id.biodiversity.org.au/node/apni/2915992	Hovea elliptica	(Sm.) DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tree Hovea	1
https://id.biodiversity.org.au/node/apni/2915996	Cyperus gymnocaulos	Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spiny Flat-sedge	1
https://id.biodiversity.org.au/node/apni/2916274	Opuntia tomentosa	Salm-Dyck	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Velvet Pear	1
https://id.biodiversity.org.au/node/apni/2916294	Ecballium elaterium	(L.) A.Rich.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Squirting Cucumber	1
https://id.biodiversity.org.au/node/apni/2916703	Aphanes australiana	(Rothm.) Rothm.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Australian Piert	1
https://id.biodiversity.org.au/node/apni/2916777	Boronia ericifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Wongan Hills Boronia	1
https://id.biodiversity.org.au/node/apni/2916787	Swainsona swainsonioides	(Benth.) A.T.Lee ex J.M.Black	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Downy Swainson-pea	1
https://id.biodiversity.org.au/node/apni/2916790	Dodonaea bursariifolia	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae	Small Hop-bush	1
https://id.biodiversity.org.au/node/apni/2916876	Grevillea sparsiflora	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Sparse-flowered Grevillea	1
https://id.biodiversity.org.au/node/apni/2916889	Auranticarpa rhombifolia	(A.Cunn. ex Hook.) L.W.Cayzer, Crisp & I.Telford	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Diamond-leaf Pittosporum	1
https://id.biodiversity.org.au/node/apni/2916914	Ailanthus altissima	(Mill.) Swingle	species	Plantae	Charophyta	Equisetopsida	Sapindales	Simaroubaceae	Tree Of Heaven	1
https://id.biodiversity.org.au/node/apni/2916961	Ceratophyllum demersum	L.	species	Plantae	Charophyta	Equisetopsida	Ceratophyllales	Ceratophyllaceae	Hornwort	1
https://id.biodiversity.org.au/node/apni/2917118	Grevillea trifida	(R.Br.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2917124	Stylidium cygnorum	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		1
https://id.biodiversity.org.au/node/apni/2917161	Datura stramonium	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Common Thorn-apple	1
https://id.biodiversity.org.au/node/apni/2917239	Schizaea fistulosa	Labill.	species	Plantae	Charophyta	Equisetopsida	Schizaeales	Schizaeaceae	Narrow Comb-fern	1
https://id.biodiversity.org.au/node/apni/2917249	Crassula colligata	Toelken	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Slender Stonecrop	1
https://id.biodiversity.org.au/node/apni/2917307	Juncus aridicola	L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Tussock Rush	1
https://id.biodiversity.org.au/node/apni/2917351	Anarthria laevis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		1
https://id.biodiversity.org.au/node/apni/2917533	Drosera bulbigena	Morrison	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Midget Sundew	1
https://id.biodiversity.org.au/node/apni/2917637	Haloragis scoparia	Fenzl	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		1
https://id.biodiversity.org.au/node/apni/2917642	Hibiscus rosa-sinensis	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Chinese Hibiscus	1
https://id.biodiversity.org.au/node/apni/2917711	Grevillea olivacea	A.S.George	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Olive Grevillea	1
https://id.biodiversity.org.au/node/apni/2917775	Lobelia erinus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Lobelia	1
https://id.biodiversity.org.au/node/apni/2917802	Lachenalia reflexa	Thunb.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2917816	Grevillea florida	(McGill.) Makinson	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2917940	Adenanthos drummondii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2917995	Lagurus ovatus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Hare's Tail Grass	1
https://id.biodiversity.org.au/node/apni/2918126	Lepidosperma tuberculatum	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2918159	Asphodelus fistulosus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asphodelaceae	Onion Weed	1
https://id.biodiversity.org.au/node/apni/2918350	Zaluzianskya divaricata	(Thunb.) Walp.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Spreading Night-phlox	1
https://id.biodiversity.org.au/node/apni/2918512	Schoenus tenellus	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2918757	Lasiopetalum membranaceum	(Steud.) Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2918839	Acacia mearnsii	De Wild.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Black Wattle	1
https://id.biodiversity.org.au/node/apni/2918860	Thelionema caespitosum	(R.Br.) R.J.F.Hend.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Tufted Lily	1
https://id.biodiversity.org.au/node/apni/2919002	Goodenia pusilla	(de Vriese) de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Delicate Goodenia	1
https://id.biodiversity.org.au/node/apni/2919223	Lindsaea linearis	Sw.	species	Plantae	Charophyta	Equisetopsida	Polypodiales	Lindsaeaceae	Screw Fern	1
https://id.biodiversity.org.au/node/apni/2919399	Leptomeria lehmannii	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae		1
https://id.biodiversity.org.au/node/apni/2919497	Acacia stereophylla	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2919621	Verticordia roei	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Roe's Featherflower	1
https://id.biodiversity.org.au/node/apni/2919746	Allocasuarina grevilleoides	(Diels) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae		1
https://id.biodiversity.org.au/node/apni/2919823	Fraxinus angustifolia	Vahl	species	Plantae	Charophyta	Equisetopsida	Lamiales	Oleaceae	Desert Ash	1
https://id.biodiversity.org.au/node/apni/2919990	Parapholis incurva	(L.) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Curly Ryegrass	1
https://id.biodiversity.org.au/node/apni/2920049	Momordica balsamina	L.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Balsam Apple	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2920452	Ruppia polycarpa	R.Mason	species	Plantae	Charophyta	Equisetopsida	Alismatales	Ruppiaceae	Widgeon Grass	1
https://id.biodiversity.org.au/node/apni/2920473	Chorizema rhombeum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2920747	Triadica sebifera	(L.) Small	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Chinese Tallowood	1
https://id.biodiversity.org.au/node/apni/2920789	Opuntia stricta	(Haw.) Haw.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Spiny Pest Pear	1
https://id.biodiversity.org.au/node/apni/2920909	Acanthocarpus canaliculatus	A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2921056	Schoenus sp. smooth culms (Newbey 7823)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2921061	Chorizema aciculare	(DC.) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Needle-leaved Chorizema	1
https://id.biodiversity.org.au/node/apni/2921072	Silybum marianum	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Variegated Thistle	1
https://id.biodiversity.org.au/node/apni/2921212	Eucalyptus utilis	Brooker & Hopper	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Coastal Moort	1
https://id.biodiversity.org.au/node/apni/2921221	Aristida ramosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Cane Wire-grass	1
https://id.biodiversity.org.au/node/apni/2921285	Macropidia fuliginosa	(Hook.) Druce	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Black Kangaroo Paw	1
https://id.biodiversity.org.au/node/apni/4663508	Vigna lanceolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Parsnip Bean	1
https://id.biodiversity.org.au/node/apni/5234975	Eucalyptus botryoides	Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Southern Mahogany	1
https://id.biodiversity.org.au/node/apni/6291414	Conostylis pauciflora	Hopper	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		1
https://id.biodiversity.org.au/node/apni/6881039	Tetragonia tetragonoides	(Pall.) Kuntze	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Aizoaceae	New Zealand Spinach	1
https://id.biodiversity.org.au/node/apni/7003351	Olearia sp. Kennedy Range (G.Byrne 66)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/7022449	Trithuria submersa	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae	Trithuria	1
https://id.biodiversity.org.au/node/apni/7415894	Mentha satureioides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Native Pennyroyal	1
https://id.biodiversity.org.au/node/apni/7462962	Pauridia vaginata	(Schltdl.) Snijman & Kocyan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hypoxidaceae	Yellow Star	1
https://id.biodiversity.org.au/node/apni/7587088	Eucalyptus cladocalyx	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Sugar Gum	1
https://id.biodiversity.org.au/node/apni/7698404	Melaleuca linariifolia	Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Snow-in Summer	1
https://id.biodiversity.org.au/node/apni/7774102	Setaria sphacelata	(Schumach.) Stapf & C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Setaria	1
https://id.biodiversity.org.au/node/apni/7809303	Potamogeton drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Potamogetonaceae	Western Pondweed	1
https://id.biodiversity.org.au/node/apni/7828725	Persoonia hakeiformis	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/7848556	Boronia scabra	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Rough Boronia	1
https://id.biodiversity.org.au/node/apni/7988035	Stylidium inundatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Hundreds And Thousands	1
https://id.biodiversity.org.au/node/apni/7988709	Stylidium periscelianthum	F.L.Erickson & J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pantaloon Triggerplant	1
https://id.biodiversity.org.au/node/apni/8489762	Spyridium spathulatum	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Spoon-leaved Spyridium	1
https://id.biodiversity.org.au/node/apni/8508892	Eutaxia parvifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/9030685	Amaranthus blitum	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		1
https://id.biodiversity.org.au/node/ausmoss/10055629	Acaulon mediterraneum	Limpr.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Spiny-spored Pygmy-moss	1
https://id.biodiversity.org.au/node/ausmoss/10060194	Bartramia robusta	Hook.f. & Wilson	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae	Common Apple-moss	1
https://id.biodiversity.org.au/node/ausmoss/10061414	Breutelia pendula	(Sm.) Mitt.	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae	Mountain Breutelia	1
https://id.biodiversity.org.au/node/ausmoss/10071480	Didymodon australasiae	(Hook. & Grev.) R.H.Zander	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Beard Moss	1
https://id.biodiversity.org.au/node/ausmoss/10071573	Didymodon torquatus	(Taylor) Catches.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Beard Moss	1
https://id.biodiversity.org.au/node/ausmoss/10072295	Ditrichum difficile	(Duby) M.Fleisch.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Common Ditrichum	1
https://id.biodiversity.org.au/node/ausmoss/10075285	Entosthodon apophysatus	(Taylor) Mitt.	species	Plantae	Bryophyta	Bryopsida	Funariales	Funariaceae	Cord Moss	1
https://id.biodiversity.org.au/node/ausmoss/10075601	Entosthodon subnudus	(Taylor) Fife	species	Plantae	Bryophyta	Bryopsida	Funariales	Funariaceae	Cord Moss	1
https://id.biodiversity.org.au/node/ausmoss/10085327	Gigaspermum repens	(Hook.) Lindb.	species	Plantae	Bryophyta	Bryopsida	Gigaspermales	Gigaspermaceae	Pineapple Moss	1
https://id.biodiversity.org.au/node/ausmoss/10107363	Ptychostomum creberrimum	(Taylor) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Thread Moss	1
https://id.biodiversity.org.au/node/ausmoss/10110826	Rosulabryum torquescens	(De Not.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Twisting Thread-moss	1
https://id.biodiversity.org.au/node/ausmoss/10113352	Sematophyllum subhumile	(MÃ¼ll.Hal.) M.Fleisch.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Sematophyllaceae		1
https://id.biodiversity.org.au/node/ausmoss/10114784	Syntrichia antarctica	(Hampe) R.H.Zander	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Bristly Screw-moss	1
https://id.biodiversity.org.au/node/ausmoss/10125240	Weissia controversa	Hedw.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Green-tufted Stubble-moss	1
https://id.biodiversity.org.au/node/ausmoss/10126455	Zygodon menziesii	(SchwÃ¤gr.) Arn.	species	Plantae	Bryophyta	Bryopsida	Orthotrichales	Orthotrichaceae	Zygodon	1
https://id.biodiversity.org.au/node/ausmoss/10128650	Gemmabryum chrysoneuron	(MÃ¼ll.Hal.) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Bloody Bryum	1
https://id.biodiversity.org.au/node/ausmoss/10128935	Gemmabryum dichotomum	(Hedw.) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Broody Bryum	1
https://id.biodiversity.org.au/node/ausmoss/10130154	Rhaphidorrhynchium amoenum	(Hedw.) M.Fleisch.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Sematophyllaceae	Common Signal-moss	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/ausmoss/2888572	Riccia lamellosa	Raddi	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	White-rim Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2889883	Marchantia berteroana	Lehm. & Lindenb.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Marchantiaceae	Common Marchantia	1
https://id.biodiversity.org.au/node/ausmoss/2891025	Riccia crozalsii	Levier	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Ciliate Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2893254	Riccia subbifurca	Warnst. ex Croz.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2897895	Riccia nigrella	DC.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Black Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2898327	Marchantia polymorpha	L.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Marchantiaceae		1
https://id.biodiversity.org.au/node/ausmoss/2902663	Enigmella thallina	G.A.M.Scott & K.G.Beckm.	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Acrobolbaceae	Scott's Enigma	1
https://id.biodiversity.org.au/node/ausmoss/2904127	Riccia crystallina	L.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Blue Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2907672	Goebelobryum unguiculatum	(Hook.f. & Taylor) Grolle	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Acrobolbaceae	Mister Whiskers	1
https://id.biodiversity.org.au/node/ausmoss/2912763	Riccia crinita	Taylor	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Fringed Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2916152	Riccia inflexa	Taylor	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Dotted Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2918048	Gongylanthus scariosus	(Lehm.) Steph.	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Arnelliaceae	Heath Pouchwort	1
https://id.biodiversity.org.au/node/ausmoss/2918452	Riccia cancellata	Taylor	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae		1
https://id.biodiversity.org.au/node/fungi/60082667	Saccharata proteae	(Wakef.) Denman & Crous	species	Fungi	Ascomycota	Dothideomycetes	Botryosphaeriales	Botryosphaeriaceae		1
https://id.biodiversity.org.au/node/fungi/60091443	Agaricus campestris	L.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Field Mushroom	1
https://id.biodiversity.org.au/node/fungi/60091547	Battarrea phalloides	(Dicks.) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60091551	Battarrea stevenii	(Libosch.) Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60091685	Cyathus olla	(Batsch) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60091691	Cyathus stercoreus	(Schwein.) De Toni	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60092017	Nidula candida	(Peck) V.S.White	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60092115	Tulostoma obesum	Cooke & Ellis	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60092239	Amanita farinacea	(Sacc.) Cleland & Cheel	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae	Australian Flour Lepidella	1
https://id.biodiversity.org.au/node/fungi/60092241	Amanita fibrillopes	O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/node/fungi/60092431	Amanita umbrinella	E.-J.Gilbert & Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/node/fungi/60092489	Torrendia arenaria	O.K.Mill. & E.Horak	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/node/fungi/60092575	Setchelliogaster tenuipes	(Setch.) Pouzar	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Bolbitiaceae		1
https://id.biodiversity.org.au/node/fungi/60092755	Cortinarius austrovenetus	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60092835	Cortinarius erythraeus	Berk.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60092997	Cortinarius subarcheri	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60093001	Cortinarius sublargus	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60093081	Descolea maculata	Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60093467	Laccaria lateritia	MalenÃ§on	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Hydnangiaceae		1
https://id.biodiversity.org.au/node/fungi/60093747	Lichenomphalia umbellifera	(L.) Redhead, Lutzoni, Moncalvo & Vilgalys	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Hygrophoraceae		1
https://id.biodiversity.org.au/node/fungi/60093823	Auritella chamaecephala	Matheny, O.K.Mill. & Bougher ex Matheny, O.K.Mill. & Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/node/fungi/60093861	Crepidotus eucalyptorum	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/node/fungi/60093937	Inocybe fibrillosibrunnea	O.K.Mill. & R.N.Hilton	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/node/fungi/60094569	Mycena nargan	Grgur.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Mycenaceae		1
https://id.biodiversity.org.au/node/fungi/60094775	Armillaria luteobubalina	Watling & Kile	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Physalacriaceae		1
https://id.biodiversity.org.au/node/fungi/60095053	Coprinellus curtus	(Kalchbr.) Vilgalys, Hopple & Jacq.Johnson	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1
https://id.biodiversity.org.au/node/fungi/60095063	Coprinellus flocculosus	(DC.) Vilgalys, Hopple & Jacq.Johnson	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1
https://id.biodiversity.org.au/node/fungi/60095073	Coprinellus pellucidus	(P.Karst.) Redhead, Vilgalys & Moncalvo	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1
https://id.biodiversity.org.au/node/fungi/60095389	Gymnopilus allantopus	(Berk.) Pegler	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		1
https://id.biodiversity.org.au/node/fungi/60095735	Psilocybe coprophila	(Bull.) P.Kumm.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		1
https://id.biodiversity.org.au/node/fungi/60095873	Clitocybe dealbata	(Sowerby) P.Kumm.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae		1
https://id.biodiversity.org.au/node/fungi/60096049	Leucopaxillus lilacinus	Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae		1
https://id.biodiversity.org.au/node/fungi/60096309	Austroboletus lacunosus	(Kuntze) T.W.May & A.E.Wood	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096377	Boletus caesareus	Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096475	Buchwaldoboletus sphaerocephalus	(Barla) Watling & T.H.Li	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096675	Tylopilus fuscobrunneus	Watling	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096901	Pisolithus arhizus	(Scop.) Rauschert	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/fungi/60096973	Scleroderma verrucosum	(Bull.) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae		1
https://id.biodiversity.org.au/node/fungi/60096987	Austropaxillus muelleri	(Berk.) Bresinsky & Jarosch	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Serpulaceae		1
https://id.biodiversity.org.au/node/fungi/60097021	Tapinella panuoides	(Fr.) E.-J.Gilbert	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Tapinellaceae		1
https://id.biodiversity.org.au/node/fungi/60098003	Dacryobolus sudans	(Alb. & Schwein.) Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Fomitopsidaceae		1
https://id.biodiversity.org.au/node/fungi/60098505	Ceriporia purpurea	(Fr.) Donk	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Phanerochaetaceae		1
https://id.biodiversity.org.au/node/fungi/60098897	Panus fasciatus	(Berk.) Pegler	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae		1
https://id.biodiversity.org.au/node/fungi/60099609	Lactarius eucalypti	O.K.Mill. & R.N.Hilton	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		1
https://id.biodiversity.org.au/node/fungi/60099739	Russula persanguinea	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		1
https://id.biodiversity.org.au/node/fungi/60099785	Zelleromyces australiensis	(Berk. & Broome) Pegler & T.W.K.Young	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		1
https://id.biodiversity.org.au/node/fungi/60099903	Stereum illudens	Berk.	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Stereaceae		1
https://id.biodiversity.org.au/node/fungi/60100205	Geastrum triplex	Jungh.	species	Fungi	Basidiomycota	Agaricomycetes	Geastrales	Geastraceae		1
https://id.biodiversity.org.au/node/fungi/60100281	Ramaria capitata	(Lloyd) Corner	species	Fungi	Basidiomycota	Agaricomycetes	Gomphales	Gomphaceae		1
https://id.biodiversity.org.au/node/fungi/60100293	Ramaria filicicola	(S.G.M.Fawc.) Corner	species	Fungi	Basidiomycota	Agaricomycetes	Gomphales	Gomphaceae		1
https://id.biodiversity.org.au/node/fungi/60100605	Colus pusillus	(Berk.) Reichert	species	Fungi	Basidiomycota	Agaricomycetes	Phallales	Phallaceae		1
https://id.biodiversity.org.au/node/fungi/60101265	Puccinia antirrhini	Dietel & Holw.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
https://id.biodiversity.org.au/node/fungi/60101429	Puccinia malvacearum	Bertero ex Mont.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
https://id.biodiversity.org.au/node/fungi/60102411	Ustilago avenae	(Pers.) Rostr.	species	Fungi	Basidiomycota	Ustilaginomycetes	Ustilaginales	Ustilaginaceae		1
https://id.biodiversity.org.au/node/fungi/60102511	Restiosporium restionum	(Nees) VÃ¡nky	species	Fungi	Basidiomycota	Ustilaginomycetes	Ustilaginales	Websdaneaceae		1
https://id.biodiversity.org.au/node/fungi/60103731	Badhamia utricularis	(Bull.) Berk.	species	Protista	Amoebozoa	Myxogastrea	Physarida	Physaraceae		1
https://id.biodiversity.org.au/node/fungi/60103757	Leocarpus fragilis	(Dicks.) Rostaf.	species	Protista	Amoebozoa	Myxogastrea	Physarida	Physaraceae		1
https://id.biodiversity.org.au/node/fungi/60103981	Arcyria cinerea	(Bull.) Pers.	species	Protista	Amoebozoa	Myxogastrea	Trichiida	Arcyriaceae		1
https://id.biodiversity.org.au/node/fungi/60112051	Plicaria endocarpoides	(Berk.) Rifai	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pezizaceae		1
https://id.biodiversity.org.au/node/fungi/60112225	Pyronema omphalodes	(Bull.) Fuckel	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pyronemataceae		1
https://id.biodiversity.org.au/node/fungi/60112265	Sowerbyella rhenana	(Fuckel) J.Moravec	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pyronemataceae		1
https://id.biodiversity.org.au/node/lichen/30086135	Flavoparmelia marchantii	Elix, O.Blanco & A.Crespo	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30087572	Pertusaria remota	A.W.Archer	species	Fungi	Ascomycota	Lecanoromycetes	Pertusariales	Pertusariaceae		1
https://id.biodiversity.org.au/node/lichen/30088060	Punctelia pseudocoralloidea	(Gyeln.) Elix & Kantvilas	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30088181	Ramboldia arandensis	(Elix) Kalb, Lumbsch & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Lecanoraceae		1
https://id.biodiversity.org.au/node/lichen/30088791	Usnea scabrida	Taylor	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30088973	Xanthoparmelia filsonii	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30089001	Xanthoparmelia immutata	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30089082	Xanthoparmelia parvoincerta	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30089153	Xanthoparmelia succedans	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/taxon/apni/51266442	Alstroemeria psittacina	Lehm.	species	Plantae	Charophyta	Equisetopsida	Liliales	Alstroemeriaceae	Parrot Lily	1
https://id.biodiversity.org.au/taxon/apni/51267054	Asparagus plumosus	Baker	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Ferny Climbing Asparagus Fern	1
https://id.biodiversity.org.au/taxon/apni/51269741	Brassica rapa	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Turnip	1
https://id.biodiversity.org.au/taxon/apni/51270422	Stackhousia sp. Red-blotched corolla (A.Markey 911)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae		1
https://id.biodiversity.org.au/taxon/apni/51270825	Citrullus amarus	Schrad.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Paddy Melon	1
https://id.biodiversity.org.au/taxon/apni/51283457	Dioscorea bulbifera	L.	species	Plantae	Charophyta	Equisetopsida	Dioscoreales	Dioscoreaceae	Round Yam	1
https://id.biodiversity.org.au/taxon/apni/51283556	Drosera geniculata	(N.G.Marchant & Lowrie) Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/taxon/apni/51283637	Drosera squamosa	Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/taxon/apni/51284002	Leucopogon glabellus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/taxon/apni/51285782	Vicia tetrasperma	(L.) Schreb.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Slender Vetch	1
https://id.biodiversity.org.au/taxon/apni/51288041	Rotheca myricoides	(Hochst.) Steane & Mabb.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		1
https://id.biodiversity.org.au/taxon/apni/51288204	Orianthera flaviflora	(F.Muell.) C.S.P.Foster & B.J.Conn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		1
https://id.biodiversity.org.au/taxon/apni/51288506	Hibiscus tiliaceus	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Cotton Tree	1
https://id.biodiversity.org.au/taxon/apni/51288604	Seringia integrifolia	(Steud.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/taxon/apni/51288703	Glinus lotoides	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Molluginaceae	Hairy Carpet Weed	1
https://id.biodiversity.org.au/taxon/apni/51288833	Beaufortia elegans	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Elegant Beaufortia	1
https://id.biodiversity.org.au/taxon/apni/51289322	Calothamnus villosus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Hairy Calothamnus	1
https://id.biodiversity.org.au/taxon/apni/51289720	Eremaea beaufortioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51290178	Lamarchea hakeifolia	Gaudich.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51290286	Regelia inops	(Schauer) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51290390	Eucalyptus decipiens	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Redheart	1
https://id.biodiversity.org.au/taxon/apni/51290399	Eucalyptus drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Drummonds Gum	1
https://id.biodiversity.org.au/taxon/apni/51291480	Sporobolus schoenoides	(L.) P.M.Peterson	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/taxon/apni/51291704	Rumex hypogaeus	T.M.Schust. & Reveal	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Spiny Emex	1
https://id.biodiversity.org.au/taxon/apni/51293825	Leptocarpus tephrinus	B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/taxon/apni/51294397	Stylidium paludicola	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Swamp Reed Triggerplant	1
https://id.biodiversity.org.au/taxon/apni/51294588	Verbena officinalis	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Common Verbena	1
https://id.biodiversity.org.au/taxon/apni/51294860	Petrophile rigida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/taxon/apni/51294951	Petrophile carduacea	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/taxon/apni/51298267	Convolvulus angustissimus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Blushing Bindweed	1
https://id.biodiversity.org.au/taxon/apni/51299776	Albizia procera	(Roxb.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Albizia	1
https://id.biodiversity.org.au/taxon/apni/51299886	Banksia meisneri	Lehm.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Scott River Banksia	1
https://id.biodiversity.org.au/taxon/apni/51299936	Calytrix simplex	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51300013	Cyathea cooperi	(Hook. ex F.Muell.) Domin	species	Plantae	Charophyta	Equisetopsida	Cyatheales	Cyatheaceae	Straw Tree-fern	1
https://id.biodiversity.org.au/taxon/apni/51300083	Duboisia hopwoodii	(F.Muell.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Pituri	1
https://id.biodiversity.org.au/taxon/apni/51300117	Eutaxia epacridoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/taxon/apni/51311167	Ericomyrtus tenuior	(Ewart) Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51398823	Caladenia barbarossa	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dragon Orchid	1
https://id.biodiversity.org.au/taxon/apni/51398841	Caladenia brownii	Hopper	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Karri Spider Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399211	Caladenia nana	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Fan Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399255	Caladenia pendens	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pendant Spider Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399302	Caladenia radialis	R.S.Rogers	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Drooping Spider Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399665	Caleana hortiorum	(Hopper & A.P.Br.) M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae		1
https://id.biodiversity.org.au/taxon/apni/51399674	Caleana nigrita	J.Drumm. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae		1
https://id.biodiversity.org.au/taxon/apni/51404207	Diuris decrementum	D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Bee Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404293	Diuris pauciflora	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Donkey Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404653	Drakaea elastica	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Glossy-leaved Hammer Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404657	Drakaea gracilis	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Hammer Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404661	Drakaea livida	J.Drumm.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Warty Hammer Orchid	1
https://id.biodiversity.org.au/taxon/apni/51406614	Microtis brownii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Sweet Mignonette Orchid	1
https://id.biodiversity.org.au/taxon/apni/51406622	Microtis familiaris	R.J.Bates	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Coastal Mignonette Orchid	1
https://id.biodiversity.org.au/taxon/apni/51406638	Microtis orbicularis	R.S.Rogers	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Onion-orchid	1
https://id.biodiversity.org.au/taxon/apni/51406644	Microtis quadrata	(R.J.Bates) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	South Coast Mignonette Orchid	1
https://id.biodiversity.org.au/taxon/apni/51409829	Prasophyllum odoratissimum	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Scented Leek Orchid	1
https://id.biodiversity.org.au/taxon/apni/51409877	Prasophyllum sargentii	(Nicholls) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Frilled Leek Orchid	1
https://id.biodiversity.org.au/taxon/apni/51412026	Pterostylis aspera	D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Brown-veined Shell Orchid	1
https://id.biodiversity.org.au/taxon/apni/51412290	Pterostylis pyramidalis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Snail Orchid	1
https://id.biodiversity.org.au/taxon/apni/51414258	Thelymitra cornicina	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Lilac Sun Orchid	1
https://id.biodiversity.org.au/taxon/apni/51414348	Thelymitra maculata	Jeanes	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Eatern Curly Locks	1
https://id.biodiversity.org.au/taxon/apni/51414362	Thelymitra mucida	Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Plum Orchid	1
https://id.biodiversity.org.au/taxon/apni/51414422	Thelymitra spiralis	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Curly-locks	1
https://id.biodiversity.org.au/taxon/apni/51428982	Melaleuca bracteata	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	River Tea-tree	1
https://id.biodiversity.org.au/taxon/apni/51429048	Petalostylis labicheoides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Butterfly Bush	1
https://id.biodiversity.org.au/taxon/apni/51430587	Amaranthus caudatus	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Love-lies Bleeding	1
https://id.biodiversity.org.au/taxon/apni/51430680	Ptilotus exaltatus	Nees	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Lambs Tail	1
https://id.biodiversity.org.au/taxon/apni/51430945	Carum carvi	L.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		1
https://id.biodiversity.org.au/taxon/apni/51433033	Allocasuarina littoralis	(Salisb.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Black Sheoak	1
https://id.biodiversity.org.au/taxon/apni/51433217	Salicornia blackiana	Ulbr.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Thick-head Samphire	1
https://id.biodiversity.org.au/taxon/apni/51434529	Machaerina acuta	(Labill.) J.Kern	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Pale Twig-rush	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51434739	Schoenoplectus pungens	(Vahl) Palla	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spiky Club-rush	1
https://id.biodiversity.org.au/taxon/apni/51434940	Hibbertia lineata	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		1
https://id.biodiversity.org.au/taxon/apni/51435268	Brachyloma preissii	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Globe Heath	1
https://id.biodiversity.org.au/taxon/apni/51435350	Styphelia filifolia	Hislop & Puente-Lel.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/taxon/apni/51436312	Swainsona formosa	(G.Don) Joy Thomps.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sturt Pea	1
https://id.biodiversity.org.au/taxon/apni/51437537	Conostylis latens	Hopper	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		1
https://id.biodiversity.org.au/taxon/apni/51438032	Ixia polystachya	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Variable Ixia	1
https://id.biodiversity.org.au/taxon/apni/51438116	Watsonia versfeldii	J.W.Mathews & L.Bolus	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Pink Watsonia	1
https://id.biodiversity.org.au/taxon/apni/51439087	Ornithogalum thyrsoides	Jacq.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Chincherinchee	1
https://id.biodiversity.org.au/taxon/apni/51439656	Callistemon citrinus	(Curtis) Skeels	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Crimson Bottlebrush	1
https://id.biodiversity.org.au/taxon/apni/51439812	Eucalyptus grandis	W.Hill	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Flooded Gum	1
https://id.biodiversity.org.au/taxon/apni/51440805	Najas marina	L.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Prickly Water-nymph	1
https://id.biodiversity.org.au/taxon/apni/51442118	Passiflora foetida	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Passifloraceae	Stinking Passionfruit	1
https://id.biodiversity.org.au/taxon/apni/51442338	Bursaria spinosa	Cav.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Sweet Native Blackthorn	1
https://id.biodiversity.org.au/taxon/apni/51442708	Hordeum marinum	Huds.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Sea Barley-grass	1
https://id.biodiversity.org.au/taxon/apni/51442763	Lolium arundinaceum	(Schreb.) Darbysh.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Tall Fescue	1
https://id.biodiversity.org.au/taxon/apni/51442778	Lolium pratense	(Huds.) Darbysh.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Meadow Fescue	1
https://id.biodiversity.org.au/taxon/apni/51443078	Paspalum distichum	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Water Couch	1
https://id.biodiversity.org.au/taxon/apni/51444874	Polygonum aviculare	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Prostrate Knotweed	1
https://id.biodiversity.org.au/taxon/apni/51444959	Persicaria lapathifolia	(L.) Delarbre	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Woolly Knotweed	1
https://id.biodiversity.org.au/taxon/apni/51445455	Hakea pritzelii	Diels	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/taxon/apni/51445472	Isopogon formosus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Rose Coneflower	1
https://id.biodiversity.org.au/taxon/apni/51445678	Anogramma leptophylla	(L.) Link	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Annual Fern	1
https://id.biodiversity.org.au/taxon/apni/51446156	Ranunculus lappaceus	Sm.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Native Buttercup	1
https://id.biodiversity.org.au/taxon/apni/51446356	Cotoneaster pannosus	Franch.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Velvet Cotoneaster	1
https://id.biodiversity.org.au/taxon/apni/51446402	Eriobotrya japonica	(Thunb.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Loquat	1
https://id.biodiversity.org.au/taxon/apni/51446458	Rhaphiolepis indica	(L.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Pink Indian Hawthorn	1
https://id.biodiversity.org.au/taxon/apni/51735761	Ptilotus gaudichaudii	(Steud.) J.M.Black	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Paper Foxtail	1
https://id.biodiversity.org.au/taxon/apni/51736327	Eryngium ovinum	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Blue Devil	1
https://id.biodiversity.org.au/taxon/apni/51737689	Asparagus aethiopicus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Asparagus Fern	1
https://id.biodiversity.org.au/taxon/apni/51737729	Lachenalia flava	Andrews	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/taxon/apni/51741614	Bartlettina sordida	(Less.) R.M.King & H.Rob.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/taxon/apni/51741671	Brachyscome perpusilla	(Steetz) J.M.Black	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Rayless Daisy	1
https://id.biodiversity.org.au/taxon/ausmoss/10144499	Bryum argenteum	Hedw.	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Silver Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10145639	Thuidiopsis sparsa	(Hook.f. & Wilson) Broth.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Thuidiaceae	Weft Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10152537	Campylopus appressifolius	Mitt.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Swan-neck Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10152548	Campylopus clavatus	Wilson	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Broody Swan-neck Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10154688	Fissidens tenellus	Hook.f. & Wilson	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Tiny Pocket-moss	1
https://id.biodiversity.org.au/taxon/fungi/60115527	Gyroporus robinsonii	Davoodian	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Gyroporaceae		1
https://id.biodiversity.org.au/taxon/fungi/60117702	Inocybe spadicea	Matheny & Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/taxon/fungi/60118699	Macrolepiota turbinata	T.Lebel	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/taxon/fungi/60118703	Amanita drummondii	E.M.Davison	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/taxon/fungi/60118707	Amanita quenda	E.M.Davison	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://www.catalogueoflife.org/data/taxon/496D4	Oligonema schweinitzii	(Berk.) G.W.Martin, 1947	species	Protista	Amoebozoa	Myxogastrea	Trichiida	Trichiaceae		1

APPENDIX 5

Protected Matters Search Tool Report

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 18-Sep-2025

Summary
Details
- Matters of NES
- Other Matters Protected by the EPBC Act
- Extra Information

Caveat
Acknowledgements

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	7
Listed Threatened Species:	60
Listed Migratory Species:	26

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at https://www.dcceew.gov.au/parks-heritage/heritage

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	254
Commonwealth Heritage Places:	None
Listed Marine Species:	30
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	16
Regional Forest Agreements:	1
Nationally Important Wetlands:	2
EPBC Act Referrals:	22
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities [Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.
Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area	In feature area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Community likely to occur within area	In buffer area only
Corymbia calophylla - Kingia australis woodlands on heavy soils of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Empodisma peatlands of southwestern Australia	Endangered	Community may occur within area	In feature area
Shrublands and Woodlands of the eastern Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community may occur within area	In feature area

Listed Threatened Species [Resource Information]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Botaurus poiciloptilus			
Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Phaethon rubricauda westralis Red-tailed Tropicbird (Indian Ocean), Indian Ocean Red-tailed Tropicbird [91824]	Endangered	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In feature area
Zanda baudinii listed as Calyptorhynchus baudinii Baudin's Cockatoo, Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Roosting known to occur within area	In feature area
Zanda latirostris listed as Calyptorhynchus latirostris Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Breeding known to occur within area	In feature area
INSECT			
Leioproctus douglasiellus a short-tongued bee [66756]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
MAMMAL			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat may occur within area	In buffer area only
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area	In feature area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
OTHER			
Westralunio carteri Carter's Freshwater Mussel, Ambiguus Mussel [86266]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
PLANT			
Acacia anomala Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Acacia aphylla Leafless Rock Wattle [13553]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area	In feature area
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Banksia mimica Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area	In feature area
Calytrix breviseta subsp. breviseta Swamp Starflower [23879]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chamelaucium lullfitzii listed as Chamelaucium sp. Gingin (N.G.Marchant 6)			
Gingin Wax [92777]	Endangered (listed as Chamelaucium sp. Gingin	Species or species habitat may occur within area	In feature area
Conospermum undulatum			
Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat known to occur within area	In feature area
Darwinia apiculata			
Scarp Darwinia [8763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Diplolaena andrewsii			
[6601]	Endangered	Species or species habitat likely to occur within area	In feature area
Diuris drummondii			
Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris micrantha			
Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris purdiei			
Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea elastica			
Glossy-leafed Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea micrantha			
Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area	In feature area
Eleocharis keigheryi			
Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Eremophila glabra subsp. chlorella			
[84927]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eucalyptus x balanites			
Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area	In feature area
Grevillea curviloba subsp. incurva			
Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat may occur within area	In feature area
Grevillea flexuosa			
Zig Zag Grevillea [2957]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Macarthuria keigheryi			
Keighery's Macarthuria [64930]	Endangered	Species or species habitat known to occur within area	In feature area
Morelotia australiensis listed as Tetraria australiensis			
Southern Tetraria [92784]	Vulnerable	Species or species habitat may occur within area	In feature area
Synaphea sp. Fairbridge Farm (D.Papenfus 696)			
Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Thelymitra dedmaniarum			
Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area	In feature area
Thelymitra stellata			
Star Sun-orchid [7060]	Endangered	Species or species habitat known to occur within area	In feature area
Trithuria occidentalis			
Swan Hydatella [42224]	Endangered	Species or species habitat likely to occur within area	In buffer area only
REPTILE			
Caretta caretta			
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas			
Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea			
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Sphyrna lewini			
Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species [Resource Information]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis			
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora			
Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans			
Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Macronectes giganteus			
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli			
Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Phaethon rubricauda			
Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Marine Species			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

Commonwealth Lands [Resource Information]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Commonwealth Land Name	State	Buffer Status
Defence		
Defence - BUSHMEAD RIFLE RANGE [50143]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50258]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - BUSHMEAD TRAINING AREA [50260]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50259]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50177]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50179]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50176]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50178]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50180]	WA	In buffer area only
Unknown		
Commonwealth Land - [51362]	WA	In feature area
Commonwealth Land - [51363]	WA	In feature area
Commonwealth Land - [51364]	WA	In feature area
Commonwealth Land - [51365]	WA	In feature area
Commonwealth Land - [51366]	WA	In feature area
Commonwealth Land - [51367]	WA	In feature area
Commonwealth Land - [51369]	WA	In feature area
Commonwealth Land - [51368]	WA	In feature area
Commonwealth Land - [51194]	WA	In buffer area only
Commonwealth Land - [51195]	WA	In buffer area only
Commonwealth Land - [51355]	WA	In buffer area only
Commonwealth Land - [51271]	WA	In buffer area only
Commonwealth Land - [51198]	WA	In buffer area only
Commonwealth Land - [51907]	WA	In buffer area only
Commonwealth Land - [51339]	WA	In buffer area only
Commonwealth Land - [51197]	WA	In buffer area only
Commonwealth Land - [51221]	WA	In buffer area only
Commonwealth Land - [51906]	WA	In buffer area only
Commonwealth Land - [51222]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [50850]	WA	In buffer area only
Commonwealth Land - [51225]	WA	In buffer area only
Commonwealth Land - [51199]	WA	In buffer area only
Commonwealth Land - [51220]	WA	In buffer area only
Commonwealth Land - [51909]	WA	In buffer area only
Commonwealth Land - [51223]	WA	In buffer area only
Commonwealth Land - [51360]	WA	In buffer area only
Commonwealth Land - [51226]	WA	In buffer area only
Commonwealth Land - [51227]	WA	In buffer area only
Commonwealth Land - [51224]	WA	In buffer area only
Commonwealth Land - [51361]	WA	In feature area
Commonwealth Land - [51246]	WA	In buffer area only
Commonwealth Land - [50859]	WA	In buffer area only
Commonwealth Land - [51908]	WA	In buffer area only
Commonwealth Land - [51265]	WA	In buffer area only
Commonwealth Land - [51270]	WA	In buffer area only
Commonwealth Land - [51172]	WA	In buffer area only
Commonwealth Land - [51345]	WA	In buffer area only
Commonwealth Land - [51267]	WA	In buffer area only
Commonwealth Land - [51247]	WA	In buffer area only
Commonwealth Land - [51264]	WA	In buffer area only
Commonwealth Land - [51307]	WA	In buffer area only
Commonwealth Land - [51261]	WA	In buffer area only
Commonwealth Land - [51346]	WA	In feature area
Commonwealth Land - [51917]	WA	In buffer area only
Commonwealth Land - [51266]	WA	In buffer area only
Commonwealth Land - [51916]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51263]	WA	In buffer area only
Commonwealth Land - [51344]	WA	In feature area
Commonwealth Land - [51915]	WA	In buffer area only
Commonwealth Land - [51178]	WA	In buffer area only
Commonwealth Land - [51347]	WA	In buffer area only
Commonwealth Land - [51914]	WA	In buffer area only
Commonwealth Land - [51304]	WA	In buffer area only
Commonwealth Land - [51262]	WA	In buffer area only
Commonwealth Land - [51228]	WA	In buffer area only
Commonwealth Land - [51229]	WA	In buffer area only
Commonwealth Land - [51912]	WA	In buffer area only
Commonwealth Land - [51913]	WA	In buffer area only
Commonwealth Land - [51910]	WA	In buffer area only
Commonwealth Land - [51911]	WA	In buffer area only
Commonwealth Land - [51341]	WA	In buffer area only
Commonwealth Land - [51340]	WA	In buffer area only
Commonwealth Land - [51343]	WA	In buffer area only
Commonwealth Land - [51342]	WA	In buffer area only
Commonwealth Land - [51349]	WA	In buffer area only
Commonwealth Land - [51348]	WA	In buffer area only
Commonwealth Land - [51323]	WA	In buffer area only
Commonwealth Land - [50853]	WA	In buffer area only
Commonwealth Land - [51176]	WA	In buffer area only
Commonwealth Land - [50849]	WA	In buffer area only
Commonwealth Land - [51184]	WA	In buffer area only
Commonwealth Land - [51177]	WA	In buffer area only
Commonwealth Land - [51322]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51185]	WA	In buffer area only
Commonwealth Land - [51174]	WA	In buffer area only
Commonwealth Land - [51175]	WA	In buffer area only
Commonwealth Land - [51189]	WA	In buffer area only
Commonwealth Land - [51173]	WA	In buffer area only
Commonwealth Land - [51170]	WA	In buffer area only
Commonwealth Land - [51171]	WA	In buffer area only
Commonwealth Land - [51918]	WA	In buffer area only
Commonwealth Land - [51183]	WA	In buffer area only
Commonwealth Land - [51182]	WA	In buffer area only
Commonwealth Land - [51181]	WA	In buffer area only
Commonwealth Land - [51351]	WA	In buffer area only
Commonwealth Land - [51187]	WA	In buffer area only
Commonwealth Land - [51186]	WA	In buffer area only
Commonwealth Land - [51357]	WA	In buffer area only
Commonwealth Land - [51206]	WA	In buffer area only
Commonwealth Land - [51213]	WA	In buffer area only
Commonwealth Land - [51977]	WA	In buffer area only
Commonwealth Land - [51278]	WA	In buffer area only
Commonwealth Land - [51204]	WA	In buffer area only
Commonwealth Land - [51372]	WA	In feature area
Commonwealth Land - [51166]	WA	In buffer area only
Commonwealth Land - [51279]	WA	In buffer area only
Commonwealth Land - [51375]	WA	In feature area
Commonwealth Land - [51167]	WA	In feature area
Commonwealth Land - [51212]	WA	In buffer area only
Commonwealth Land - [51211]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51209]	WA	In buffer area only
Commonwealth Land - [51288]	WA	In buffer area only
Commonwealth Land - [51201]	WA	In buffer area only
Commonwealth Land - [51208]	WA	In buffer area only
Commonwealth Land - [50885]	WA	In buffer area only
Commonwealth Land - [51281]	WA	In buffer area only
Commonwealth Land - [51289]	WA	In buffer area only
Commonwealth Land - [51971]	WA	In buffer area only
Commonwealth Land - [51219]	WA	In buffer area only
Commonwealth Land - [51218]	WA	In buffer area only
Commonwealth Land - [51217]	WA	In buffer area only
Commonwealth Land - [51216]	WA	In buffer area only
Commonwealth Land - [51324]	WA	In feature area
Commonwealth Land - [51215]	WA	In buffer area only
Commonwealth Land - [51214]	WA	In buffer area only
Commonwealth Land - [51300]	WA	In buffer area only
Commonwealth Land - [51301]	WA	In buffer area only
Commonwealth Land - [51269]	WA	In buffer area only
Commonwealth Land - [51268]	WA	In buffer area only
Commonwealth Land - [51299]	WA	In buffer area only
Commonwealth Land - [51305]	WA	In buffer area only
Commonwealth Land - [51210]	WA	In buffer area only
Commonwealth Land - [51972]	WA	In buffer area only
Commonwealth Land - [51200]	WA	In buffer area only
Commonwealth Land - [51202]	WA	In buffer area only
Commonwealth Land - [51203]	WA	In buffer area only
Commonwealth Land - [51292]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51291]	WA	In buffer area only
Commonwealth Land - [50877]	WA	In buffer area only
Commonwealth Land - [50878]	WA	In buffer area only
Commonwealth Land - [51358]	WA	In buffer area only
Commonwealth Land - [51295]	WA	In buffer area only
Commonwealth Land - [51290]	WA	In buffer area only
Commonwealth Land - [51297]	WA	In buffer area only
Commonwealth Land - [50874]	WA	In buffer area only
Commonwealth Land - [50873]	WA	In buffer area only
Commonwealth Land - [51515]	WA	In buffer area only
Commonwealth Land - [51516]	WA	In buffer area only
Commonwealth Land - [51190]	WA	In buffer area only
Commonwealth Land - [51191]	WA	In buffer area only
Commonwealth Land - [51192]	WA	In buffer area only
Commonwealth Land - [51193]	WA	In buffer area only
Commonwealth Land - [51294]	WA	In buffer area only
Commonwealth Land - [51359]	WA	In buffer area only
Commonwealth Land - [51303]	WA	In buffer area only
Commonwealth Land - [51242]	WA	In buffer area only
Commonwealth Land - [51241]	WA	In buffer area only
Commonwealth Land - [51309]	WA	In buffer area only
Commonwealth Land - [50948]	WA	In buffer area only
Commonwealth Land - [50946]	WA	In buffer area only
Commonwealth Land - [51243]	WA	In buffer area only
Commonwealth Land - [51260]	WA	In buffer area only
Commonwealth Land - [51259]	WA	In buffer area only
Commonwealth Land - [51293]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51308]	WA	In buffer area only
Commonwealth Land - [50861]	WA	In buffer area only
Commonwealth Land - [51298]	WA	In buffer area only
Commonwealth Land - [51371]	WA	In feature area
Commonwealth Land - [51248]	WA	In buffer area only
Commonwealth Land - [50860]	WA	In buffer area only
Commonwealth Land - [51249]	WA	In buffer area only
Commonwealth Land - [51244]	WA	In buffer area only
Commonwealth Land - [51245]	WA	In buffer area only
Commonwealth Land - [51280]	WA	In buffer area only
Commonwealth Land - [51373]	WA	In feature area
Commonwealth Land - [51374]	WA	In feature area
Commonwealth Land - [51273]	WA	In buffer area only
Commonwealth Land - [51168]	WA	In buffer area only
Commonwealth Land - [51169]	WA	In buffer area only
Commonwealth Land - [51276]	WA	In buffer area only
Commonwealth Land - [51277]	WA	In buffer area only
Commonwealth Land - [51350]	WA	In buffer area only
Commonwealth Land - [51274]	WA	In buffer area only
Commonwealth Land - [51275]	WA	In buffer area only
Commonwealth Land - [51296]	WA	In buffer area only
Commonwealth Land - [51207]	WA	In buffer area only
Commonwealth Land - [51353]	WA	In buffer area only
Commonwealth Land - [51378]	WA	In buffer area only
Commonwealth Land - [51352]	WA	In buffer area only
Commonwealth Land - [51328]	WA	In buffer area only
Commonwealth Land - [51205]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51286]	WA	In buffer area only
Commonwealth Land - [51285]	WA	In buffer area only
Commonwealth Land - [51254]	WA	In buffer area only
Commonwealth Land - [51284]	WA	In buffer area only
Commonwealth Land - [51255]	WA	In buffer area only
Commonwealth Land - [51252]	WA	In buffer area only
Commonwealth Land - [51253]	WA	In buffer area only
Commonwealth Land - [51258]	WA	In buffer area only
Commonwealth Land - [51256]	WA	In buffer area only
Commonwealth Land - [51257]	WA	In buffer area only
Commonwealth Land - [51251]	WA	In buffer area only
Commonwealth Land - [51250]	WA	In buffer area only
Commonwealth Land - [51922]	WA	In feature area
Commonwealth Land - [51282]	WA	In buffer area only
Commonwealth Land - [51283]	WA	In buffer area only
Commonwealth Land - [50847]	WA	In buffer area only
Commonwealth Land - [51302]	WA	In buffer area only
Commonwealth Land - [51334]	WA	In buffer area only
Commonwealth Land - [51333]	WA	In buffer area only
Commonwealth Land - [51336]	WA	In buffer area only
Commonwealth Land - [51335]	WA	In buffer area only
Commonwealth Land - [51330]	WA	In buffer area only
Commonwealth Land - [51188]	WA	In buffer area only
Commonwealth Land - [51332]	WA	In buffer area only
Commonwealth Land - [51331]	WA	In buffer area only
Commonwealth Land - [51337]	WA	In buffer area only
Commonwealth Land - [51338]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51230]	WA	In buffer area only
Commonwealth Land - [51231]	WA	In buffer area only
Commonwealth Land - [51238]	WA	In buffer area only
Commonwealth Land - [51272]	WA	In buffer area only
Commonwealth Land - [51234]	WA	In buffer area only
Commonwealth Land - [51235]	WA	In buffer area only
Commonwealth Land - [51232]	WA	In buffer area only
Commonwealth Land - [51233]	WA	In buffer area only
Commonwealth Land - [51321]	WA	In buffer area only
Commonwealth Land - [51196]	WA	In buffer area only
Commonwealth Land - [51327]	WA	In buffer area only
Commonwealth Land - [51320]	WA	In buffer area only
Commonwealth Land - [51325]	WA	In buffer area only
Commonwealth Land - [51326]	WA	In buffer area only
Commonwealth Land - [51329]	WA	In buffer area only
Commonwealth Land - [51306]	WA	In buffer area only
Commonwealth Land - [50845]	WA	In buffer area only
Commonwealth Land - [50842]	WA	In buffer area only
Commonwealth Land - [51923]	WA	In feature area
Commonwealth Land - [51379]	WA	In buffer area only
Commonwealth Land - [51921]	WA	In buffer area only
Commonwealth Land - [51920]	WA	In buffer area only
Commonwealth Land - [51370]	WA	In feature area
Commonwealth Land - [50862]	WA	In buffer area only
Commonwealth Land - [51319]	WA	In buffer area only
Commonwealth Land - [51318]	WA	In buffer area only
Commonwealth Land - [51924]	WA	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51237]	WA	In buffer area only
Commonwealth Land - [51236]	WA	In buffer area only
Commonwealth Land - [51316]	WA	In buffer area only
Commonwealth Land - [51310]	WA	In buffer area only
Commonwealth Land - [51313]	WA	In buffer area only
Commonwealth Land - [51311]	WA	In buffer area only
Commonwealth Land - [51314]	WA	In buffer area only
Commonwealth Land - [51317]	WA	In buffer area only
Commonwealth Land - [51312]	WA	In buffer area only
Commonwealth Land - [51315]	WA	In buffer area only

Listed Marine Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area overfly marine area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In feature area
Phaethon rubricauda Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In buffer area only
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thinornis cucullatus as Thinornis rubricollis Hooded Plover, Hooded Dotterel [87735]		Species or species habitat likely to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Beelu	National Park	WA	In buffer area only
Dundas Road	Nature Reserve	WA	In buffer area only
Gooseberry Hill	National Park	WA	In buffer area only
Greenmount	National Park	WA	In buffer area only
Helena River	Management Area	WA	In buffer area only
Kalamunda	National Park	WA	In buffer area only
NTWA Bushland covenant (0074)	Conservation Covenant	WA	In buffer area only
Swan River	Management Area	WA	In buffer area only
Unnamed WA1919/893	Management Area	WA	In buffer area only
Unnamed WA23076	Nature Reserve	WA	In buffer area only
Unnamed WA29815	5(1)(h) Reserve	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA33618	Management Area	WA	In buffer area only
Unnamed WA36440	Management Area	WA	In buffer area only
Unnamed WA37997	Nature Reserve	WA	In buffer area only
Unnamed WA45106	5(1)(g) Reserve	WA	In buffer area only
Unnamed WA49079	Nature Reserve	WA	In buffer area only

Regional Forest Agreements [Resource Information]

Note that all areas with completed RFAs have been included. Please see the associated resource information for specific caveats and use limitations associated with RFA boundary information.

RFA Name	State	Buffer Status
South West WA RFA	Western Australia	In buffer area only

Nationally Important Wetlands [Resource Information]

Wetland Name	State	Buffer Status
Perth Airport Woodland Swamps	WA	In feature area
Swan-Canning Estuary	WA	In buffer area only

EPBC Act Referrals [Resource Information]

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Eradication of the European House Borer, Perth metropolitan area, WA	2009/5027		Completed	In buffer area only
Land Clearing for Light Industrial Development	2022/09419		Completed	In buffer area only
Roe Highway and Great Eastern Highway Bypass Grade Separation Interchange, Hazelmere WA	2020/8784		Post-Approval	In buffer area only
Talbot Road Asbestos Water Supply Pipe Decommissioning Project	2023/09661		Completed	In buffer area only
Controlled action				
Airport & Freight Access Gateway	2010/5384	Controlled Action	Post-Approval	In buffer area only
Bushmead Residential Development, Hazelmere, WA	2015/7414	Controlled Action	Post-Approval	In buffer area only
National Lifestyle Village, Lot 97 Adelaide Street	2009/5141	Controlled Action	Post-Approval	In buffer area only
Native vegetation clearing of Lot 21 Webster Road for Industrial	2011/6186	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Development				
Natural Gas Pipeline Expansion	2006/2813	Controlled Action	Post-Approval	In feature area
Nava-1 Cable System	2001/510	Controlled Action	Completed	In feature area
Roe Highway and Kalamunda Road Interchange upgrade, WA	2018/8316	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Berkshire Road and Roe Highway Interchange, Forrestfield, East Perth, WA	2014/7243	Not Controlled Action	Completed	In buffer area only
Forrestfield Airport Link, WA	2015/7399	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Pipeline Extension, Hazelmere and Helena Valley, WA	2018/8239	Not Controlled Action	Completed	In buffer area only
Residential development of Lots 302, 308, 320 and part of Lot 9502, Hawtin Rd, Forrestfield, WA	2016/7770	Not Controlled Action	Completed	In buffer area only
Ridge Hill Road intersection modification and offsite water main installation, Gooseberry Hill, WA	2020/8842	Not Controlled Action	Completed	In buffer area only
Roe Highway Noise Wall, High Wycombe, WA	2014/7149	Not Controlled Action	Completed	In buffer area only
Tonkin Highway Upgrade, Guildford Road to Great Eastern Highway, WA	2019/8545	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Commercial Estate and Aeronautical Infrastructure Development, Precincts 2A & 2B	2006/3021	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
South West Metropolitan Railway Project	2003/1175	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

-Office of Environment and Heritage, New South Wales
-Department of Environment and Primary Industries, Victoria
-Department of Primary Industries, Parks, Water and Environment, Tasmania
-Department of Environment, Water and Natural Resources, South Australia
-Department of Land and Resource Management, Northern Territory
-Department of Environmental and Heritage Protection, Queensland
-Department of Parks and Wildlife, Western Australia
-Environment and Planning Directorate, ACT
-Birdlife Australia
-Australian Bird and Bat Banding Scheme
-Australian National Wildlife Collection
-Natural history museums of Australia
-Museum Victoria
-Australian Museum
-South Australian Museum
-Queensland Museum
-Online Zoological Collections of Australian Museums
-Queensland Herbarium
-National Herbarium of NSW
-Royal Botanic Gardens and National Herbarium of Victoria
-Tasmanian Herbarium
-State Herbarium of South Australia
-Northern Territory Herbarium
-Western Australian Herbarium
-Australian National Herbarium, Canberra
-University of New England
-Ocean Biogeographic Information System
-Australian Government, Department of Defence
Forestry Corporation, NSW
-Geoscience Australia
-CSIRO
-Australian Tropical Herbarium, Cairns
-eBird Australia
-Australian Government – Australian Antarctic Data Centre
-Museum and Art Gallery of the Northern Territory
-Australian Government National Environmental Science Program
-Australian Institute of Marine Science
-Reef Life Survey Australia
-American Museum of Natural History
-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
-Tasmanian Museum and Art Gallery, Hobart, Tasmania
-Other groups and individuals

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Please feel free to provide feedback via the Contact us page.

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APPENDIX 6

DBCA TEC and PEC Database Search

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
2503	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
2502	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
500	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
5178	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115002	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
105161	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
105156	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
105157	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
4895	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
4893	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
4897	SCP3a	Corymbia calophylla ΓÇö Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115162	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115145	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115161	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115151	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114996	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114987	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114986	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115008	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115007	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114985	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
117	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115005	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115003	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114992	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
118	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
114989	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114988	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
32	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115004	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115000	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122097	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114991	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114990	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115006	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2501	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
114999	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114998	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114997	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115565	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115450	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114994	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115564	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
33	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115449	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
745	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115535	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115534	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
744	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
716	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115413	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115412	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115411	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115410	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115219	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115409	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115001	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
723	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115538	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
7	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127452	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115442	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115417	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127602	SCP3b	Corymbia calophylla ΓÇö Eucalyptus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (floristic community type 3b as originally described in Gibson et al. 1994)	BCA Endangered		No
115453	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
722	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115451	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115443	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
717	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
5315	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115583	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115567	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
503	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115415	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115414	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115446	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115444	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115445	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115306	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115307	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
502	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115562	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115452	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
718	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115454	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115571	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115556	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115570	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115558	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115557	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115554	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115566	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115576	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125058	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
125057	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115574	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115297	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125055	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115599	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115290	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115291	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115455	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
115573	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122455	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115572	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115456	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115580	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115579	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115423	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125047	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
125054	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115568	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125053	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115422	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125052	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115424	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115581	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115312	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115569	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115582	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125051	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
125056	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
121965	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115421	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115314	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121966	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115313	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122453	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122454	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115578	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125048	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127470	SCP3b	Corymbia calophylla ΓÇö Eucalyptus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (floristic community type 3b as originally described in Gibson et al. 1994)	BCA Endangered		No
115536	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125050	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115300	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127133	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127137	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127136	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127135	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127134	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115537	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115310	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115603	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
105696	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115596	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115303	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127132	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127131	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
122434	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
122148	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122147	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2498	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
115426	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115425	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122456	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
124929	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115600	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115418	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115416	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115447	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115604	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115304	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115605	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122173	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122427	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115298	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115584	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127594	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127595	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120927	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5616	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
110888	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5614	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
108844	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108693	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120702	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120961	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120960	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108740	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108739	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108742	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108738	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108813	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108741	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108694	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5615	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
17685	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120934	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120935	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120854	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108860	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120942	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120916	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120911	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120721	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120841	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17168	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
17169	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
120704	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120893	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120959	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120856	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120850	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108852	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110873	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111191	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120742	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120739	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120740	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120741	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120607	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110887	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120743	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127499	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
108814	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108796	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108800	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112592	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112833	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110874	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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5617	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
5613	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
5612	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
126900	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127498	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120822	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120858	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121137	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120917	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120812	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120833	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120515	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108868	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108861	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120716	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120938	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120703	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120857	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120915	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120922	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120625	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120624	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120507	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120506	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120675	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120513	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120601	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120512	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120654	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
126902	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
126901	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120768	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120767	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
863	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
120603	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120519	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121138	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121136	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114993	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115221	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115220	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120604	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120605	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120606	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114995	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120514	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120811	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120509	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120810	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
737	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115226	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120676	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115223	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115311	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115563	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127453	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
715	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115222	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115225	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120763	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120678	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120658	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115227	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
739	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No

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747	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120677	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
862	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
1916	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120791	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120602	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120790	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120788	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120789	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120761	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120787	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120765	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120770	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120764	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120516	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120766	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120805	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120774	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120773	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120772	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120771	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120674	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120673	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120758	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120799	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120762	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120755	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120760	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120786	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120769	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120754	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120753	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120756	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120759	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120757	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120517	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120798	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112741	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112793	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120620	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112740	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120940	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120939	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120909	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111290	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113148	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110880	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111192	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112925	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112926	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112924	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112795	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110886	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113074	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113073	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112803	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112802	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113071	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112591	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113089	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113072	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113056	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112801	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112800	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112799	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113102	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113114	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113115	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111428	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113101	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112743	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112742	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120621	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120780	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120623	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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120681	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120633	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120680	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120622	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111227	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113076	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113078	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113075	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112632	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113103	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113113	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120749	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120636	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120750	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120797	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120751	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120752	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120642	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120616	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120735	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120651	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120748	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120746	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120804	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120747	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17693	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120785	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120504	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17684	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120499	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120800	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115224	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120737	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120635	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120650	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120738	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120634	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
1930	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
847	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
120679	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120778	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120779	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120744	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120745	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120617	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120498	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115308	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5175	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115215	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120666	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120505	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
124920	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
124920	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115214	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120493	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115555	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120511	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
1831	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115317	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115216	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120611	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120803	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120802	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120801	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120806	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120736	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120626	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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121751	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115577	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115218	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120613	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120614	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115217	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115296	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120629	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121969	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
8	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120685	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115457	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115575	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120615	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120776	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120796	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120631	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120777	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120775	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120632	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120684	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120808	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120807	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120809	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120781	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120630	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120492	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120612	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120688	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120628	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120609	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120782	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120783	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120784	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120610	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120668	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2552	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120686	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
533	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
121745	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120491	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120672	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120670	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120508	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
689	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
455	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
3	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
1	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
121964	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120669	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
454	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
936	SCP02	Southern wet shrublands, Swan Coastal Plain (floristic community type 2 as originally described in Gibson et al. 1994)	BCA Critically Endangered		No
934	SCP02	Southern wet shrublands, Swan Coastal Plain (floristic community type 2 as originally described in Gibson et al. 1994)	BCA Critically Endangered		No
120659	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120627	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121746	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121744	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120661	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120660	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120641	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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120682	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120665	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120690	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120497	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120656	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120496	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120652	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120683	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120671	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127575	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120662	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127577	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120495	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127576	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120494	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127574	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
449	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
122168	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115305	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121963	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122150	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115601	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122166	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120663	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127588	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120664	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127579	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127573	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127578	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120655	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120644	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
667	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
668	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120510	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120657	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120503	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120643	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120727	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127582	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120728	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127590	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
127589	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120618	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127571	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
120530	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120532	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120646	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120724	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120723	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120726	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120725	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120619	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120730	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120692	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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127591	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120691	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121752	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127592	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120521	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120522	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
661	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120733	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120645	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120732	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
126917	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
120523	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120689	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120526	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120649	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120527	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120529	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120531	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
4079	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
3889	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
120731	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120518	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120734	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120693	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120729	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
4068	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
4067	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
120648	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120525	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120524	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120647	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120528	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
4077	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
4075	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
4070	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
4071	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
4073	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
127164	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
4074	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
213	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
242	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
3170	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
5075	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
5669	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
120638	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120639	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120640	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120637	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120793	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120794	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120792	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120502	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112927	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112634	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112633	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111226	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120795	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113077	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120520	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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120653	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115586	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115597	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122170	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115602	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122171	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122169	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122167	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115587	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115585	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115598	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122429	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121753	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122428	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122172	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115607	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115606	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115588	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
456	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127187	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
122151	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115315	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115402	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122175	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115608	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
126908	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115427	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122174	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122153	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121968	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121962	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121967	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115403	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121754	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122177	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122176	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122436	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115550	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115309	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115299	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2497	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
122435	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17222	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No

APPENDIX 7

Conservation Codes

Conservation Codes for Western Australian Flora and Fauna

Threatened, Extinct and Specially Protected fauna or flora are species which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

The lists of Threatened, Extinct and Specially Protected species are listed under Part 2 of the Biodiversity Conservation Act 2016.

Categories of Threatened, Extinct and Specially Protected fauna and flora are:

T Threatened species

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

> ***Threatened fauna*** is the species of fauna that are listed as critically endangered, endangered or vulnerable threatened species.
>
> ***Threatened flora*** is the species of flora that are listed as critically endangered, endangered or vulnerable threatened species.

The assessment of the conservation status of threatened species is in accordance with the BC Act listing criteria and the requirements of Ministerial Guideline (Number 1) and Ministerial Guideline (Number 2) that adopts the use of the International Union for Conservation of Nature (IUCN) Red List of Threatened Species Categories and Criteria 4, and is based on the national distribution of the species.

CR Critically endangered species

> Threatened species considered to be "*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*".
>
> Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines.

EN Endangered species

> Threatened species considered to be "*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*".
>
> Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines.

VU Vulnerable species

> Threatened species considered to be "*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.

Extinct Species

EX Presumed extinct species

Species where "*there is no reasonable doubt that the last member of the species has died*", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

EW Extinct in the wild species

Species that "*is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no threatened fauna or threatened flora species listed as extinct in the wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.

Specially protected species

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

CD Species of special conservation interest (conservation dependent fauna)

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Currently only fauna are listed as species of special conservation interest.

OS Other specially protected species

Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Currently only fauna are listed as species otherwise in need of special protection.

P Priority species

Priority is not a listing category under the BC Act.

All fauna and flora are protected in WA following the provisions in Part 10 of the BC Act. The protection applies even when a species is not listed as threatened or specially protected, and regardless of land tenure (State managed land (Crown land), private land, or Commonwealth land).

Species that may possibly be threatened species that do not meet the criteria for listing under the BC Act because of insufficient survey or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of prioritisation for survey and evaluation of conservation status so that consideration can be given to potential listing as threatened.

Species that are adequately known, meet criteria for near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of priority status is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, for example, agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under immediate threat from known threatening processes. These species are in urgent need of further survey.

Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, for example, national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under threat from known threatening processes. These species are in urgent need of further survey.

Priority 3: Poorly-known species

Species that are known from several locations and the species does not appear to be under imminent threat or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat.

Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. These species need further survey.

Priority 4: Rare, Near Threatened and other species in need of monitoring

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as a conservation dependent specially protected species.

(c) Species that have been removed from the list of threatened species or lists of conservation dependent or other specially protected species, during the past five years for reasons other than taxonomy.

(d) Other species in need of monitoring.

Western Australian Ecological Communities

<u>Threatened Ecological Communities</u>

The BC Act provides for the statutory listing of threatened ecological communities (TECs) by the Minister.

Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally

destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

Endangered (EN)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

Vulnerable (VU)

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

Priority Ecological Communities

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community List under priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community. Ecological communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

Priority One: Poorly-known ecological communities

Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤ 100ha).

Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

Priority Two: Poorly-known ecological communities

Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

Priority Three: Poorly known ecological communities

(i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:

(ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or;

(iii) munities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

Priority Four: Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.

(i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.

(ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for a higher threat category.

(iii) Ecological communities that have been removed from the list of threatened communities during the past five years.

Priority Five: Conservation Dependent ecological communities

Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

Commonwealth of Australia Conservation Codes

Threatened Flora and Fauna

Threatened fauna and flora may be listed under Section 178 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in any one of the following six categories:

Extinct

A native species is eligible to be included in the extinct category at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.

Extinct in the wild

A native species is eligible to be included in the extinct in the wild category at a particular time if, at that time:

a) it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
b) it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.

Critically endangered

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

Endangered

A taxon is Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a very high risk of extinction in the wild.

Vulnerable

A taxon is Vulnerable when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a high risk of extinction in the wild.

Conservation dependent

A native species is eligible to be included in the conservation dependent category at a particular time if, at that time:

a) the species is the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or
b) the following subparagraphs are satisfied:
    i. the species is a species of fish;

ii. the species is the focus of a plan of management that provides for management actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;
iii. the plan of management is in force under a law of the Commonwealth or of a State or Territory;
iv. cessation of the plan of management would adversely affect the conservation status of the species.

The EPBC Act does not provide for listing in a data deficient category. Where sufficient data (evidence) is unavailable to allow assessment by the Threatened Species Scientific Committee against the criteria for listing, the species are found to be ineligible. A recommendation is made to the Minister to not include the species in any category under the EPBC Act. For reasons of transparency and to inform future research, the Threatened Species Scientific Committee publishes the names of those species found to be data deficient. As data deficient is not a listing category under the EPBC Act, this has no statutory implications and the species is not considered to be listed under the EPBC Act.

Threatened Ecological Communities

Threatened Ecological communities under the EPBC Act are listed in three categories.

Critically endangered

If, at that time, an ecological community is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years).

Endangered

If, at that time, an ecological community is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).

Vulnerable

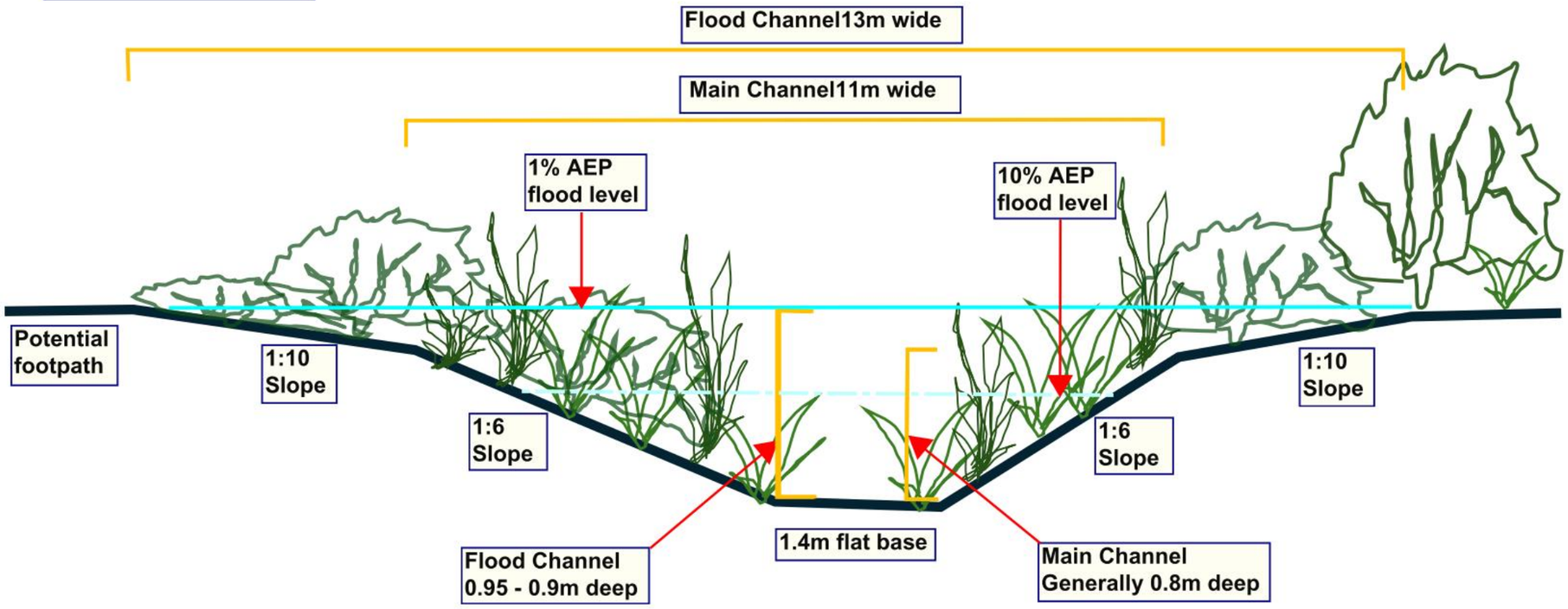
If, at that time, an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium–term future (indicative timeframe being the next 50 years).

APPENDIX 8

Creekline Cross-section

Indicative Living Stream Cross Section

Note: drawing not to scale



Appendix G LWMS CHECKLIST

Appendix 2 Local water management strategy checklist

Local water management strategy item	Comment/Location	Achieved
Executive summary		
Summary of the development design strategy, outlining how the design objectives are proposed to be met	Executive Summary - Pg1 and Section 2 Key Elements Pg 3,4	
Introduction		
Total water-cycle management – principles and objectives Planning background Previous studies	Section 2 Key Elements Pg 3,4 Executive Summary – 1.1 Planning Summary & Referencing Document listed in each section plus Section 14 Reference summary Pg 39	
Proposed development		
Structure plan, zoning and land use Key landscape features Previous land use	Executive Summary – Site Summary & Planning Summary Pg2	
Landscape – proposed public open space areas, public open space credits, water source, bore(s), lake details, irrigation areas (if applicable)	Executive Summary – Site Summary & Planning Summary Pg2 plus Section 2 Fig 3 Pg 4. Section 10 Water Dependent Ecosystems Management Strategy, Section11 for irrigation options	
Design criteria		
Agreed design objectives and source of objectives	Section 2 Key Elements Pg 3,4 Plus Sections 8-11for more detail	
Existing information and more detailed assessments (monitoring). How do the site characteristics affect the design?	Existing Information Sections 3-7 for current conditions. Sections 8-11 for how these characteristics and managed.	
Site conditions – existing topography/contours, aerial photo underlay, major physical features	Section 3	
Geotechnical – topography, soils including acid sulfate soils and infiltration capacity, test pit locations	Section 5	
Environmental – areas of significant flora and fauna, wetlands and buffers, waterways and buffers, contaminated sites	Section 4	
Surface water – topography, 100- year floodways and flood fringe areas, water quality of flows entering and leaving (if applicable)	Section 7	
Groundwater – topography, pre- development groundwater levels and water quality, test bore locations	Section 6	
Water sustainability initiatives		
Water efficiency measures – private and public open spaces including method of enforcement	Section 11	
Water supply (fit-for-purpose) strategy, agreed actions and implementation	Section 11	
Wastewater management	Section 11	

Stormwater management strategy		
Flood protection – peak flow rates, volumes and top water levels at control points, 100-year flowpaths and100-year detention storage areas	Section 8, especially sub Section 8.3, 8.7 and 8.8	
Manage serviceability – storage and retention required for the critical 5- year ARI storm events Minor roads should be passable in the 5-year ARI event	Section 8 especially sub Section 8.5, 8.6	
Protect ecology – detention areas for the 1-year 1-hour ARI event, areas for water quality treatment and types of agreed structural and non-structural best management practices and treatment trains (including indicative locations). Protection of waterways, wetlands (and their buffers), remnant vegetation and ecological linkages	Section 8 especially sub Section 8.4 Section10	
Groundwater management strategy		
Post-development groundwater levels, existing and likely final surface levels, outlet controls, and subsoil drain areas/exclusion zones	Section 9.1	
Actions to address acid sulfate soils or contamination	Section 9.2	
The next stage – subdivision and urban water management plans		
Content and coverage of future urban water management plans to be completed at subdivision. Include areas where further investigations are required before detailed design.	Section 13	
Monitoring		
Recommended future monitoring plan including timing, frequency, locations and parameters, together with arrangements for ongoing actions	Section 12	
Implementation		
Developer commitments	Section 13	
Roles, responsibilities, funding for implementation	Section 13	
Review	Section 13	

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APPENDIX 4

Site and Soil Evaluation

Galt GEOTECHNICS

Report on:

GENERAL SITE AND SOIL EVALUATION HATCH COURT LIGHT INDUSTRIAL AREA AND STIRLING CRESCENT PRECINCT HATCH COURT AND STIRLING CRESCENT, HIGH WYCOMBE, WA

WAG250138-01 001 R Rev1

Submitted to:

Dynamic Planning Developments
PO Box 688
INGLEWOOD WA 6932

20 February 2026

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Appendix E: Water Balance
Appendix F: Laboratory Test Results

Understanding your Report

1. INTRODUCTION

This revised report presents the outcomes of Galt Geotechnics' (Galt's) general site and soil evaluation (SSE) for the proposed Hatch Court Light Industrial Area (HCLIA) and Stirling Crescent Precinct (SCP), at Hatch Court and Stirling Crescent, High Wycombe ("the site"). This revision addresses client queries.

This report is to be read in conjunction with the appended "Requirements and Limitations" found at the back of this report.

2. DEFINITIONS

Site and Soil Evaluation (SSE): an assessment of all relevant constraints and the risks to public health and the environment in accordance with AS1547-2012 "On-site domestic wastewater management". This SSE is a general assessment SSE, with the purpose being to undertake a site suitability assessment for onsite wastewater management and to recommend the type of onsite wastewater system for the proposed development.

A specific assessment is required to support an "application to install" an onsite wastewater system. This is for when a particular type of system/model is proposed, and a detailed design, including management recommendations and operation requirements. This document is not a specific assessment.

Land Application Area (LAA): The unencumbered plan area to which treated sewage from an on-site sewage system is distributed for further in-soil treatment and absorption or evaporation. This area is restricted to the distribution of treated sewage and may not be developed for other purposes.

Land Application System (LAS): The system used to apply effluent from a wastewater treatment unit into or onto the soil for further in-soil treatment and absorption or evaporation.

Effluent: The liquid discharged from a wastewater treatment unit.

Primary Treatment: The separation of suspended material from sewage in septic tanks, primary settling chambers or other structures before discharge to either a LAS or secondary treatment process.

Secondary Treatment: Microbiological digestions and physical settling and filtering processes and decomposition of sewage constituents following primary treatment.

Sewage: Any kind of sewage, faecal matter or urine, and any waste composed wholly or in part of liquid.

Infiltrative Area: Is the area within an LAA that has treated effluent directly discharged onto, and does not include setback areas. I.e., the base of leach drains, evapotranspiration beds etc.

3. GOVERNING STANDARDS, REGULATIONS AND POLICIES

SSEs are governed by various National and State Standards, Regulations and Policies, including:

- AS/NZS 1547:2012, On-site domestic wastewater management.
- Western Australia Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations (1974)
- Western Australia State Planning Policy 2.9, Water Resources (2025)
- Western Australia Environmental Protection Act 1986 Part V (prescribed premises)
- Western Australia Contaminated Sites Act (2003)
- Department of Water and Environmental Regulation (DWER) acid sulfate soils guidance and risk mapping
- City of Kalamunda Design Guidelines for sewage only on site systems and water sensitive urban design

Other regulatory requirements may become relevant depending on the outcomes of any SSE.

SSEs can be rejected on the basis of not meeting the regulatory requirements of the above. This report is intended to address all these various requirements.

4. SITE DESCRIPTION

Table 1: Summary of Site

Item	Comment
Site Extent	Refer to In-line Image 1.
Site Area	Hatch Court Light Industrial Area (HCLIA): ~30 ha (16 lots). Stirling Crescent Precinct (SCP): ~6 ha (11 lots).
Current Site Surface Elevation[1]	Around RL 20 m AHD at the north to RL 24 m AHD at the south.
Vegetation	Vegetation present in landscaped areas surrounding houses and associated infrastructure. Vegetation includes grassed areas, some mature trees and some bushes (refer Figure 1). Dense vegetation along drainage line in northern part of site.
DBCA Wetlands	AS shown on In-Line Image 2, indicating that most of the site is a sewage sensitive area.
PDWSA's	None
Current Land Use	Mostly Residential developments and associated infrastructure. South west part of site (Lots 614 and 584) is a hardstand area (refer Figure 1). Some lots have been developed for light industrial use.
Site drainage	Drainage line traverses from west to east in northern part of site. Wetland area present in western corner of site near Lewis Road. Several damp lands are apparent from historical aerial photos (refer In-line Image 2 and 3) which could possibly have been filled. Localised lakes are present in southern part of site, which are judged to be expressions of groundwater. The above features are indicated on Inline Image 1.
Site History[2]	**Prior to 1979**: Site mostly pastoral / agricultural land. Three residences developed on site. **1979 to 1983**: Development of residential buildings in SCP. **1983 to 1995**: Development of Hatch Court. And associated residential lots / developments. **1995 to 2018**: Site relatively unchanged. Some additional residential and light industrial buildings and associated infrastructure constructed progressively during this time. **2018**: to Construction of hardstand in western corner of site. **2018 to 2024**: progressive construction of hardstand in western part of site (Lots 614 and 584).

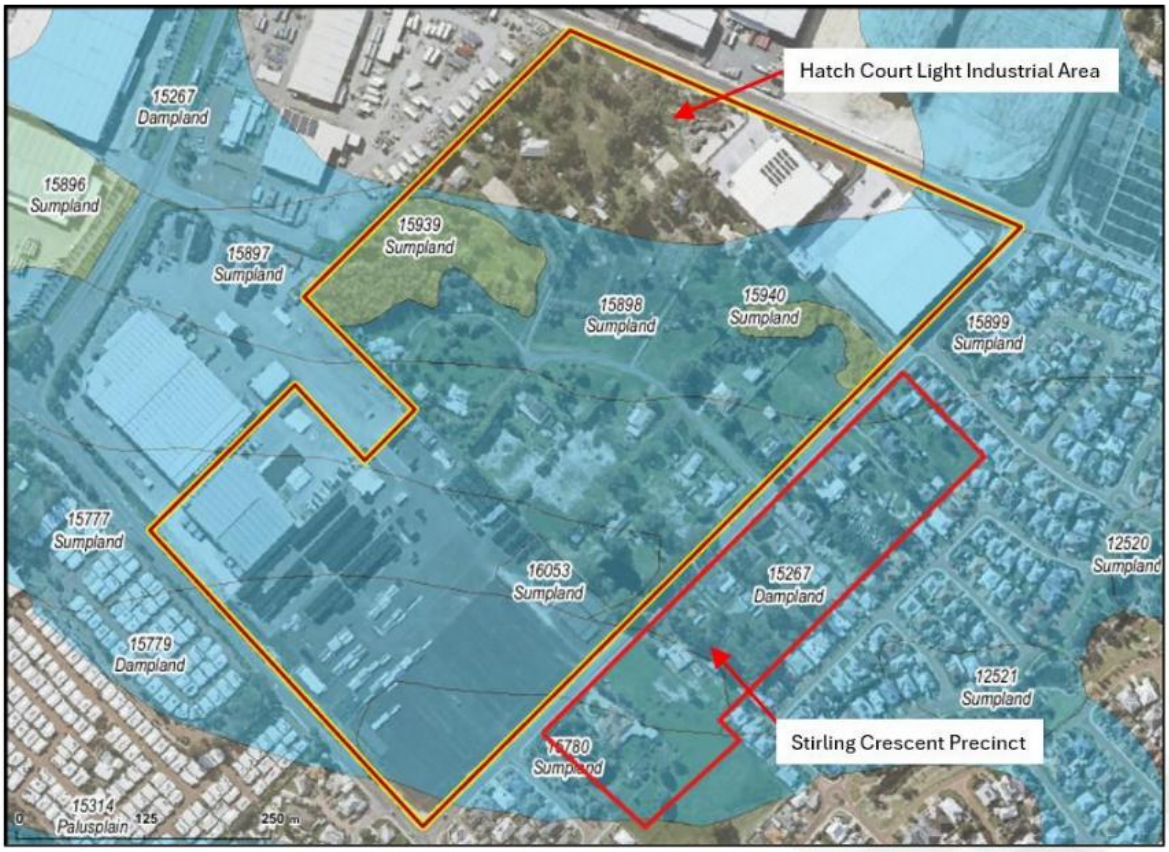
NOTES:

1. *Site levels based on survey information provided.*

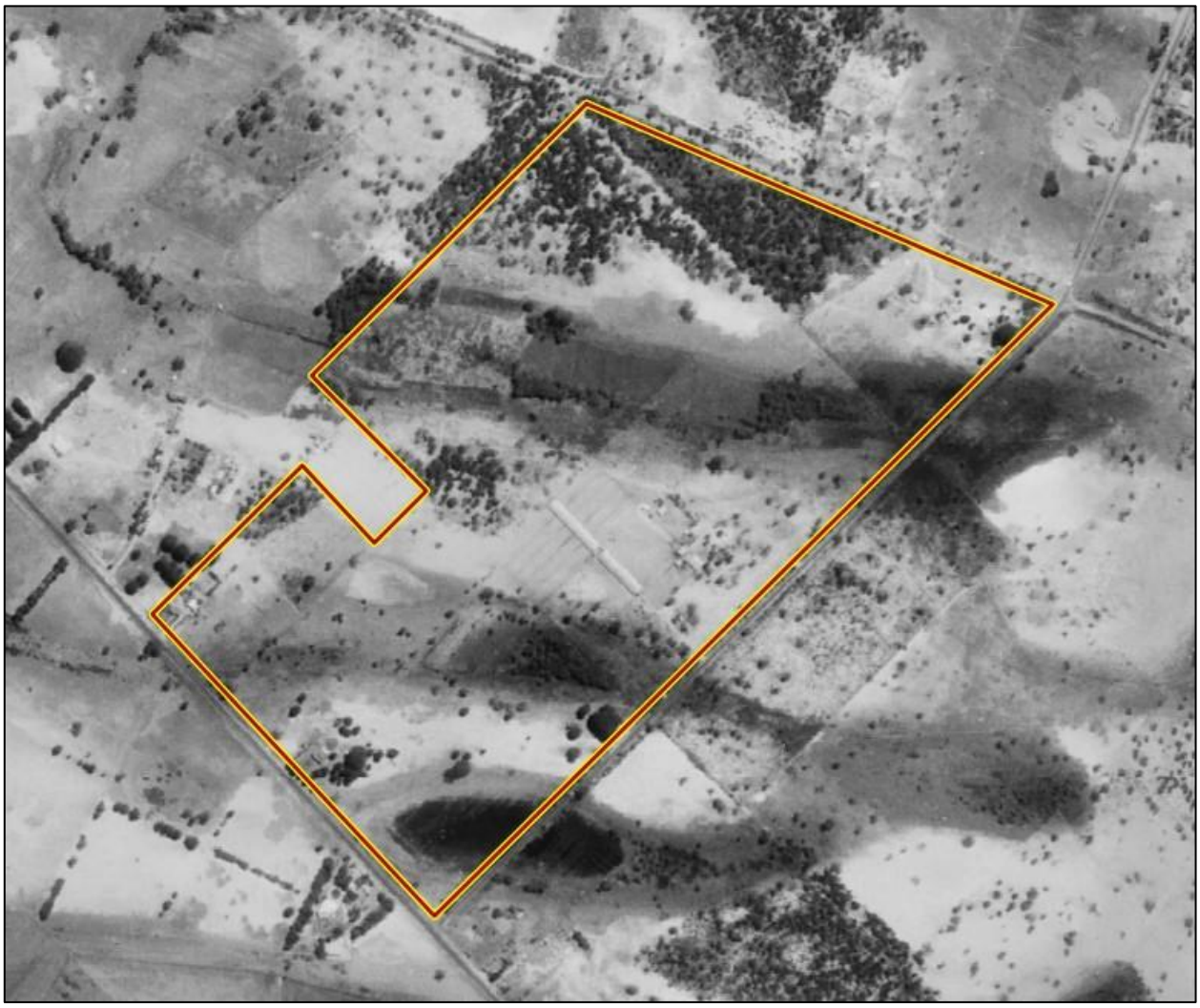
2. *Site history based on aerial imagery (Landgate).*



In-line Image 1: Approximate extent of subject area



In-line Image 2: Approximate extent of subject area and geomorphic wetlands mapped by DBCA (green and blue)



In-line Image 3: Aerial photo of site in 1961. HCLA marked in red/yellow.

5. PROPOSED DEVELOPMENT

Table 2: Summary of Proposed Development

Item	Comment
Proposed Development	Subdivision of industrial lots with associated infrastructure / development.
Cut/Fill	Assumed typically up to about ± 1 m. Fill is generally anticipated to be required in low lying areas to achieve adequate clearance to groundwater.
Assumed Retaining Walls	Gravity walls up to about 2 m high
Assumed Stormwater Disposal	Possibly On site via soakwells.
Assumed Sewage Disposal[1]	On site via leach drains within individual lots of proposed subdivision.[1]

NOTE: ***1.*** *Any onsite systems (if used) serve staff amenities sewage only. Trade/process liquids and wash down water must not infiltrate to ground or enter onsite systems (Refer Section 8.7.13 of SPP-2025).*

6. PRELIMINARY HYDRAULIC LOADING

No preliminary hydraulic loading is available at this stage. We have assumed a preliminary hydraulic loading of about 5,000 L/day per lot, but could possibly range from about 2,500 L/day to 7,500 L/day based on individual lot development requirements. The LAA within each lot will need to be resized based on the actual hydraulic loading.

Hydraulic loading must be calculated in accordance with "Supplement to Regulation 29 – Wastewater system loading rates". The proposed LAA must also be adequately sized to meet the zero effluent storage and Government Sewerage Policy (2019) design requirements. We have assumed that any industrial liquid waste or washdown water is to be disposed off site (and not into the LAA).

The governing LAA area is the larger of SPP conversion factor or the water balance (Refer Section 12.3). Lot sizing will be revisited at DA/application stage prior to installation.

7. PREVIOUS STUDIES

Galt has previously undertaken a number of geotechnical studies for individual lots within and adjacent the sites as summarised below:

- **Located within site:**
  - 27 Hatch Court in May 2025 (report reference: WAG250256-01 001 R Rev1);
  - Lots 8 and 16 Stirling Crescent in November 2024 (report reference: WAG240438-01 001 R Rev2);
- ***located north of site / not within site:***
  - 71 Stirling Crescent in March 2023 (report reference: WAG230133-01 001 R Rev1); and
  - Part of Lot 1499 Stirling Crescent in September 2023 (report reference: WAG230463-01 002 R Rev1).

Test locations from the above reports are shown on Figure 1 and summarised in Attached Tables 9 and 10. Relevant information from the above studies are incorporated into this report.

8. FIELDWORK

8.1. Summary

Fieldwork was carried out in the presence of a representative from Galt on 25 August and 5 September 2025 as summarised below.

Table 3: Summary of Field Data

Type	Results Appendix	Summary	Equipment Used	No. Tests	Depth Range (m)
Site Plan	Figure 1	-	Hand held GPS[1]	-	-
Photographs	A	-	-	-	-
Cone Penetration Tests (CPTs)	B	Section 11	Pagani TG 73-200	16	2.34 to 5.20
Boreholes (BH)	C	Section 11	EVH Scout on utility / 7822DT / Hand Auger	14	1.30 to 3.00
Monitoring Wells (MW)	C	Section 8.3	7822DT	3[2]	3.00
Constant Head Permeameter Tests (G)	D	Section 8.2	Guelph Permeameter	7	0.38 to 0.57

NOTES:

1. *Hand held GPS is accurate to ±5 m. Test location coordinates and inferred elevations from a provided feature survey are presented as Attached Table 8.*
2. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS 1547 (2012) "On-site domestic wastewater management".*
3. *One groundwater monitoring well location was unavailable for sampling after installation.*

8.2. Permeability Test Results

Table 4: Guelph Permeameter Test Results

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
G01/BH01	SAND (SP)	0.38	25.01	1
G02/BH02	SAND (SP-SM)	0.42	*0.94*[3]	*3*[3]
G03/BH03	SAND (SP)	0.57	9.05	1
G05/BH05	SAND (SP)	0.44	*0.44*[3]	*4*[3]
G07/BH15	SAND (SP)	0.53	9.82	1
G09/BH09	SAND (SP)	0.52	3.94	1
G10/BH10	SAND (SP)	0.47	3.53	1
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
G01	SAND (SP)	0.33	3.56	1
G02	SAND (SP)	0.41	2.82	2
G03	SAND (SP)	0.40	3.31	1
71 Stirling Crescent in March 2023 (WAG230133-01 001 R Rev1, l*ocated north of site / not within site)*				
IT01	*SAND (SP)*	*0.50*	*1.6*	*2*
IT02	*SAND (SP)*	*0.50*	*2.1*	*2*
IT03	*SAND (SP)*	*0.55*	*3.3*	*1*
IT04	*SAND (SP)*	*0.60*	*2.8*	*2*
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
G01	SAND (SP)	0.44	5.11	1
G02	SAND (SP)	0.50	3.17	1
G03	SAND (SP)	0.39	3.26	1
G04	SAND (SP)	0.40	10.95	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, l*ocated north of site / not within site)*				
G01	*SAND (SP)*	*1.00*	*3.9*	*1*
G01A	*SAND (SP)*	*0.80*	*2.3*	*2*
G01B	*SAND (SP)*	*0.53*	*> 15*	*1*
G02	*SAND (SP-SM)*	*0.90*	*0.07*[4]	*-*[4]
G02A	*SAND (SP)*	*0.70*	*1.74*	*2*
G02B	*SAND (SP)*	*0.70*	*1.67*	*2*
G02C	*SAND (SP)*	*0.50*	*>15*	*1*

NOTES:

1. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS1547 (2012) "On-site domestic wastewater management".*
2. *Soil type is as per Table 5.2 of AS1547-2012.*
3. *Test results likely to have been influenced by shallow groundwater*
4. *Result considered spurious, and also not from within the site.*
5. *Results in red italics not from within the site and are for context only (not for design).*

Table 5: Permeability Test Results (Falling Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
BH02 / IT01	SAND (SP)	0.84	3.9	1
BH07 / IT02	SAND (SP)	0.90	3.8	1
BH08 / IT03	SAND (SP)	0.84	31.3	1
BH05 / IT04	SAND (SP)	0.84	4.7	1
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
BH07 / IT01	SAND (SP)	0.88	> 15	1
BH08 / IT02	SAND (SP)	0.86	6.3	1
BH10 / IT03	SAND (SP)	0.82	3.9	1
BH16 / IT04	SAND (SP)	0.77	7.1	1
BH06 / IT06	SAND (SP)	0.77	> 15	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, *located north of site / not within site*)				
IT01	*SAND (SP)*	*0.95*	*10.6*	*1*
IT02	*SAND (SP)*	*1.00*	*9.4*	*1*

NOTES: ***1.*** *Results in red italics not from within the site and are for context only (not for design).*

8.3. Groundwater Monitoring Wells

Groundwater monitoring wells were installed in boreholes drilled Geoprobe 6620 DT drill rig supplied and operated by Direct Push Probing.

Wells were constructed using 50 mm, class 18 flush-threaded PVC with a 2.5 m screened interval was installed at the base of each well and finished with approximate 0.6 to 0.7 m solid section extending to the surface. Refer to Appendix C for more information on construction details for each well.

A submersible pump was used to remove fine sediments and filter sand from the well. Groundwater levels were measured more than 7 days after installation and development to allow the water in the well to reach hydrostatic levels.

9. LABORATORY TESTING

Geotechnical and chemical laboratory testing of soil samples was undertaken by Western Geotechnical and Laboratory Services (WGLS) and Envirolab Services (WA) at their NATA accredited laboratories. Laboratory test results along with the test methods followed are presented in Appendix F and summarised in Attached Tables 1 and 2.

Chemical test results from previous studies are also included in Attached Table 2.

10. SITE CONDITIONS

10.1. Geology

Table 6: Summary of Geology Mapping

Map Sheet	Map Scale	Mapped Soils
Perth	1:50,000	Refer In-Line Image 3 for distribution of following units: - **Cps**: Peaty CLAY: "*dark grey and black with variable sand content of lacustrine origin [Swamp Deposits (Qhw)]*" - **S8**: Bassendean SAND: "*very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin*" - **S10**: "*Thin Bassendean Sand over Guildford formation*"

***NOTE**: Encountered subsurface profile discussed in Section 11.*



Inline Image 1: Excerpt from Perth 1:50,000 scale environmental geology map. HCLA marked in red/yellow

10.2. Groundwater and Surface Water

Table 7: Summary of Groundwater and Surface Water Levels

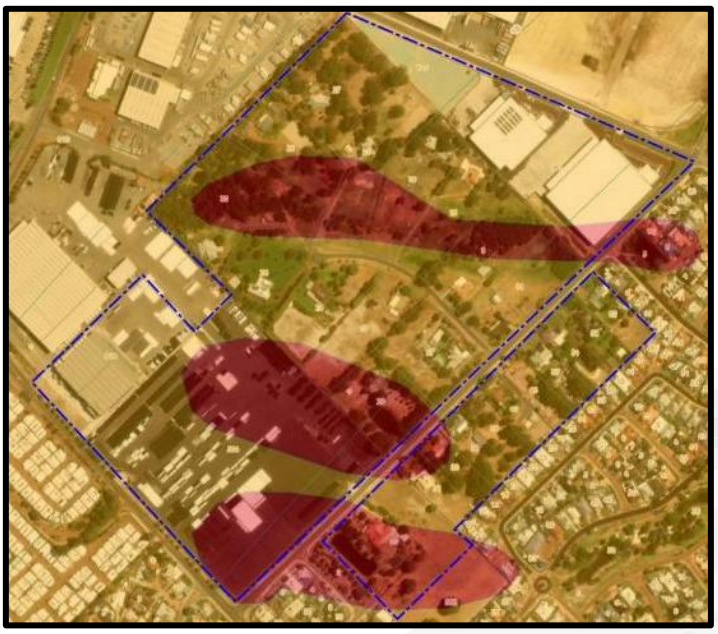
Item	Date	Depth Range (m)	Elevation Range (m AHD)	Comment
Perth Groundwater Atlas	2004	-	North: 13 South: 15	Inferred from levels measured in monitoring wells near the end of summer in 2004 only.
	2019		North west: 15.0 to 17.0 South east: 18.5 to 19.5	Inferred from maximum and minimum levels measured in monitoring wells in 2019 only.
DBCA Mapping	-	-	-	Most of the site are mapped as "Sumpland/Dampland", defined as a seasonally inundated/waterlogged area.
Site observations	Aug/Sept 2025	-	Surface to > 3 (Refer Attached Tables 3 to 7)	Groundwater also observed in lakes in southern part of site, and along drainage line in northern part of site. Groundwater could perch on underlying clay / clayey soils at the site.
Recommended Design	-	-	-	Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Filling of the site to gain separation to groundwater levels will be needed. Possibly, subsoil drains may be required.

NOTES: ***1.*** *Perth Groundwater Atlas observations based on monitoring wells which are not located at the site.*

2. *Elevation range for site observations is based on depth and site levels during fieldwork*

10.3. Acid Sulfate Soils

According to the DWER online ASS risk database, the proposed site is generally mapped as being within an area of 'moderate to low' ASS risk (highlighted in yellow in In-line Image 4 below) , with part of the site identified as having 'high to moderate' risk (highlighted in red in In-line Image 4 below) within the upper 3 m of the soil profile. High risk areas are judged to be associated with potential organic soils mapped in these areas (refer Section 10.1).



In-line Image 4: ASS Risk Mapping (DWER Database)

11. GROUND MODEL

The encountered subsurface conditions are summarised in Attached Tables 3 to 7, ad can be generalised as follows:

Most of Site (HCLIA and SCP):

- Surficial Topsoil / Hardstand / Sand Fill Layers; over
- **SAND (SP / SP-SM)**: fine to medium grained, sub angular to sub rounded, typically grey, typically trace fines, typically loose to depths of about 0.5 m to 2.5 m and then becomes typically medium dense, extending to depths of 2.0m to over 6.2 m; with
  - **Interbedded layers of cemented sand / 'Coffee Rock'**: encountered at some locations as cemented layer of sand typically with a higher fines content (i.e. Silty SAND in some zones) about 0.3 m to 1.0 m thick (where penetrated) and below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7 for locations encountered). Coffee rock inferred from CPT refusal at some locations. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. Layer underlain by sand; over
- **Guildford Formation interbedded CLAY / Clayey SAND / Sandy CLAY / SAND Layers (SP/SC/CL-CH)**: typically stiff to hard cohesive layers and medium dense sand layers, locations of encountered Guildford Formation summarised in Attached Tables 3 to 7.

HCLIA only: within / adjacent drainage line and wetland area[1]:

Variable organic soils were encountered as follows:

- **CPT01**: Possible inferred organic soil layer from 0.9 m to 1.2 m depth;
- **BH02**: Trace organics in Clayey SAND from 0.9 m to 2.0 m depth;
- **BH04**: Organic Clayey SAND from 0.7 m to 1.4 m depth
- **BH13/MW01**: PEAT from 0.0 m to 0.6 m depth, and then Organic SAND from 0.6 m to 1.4 m depth.

Notes:

- [1] Drainage line traverses from west to east in northern part of HCLIA site (refer Figure 1). Wetland area present in western corner of site near Lewis Road. Similar zones of organic soils could be present in lakes at the site (Refer Table 1).
- [2] An area of surficial uncontrolled fill about 1.1 m thick was encountered in the northern corner of the HCLIA site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1);

12. SITE ASSESSMENT

12.1. General

The results of our site assessment are presented in Attached Table 3.

12.2. Horizontal Setbacks

Table 8: Required Horizontal Setback Distances (AS1547)

Feature	Sub-Type	Horizontal Setback Distances (m)
Treatment tanks to buildings, property boundaries, driveways, paths and other tanks	-	1.2
Trenches, beds and soak wells to boundary, building, tanks and other land application systems	-	1.8
Trenches, beds and soak wells to trafficable areas	-	1.2
Any land application system to wells, streams, private bores or underground source of water intended for human consumption	-	30.0
Trenches, beds and soak wells to subsoil drains or open drainage channels	-	6.0
Spray irrigation	Boundaries, buildings, driveways etc.	1.8
	Subsoil and open drains	6.0
	Swimming pools	3.0
	Treatment tanks	1.2
Subsurface Drippers	Boundaries, buildings, driveways etc.	0.5
	Subsoil and open drains	3.0
	Swimming pools	2.0
	Garden bore	10.0
On-site waste system to water resources (river, stream etc.)	-	100.0

12.3. Land Application Areas

12.3.1. State Planning Policy (SPP, 2025)

The minimum LAA size in accordance with the SPP (2025) has been calculated and is shown below. The LAA may need to be resized if the hydraulic loading changes.

Table 9: SPP LAA Calculation

Soil Category (AS1547)	Conversion Factor (Table F.2 of SPP)	Hydraulic Loading (L/day, Section 6)	Minimum LAA (m^2)
1 to 2	0.2	5,000	1,000

12.3.2. Water Balance

Water balance calculations are presented in Appendix E.

As well as the SPP minimum, the LAA must have a minimum size to meet the water balance area requirements (in accordance with the WA Health Regulations Method), calculated as 108 m^2 per 5,000 L/day of hydraulic loading.

12.3.3. Summary

The SPP sizing will govern with a minimum 1,000 m^2 total LAA per 5,000 L/day of hydraulic loading. This may need to be resized based on the actual hydraulic loading within each proposed lot.

A detailed plan will be required with the application to install that shows that the required setbacks are met, in particular to the drainage line through the HCLIA (lot configuration will need to be done to allow LAAs to achieve the required setbacks). Provided lot configurations are suitable, there 100 m setback to drainage courses should be achievable.

13. SOIL ASSESSMENT

Details of our soil assessment are presented in Attached Table 4.

14. SITE SUITABILITY AND RECOMMENDATIONS

Based on our assessment, the site is suitable for disposal of wastewater. Wastewater must have secondary treatment (i.e., an ATU).

LAA Location and Setbacks

The exact location of the LAA has not been finalised, however, we judge that setback requirements can be met. A setback of 6 m is required from the open drainage channels, wetland areas, and lakes at the site (refer Table 8). A 100 m setback will be required from the creek line

Any proposed LAA will need to satisfy the setback requirements, including meeting the appropriate distances from site boundaries, buildings, trafficable areas and driveways etc.

Disposal Method

We considered the use of leach drains to dispose of treated effluent is appropriate. Flatbed leach drains or concrete leach drains are likely to be acceptable.

Separation to Groundwater and LAA Surface Level

A minimum 1.5 m clearance to groundwater below leach drains must be achieved.

Groundwater was encountered between 0 m below ground (in low lying areas) and over 3 m below ground (in elevated areas). Surface water (judged to be an expression of the groundwater table) was observed in the table drain, wetland areas and lakes in Section 4.

Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Filling, subsoil drains and / or table drains could possibly be required to control groundwater. Levels for leach drain invert levels can be assessed once design groundwater levels are derived for the development.

We recommend that filling requirements be assessed based on proposed lot configurations and design groundwater levels as established by a hydrologist.

Treatment Units

The wastewater may be treated using an ATU (secondary treatment), also known as aerated wastewater treatment systems (AWTS). ATU's use the processes of aeration followed by clarification to achieve biological treatment of wastewater.

ATU's (or any other proposed system) must be certified to AS1546.3 (2008) and require approval by the Chief Health Officer. A list of approved ATU's is presented in Table 2 on the Department of Health website.

Soil improvement in areas of proposed fill

Any fill at the site below leach drains must have a phosphorous retention index (PRI) of at least 20, and monitored 3-yearly, in accordance with Department of Health requirements. This can be done with a product like 'gypsum', or by using high-PRI soil. High PRI soil must be present to a minimum depth of 200 mm below the base of all infiltration zones and at least 0.5 m in plan outside the leach drain footprint area.

There is no requirement for other fill above leach drains to have a minimum PRI.

15. CLOSURE

GALT GEOTECHNICS



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https://galtgeo.sharepoint.com/sites/wag250138/shared documents/01 dpd si/03 correspondence/wag250138-01 002 r rev1 sse.docx

Attached Table 1: Summary of Geotechnical Index Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)	LS (%)	Org %	MMDD (t/m³)	OMC (%)	CBR (%)	CBR Swell (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	4	71	25	28	5	2.5	-	-	-	-	-
BH03	1.5 to 1.8	SAND (SP)	-	98	2	-	-	-	-	-	-	-	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	2	66	32	46	6	3.0	10.7	-	-	-	-
BH06	0.6 to 1.0	SAND (SP-SC)	2	92	6	-	-	-	1.2	-	-	-	-
BH10	1.0 to 1.5	SAND (SP)	-	99	1	-	-	-	-	-	-	-	-
G07	0.5 to 0.6	SAND (SP)	-	97	3	-	-	-	0.4	-	-	-	-
G10	0.4 to 0.5	SAND (SP)	1	94	5	-	-	-	1.1	-	-	-	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)													
BH04	0.3 to 0.5	SAND (SP)	0	95	5	-	-	-	1.7	-	-	-	-
BH06	1.0 to 1.4	SAND (SP)	0	96	4	-	-	-	0.5	-	-	-	-
BH07	0.3 to 0.7	SAND (SP)	6	92	2	-	-	-	2.7	-	-	-	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)													
G01	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
BH16	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***													
BH01	0.1 to 0.5	SAND (SP)	1	96	3	-	-	-	-	1.76	12.5	20	0.0
BH03	0.6 to 1.2	SAND (SP)	-	95	5	-	-	-	-	-	-	-	-
BH04	0.1 to 0.4	SAND (SP)	-	96	4	NO	NP	0.0	-	-	-	-	-
BH06	0.5 to 1.2	SAND (SP)	-	97	3	NO	NP	0.0	-	-	-	-	-
BH07	0.0 to 0.4	SAND (SP)	1	96	3	-	-	-	-	1.73	14.5	19	0.0
G02	0.2 to 0.6	SAND (SP-SM)	5	89	6	-	-	-	-	-	-	-	-

Notes

1. *Particle size distribution (by mass)*
   - *Gravel: 2.36 mm – 63 mm*
   - *Sand: 0.075 mm – 2.36 mm*
   - *Fines: <0.075 mm*
2. *Atterberg Limits*
   - *LL: Liquid limit*
   - *PI: Plasticity index*
   - *LS: Linear shrinkage*
   - *NO: Not obtainable*
   - *NP: Non-plastic*
3. *Org: Organic content (by mass)*
4. *Modified compaction*
   - *MMDD: Modified maximum dry density*
   - *OMC: Optimum moisture content*
6. *CBR: California bearing ratio*
   - *Remoulding dry density ratio: 95% MMDD*
   - *Surcharge: 6.75 kg*
   - *Soaking: 4-day soaked*

Attached Table 2: Summary of Chemical Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Electric Conductivity (us/cm)	pH	Phosphorus Retention Index	Exchangeable Sodium Percentage (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	300	8.4	21	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	1000	4.8	200	-
BH06	0.5 to 1.0	SAND (SP-SC)	110	7.3	4.0	-
G07	0.5 to 0.6	SAND (SP)	14	7.8	0.5	-
G10	0.4 to 0.5	SAND (SP)	73	7.7	1.5	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)						
G01	0.3	SAND (SP)	66	6.6	-0.14	-
G03	0.4	SAND (SP)	60	6.6	-0.48	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)						
G01	0.1 to 0.5	SAND (SP)	32	5.8	-0.11	Not Reportable
BH16	0.1 to 0.5	SAND (SP)	36	6.2	-0.25	Not Reportable
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***						
BH04	0.1 to 0.4	SAND (SP)	-	-	0.62	-
G02	0.2 to 0.6	SAND (SP-SM)	-	-	1.2	-

Attached Table 3: Summary of encountered conditions (August / September 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])	Organic Soil layers (m BGL[1])
CPT01	5.1	0.60	0.9 to 1.2 and from 4.0	possibly from 0.9 to 1.2
CPT02	5.1	0.40	3.0	-
CPT03	5.1	1.70	2.2	-
CPT04	5.1	Collapsed[2]	***3.5***[4]	-
CPT05	2.3	0.60	-	-
CPT06	5.1	0.80	***2.0***[4]	-
CPT08	5.1	0.20	-	-
CPT09	5.1	1.40	***3.4***[4]	-
CPT10	5.1	0.20	-	-
CPT12	5.1	0.60	-	-
CPT13	5.1	0.00	4.2	-
CPT14	5.1	0.80	4.1	-
CPT15	5.1	0.80	***3.2***[4]	-
CPT16	3.0	1.10	***2.8***[4]	-
CPT19	5.1	0.80	-	-
CPT20	5.1	0.80	***2.2***[4]	-
BH01	3.0	2.10	-	-
BH02	3.0	0.80	0.9	0.9 to 2.0 - trace organics in clayey sand
BH03	3.0	1.60	***2.6***[4]	-
BH04	3.0	0.10	0.7	0.7 to 1.4 Organic clayey sand
BH05	1.3	0.60	-	-
BH06	3.0	0.40	2.6	-
BH09	3.0	1.30	-	-
BH10	3.0	1.60	-	-
BH11	3.0	1.00	-	-
BH12 / MW01	3.0	1.00	0.0 to 1.4 and 2.6	Peat from 0.0 to 0.6, Organic sand from 0.6 to 1.4
BH13	3.0	0.90	-	-
BH14 / MW03	3.0	0.28	2.0	-
BH15	3.0	1.10	-	-
BH16 / MW02	3.0	1.15	***2.0***[4]	-

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Thicker surficial organic layers encountered near / within drainage line in northern part of site as summarised above. Refer to appendices for further details.*

Attached Table 4: Summary of encountered conditions at 27 Hatch Court (May 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey soil (m BGL[1])
BH01	3	1.7	-
BH02	3	-	-
BH03	3	-	-
BH04	3	1.9	2.8
BH05	3	2.8	-
BH06	3	-	-
BH07	3	2.7	-
BH08	3	-	-
CPT01	6.5	collapsed	6.2
CPT02	5.8	collapsed	2.2
CPT03	6.3	collapsed	6.1
CPT04	6.4	collapsed	3.5
CPT05	6.4	collapsed	6.2
CPT06	6.4	collapsed	2.2

NOTES:
1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG250256-01 001 R Rev1 for further details.*

Attached Table 5: Summary of groundwater depths during fieldwork at 71 Stirling Crescent (March 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of cemented[4] soil (m BGL[1])
BH01	1.7	-	***1.7[4]***
BH02	2.0	-	-
BH03	2.0	-	-
BH04	1.0	-	***1.0[4]***

NOTES:
1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, inferred from borehole refusal.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230133-01 001 R Rev 1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 6: Summary of groundwater depths during fieldwork at Lots 8 & 16 Stirling Crescent (November 2024)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	3.00	-	-
BH02	3.00	-	-
BH03	3.00	-	-
BH04	3.00	-	-
BH05	2.70	1.2	-
BH06	3.00	-	-
BH07	3.00	-	-
BH08	2.00	-	***2.0[4]***
BH09	3.00	-	-
BH10	3.00	-	-
BH11	3.00	-	-
BH12	3.00	-	-
BH13	3.00	-	-
BH14	2.88	-	***2.5[4]***
BH15	2.30	-	***2.2[4]***
BH16	3.00	-	-
CPT01	6.90	-	6.5
CPT02	2.70	collapsed	***1.8[4]***
CPT03	6.20	collapsed	6.0
CPT04	6.20	collapsed	-
CPT05	6.20	collapsed	-
CPT06	6.20	collapsed	***3.0[4]***
CPT07	2.83	collapsed	***2.8[4]***
CPT08	2.86	collapsed	***2.8[4]***
CPT09	2.91	collapsed	***2.9[4]***
CPT10	2.51	collapsed	***2.5[4]***

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG240438-01 001 R Rev2 for further details.*

Attached Table 7: Summary of groundwater depths during fieldwork at part of Lot 1499 Stirling Crescent (September 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	2.0	-	-
BH02	2.0	1.7	-
BH03	2.0	1.1	-
BH04	2.0	1.9	-
BH05	2.0	1.9	-
BH06	2.0	-	-
CPT01	3.2	collapsed	***3.0[4]***
CPT02	8.4	2.5	***2.5 to 3.5[4]***, and from 8.0
CPT03	3.0	collapsed	***2.8[4]***
CPT04	8.2	1.9	-
CPT05	8.2	collapsed	***3.4 to 4.0[4]*** and 5.6
CPT06	2.7	collapsed	***2.6[4]***
CPT07	8.2	1.7	4.0

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230463-01 002 R Rev1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 8: Summary of test coordinates for site in August and September 2025

Test Location	Easting (m MGA)[1]	Northing (m MGA)[1]	Inferred Elevation (m AHD)[2]
BH01/G01	405646	6467292	21.0
BH02/G02	405494	6467178	20.0
BH03/G03	405553	6467032	21.5
BH04	405746	6467085	20.6
BH05/G05	405643	6467054	21.5
BH06	405888	6467056	21.5
BH09/G09	405813	6466819	24.0
BH10/G10	405684	6466750	24.2
BH11	405591	6467171	20.3
BH12/MW01	405435	6467134	19.8
BH13	405618	6467087	20.5
BH14/MW03	405880	6467094	21.5
BH15	405967	6466919	24.0
BH16/MW02	405776	6466716	24.2
CPT01	405528	6467116	20.7
CPT02	405562	6467224	20.5
CPT03	405714	6467260	21.5
CPT04	405645	6467163	20.5
CPT05	405569	6467133	20.0
CPT06	405548	6467067	21.5
CPT08	405689	6467097	20.5
CPT09	405729	6467175	21.5
CPT10	405786	6467141	21.0
CPT12	405474	6467082	21.5
CPT13	405811	6467067	21.1
CPT14	405840	6466998	22.8
CPT15	405997	6466982	23.7
CPT16	405840	6466845	24.0
CPT19	405712	6466747	24.5
CPT20	405722	6466643	24.0
G07	405960	6466917	24.0

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *Elevation inferred from feature survey provided.*

Attached Table 9: Summary of test coordinates for 27 Hatch Court (report reference: WAG250256-01 001 R Rev1, dated May 2025)

Test Location	Easting (m MGA)[1]	Northing (m MGA)[1]	Inferred Elevation (m AHD)[2]
BH01	405610	6467113	20.5
BH02/IT01	405543	6467282	20.5
BH03	405566	6467265	20.5
BH04	405625	6467229	20.9
BH05/IT04	405660	6467284	21.0
BH06	405612	6467287	21.0
BH07/IT02	405610	6467330	21.2
BH08/IT03	405648	6467325	21.5
G01	405582	6467303	20.6
G03	405664	6467265	21.1
G02	405667	6467329	21.5
CPT01	405635	6467351	21.4
CPT02	405653	6467260	21.0
CPT03	405635	6467298	21.1
CPT04	405674	6467304	21.5
CPT05	405586	6467301	20.6
CPT06	405600	6467244	20.8

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *Elevation inferred from feature survey provided.*

Attached Table 10: Summary of test coordinates for Lots 8 and 16 Stirling Crescent (WAG240438-01 001 R Rev2, dated November 2024)

Test Location	Easting (m MGA)[1]	Northing (m MGA)[1]	Inferred Elevation (m AHD)[2]
G04	405773	6466889	23.5
G03	405801	6466917	23.5
G02	405701	6467032	21.8
G01/SP01	405684	6467031	21.7
CPT01	405686	6467009	22.5
CPT02	405667	6466990	22.5
CPT03	405644	6466967	22.5
CPT04	405625	6466946	22.5
CPT05	405610	6466932	22.5
CPT06	405595	6466917	22.5
CPT07	405723	6466916	23.5
CPT08	405751	6466917	23.5
CPT09	405754	6466945	23.5
CPT10	405780	6466951	24.0
BH01	405677	6467000	22.5
BH02	405656	6466980	22.5
BH03	405635	6466957	22.5
BH04	405616	6466940	22.5
BH05	405602	6466925	22.5
BH07	405638	6466925	22.5
BH08	405671	6466957	22.5
BH09	405707	6466958	23.0
BH10	405706	6466986	23.0
BH11	405737	6466990	22.7
BH12	405768	6466964	23.3
BH13	405768	6466934	23.5
BH14	405736	6466929	23.5
BH15	405738	6466902	23.5
BH16/SP02	405772	6466900	23.5
BH06	405797	6466926	23.5
IT01	405633	6466920	22.5
IT02	405677	6466952	23.0
IT03	405711	6466982	23.0
IT04	405767	6466897	23.5
IT05	405800	6466931	23.5

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *Elevation inferred from feature survey provided.*

Attached Table 11: Site Assessment

Consideration	Assessment / Discussion	Reference	Level of Constraint	Mitigation Measures
Geology	Refer Section 10.1. Mapped as Bassendean sand of variable thickness, with swamp deposits mapped in low lying areas (refer Inline Image 1). LAA are only to be located in areas of deep sand, at least 2 m above any clay or coffee rock layers.	Perth Sheet of the 1:50,000 Environmental Geology Series Map	Nil	-
Climate	To satisfy zero storage requirements, minimum LAA's to be sized as required for hydraulic loading.	Appendix E, Water Balance Calculation	Low	LAA to be greater than area required to meet zero storage requirement.
Exposure	Site will be cleared and broadly levelled - minimal/no tree cover or significant site aspect.	-	Low	-
Vegetation	Assumed area cleared, with minimal vegetation (i.e. limited to grass and / or shrubs)	-	Low	-
Landform and Drainage	The site generally undulates, but slopes down towards the drainage line traversing from west to east in the northern part of the site. Site drainage is controlled by this drainage line. Localised lakes are present in southern part of site, which are judged to be expressions of groundwater.	-	Moderate	Civil design to minimise rainfall run-on and run-off (using bunds/curbs etc.)
Slope	The proposed development area will be relatively flat after earthworks.	-	Low	Slope is <10% grade.
Fill (Imported)	Filling is anticipated to achieve adequate clearance to groundwater. Fill could be site derived or imported and must have similar properties as that encountered (i.e. All fill must be Soil Category 1 to 2).	-	Low	Any imported fill must have minimum hydraulic conductivity of 1.4 m/day (i.e. All fill must be Soil Category 1 to 2).
PDWSAs	The site is **not** mapped as being within a public drinking water source area.	Department of water (DoW) mapping service	-	-
SSAs	The site is mapped as a Sewage Sensitive Area, being within 1 km of a significant wetland and within the catchment of the Swan Coastal Plan.	Department of lands and heritage (DPLH) mapping service.	Moderate	The underside of any disposal area must be at least 1.5 m above the design groundwater level, provided a secondary treatment system is used.

Attached Table 11: Site Assessment CONTINUED (Page 2 of 2)

Consideration	Assessment / Discussion	Reference	Level of Constraint	Mitigation Measures
Surface gravel and rock outcrops	We did not note any significant surficial gravel and rock outcrops.	Section 11	Low	-
Groundwater Level	Groundwater currently between 0 m below ground (in low lying areas) and over 3 m below ground (in elevated areas). Surface water (judged to be an expression of the groundwater table) was observed in the table drain, wetland areas and lakes discussed above and in Section 4. Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Filling, subsoil drains and / or table drains could possibly be required.	Table 7	Moderate	The underside of any disposal area must be at least 1.5 m above the design groundwater level, provided a secondary treatment system is used.
Groundwater Separation	A minimum groundwater separation of 0.6 m is required for treated effluent at the site.	Government Sewerage Policy (2019)	Moderate	Refer comment above.
Rainfall Run-on/Seepage	Site slopes and levels will be changed significantly by bulk earthworks. Some rainfall run-on and run-off may occur.	-	Moderate	Incident rainfall must be diverted away from LAA's using curbs or diversion bunds. Similarly, any run-off must be prevented by either having a level LAA, or by using retention bunds.
Surface Water/Water Resources	As discussed in Section 4, Surface water (judged to be an expression of the groundwater table) was observed in - the table drain traversing west to east through the northern part of the site - the wetland area in the western part of the site near Lewis Road; and - lakes in the southern part of the site. It is possible some of these features will be removed as part of earthworks.	-	Moderate	LAA to be positioned so the required minimum setbacks to water resources are met. Particularly a 6 m offset from open drainage channels (refer Table 8) and 100 m offset from the creek in the HCLIA.
Flood Potential	The site is **not** mapped as a Floodplain Development Control Area	DWER floodplain mapping	-	-
Setbacks	All setbacks to be met.	Section 12.2	High	LAA to meet setback requirements.
LAA	The minimum total LAA area by the SPP 2025 method is 1,000 m^2 per 5,000 L/day of hydraulic loading. This will need to be resized as required for the actual hydraulic loading within each proposed lot.	Section 12.3.3	Low	LAA to be sized to meet the minimum required infiltrative area and setbacks.

Attached Table 12: Soil Assessment

Consideration	Assessment / Discussion				Reference	Level of Constraint	Mitigation Measures
Subsurface Soil Conditions	In proposed LAA areas, soil conditions to comprise SAND with a minimum permeability of 1.4 m/day (i.e. Soil Category 1 or 2). To a depth of no less than 2 m. This is achievable for most of the site.				Section 11	Moderate	-
Acid Sulfate Soils	Organic soils near drainage lines, wetland areas and possibly within existing lakes could have a high acid sulfate soil risk. LAA's are to be located away from these features in sand above the groundwater, and therefore no significant ASS risk is present.				Department of Environmental Regulation (DER) mapping	Low	-
Soil Category	In situ soil in proposed LAA areas is Category 1 to 2				AS1547-2012	Moderate	Any imported fill must have minimum hydraulic conductivity of 1.4 m/day to meet these assumptions (i.e. All fill must be Soil Category 1 to 2). LAA areas not to be near drainage lines or wetland areas where surficial organic clayey soils could be present.
Design Loading Rates	50 mm/day				Table L1, AS1547-2012	-	Secondary treated effluent
Laboratory Testing in SAND	**Level of Constraint**						-
	Result	**Low**	**Medium**	**High**			
Coarse Fragments[1]	Up to 6%	<10%	10-40%	>40%	-	Low	Erosion risk is relatively low and can be controlled around perimeter using geotextile / vegetation / etc.. as per civil design requirements. No reduction in permeability necessary to account for gravel.
Phosphorous Retention Index (PRI)[2]	-0.5 to 4.0	>20	5-20	<5		High	The upper 0.2 m of soil below leach drains must comprise high PRI (PRI>20) soil to ensure nutrient stripping capability.
pH[1]	5.8 to 7.8	6-8	4.5-6	<4.5,>8		Low to Medium	In situ soil not considered to be significantly erodible.
Exchangeable Sodium Percentage[1]	Not Reportable	<10	10-20	<20		-	
Electric Conductivity (dS/m)[1]	0.014 to 0.110	<0.3	0.3 – 2.0	>2.0		Low	
Emerson Class[1]	NIL	> 4	4	1 - 3		-	-

Notes: 1) *Level of constraint based on our interpretation of AS1547 description of "non-dispersive soils".* ***2)*** *Phosphorus retention index requirements are based on our interpretation of The Department of Primary Industries and Regional Development Standards for Land Resource Mapping (2005), as this is not specified in AS1547.*

Figures





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

WAG250256-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Guelph Permeameter

WAG240438-01-TLF

- Borehole
- Borehole / Standpipe
- Cone Penetration Test
- Guelph Permeameter
- Guelph Permeameter / Standpipe
- Infiltration Test

WAG230463-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Permeability Test
- Sediment Sample

WAG230133-01-FTL

- Borehole
- Borehole / Infiltration Test
- Infiltration Test

NOTES

Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250	(A3)
DRAWN	CED	
DATE DRAWN	11/9/2025	
CHECKED	_	
DATE CHECKED	_	
PROJECTION	GDA 1994 MGA Zone 50	

Galt Geotechnics Pty Ltd
ACN : 138 490 865
Tel : +61 (0)8 6272-0200
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CLIENT	**CLIENT**
PROJECT	PROJECT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN WITH PREVIOUS GALT TEST LOCATIONS

Job No	WAG250138-01	Fig No FIGURE 1	Rev **A**

O:\Projects\WAG\250138\01\04 MXD\WAG250138-01-001-G02.mxd (claire.doyle) 11/9/2025 10:21:10 AM

Appendices

Appendix A: Site Photographs

Photograph 1: Site photo near BH13. Water ponded at ground surface



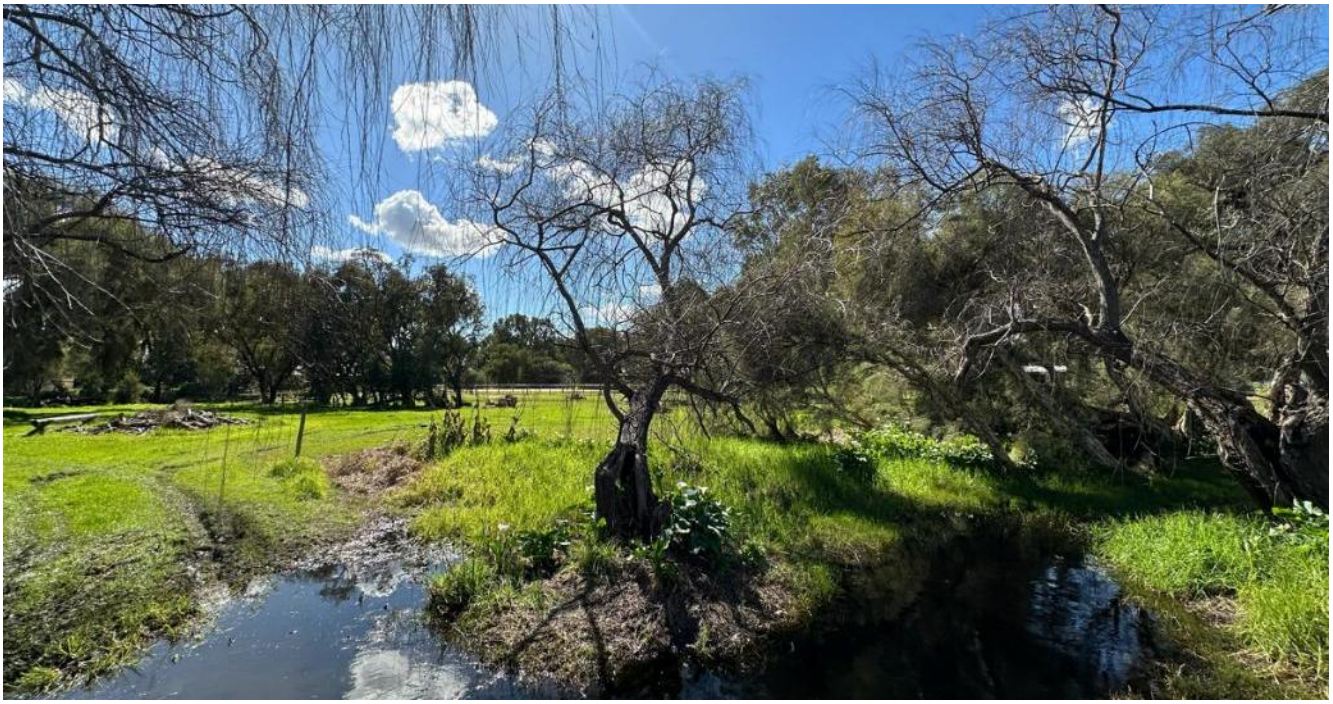
Photograph 2: Near BH02 facing west. Wetland area near Lewis Road.



Photograph 3: Near BH01 facing south east



Photograph 4: Near CPT01 facing north. Wetland area near Lewis Road / drainage line in northern part of site.



Photograph 5: Near BH04 facing north



Photograph 6: Near CPT08 facing west. Drainage line adjacent borehole.



Photograph 7: Near BH10 facing east



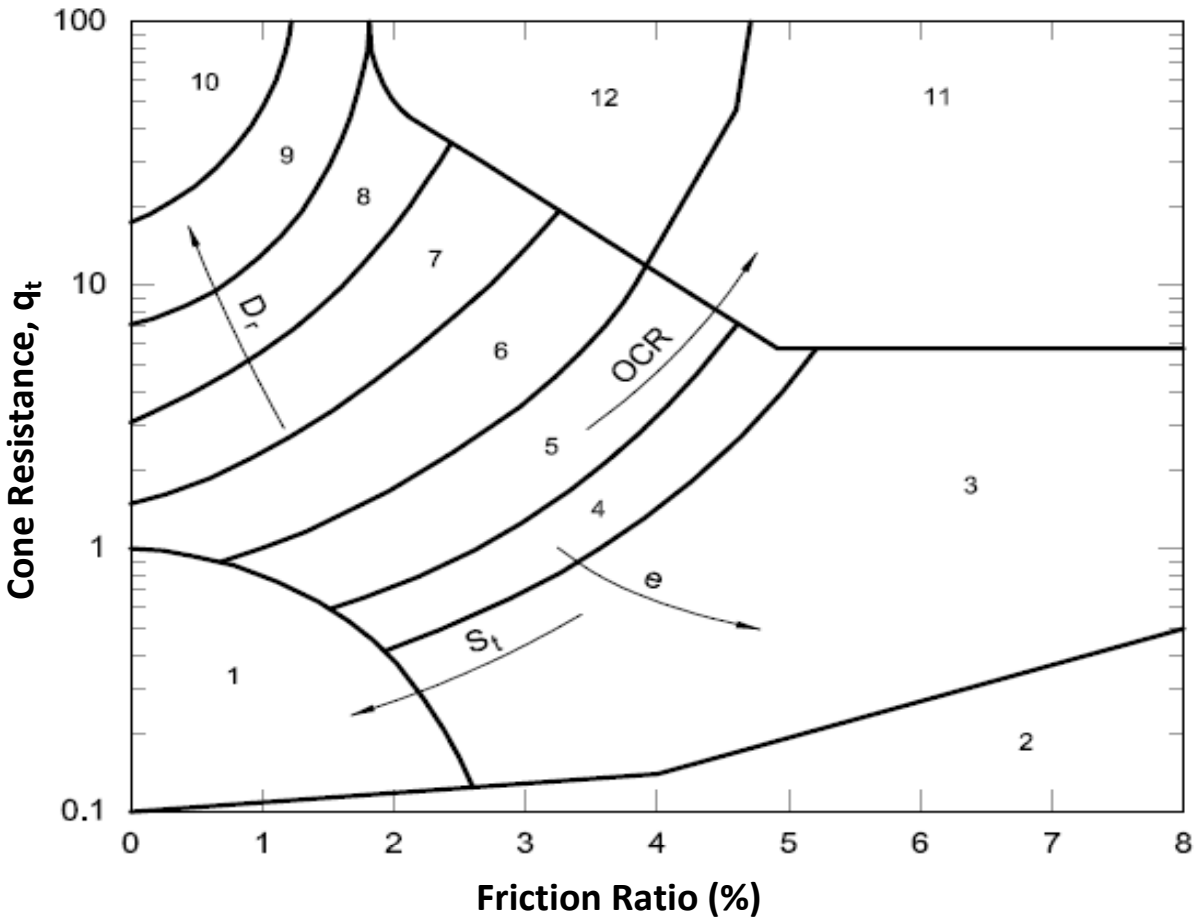
Photograph 8: Near BH15 facing south east



Photograph 9: Near BH06 facing south west



Appendix B: CPT Test Results



DEFINITIONS

q_t : Cone tip resistance corrected for pore water pressure
S_t : Sensitivity
e : Void ratio
D_r : Relative density
OCR : Overconsolidation ratio
OC : Overconsolidated

SOIL BEHAVIOUR TYPE ZONES

1. Sensitive fine grained
2. Organic material
3. Clay
4. Silty clay to clay
5. Clayey silt to silty clay
6. Sandy silt to clayey silt
7. Silty sand to sandy silt
8. Sand to silty sand
9. Sand
10. Gravelly sand to sand
11. Very stiff fine grained material (OC/cemented)
12. Sand to clayey sand (OC/cemented)

NOTES

A. Some overlap in type zones is expected
B. Local correlations are preferred and may indicate soil type boundaries that are different from those shown above

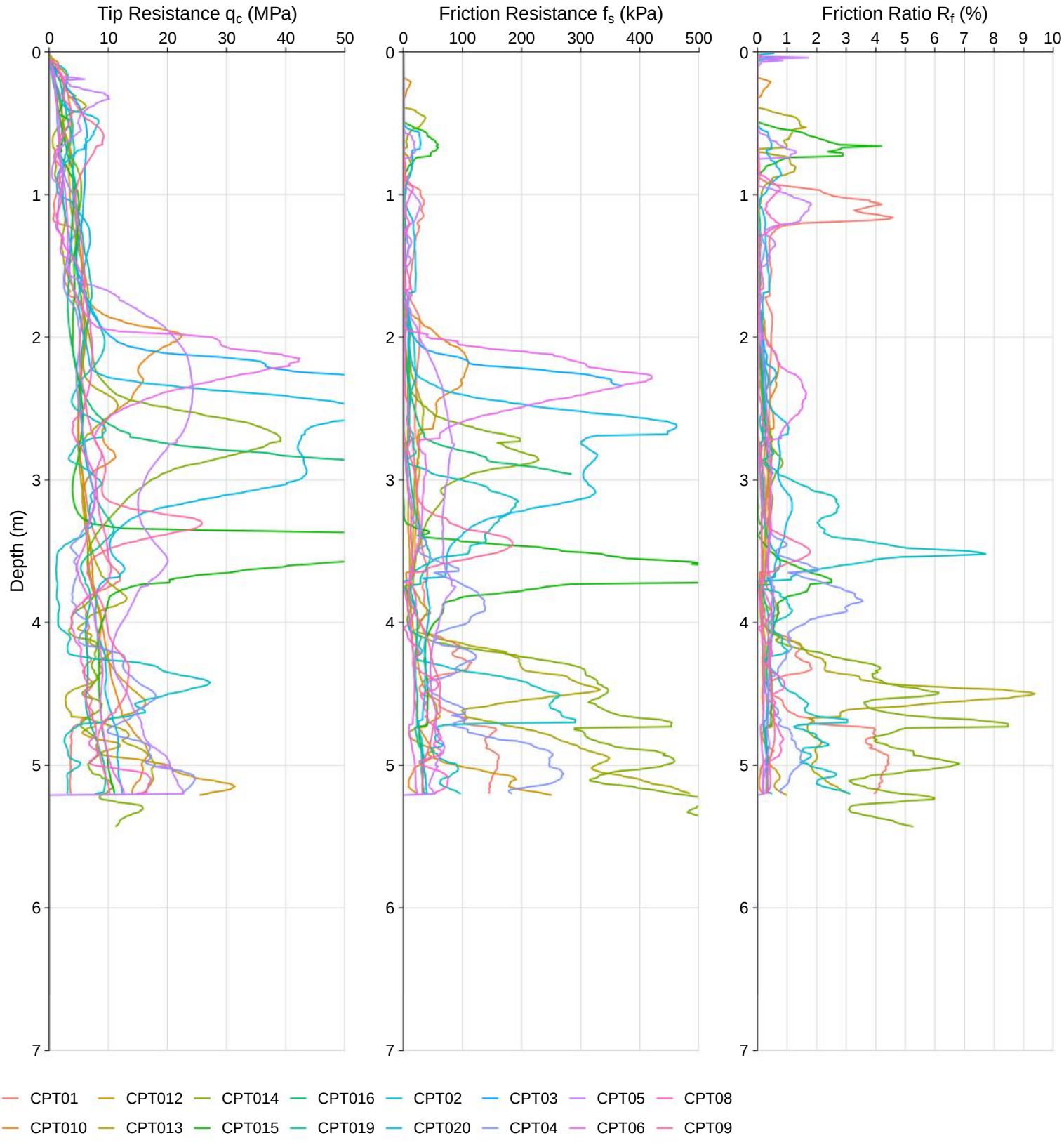
Reference: Robertson, P.K., Campanella, R.G., Gillespie, D. and Grieg, J. (1986) "Use of Piezometer Cone Data". Proceedings of the ASCE Speciality Conference In Situ '86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE)

Galt GEOTECHNICS

CONE PENETRATION TESTING (CPT) SOIL TYPE INTERPRETATION

CONE PENETRATION TEST

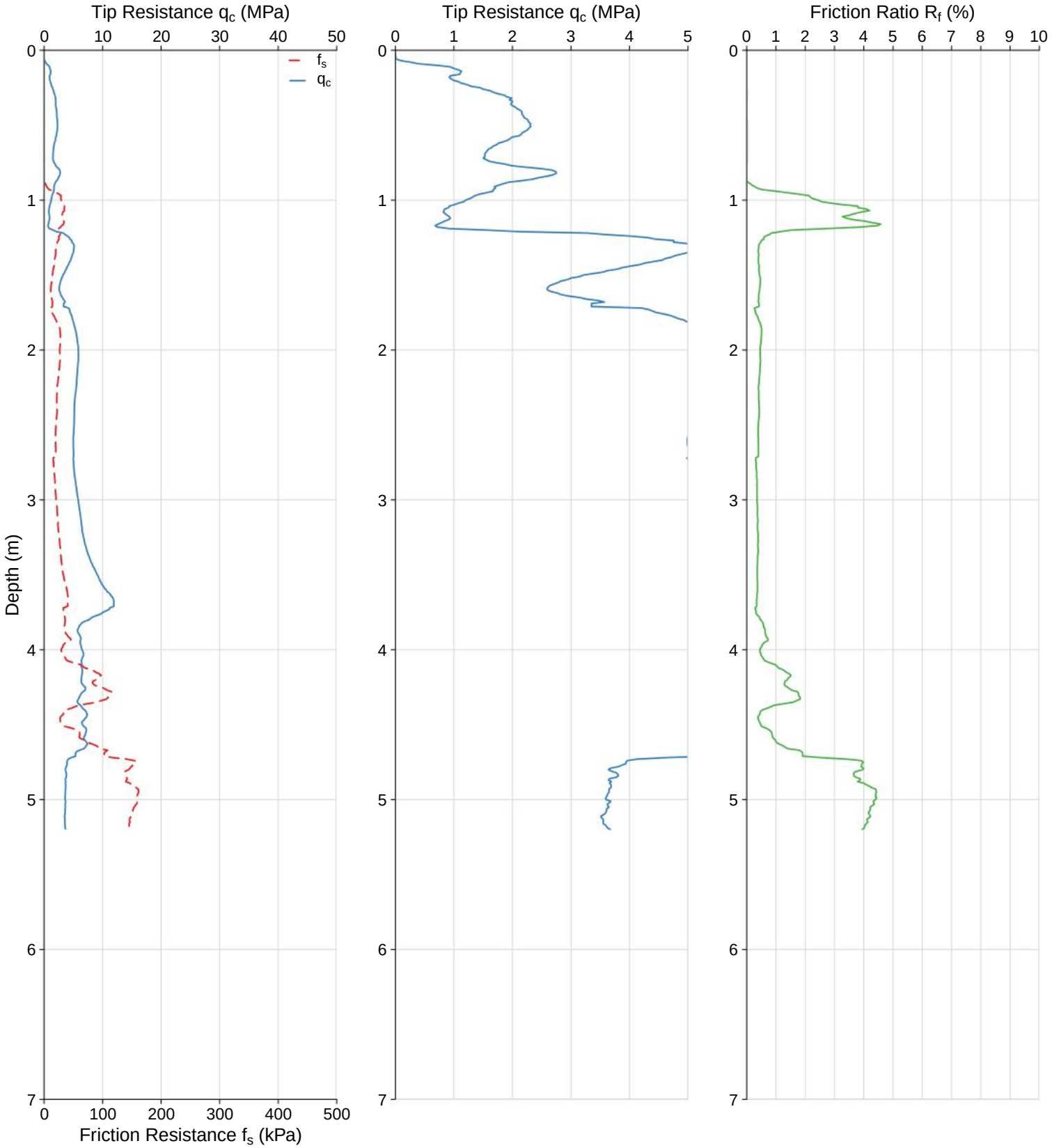
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



RIG: Pagani TG 73-200 200kN

CONE PENETRATION TEST

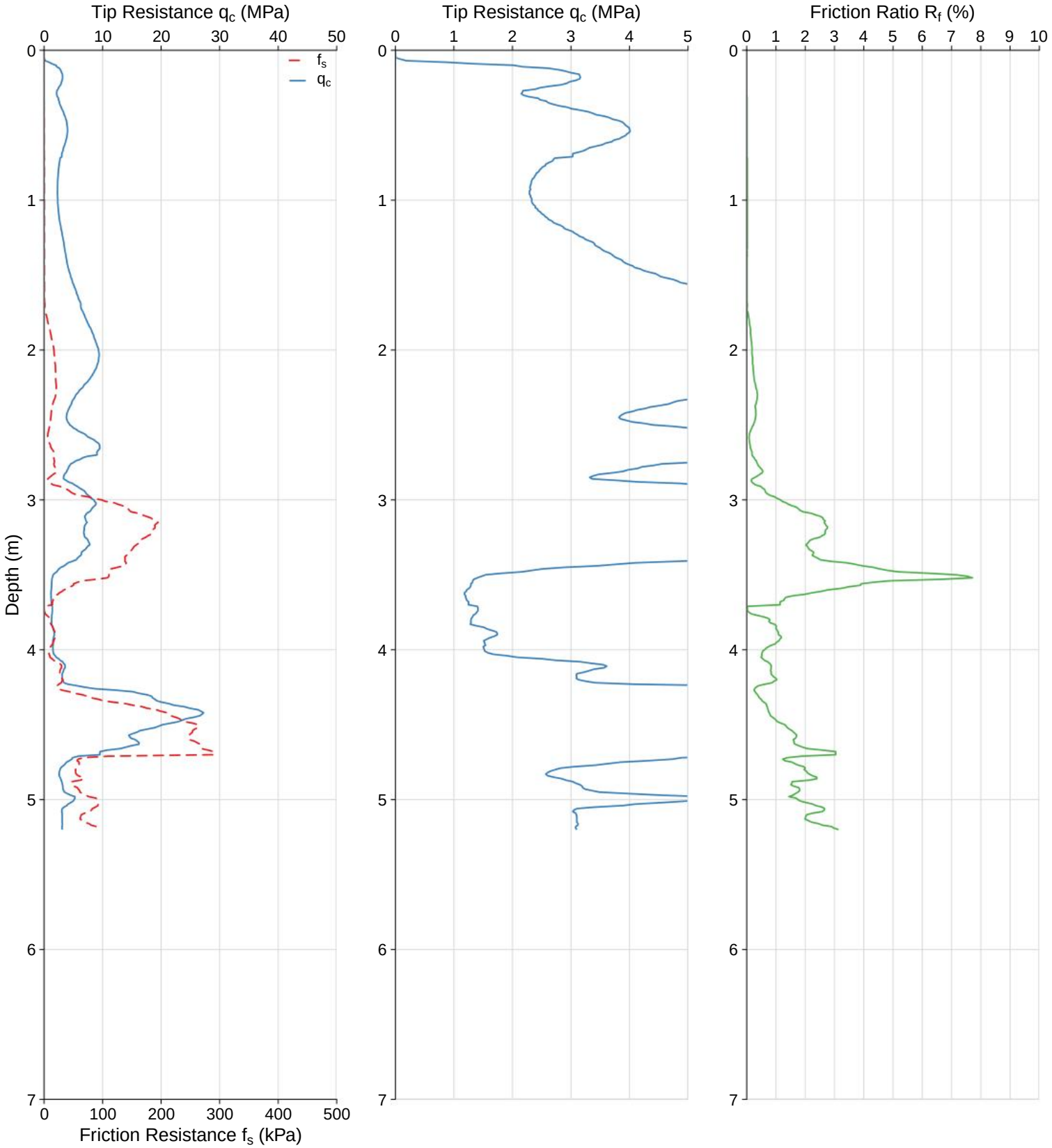
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

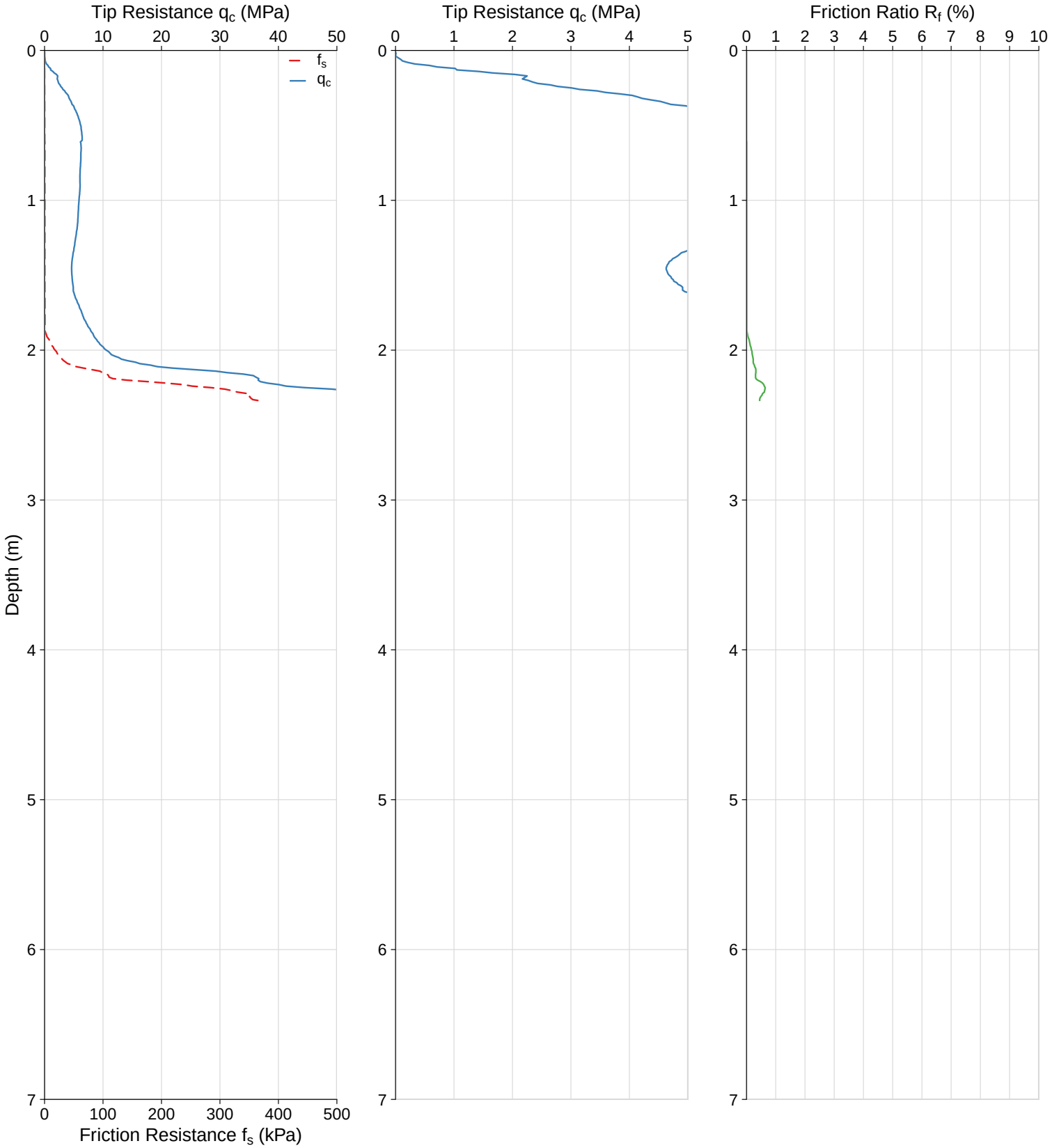
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

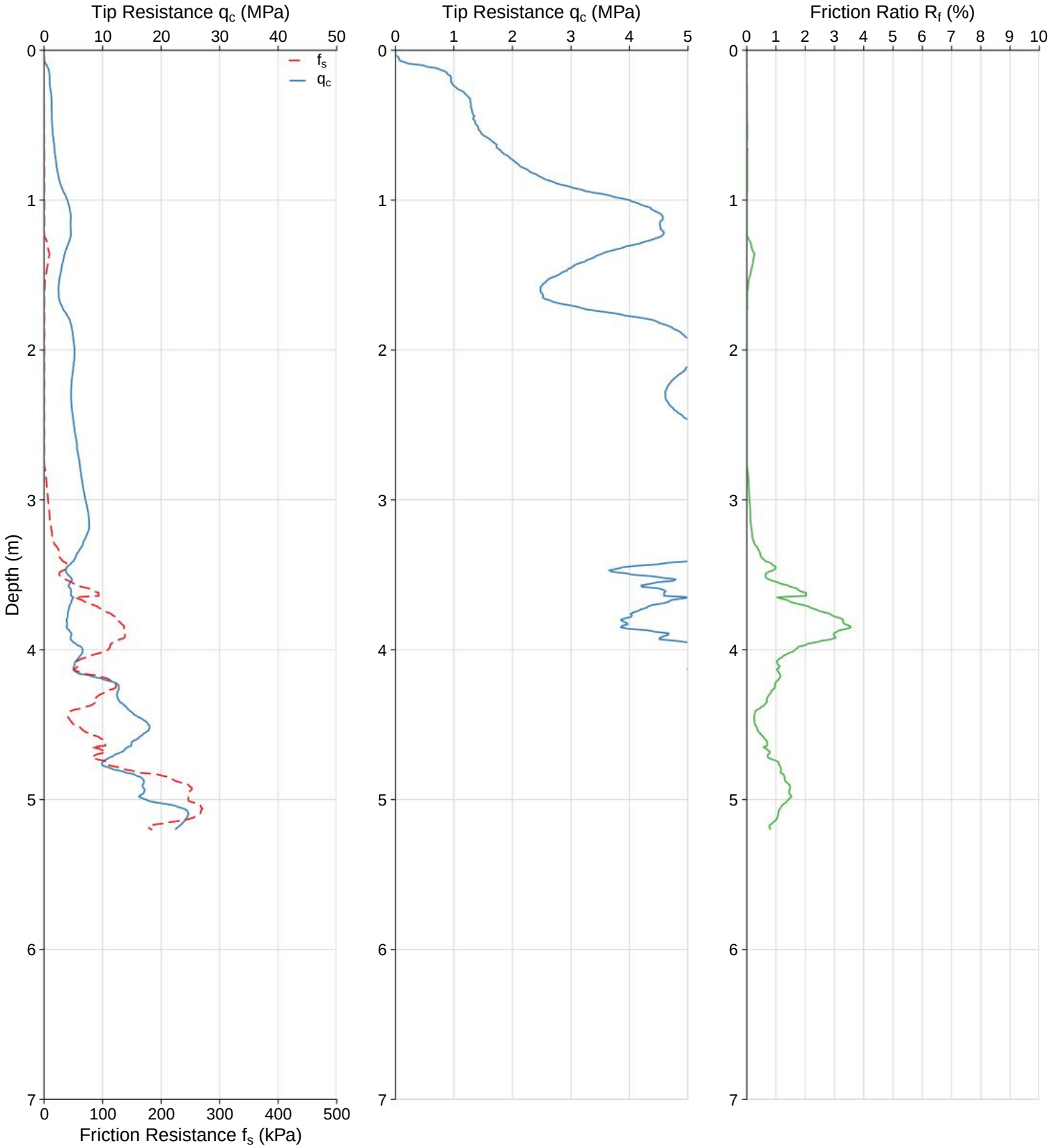
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.7m	**CO-ORDS:**	
TERMINATION:	Refused, 2.34m	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

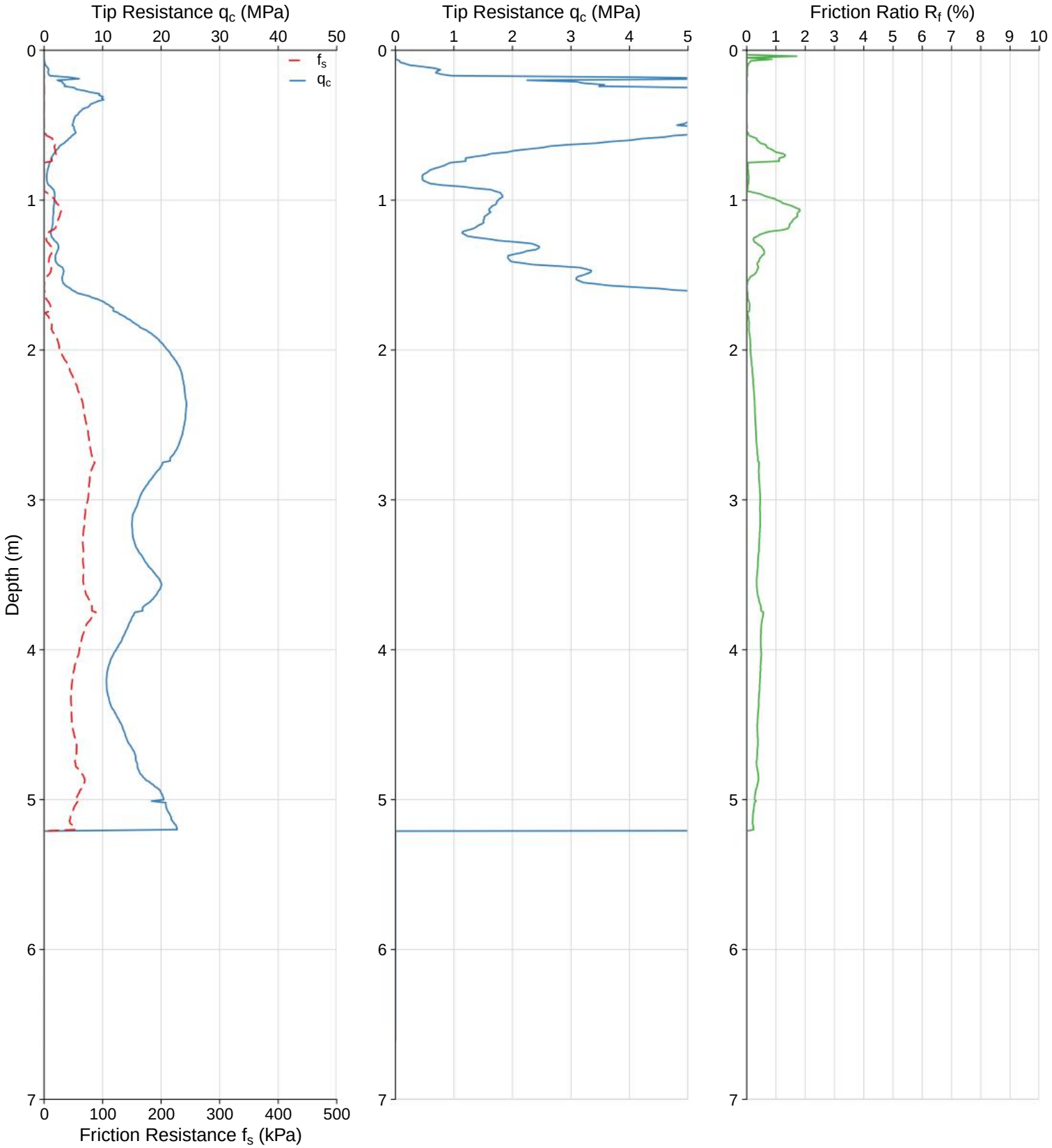
CPT ID:	CPT04	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

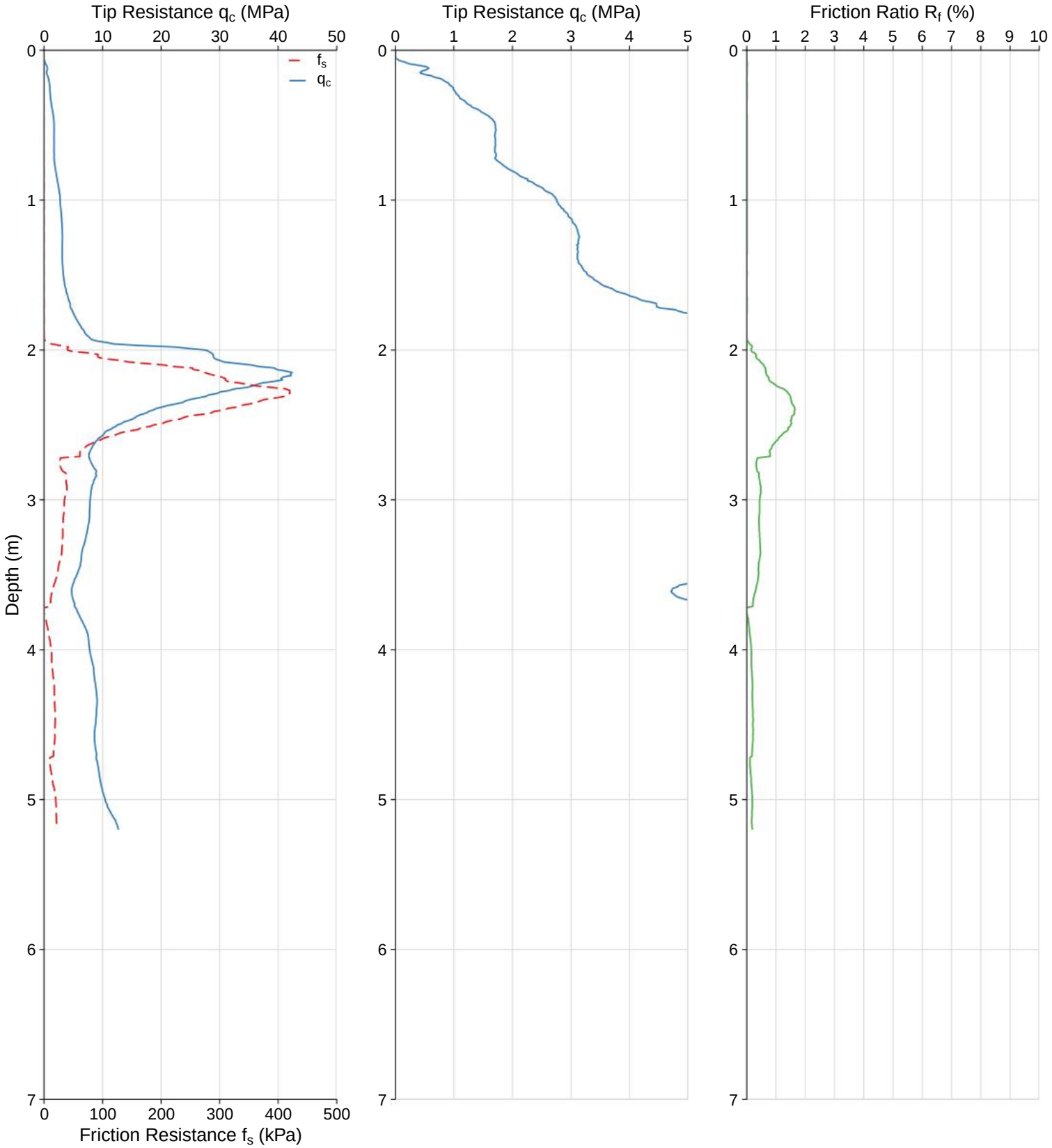
CPT ID:	CPT05	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

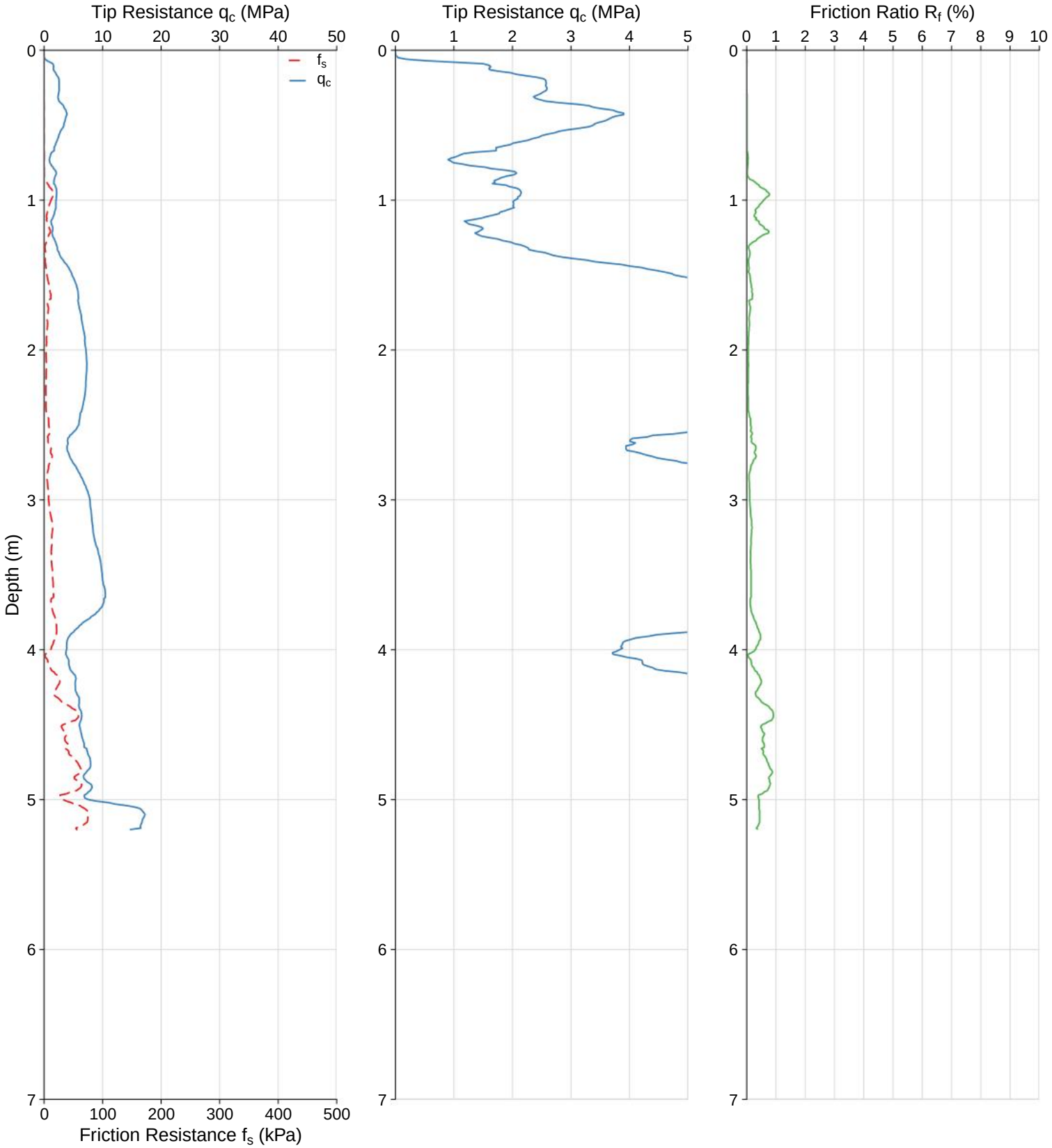
CPT ID:	CPT06	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

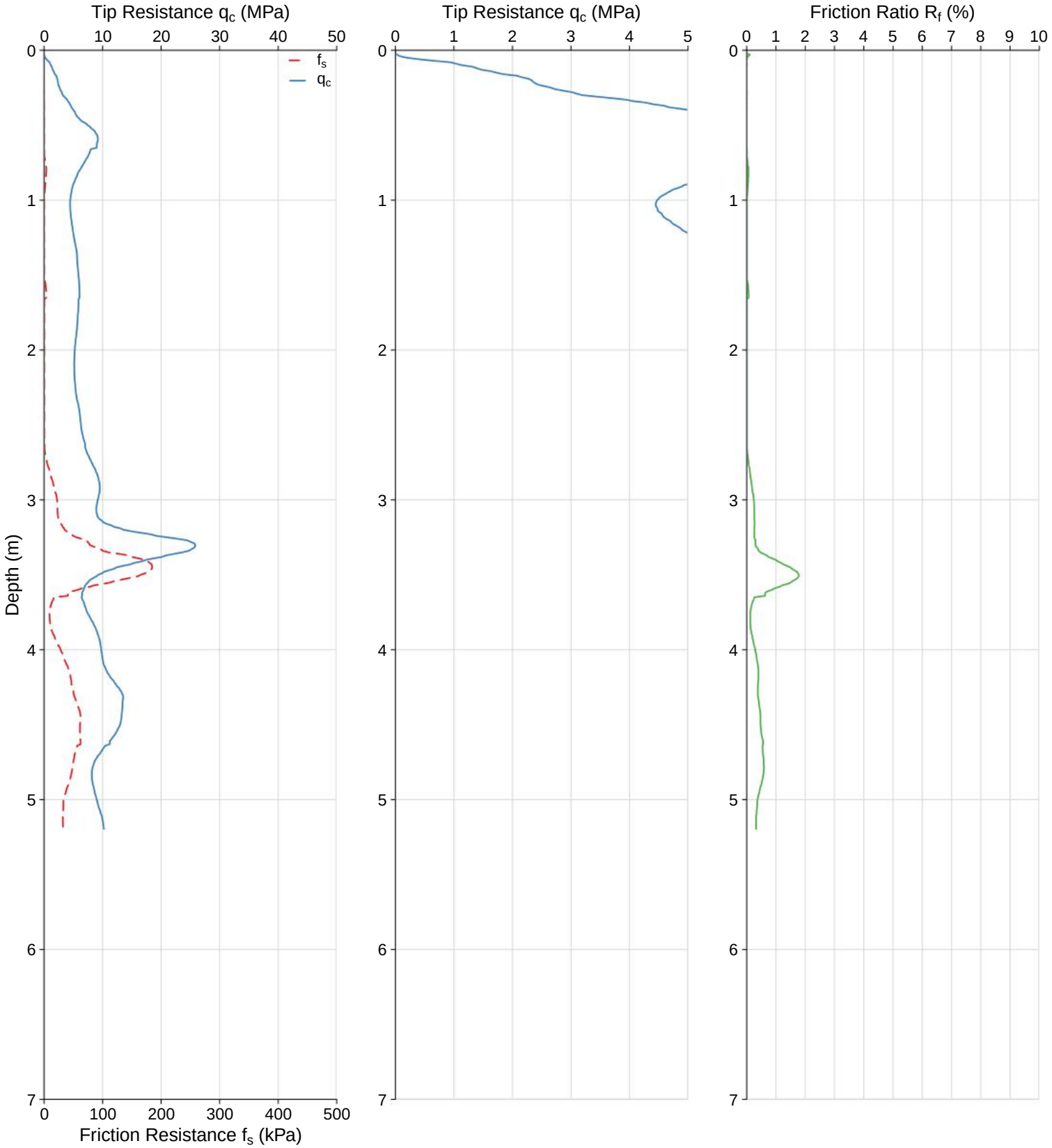
CPT ID:	CPT08	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

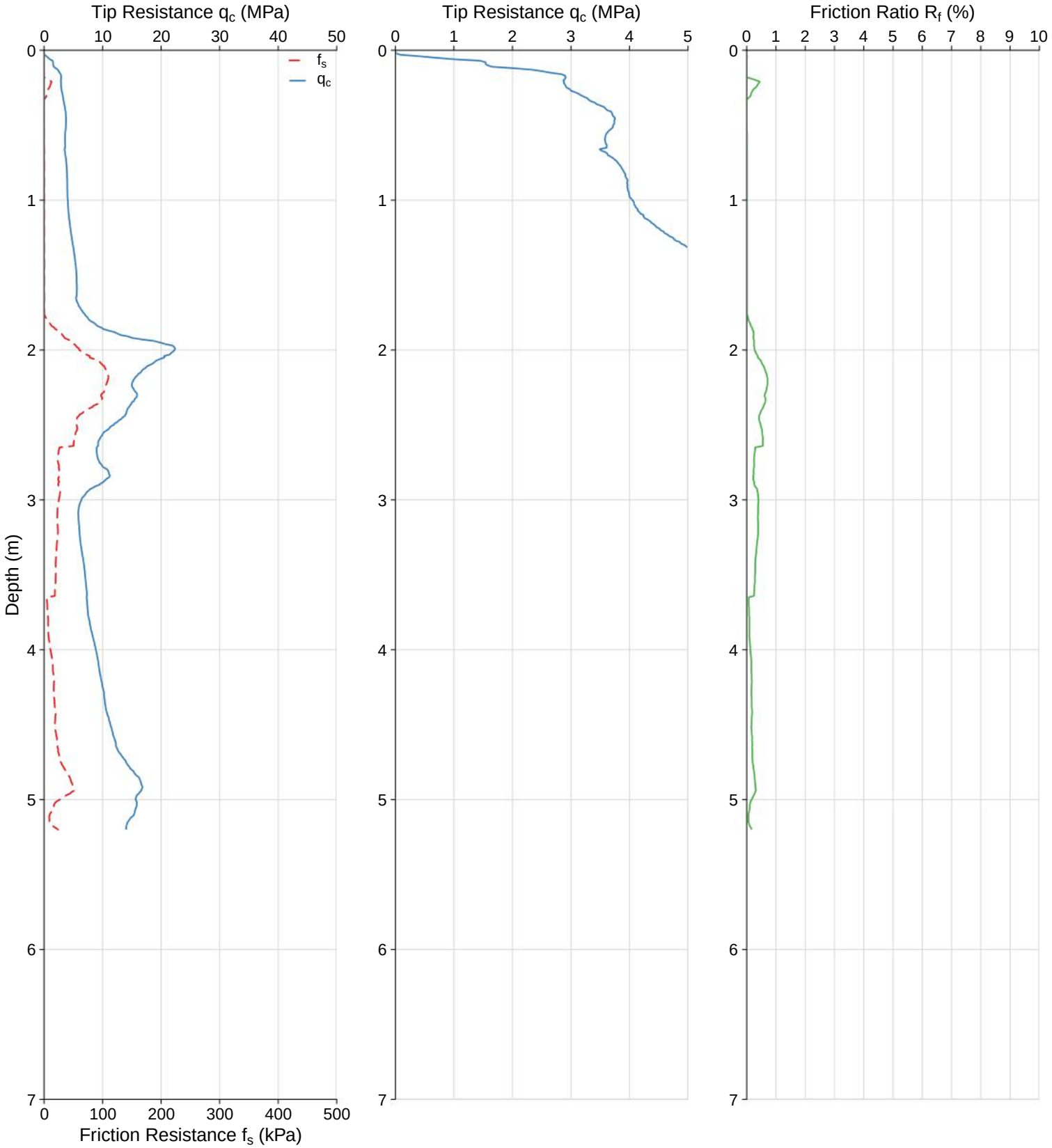
CPT ID:	CPT09	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

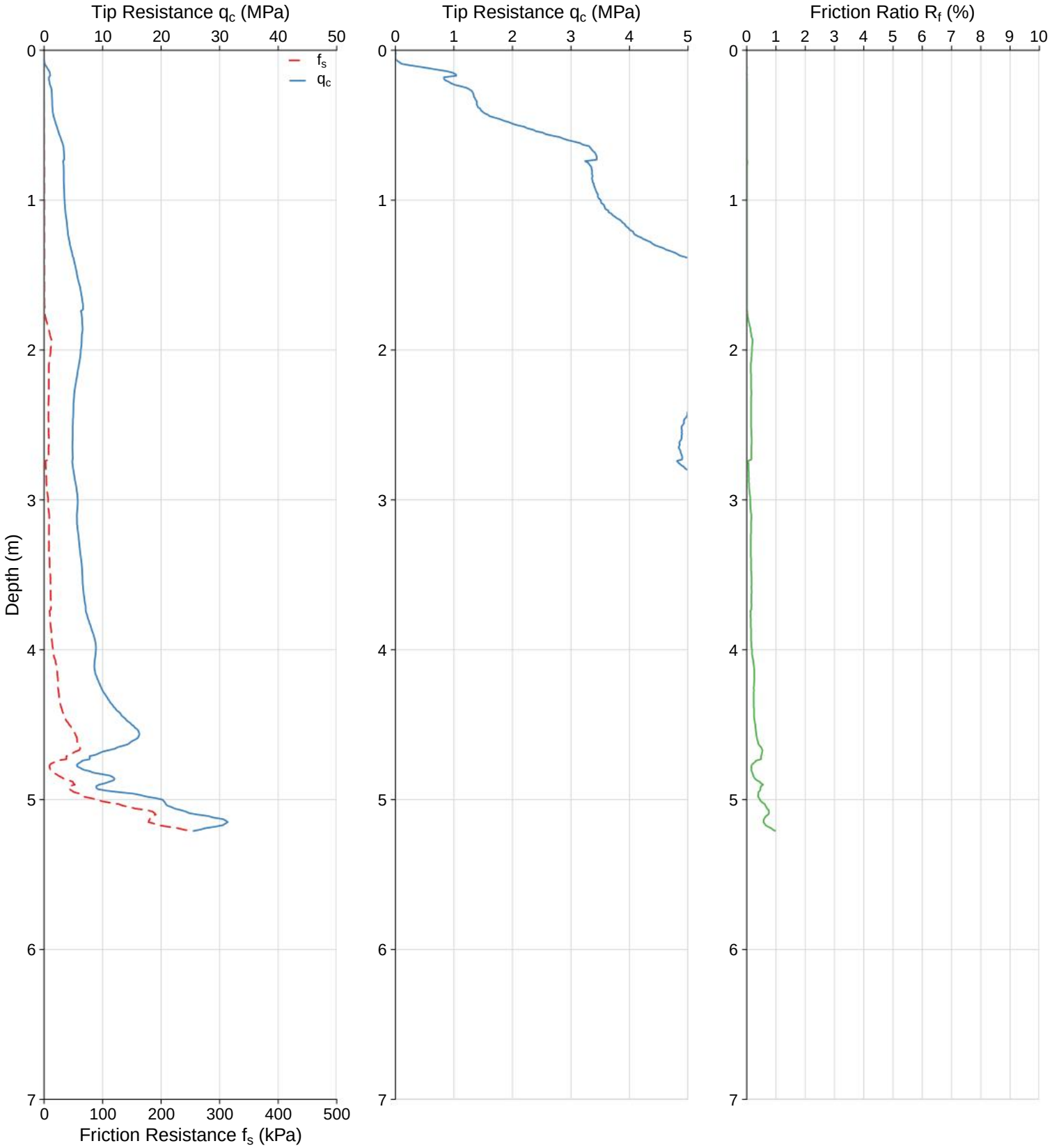
CPT ID:	CPT010	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

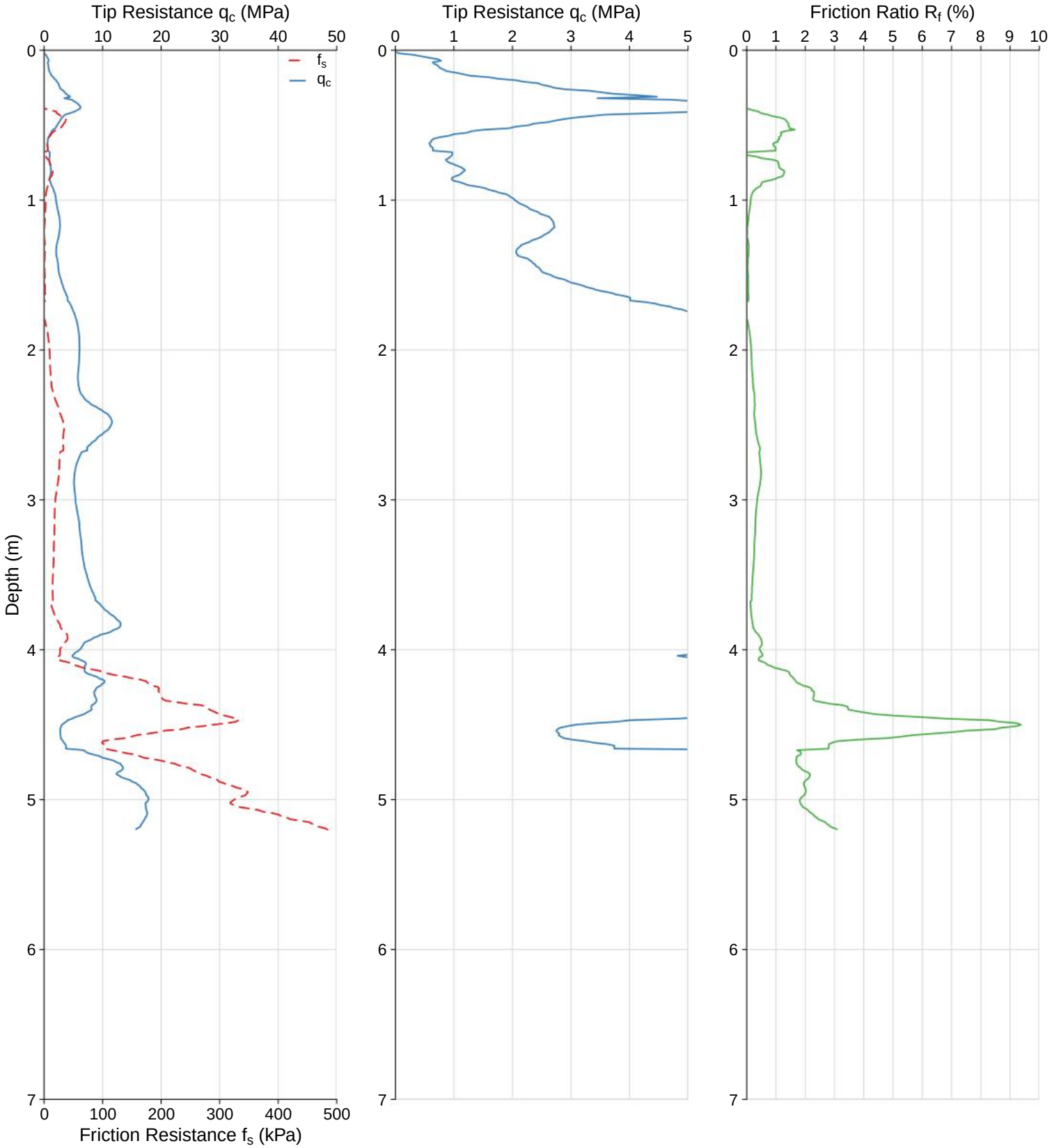
CPT ID:	CPT012	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

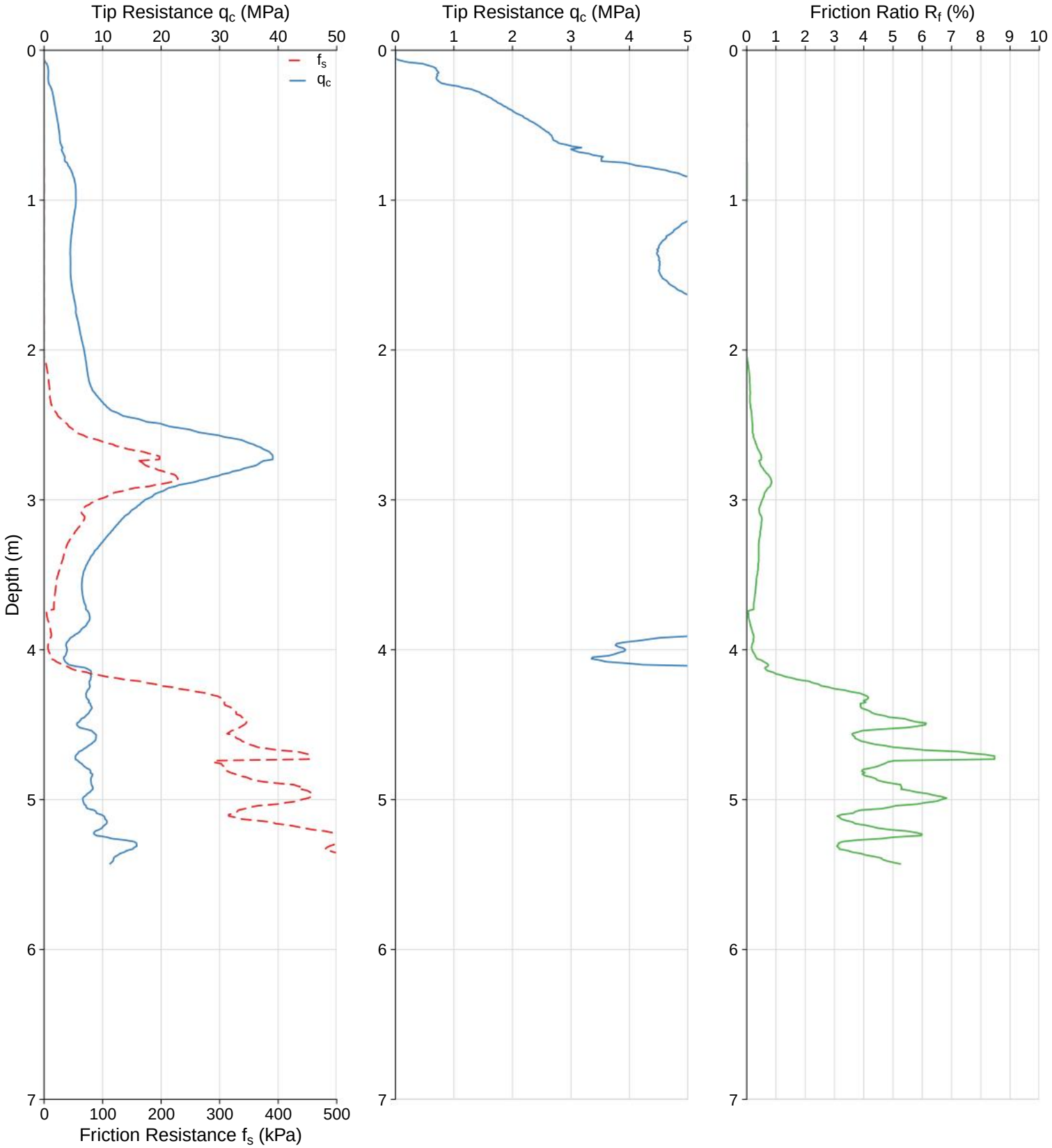
CPT ID:	CPT013	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Wet surface	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

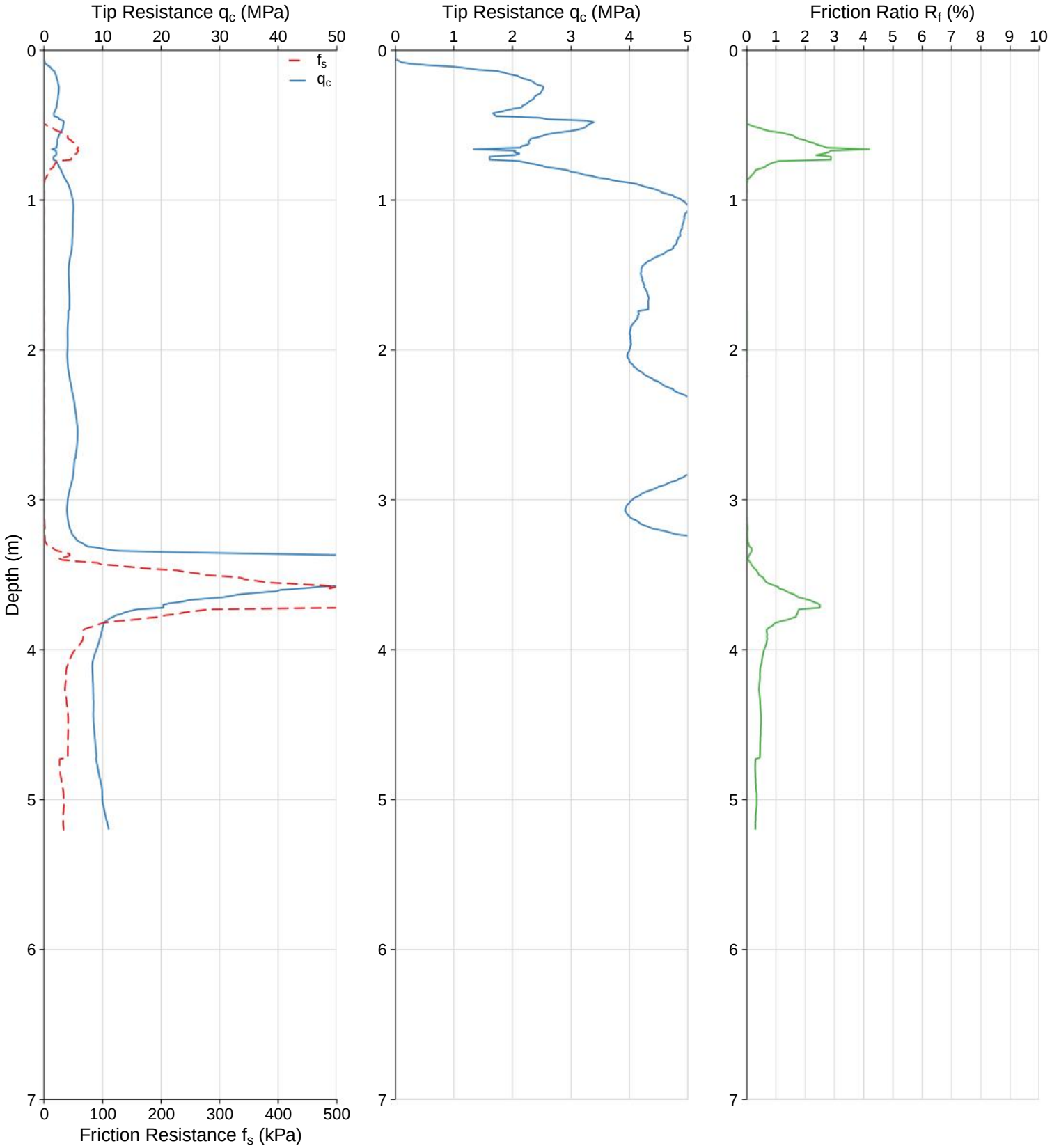
CPT ID:	CPT014	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

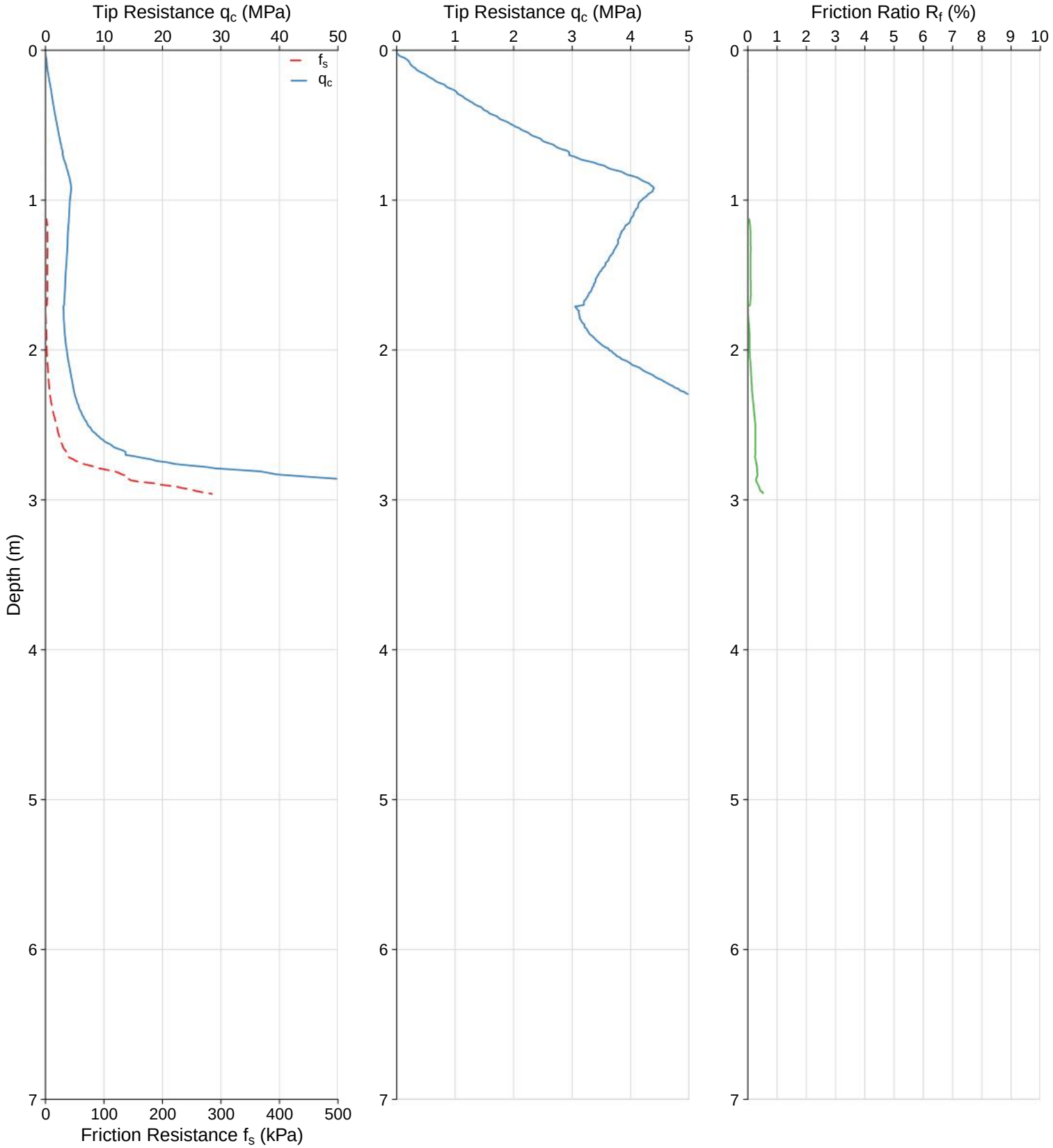
CPT ID:	CPT015	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

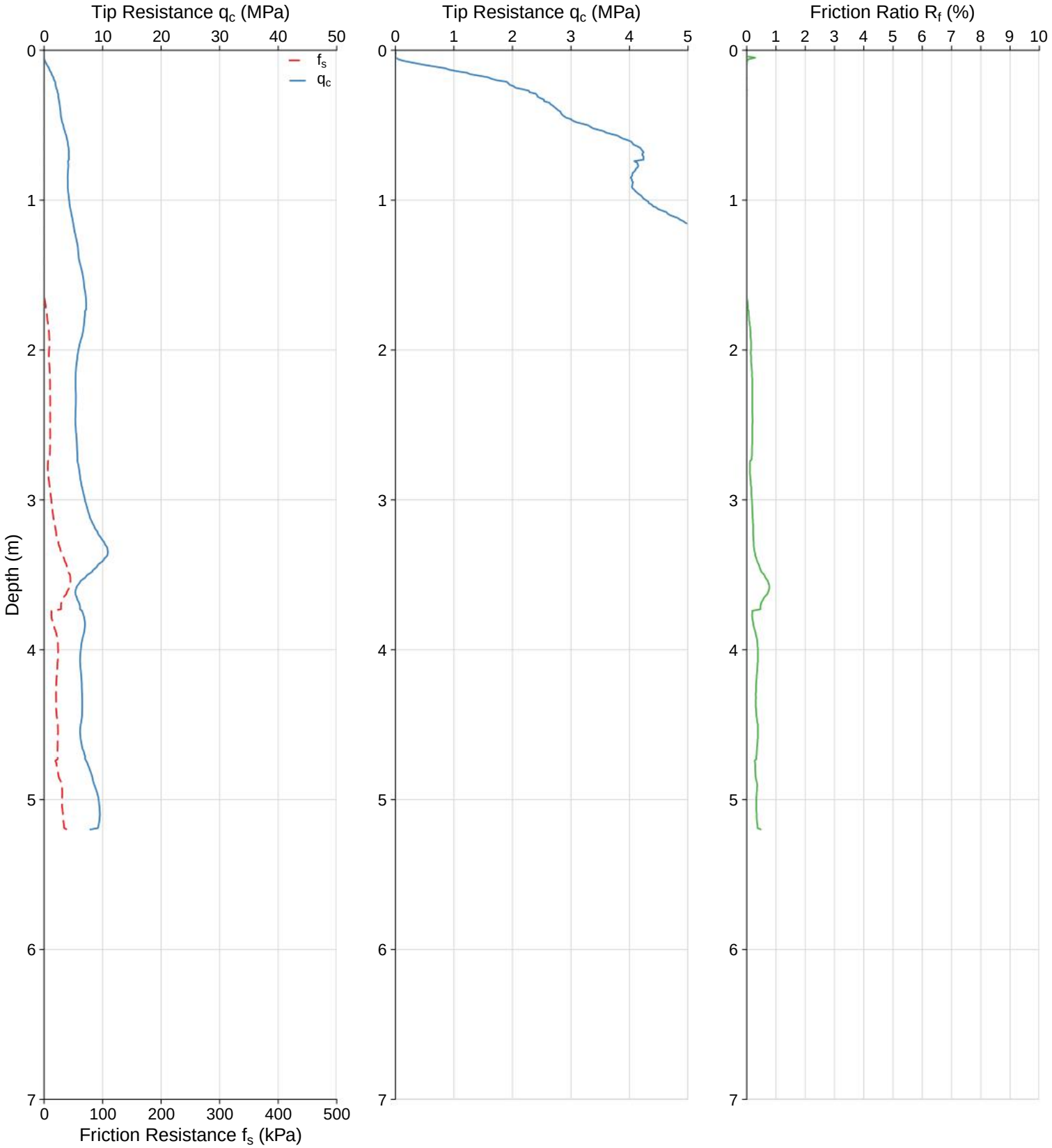
CPT ID:	CPT016	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 1.1m	**CO-ORDS:**	
TERMINATION:	Refused	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

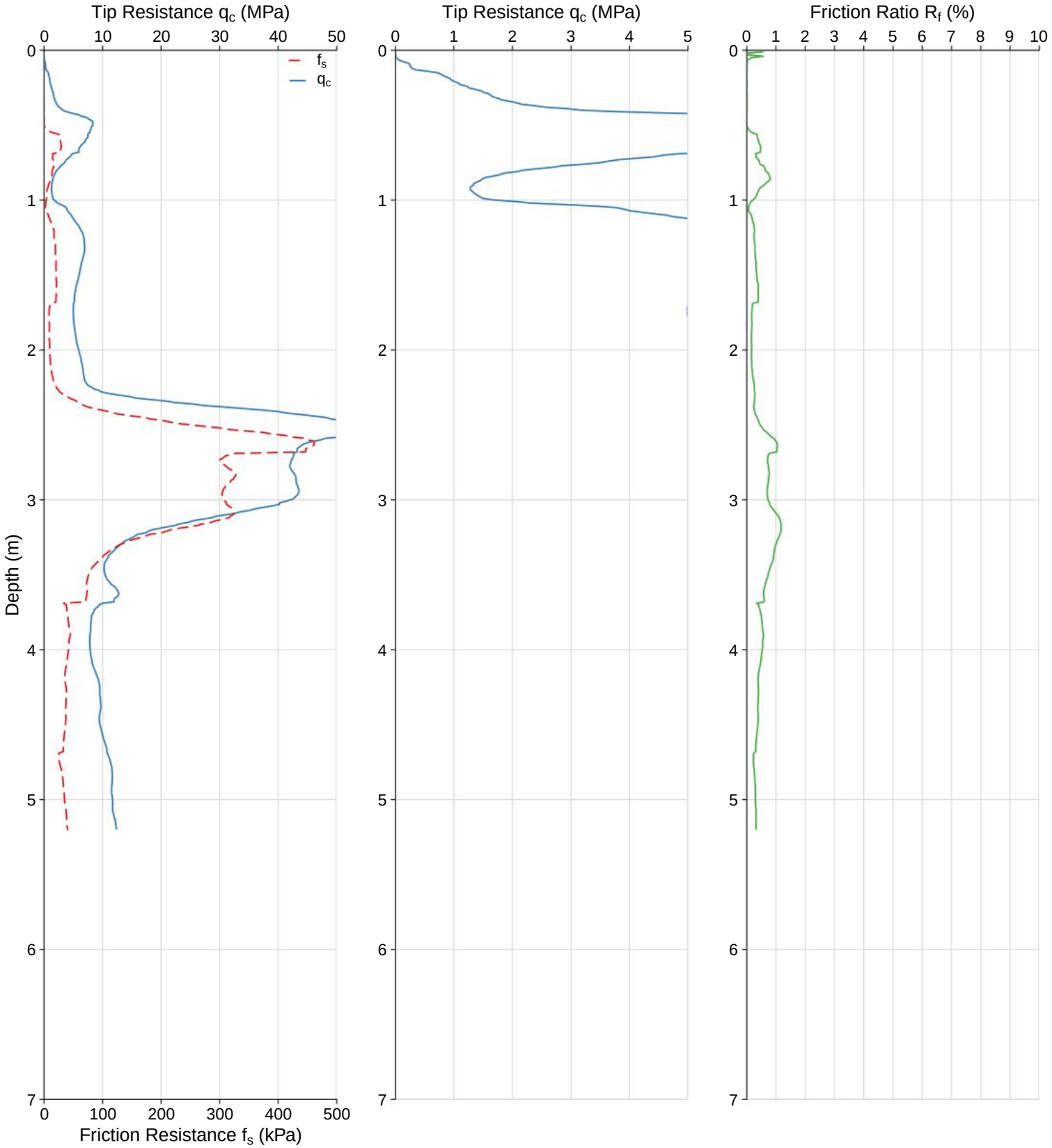
CPT ID:	CPT019	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

CPT ID:	CPT020	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

Appendix C: Machine Borehole Logs

METHOD OF SOIL DESCRIPTION
BOREHOLE AND TEST PIT REPORTS

GRAPHIC LOG & SOIL CLASSIFICATION SYMBOLS

Graphic	USCS	Soil Name
		FILL (various types)
		COBBLES / BOULDERS
	GP	GRAVEL (poorly graded)
	GW	GRAVEL (well graded)
	GC	Clayey GRAVEL
	GM	Silty GRAVEL
	SP	SAND (poorly graded)
	SW	SAND (well graded)
	SC	Clayey SAND

Graphic	USCS	Soil Name
	SM	Silty SAND
	ML	SILT (low liquid limit)
	MH	SILT (high liquid limit)
	CL	CLAY (low plasticity)
	CI	CLAY (medium plasticity)
	CH	CLAY (high plasticity)
	OL	Organic SILT (low liquid limit)
	OH	Organic SILT (high liquid limit)
	Pt	PEAT

NOTE: Dual classification given for soils with a fines content between 5% and 12%.

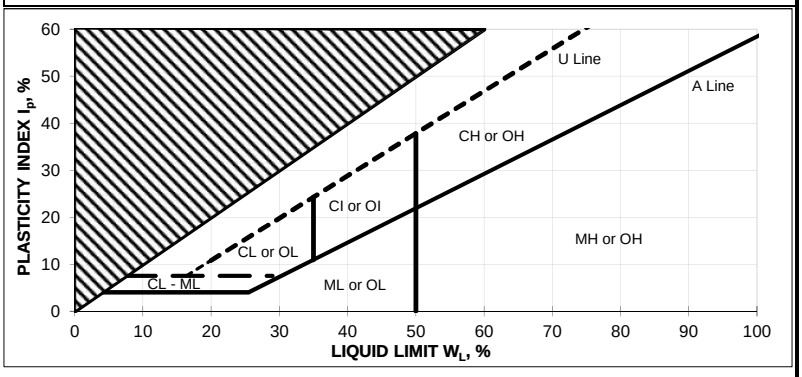
SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil descriptions are based on AS1726-2017. Material properties are assessed in the field by visual/tactile methods in combination with field and laboratory testing techniques (where used).

NOTE: AS 1726-2017 defines a fine grained soil where the total dry mass of fine fractions (<0.075 mm particle size) exceeds 35%.

PARTICLE SIZE		
Soil Name		**Particle Size (mm)**
BOULDERS		>200
COBBLES		63 to 200
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.3 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
FINES	SILT	0.002 to 0.075
	CLAY	<0.002

PLASTICITY - MODIFIED CASAGRANDE CHART - AS1726-2017



RESISTANCE TO EXCAVATION		
Symbol	**Term**	**Description**
VE	Very easy	All resistances are relative to the selected method of excavation
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION	
Symbol	**Term**
D	Dry
M	Moist
W	Wet

CEMENTATION	
Cementation	**Description**
Weakly cemented	Soil may be easily disaggregated by hand in air or water
Moderately cemented	Effort is required to disaggregate the soil by hand in air or water

CONSISTENCY		
Symbol	**Term**	**Undrained Shear Strength (kPa)**
VS	Very Soft	0 to 12
S	Soft	12 to 25
F	Firm	25 to 50
St	Stiff	50 to 100
VSt	Very Stiff	100 to 200
H	Hard	>200

ORGANIC SOILS	
Material	**Organic Content % of dry mass**
Inorganic soil	<2%
Organic soil	2% to 25%
Peat	>25%

DENSITY		
Symbol	**Term**	**Density Index (%)**
VL	Very Loose	<15
L	Loose	15 to 35
MD	Medium Dense	35 to 65
D	Dense	65 to 85
VD	Very Dense	>85

EXPLANATORY NOTES TO BE READ WITH BOREHOLE AND TEST PIT REPORTS

METHOD OF DRILLING OR EXCAVATION

AC	Air Core	E	Excavator	PQ3	PQ3 Core Barrel
AD/T	Auger Drilling with TC-Bit	EH	Excavator with Hammer	PT	Push Tube
AD/V	Auger Drilling with V-Bit	HA	Hand Auger	R	Ripper
AT	Air Track	HE	Hand Excavation	RR	Rock Roller
B	Bulldozer Blade	HQ3	HQ3 Core Barrel	SON	Sonic Rig
BH	Backhoe Bucket	N	Natural Exposure	SPT	Driven SPT
CT	Cable Tool	NMLC	NMLC Core Barrel	WB	Washbore
DT	Diatube	PP	Push Probe	X	Existing Excavation

SUPPORT

T	Timbering

PENETRATION EFFORT (RELATIVE TO THE EQUIPMENT USED)

VE	Very Easy	E	Easy	F	Firm
H	Hard	VH	Very Hard		

WATER

►	Water Inflow	▼	Water Level
◄	Water Loss (complete)		
◁	Water Loss (partial)		

SAMPLING AND TESTING

B	Bulk Disturbed Sample	P	Piston Sample
BLK	Block Sample	PBT	Plate Bearing Test
C	Core Sample	U	Undisturbed Push-in Sample
CBR	CBR Mould Sample		U50: 50 mm diameter
D	Small Disturbed Sample	SPT	Standard Penetration Test
ES	Environmental Soil Sample		Example: 3, 4, 5 N=9
EW	Environmental Water Sample		3,4,5: Blows per 150 mm
G	Gas Sample		N=9: Blows per 300 mm after
HP	Hand Penetrometer		150 mm seating interval
LB	Large Bulk Disturbed Sample	VS	Vane Shear; P = Peak
M	Mazier Type Sample		R = Remoulded (kPa)
MC	Moisture Content Sample	W	Water Sample

ROCK CORE RECOVERY

TCR = Total Core Recovery (%) $= \frac{CRL}{TCL} \times 100$

RQD = Rock Quality Designation (%) $= \frac{ALC>100}{TCL} \times 100$

TCL	Length of Core Run
CRL	Length of Core Recovered
ALC>100	Total Length of Axial Lengths of Core Greater than 100 mm Long

BOREHOLE: BH01

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, trace fines, trace organics (0.1)	M		0	
								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, trace fines				
0.5											0.5	
1									M		1	
1.5							SP				1.5	
2											2	
2.5									W		2.5	
3								(3.0)			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 2.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH02

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH02-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, brown, trace to with gravel, trace fines, trace organics	M		0	
								0.3				
0.5							SP/SM	SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, with fines, trace to with organics			0.5	
								0.9				
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, low plasticity clay, trace gravel, trace organics	W		1	
1.5											1.5	
2								2.0			2	
							SC	pale grey mottled dark grey				
								2.3				
2.5							SC/CL	Sandy CLAY/Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, low to medium plasticity clay			2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH03

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH03-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.1 SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey-white, trace fines				
0.5											0.5	
									M			
1							SP				1	
1.5											1.5	
2								2.0 grey			2	
							SP		W			
2.5								2.6 trace coffee rock gravel			2.5	
							SP					
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH04

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH04-01		SP/SM	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey mottled brown, trace to with fines, with organics 0.2	M		0	No Guelph testing due to high ground water
							SP/SM	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace to with fines, trace organics 0.7	W			
0.5							SC	Organic Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark brown, medium plasticity clay 1.4	W		0.5	
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, brown/grey, low plasticity clay 2.0	W		1	
1.5							SP-SC	Fine to coarse grained, sub-angular to sub-rounded, dark grey/white, with fines 3.0			1.5	
2											2	
2.5											2.5	
3											3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH04
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH05

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace fines, trace organics	M		0	
								0.3				
0.5							SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fines	W		0.5	
1								1.3			1	

Borehole terminated at 1.3 m, due to collapse
Groundwater encountered at 0.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH05
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH06

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH06-01		SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, brown-grey, trace fines, trace organics	M		0	
								0.3				
							SP/SC	SAND: fine to coarse grained, sub-angular to sub-rounded, brown-grey, with fines, trace organics	W			
								2.0				
							SP/SC	grey	W			
								2.6				
							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, grey, low plasticity clay	W			
								3.0				

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.4 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH06
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH09

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

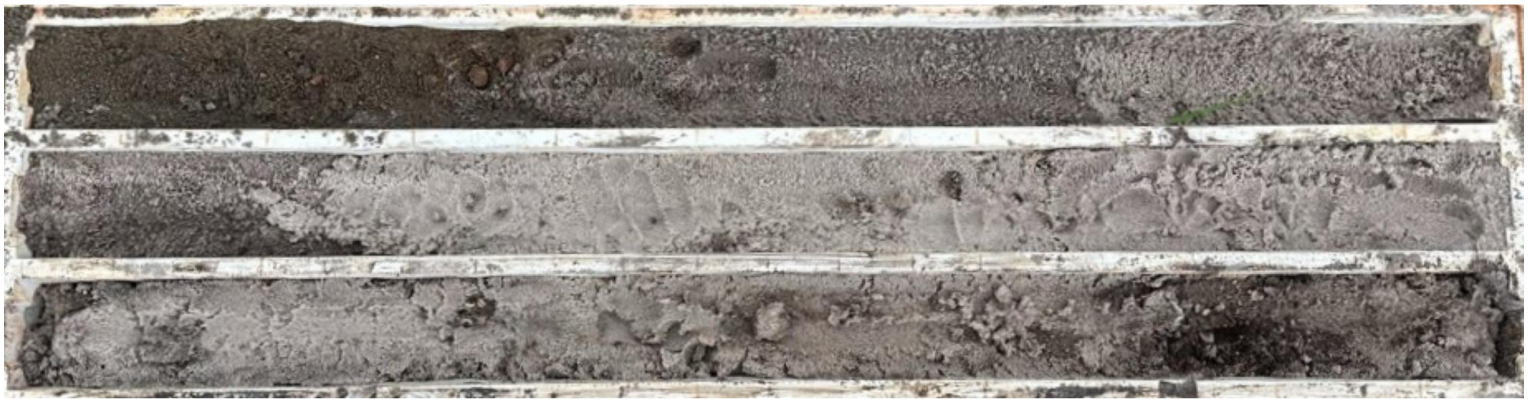
Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	FILL: TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, trace lateritic gravel, trace/with organics	M		0	
								0.3				
							SP	SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines	M		0.5	
0.5												
1								1.3			1	
							SP	pale grey	M			
1.5											1.5	
								2.0				
2							SP	pale grey mottled dark grey	W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH09
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH10

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.3				
0.5								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey/white, trace fines			0.5	
1				Bulk	BH10-01				M		1	
1.5							SP				1.5	
2									W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH10
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH11

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
				ASS	BH11/0.00			Grass 0.1			
				ASS	BH11/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, with fine to coarse grained gravel (up to 0.6 m) trace fines			
0.5				ASS	BH11/0.50			0.6	M	0.5	
				ASS	BH11/0.75		SP	becomes dark grey			
1			▼	ASS	BH11/1.00			1.1		1	
				ASS	BH11/1.25		SP	becomes fine to coarse grained, pale grey			
1.5	AD/V	E		ASS	BH11/1.50					1.5	
				ASS	BH11/1.75						
2				ASS	BH11/2.00				W	2	
				ASS	BH11/2.25						
2.5				ASS	BH11/2.50					2.5	
				ASS	BH11/2.75						
3				ASS	BH11/3.00			3.0		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH11
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH12/MW01

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH12/MW01/0.00		PT	PEAT: Fiberous, spongy, organic odour, dark brown, with sand	M	0	SUP Concrete	SUP: +0.68 Solid: 0-0.5 Screen: 0.5-3.0
				ASS	BH12/MW01/0.25						Bentonite Solid	Concrete:0-0.1 Bentonite: 0.1-0.4 Gravel: 0.4-3.0
	0.5			ASS	BH12/MW01/0.50			0.6		0.5		
				ASS	BH12/MW01/0.75		SP	Organic SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey				
	1			ASS	BH12/MW01/1.00					1		
				ASS	BH12/MW01/1.25			1.4				
	1.5			ASS	BH12/MW01/1.50		SP	SAND: fine to medium grained, sub-angular to sub-rounded, pale brown/grey, trace fines	W	1.5	Gravel Screen	
				ASS	BH12/MW01/1.75							
	2			ASS	BH12/MW01/2.00					2		
				ASS	BH12/MW01/2.25							
	2.5			ASS	BH12/MW01/2.50			2.6		2.5		
				ASS	BH12/MW01/2.75		SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, blue grey, low plasticity clay				
	3			ASS	BH12/MW01/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH12/MW01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH13

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH13/0.00			Grass (0.1)	M	0	
				ASS	BH13/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, trace fines			
0.5				ASS	BH13/0.50					0.5	
				ASS	BH13/0.75						
1				ASS	BH13/1.00				W	1	
				ASS	BH13/1.25						
1.5				ASS	BH13/1.50					1.5	
				ASS	BH13/1.75		SP	becomes fine to coarse grained (1.7)			
2				ASS	BH13/2.00			becomes pale brown/grey (2.0)		2	
				ASS	BH13/2.25						
2.5				ASS	BH13/2.50		SP			2.5	
				ASS	BH13/2.75						
3				ASS	BH13/3.00			(3.0)		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.9 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH13
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH14/MW03

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH14/MW03/0.00		SP	Gravelly SAND: sub-angular to sub-rounded, fine to medium grained sand, brown, rounded to sub-rounded, fine to medium grained gravel, trace fines	M	0	SUP Concrete	SUP: +0.65 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH14/MW03/0.25						Solid Bentonite	
	0.5			ASS	BH14/MW03/0.50					0.5		
				ASS	BH14/MW03/0.75			0.9				
	1			ASS	BH14/MW03/1.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace gravel (up to 1.5 m), trace fines		1		
				ASS	BH14/MW03/1.25							
	1.5			ASS	BH14/MW03/1.50			1.5		1.5		
				ASS	BH14/MW03/1.75		SP	becomes brown	W		Gravel Screen	
	2			ASS	BH14/MW03/2.00			2.0		2		
				ASS	BH14/MW03/2.25			Sandy CLAY: low plasticity, blue grey, sub-angular to sub-rounded, fine to coarse grained sand				
	2.5			ASS	BH14/MW03/2.50		CL			2.5		
				ASS	BH14/MW03/2.75							
	3			ASS	BH14/MW03/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.28 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH14/MW03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH15

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH15/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace organics, trace fines	M	0.5	
				ASS	BH15/0.25						
				ASS	BH15/0.50						
								0.7			
				ASS	BH15/0.75		SP	becomes grey			
1				ASS	BH15/1.00					1	
				ASS	BH15/1.25						
1.5				ASS	BH15/1.50					1.5	
				ASS	BH15/1.75						
								1.8			
								becomes fine to coarse grained	W		
2				ASS	BH15/2.00					2	
				ASS	BH15/2.25		SP				
2.5				ASS	BH15/2.50					2.5	
				ASS	BH15/2.75						
3				ASS	BH15/3.00			3.0		3	
								Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.1 m depth			

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH15
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH16/MW02

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH16/MW02/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace rootlets (up to 0.3 m), trace fines	M	0	SUP Concrete	SUP: +0.62 Solid: 0-0.5 Screen: 0.5-3.0
				ASS	BH16/MW02/0.25			0.3			Solid Bentonite	Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
	0.5			ASS	BH16/MW02/0.50		SP	becomes grey		0.5		
				ASS	BH16/MW02/0.75			0.7 becomes fine to coarse grained				
	1			ASS	BH16/MW02/1.00					1		
				ASS	BH16/MW02/1.25		SP					
	1.5			ASS	BH16/MW02/1.50					1.5		
				ASS	BH16/MW02/1.75				W		Gravel Screen	
	2			ASS	BH16/MW02/2.00			2.0 Gravelly SAND: sub-angular to sub-rounded, fine to medium grained, dark brown, angular to subangular, fine to coarse grained gravel, with coffee rock, trace/with fines		2		
				ASS	BH16/MW02/2.25							
	2.5			ASS	BH16/MW02/2.50		SP-SM			2.5		
				ASS	BH16/MW02/2.75							
	3			ASS	BH16/MW02/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.15 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH16/MW02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

Appendix D: Guelph Permeameter Test Results

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH01/G01

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	38	cm
H	Head of water above base	8	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	52		
0.5	40	12.00	24.00
1	30	10.00	20.00
1.5	20.5	9.50	19.00
2	10	10.50	21.00
2.5	0	10.00	20.00

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH02/G02

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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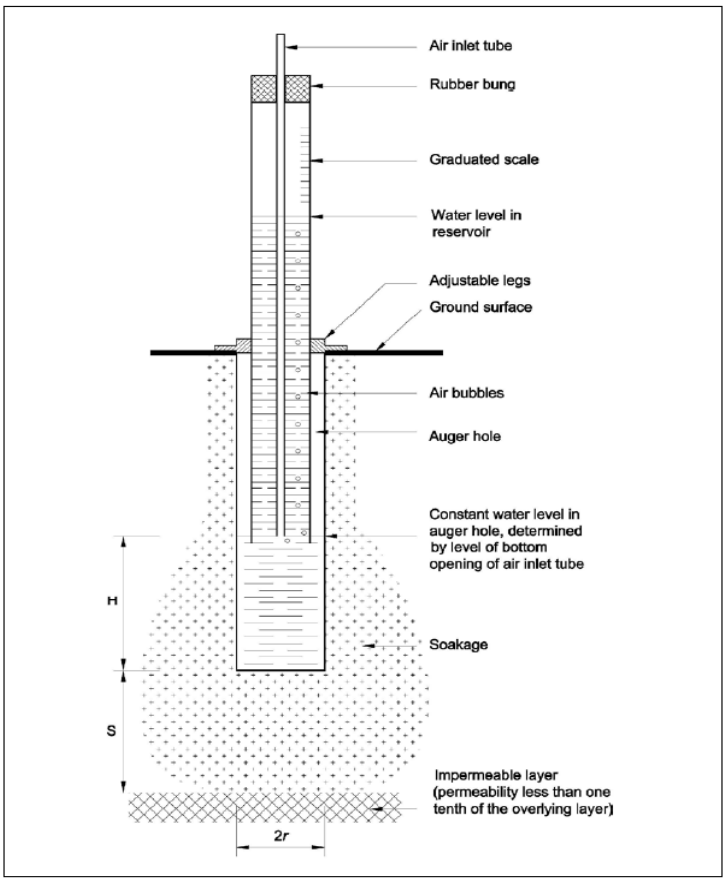
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	42	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	46.5		
2	45.5	1.00	0.50
4	42.5	3.00	1.50
6	41	1.50	0.75
8	39.5	1.50	0.75
10	36	3.50	1.75
12	34	2.00	1.00
14	32	2.00	1.00
16	29.8	2.20	1.10
AVERAGE - LAST 5 READINGS			1.12

Calculation

Steady State Flow	1.12	cm/min
Flow from reservoir (Q)	40.66	cm^3/min
K_{sat}	0.065	cm/min
K_{sat}	1.091E-05	m/s
K_{sat}	**0.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH03/G03

Spreadsheet author:		

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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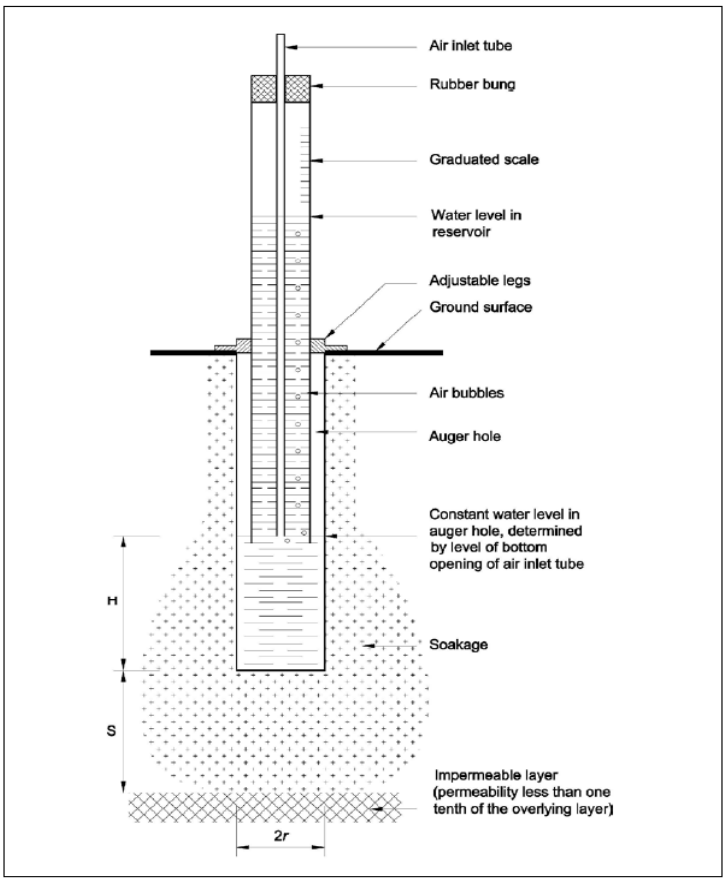
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	57	cm
H	Head of water above base	23	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	71		
0.33	66	5.00	15.15
0.66	59	7.00	21.21
1.33	45	14.00	20.90
1.66	38	7.00	21.21
1.99	28	10.00	30.30
2.33	21	7.00	20.59
2.66	11	10.00	30.30
2.99	1	10.00	30.30
		AVERAGE - LAST 5 READINGS	26.54

Calculation

Steady State Flow	26.54	cm/min
Flow from reservoir (Q)	963.47	cm^3/min
K_{sat}	0.628	cm/min
K_{sat}	1.047E-04	m/s
K_{sat}	**9.05**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH05/G05

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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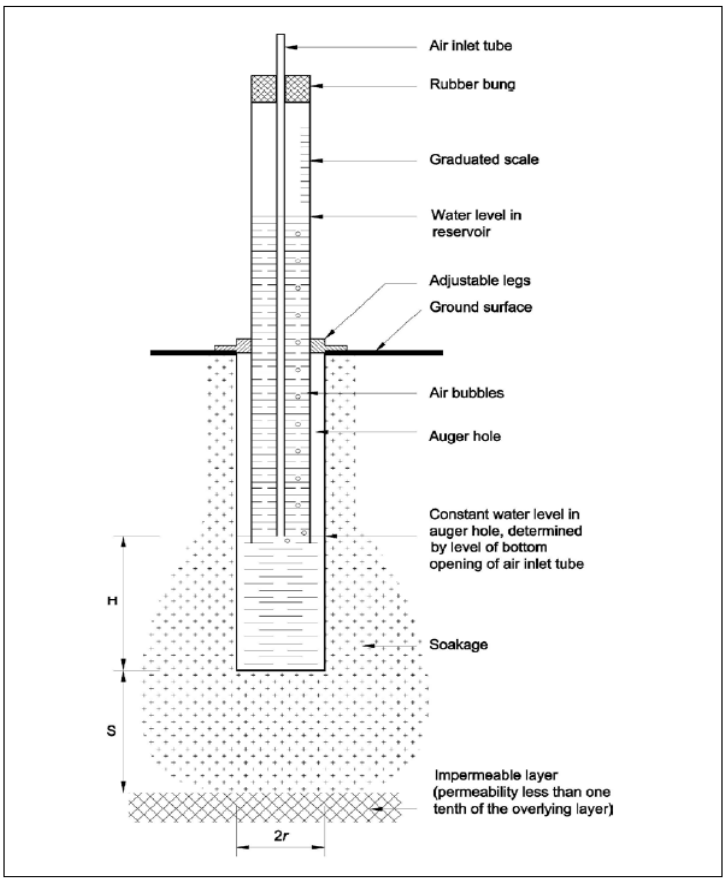
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	44	cm
H	Head of water above base	14	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	53.5		
5	49	4.50	0.90
10	45	4.00	0.80
15	41	4.00	0.80
20	38	3.00	0.60
25	35	3.00	0.60
30	31.5	3.50	0.70
AVERAGE - LAST 5 READINGS			0.70

Calculation

Steady State Flow	0.70	cm/min
Flow from reservoir (Q)	25.41	cm^3/min
K_{sat}	0.031	cm/min
K_{sat}	5.139E-06	m/s
K_{sat}	**0.44**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH09/G09

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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	Comment field
	Field not used
	Fixed field

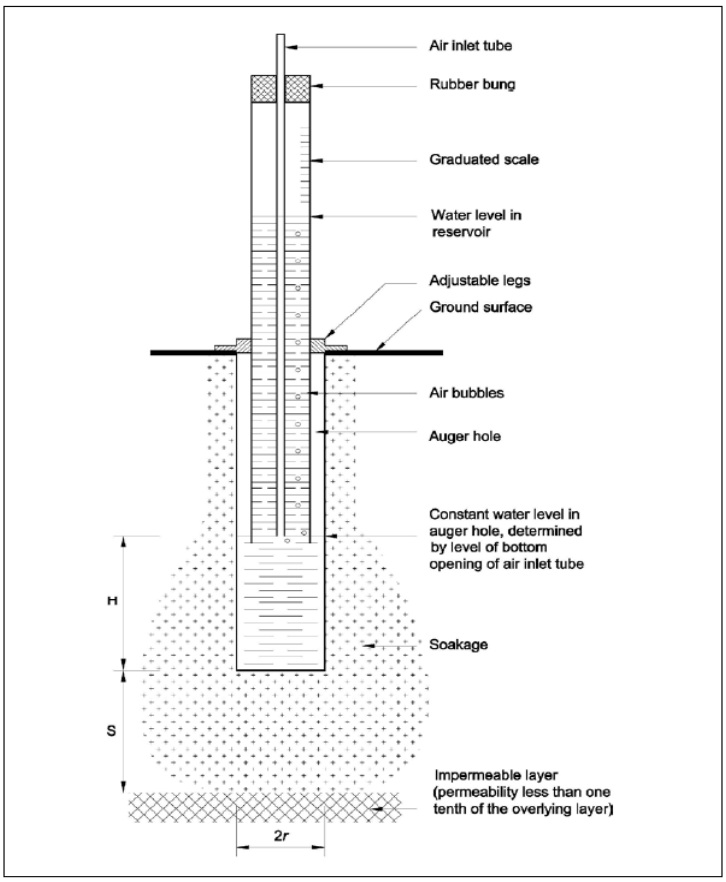
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	52	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	72.5		
1	62	10.50	10.50
2	52.5	9.50	9.50
3	46	6.50	6.50
4	38	8.00	8.00
5	28.5	9.50	9.50
6	23.6	4.90	4.90
7	14.5	9.10	9.10
8	8	6.50	6.50
9	1.5	6.50	6.50
AVERAGE - LAST 5 READINGS			7.30

Calculation

Steady State Flow	7.30	cm/min
Flow from reservoir (Q)	264.99	cm^3/min
K_{sat}	0.274	cm/min
K_{sat}	4.559E-05	m/s
K_{sat}	**3.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH10/G10

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
	Field not used
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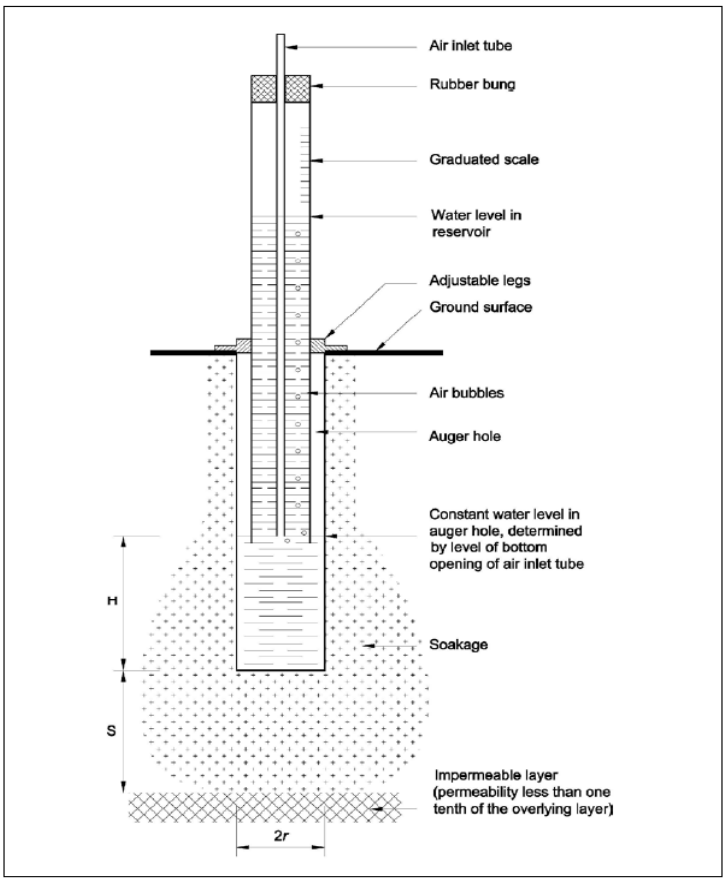
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	47	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	58		
1	53	5.00	5.00
2	50	3.00	3.00
3	44	6.00	6.00
4	40	4.00	4.00
5	36	4.00	4.00
6	32	4.00	4.00
		AVERAGE - LAST 5 READINGS	4.20

Calculation

Steady State Flow	4.20	cm/min
Flow from reservoir (Q)	152.46	cm^3/min
K_{sat}	0.245	cm/min
K_{sat}	4.090E-05	m/s
K_{sat}	**3.53**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH15/G07

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
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	Fixed field

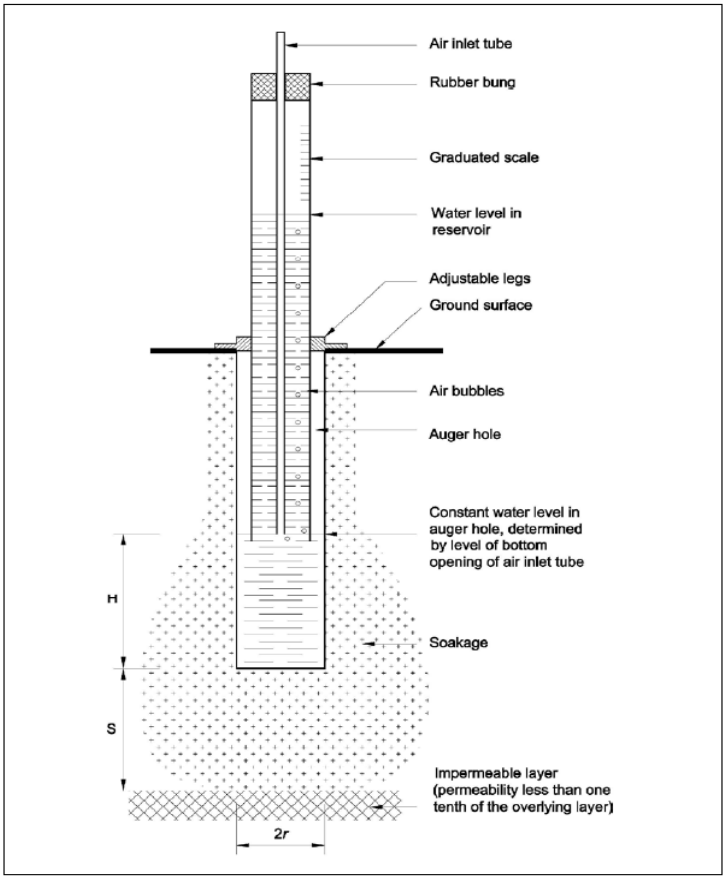
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	53	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	60		
0.5	48	12.00	24.00
1	38	10.00	20.00
1.5	31	7.00	14.00
2	20	11.00	22.00
2.5	12	8.00	16.00
3	2.5	9.50	19.00
AVERAGE - LAST 5 READINGS			18.20

Calculation

Steady State Flow	18.20	cm/min
Flow from reservoir (Q)	660.66	cm^3/min
K_{sat}	0.682	cm/min
K_{sat}	1.137E-04	m/s
K_{sat}	**9.82**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Appendix E: Water Balance

WA Site & Soil Evaluation
Irrigation area sizing

Please read the attached notes before using this spreadsheet

Water Balance for Zero Storage

Site Address:	**Hatch Court and Stirling Crescent, High Wycombe WA**		
Date:	Wednesday, 24 September 2025	**Assessor:**	Tyrone Mardesic

INPUT DATA

Design Wastewater Flow	Q	5,000	L/day	Based on maximum potential occupancy and derived from the Supplement to Regulation 29 and Schedule 9 - Wastewater system loading rates
Design Irrigation Rate	DIR	50.0	mm/day	Based on soil texture class/permeability and derived from Table M1 of AS/NZS 1547:2012
Nominated Land Application Area	L	108	m^2	[1]
Crop Factor	C	0.8-1.0	unitless	Estimates evapotranspiration as a fraction of pan evaporation; varies with season and crop type[2]
Rainfall Runoff Factor	RF	1.0	untiless	Proportion of rainfall that remains onsite and infiltrates, allowing for any runoff
Mean Monthly Rainfall Data		Midland		BoM Station and number
Mean Monthly Pan Evaporation Data		Upper Swan		BoM Station and number or data from the Evaporation Data for Western Australia Report (https://researchlibrary.agric.wa.gov.au/cgi/viewcontent.cgi?article=1058&context=rmtr

Parameter	Symbol	Formula	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Days in month	D		days	31	28	31	30	31	30	31	31	30	31	30	31	**365**
Rainfall	R		mm/month	10	13.1	16.9	40.3	100.1	159.1	162	122.1	74.1	46.7	22.3	10.7	**777.4**
Evaporation	E		mm/month	327	281	241	136	89	63	60	87	110	161	221	303	**2079**
Crop Factor	C		unitless	1.00	1.00	0.90	0.90	0.80	0.80	0.80	0.80	0.90	1.00	1.00	1.00	
OUTPUTS																
Evapotranspiration	ET	ExC	mm/month	327	281	217	122	71	50	48	70	99	161	221	303	**1970.5**
Percolation	B	DIRxD	mm/month	1550.0	1400	1550.0	1500.0	1550.0	1500.0	1550.0	1550.0	1500.0	1550.0	1500.0	1550.0	**18250.0**
Outputs		ET+B	mm/month	1877.0	1681	1766.9	1622.4	1621.2	1550.4	1598.0	1619.6	1599.0	1711.0	1721.0	1853.0	**20220.5**
INPUTS																
Retained Rainfall	RR	RxRF	mm/month	10	13.1	16.9	40.3	100.1	159.1	162	122.1	74.1	46.7	22.3	10.7	**777.4**
Applied Effluent	W	(QxD)/L	mm/month	1435.2	1296.3	1435.2	1388.9	1435.2	1388.9	1435.2	1435.2	1388.9	1435.2	1388.9	1435.2	**16898.1**
Inputs		RR+W	mm/month	1445.2	1309.4	1452.1	1429.2	1535.3	1548.0	1597.2	1557.3	1463.0	1481.9	1411.2	1445.9	**17675.5**
STORAGE CALCULATION																
Storage remaining from previous month			mm/month	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Storage for the month	S	(RR+W)-(ET+B)	mm/month	-431.8	-371.6	-314.8	-193.2	-85.9	-2.4	-0.8	-62.3	-136.0	-229.1	-309.8	-407.1	
Cumulative Storage	M		mm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Maximum Storage for Nominated Area	N		mm	0.00												
	V	NxL	L	0												
LAND AREA REQUIRED FOR ZERO STORAGE			m^2	83	84	89	95	102	108	108	104	98	93	88	84	

MINIMUM AREA REQUIRED FOR ZERO STORAGE: 108 m^2

CELLS

	Please enter data in blue cells
XX	Enter available Land Application Area
XX	Data in yellow cells is calculated by the spreadsheet, DO NOT ALTER THESE CELLS

NOTES

[1] This value should be the largest of the following: land application area required based on the most limiting nutrient balance or minimum area required for zero storage

[2] Values selected are suitable for grass in WA

Appendix F: Laboratory Test Results

WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.1, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.1	**Liquid Limit (%)**	**28**
AS 1289.3.2.1	**Plastic Limit (%)**	**23**
AS 1289.3.3.1	**Plasticity Index (%)**	**5**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**2.5**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen:**	**-**

Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

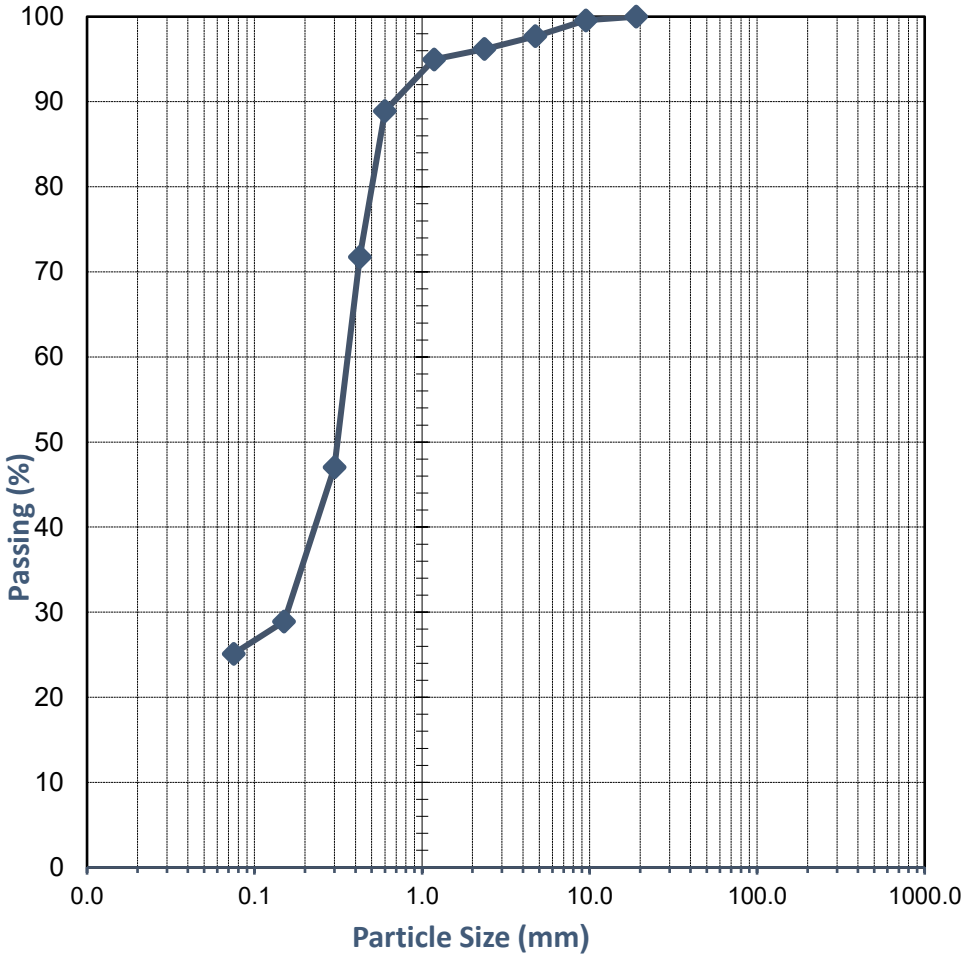
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	98
2.36	96
1.18	95
0.600	89
0.425	72
0.300	47
0.150	29
0.075	25



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

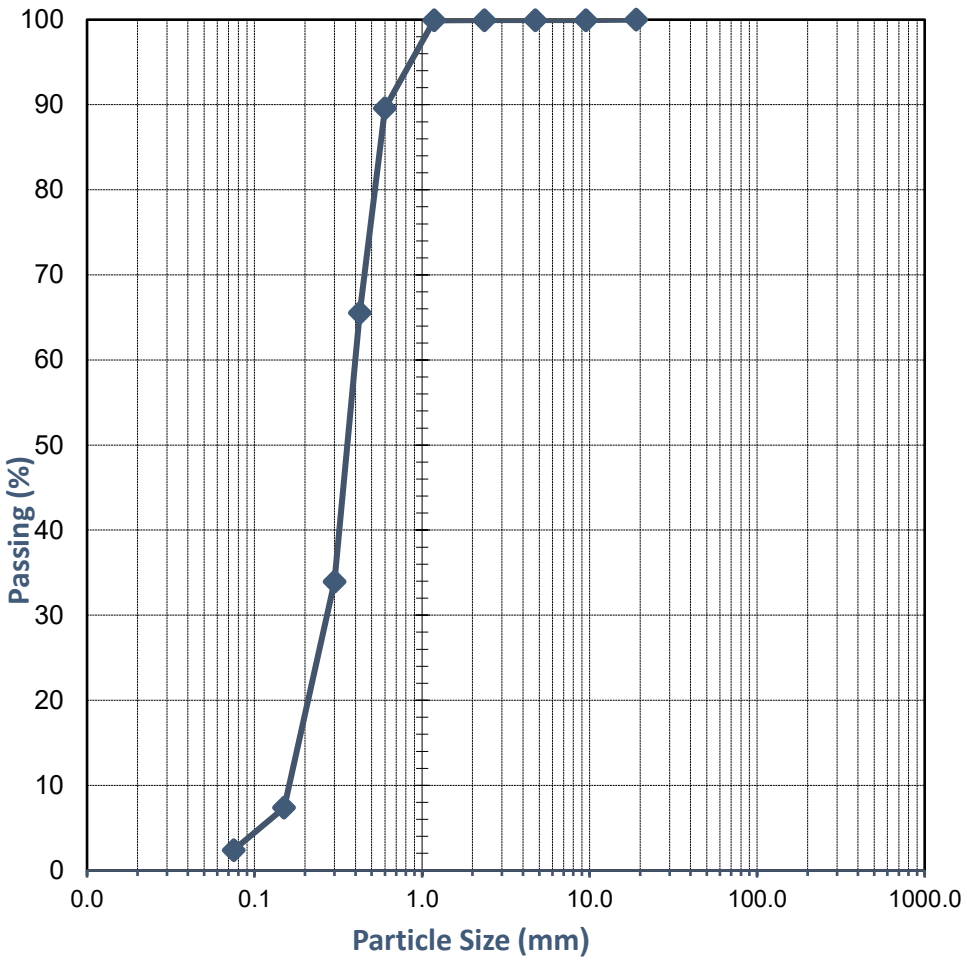
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15433_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15433
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH03 (1.5 - 1.8m)	*Date Tested:*	15/09 - 17/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	100
2.36	100
1.18	100
0.600	90
0.425	66
0.300	34
0.150	7
0.075	2



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.2, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.2	**Liquid Limit (%)**	**46**
AS 1289.3.2.1	**Plastic Limit (%)**	**40**
AS 1289.3.3.1	**Plasticity Index (%)**	**6**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**3.0**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen**	**-**

Approved Signatory:

Name: Danielle Reynolds

Date: 18/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

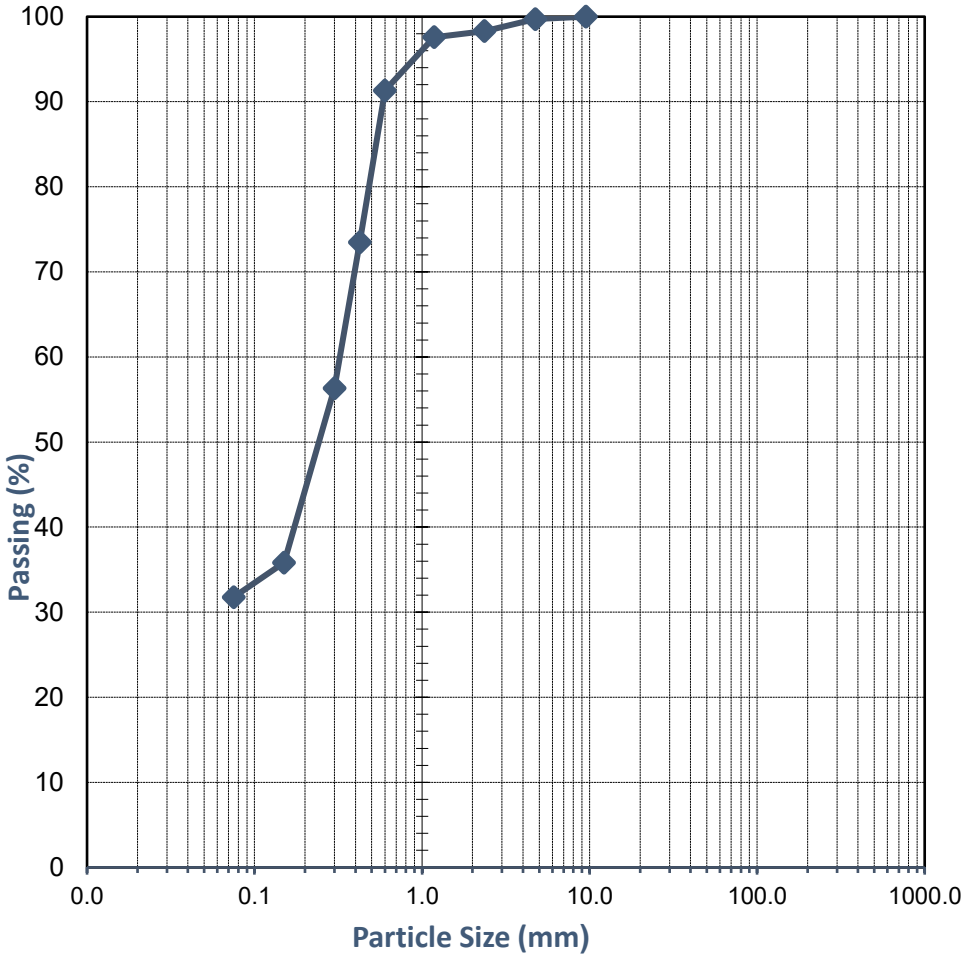
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	98
1.18	98
0.600	91
0.425	73
0.300	56
0.150	36
0.075	32



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

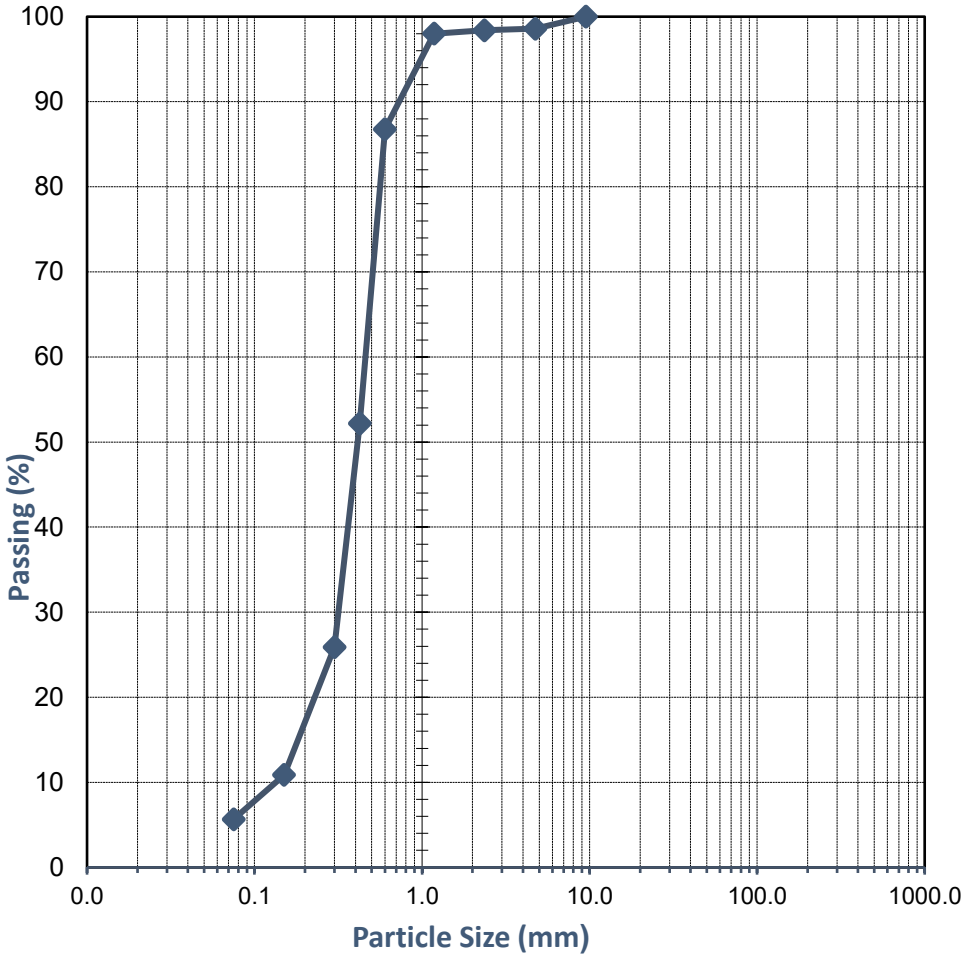
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15435_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15435
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH06 (0.6 - 1.0m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	99
2.36	98
1.18	98
0.600	87
0.425	52
0.300	26
0.150	11
0.075	6



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

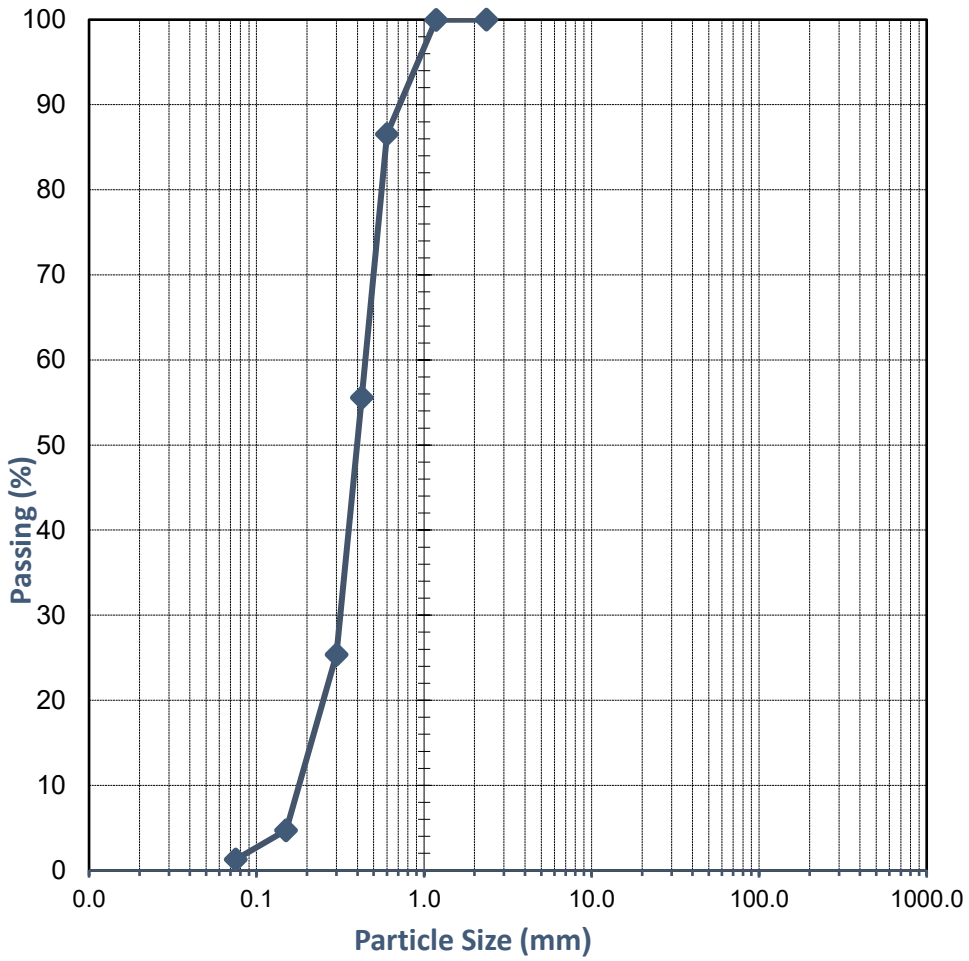
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15436_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15436
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH10 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	
2.36	100
1.18	100
0.600	87
0.425	56
0.300	25
0.150	5
0.075	1



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

NATA **Accreditation No. 20599**
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SOIL | AGGREGATE | CONCRETE | CRUSHING

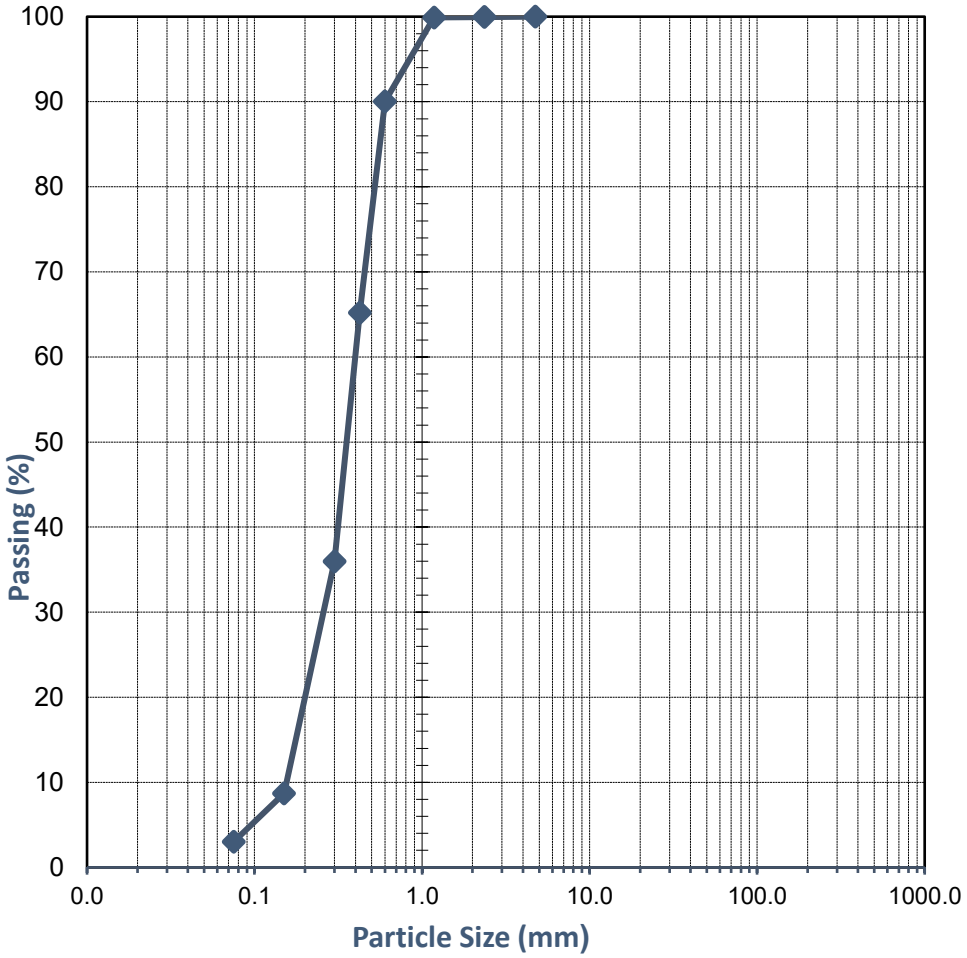
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15437_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15437
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G07 (0.5 - 0.6m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	100
2.36	100
1.18	100
0.600	90
0.425	65
0.300	36
0.150	9
0.075	3



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

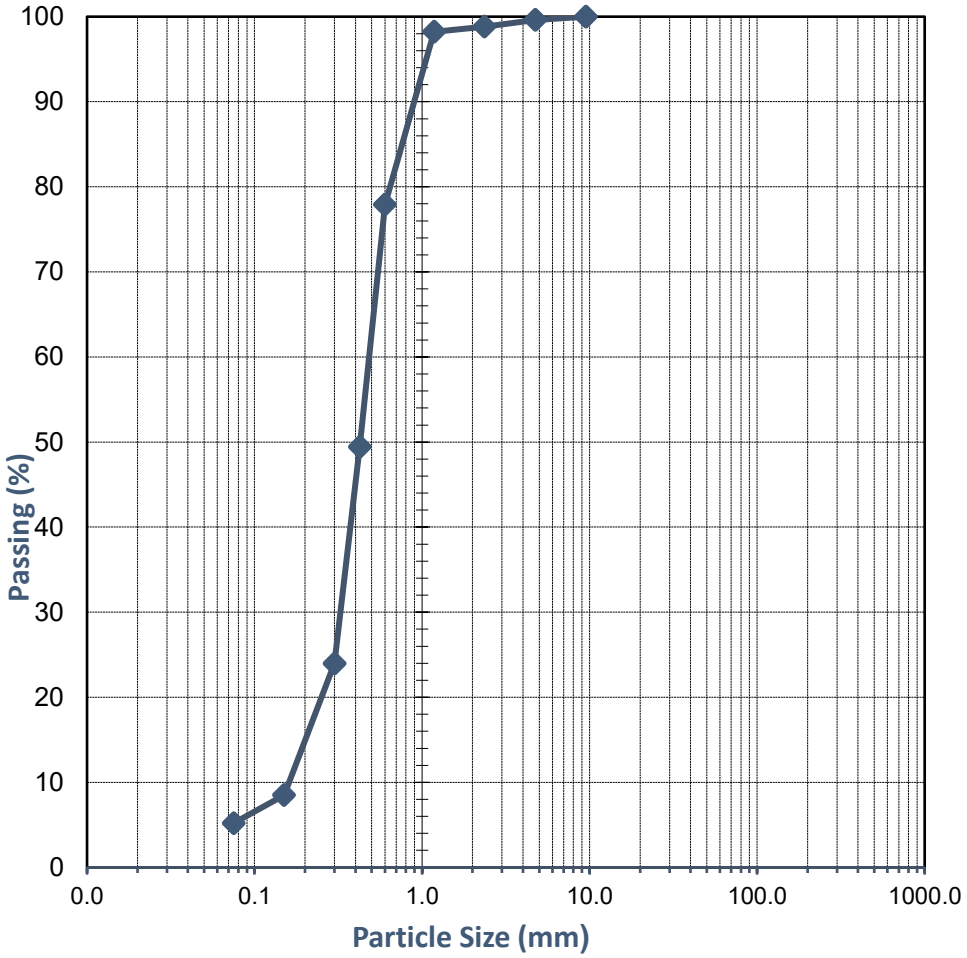
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15438_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15438
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G10 (0.4 - 0.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	99
1.18	98
0.600	78
0.425	49
0.300	24
0.150	8
0.075	5



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

NATA **Accreditation No. 20599**
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WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.4.1.1

Client:	Dynamic Planning and Developments	*Ticket No.*	C597
Client Address:	-	*Report No.*	WC25.779-782_1_OMC
Project:	Proposed HCLIA	*Sample No.*	WC25.779-782
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	Not Specified
Sample Identification:	Various - see below	*Date Tested:*	16/09/2025 - 17/09/2025

TEST RESULTS - Organic Matter Content of Soil - Normal Method

Sampling Method: **Sampled by Client, Tested as Received**

Sample Number	Sample Identification	Material Description	Organic Matter (%)
WC25.779	BH04 (1 - 1.4m)	Sandy Silt	10.7
WC25.780	BH06 (0.6 - 1.0m)	Sand	1.2
WC25.781	G07 (0.5 - 0.6m)	Sand	0.4
WC25.782	G10 (0.4 - 0.5m)	Sand	1.1

Comments:

Approved Signatory:

Name: Courtney Watt

Date: 18/September/2025

NATA WORLD RECOGNISED ACCREDITATION

Accreditation No. 20599
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www.mpl.com.au

Certificate of Analysis PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Contact	Laboratory
Address	235 Bank Street, WELSHPOOL, WA, 6101

Sample Details

Your Reference	S18630 / Proposed HCLIA
Number of Samples	5 Soil
Date Samples Received	12/09/2025
Date Instructions Received	12/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	23/09/2025
Date of Issue	19/09/2025

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Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Lien Tang, Assistant Operations Manager Lucas Yii, Inorganics Team Leader Varsha Ho Wing, Inorganics and Metals Supervisor
Laboratory Manager	Michael Kubiak

Certificate of Analysis PGI0989

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGI0989-01	WG25.15432 / BH02 (1-1.5m)	Soil	12/09/2025	12/09/2025
PGI0989-02	WG25.15434 / BH04 (1-1.4m)	Soil	12/09/2025	12/09/2025
PGI0989-03	WG25.15435 / BH06 (0.6-1.0m)	Soil	12/09/2025	12/09/2025
PGI0989-04	WG25.15437 / G07 (0.5-0.6m)	Soil	12/09/2025	12/09/2025
PGI0989-05	WG25.15438 / G10 (0.4-0.5m)	Soil	12/09/2025	12/09/2025

Certificate of Analysis PGI0989

Inorganics - General Physical Parameters (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
pH	pH units		8.4	4.8	7.3	7.8	7.7
Electrical Conductivity	µS/cm	2.0	300	1000	110	14	73

Certificate of Analysis PGI0989

PBI/PRI (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
Phosphorus Retention Index	-		21	200	4.0	0.50	1.5

Method Summary

Method ID	Methodology Summary
AGRI-003_PRI	Phosphorous Retention index (PRI) is the ratio of adsorbed phosphorus to the equilibrium concentration. Phosphorus is extracted using KCl and determined colourimetrically. Result value is used to calculate PRI as per Allen and Jefferey.
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed. Blanks may yield EC readings >1µS/cm, this is likely due to adsorption of Carbon Dioxide while the blank sample is sat on the instrument autosampler prior to analysis. The values are generally insignificant (<5µS/cm) compared to most actual sample conductivities.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from the latest "Australian Drinking Water Guidelines", published by NHMRC. No guideline values have been set for Total Coliforms in drinking water. Increased concentrations should be investigated. Total Coliforms are not considered useful as indicators of the presence of faecal contamination.

Where we have provided guideline values eg. ADWG Health Value, it is the responsiblity of the reader to decide if the water is fit for consumption. Please note that the tests we have conducted are just a selection of common tests to give you a general idea of drinking water quality. There are many other tests included in the ADWG that we have not tested for.

Data Quality Assessment Summary PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Your Reference	S18630 / Proposed HCLIA
Date Issued	19/09/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary PGI0989

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
EC | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
pH | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
PRI | Soil	1-5	12/09/2025	16/09/2025	18/09/2025	Yes

Quality Control PGI0989

INORG-001|Inorganics - General Physical Parameters (Soil) | Batch BGI2590

Analyte	Units	PQL	Blank	DUP1 PGI0989-03 Samp | QC | RPD %	LCS %
pH	pH units		5.9	7.3 | 7.5 | 2.43	102
Electrical Conductivity	µS/cm	2.0	<2.0	108 | 108 | 0.00	98.4

AGRI-003_PRI|PBI/PRI (Soil) | Batch BGI2709

Analyte	Units	PQL	Blank	DUP1 PGI0989-01 Samp | QC | RPD %	LCS %
Phosphorus Retention Index	-		0.00	20.5 | 20.3 | 1.08	75.6

Understanding your Report

1. EXPECTATIONS OF THE REPORT

The following sections have been prepared to clarify what is and is not provided in your report. It is intended to inform you of what your realistic expectations of this report should be and how to manage your risks associated with the conditions on site.

Geotechnical engineering and environmental science are less exact than other engineering and scientific disciplines. We include this information to help you understand where our responsibilities begin and end. You should read and understand this information. Please contact us if you do not understand the report or this explanation. We have extensive experience in a wide variety of projects and we can help you to manage your risk.

2. THIS REPORT RELATES TO PROJECT-SPECIFIC CONDITIONS

This report was developed for a unique set of project-specific conditions to meet the needs of the nominated client. It took into account the following:

- the project objectives as we understood them and as described in this report;
- the specific site mentioned in this report; and
- the current and proposed development at the site.

It should not be used for any purpose other than that indicated in the report. You should not rely on this report if any of the following conditions apply:

- the report was not written for you;
- the report was not written for the site specific to your development;
- the report was not written for your project (including a development at the correct site but other than that listed in the report); or
- the report was written before significant changes occurred at the site (such as a development or a change in ground conditions).

You should always inform us of changes in the proposed project (including minor changes) and request an assessment of their impact.

Where we are not informed of developments relevant to your report, we cannot be held responsible or liable for problems that may arise as a consequence.

Where design is to be carried out by others using information provided by us, we recommend that we be involved in the design process by being engaged for consultation with other members of the project team. Furthermore, we recommend that we be able to review work produced by other members of the project team that relies on information provided in our report.

3. DATA PROVIDED BY THIRD PARTIES

Where data is provided by third parties, it will be identified as such in our reports. We necessarily rely on the completeness and accuracy of data provided by third parties in order to draw conclusions presented in our reports. We are not responsible for omissions, incomplete or inaccurate data associated with third party data, including where we have been requested to provide advice in relation to field investigation data provided by third parties.

4. SOIL LOGS

Our reports often include logs of intrusive and non-intrusive investigation techniques prepared by Galt. These logs are based on our interpretation of field data and laboratory results. The logs should only be read in conjunction with the report they were issued with and should not be re-drawn for inclusion in other documents not prepared by us.

5. THIRD PARTY RELIANCE

We have prepared this report for use by the client. This report must be regarded as confidential to the client and the client's professional advisors. We do not accept any responsibility for contents of this document from any party other than the nominated client. We take no responsibility for any damages suffered by a third party because of any decisions or actions they may make based on this report. Any reliance or decisions made by a third party based on this report are the responsibility of the third party and not of us.

6. CHANGE IN SUBSURFACE CONDITIONS

The recommendations in this report are based on the ground conditions that existed at the time when the study was undertaken. Changes in ground conditions can occur in numerous ways including anthropogenic events (such as construction or contaminating activities on or adjacent to the site) or natural events (such as floods, groundwater fluctuations or earthquakes). We should be consulted prior to use of this report so that we can comment on its reliability. It is important to note that where ground conditions have changed, additional sampling, testing or analysis may be required to fully assess the changed conditions.

7. SUBSURFACE CONDITIONS DURING CONSTRUCTION

Practical constraints mean that we cannot know every minute detail about the subsurface conditions at a particular site. We use professional judgement to form an opinion about the subsurface conditions at the site. Some variation to our evaluated conditions is likely and significant variation is possible. Accordingly, our report should not be considered as final as it is developed from professional judgement and opinion.

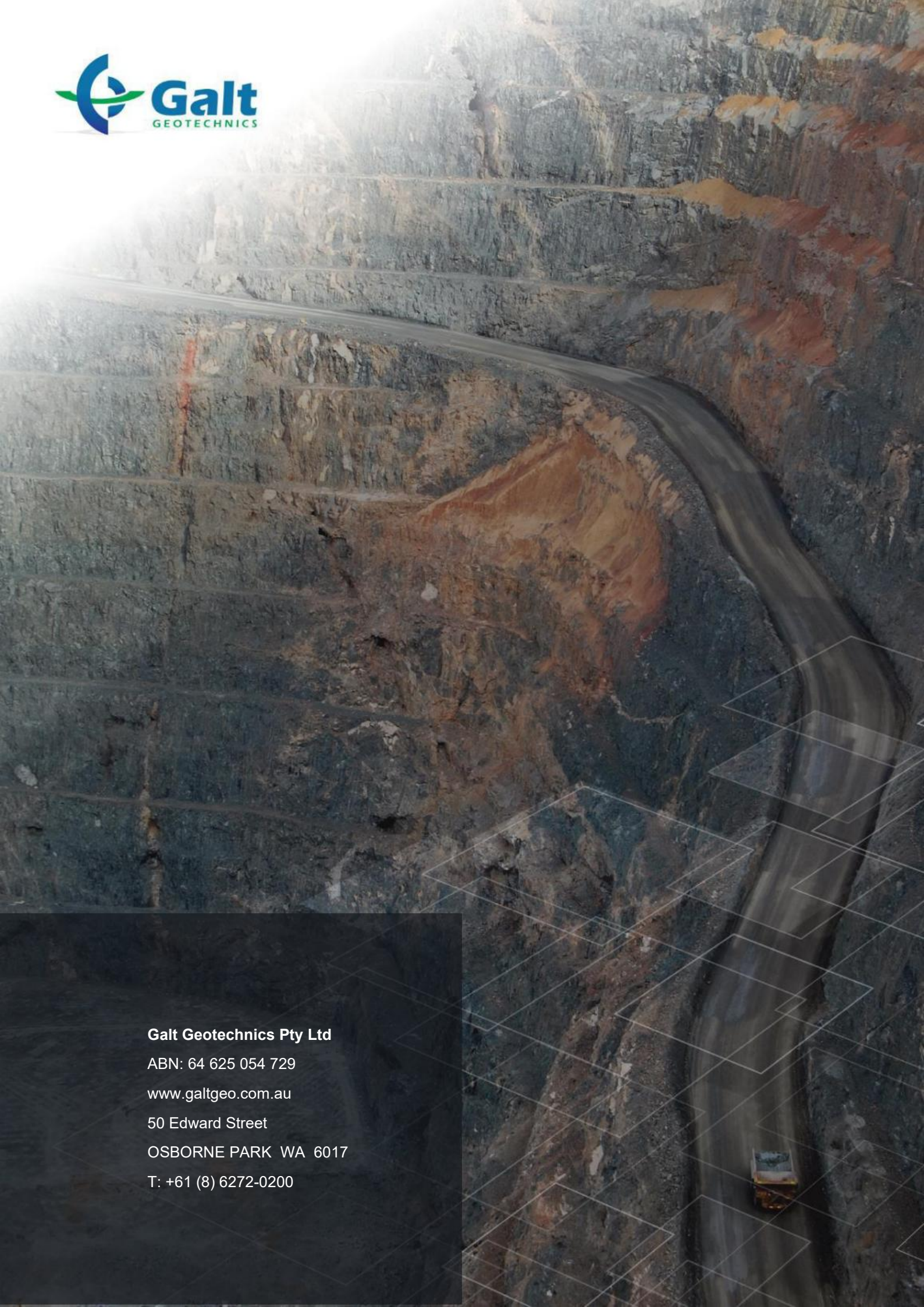
The most effective means of dealing with unanticipated ground conditions is to engage us for construction support. We can only finalise our recommendations by observing actual subsurface conditions encountered during construction. We cannot accept liability for a report's recommendations if we cannot observe construction.

8. ENVIRONMENTAL AND GEOTECHNICAL ISSUES

Unless specifically mentioned otherwise in our report, environmental considerations are not addressed in geotechnical reports. Similarly, geotechnical issues are not addressed in environmental reports. The investigation techniques used for geotechnical investigations can differ from those used for environmental investigations. It is the client's responsibility to satisfy themselves that geotechnical and environmental considerations have been taken into account for the site.

Geotechnical advice presented in a Galt Environmental report has been provided by Galt Geotechnics under a sub-contract agreement. Similarly, environmental advice presented in a Galt Geotechnics report has been provided by Galt Environmental under a sub-contract agreement.

Unless specifically noted otherwise, no parties shall draw any inferences about the applicability of the Western Australian state government landfill levy from the contents of this document.



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APPENDIX 5

Infrastructure and Servicing Strategy

Report Name: HATCH COURT AND STIRLING CRESCENT LIGHT INDUSTRIAL AREA SERVICING REPORT

Project No: PC25100

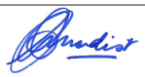
Project Title: Engineering Services Report



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Prepared by:	Dinura Ranatunga
Position:	Civil Engineer
Signed:	
Date:	20/02/2026

Approved by:	Enzo Biagioni-Froudist
Position:	Principal Civil Engineer
Signed:	
Date:	20/02/2026

Revision	Description	Author	Checked	Approved	Date
A	First issue	DR	EBF	EBF	20/02/2026
B	Second issue	DR	EBF	EBF	01/05/2026
C	Third issue	DR	EBF	EBF	12/06/2026
D	Fourth issue	DR	EBF	EBF	10/07/2026
E	Fifth issue	DR	EBF	EBF	15/07/2026
F	Sixth issue	DR	EBF	EBF	23/07/2026
G	Seventh issue	DR	EBF	EBF	29/07/2026

Recipients are responsible for eliminating all superseded documents in their possession.

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RELIANCE, USES and LIMITATIONS

This report is copyright and is to be used only for its intended purpose by the intended recipient and is not to be copied or used in any other way. The report may be relied upon for its intended purpose within the limits of the following disclaimer.

This study, report and analyses have been based on the information available to Peritas Group at the time of preparation. Peritas Group accepts responsibility for the report and its conclusions to the extent that the information was sufficient and accurate at the time of preparation. Peritas Group does not take responsibility for errors and omissions due to incorrect information or information not available to Peritas Group at the time of preparation of the study, report or analyses.

EXECUTIVE SUMMARY

Key constraints and recommendations of this report are summarised as follows:

Risk Matrix

Consequence Likelihood	Insignificant	Minor	Moderate	Major	Severe
Remote	Insignificant	Insignificant	Low	Low	Medium
Unlikely	Insignificant	Low	Low	Medium	Medium
Possible	Low	Low	Medium	Medium	High
Likely	Low	Medium	Medium	High	High
Almost Certain	Medium	Medium	High	High	Extreme

Qualitative Measures of Likelihood or Frequency

Scale	Criteria to be used to establish rating
Almost Certain	Will occur. Circumstances or situations are likely to arise often throughout the planning / project period which provide the opportunity for crystallization of risk. Expect frequent, regular occurrences.
Likely	Likely to occur more than once in the planning period but not an 'everyday' occurrence. Preconditions will arise at times throughout the period.
Possible	Likely to occur at least once but not expected to occur much more than this in the planning period.
Unlikely	Not likely to occur in the planning period. A small, but remote chance of occurrence due to circumstances/situations that could arise.
Remote	Would only occur in highly exceptional circumstances that are unlikely to exist in any planning period. Extremely remote chance of occurrence in planning period. 'Once in a lifetime' event.

Qualitative Measures of Impact – Consequence Severity

Impact	Consequence Criteria
Severe	Near impossible to develop subject site and expected development viability is very low. E.g., Significant Habitat, Major floodway within site etc. Requires comprehensive development viability analysis and specialist input.
Major	Very difficult to develop subject site and expected development viability is low, will involve significant investigations, very expensive major service relocations, many significant trees of excellent health etc. Requires development viability analysis and specialist input as required.
Moderate	Challenging to develop subject site, expected development viability is adequate, will involve further investigations, costly service relocations, many registered trees of excellent health etc. Specialist input as required.

Minor	Relatively simple challenges to develop site, expected development viability is good. Minor upgrades to existing services are required to develop site.
Insignificant	No challenges or risk to program in developing site.

Degree of Risk

Risk Rating	Definition of Risk Rating
Insignificant	Certain development prospect, no foreseeable challenges.
Low	Site is developable with only minor works or investigations required. It is advised to progress to continue the development process.
Medium	Site is developable with significant works or investigations required. It is advised to progress to continue the development process.
High	Site is developable with major works or investigations required. No further investigation recommended without cost benefit analysis first being undertaken.
Extreme	Site or component is undevelopable or unviable without significant changes.

Key Site Risks

Below summarises key site risks with associated risk ratings and high-level recommendations to improve clarity for planning and approvals:

VEHICULAR ACCESS

Risk Description: The subject site currently obtains vehicular access from Stirling Crescent, Adelaide Street and Kalamunda Road. Construction of the internal shared road network for the development, together with the site's reliance on the surrounding road network, will require coordination with any broader regional road upgrades planned by MRWA. In particular, future upgrades affecting Stirling Crescent, Kalamunda Road and adjoining intersections may influence the ultimate access arrangements, intersection treatments, staging of works and timing of development within the Hatch Court Light Industrial Area. While the planned regional road improvements are expected to enhance industrial access, efficiency and safety across the HCLIA (as outlined in Section 5.1), the timing and staging of these upgrades relative to the proposed development's subdivision and construction programme represents a key consideration.

Risk: MEDIUM

Recommendation: Ongoing consultation should be undertaken with the City of Kalamunda, MRWA and the project traffic engineers to monitor the status and timing of regional road upgrade projects and confirm their implications for the HCLIA. Detailed traffic impact assessments should be updated as the proposal progresses to ensure that the internal road network and access arrangements remain compatible with the ultimate regional road configuration. Where necessary, road infrastructure upgrades and associated contributions should be identified early and incorporated into the development staging strategy to minimise approval risks and facilitate the orderly delivery of the subdivision.

Refer to **Section 5.1** for further information.

BUSHFIRE

Risk Description: The current online bushfire mapping listed on the Department of Fire & Emergency Services (DFES) website demonstrates that the subject site is within a Bushfire Prone Area. Additional planning and building requirements will likely apply to the proposed development.

Risk: MEDIUM

Recommendation: Additional planning and building requirements may apply to the proposed subdivisional development in accordance with Schedule 2 Part 10A of the Planning and Development (Local Planning Schemes) Regulations 2015, State Planning Policy 3.7, WA Guidelines for planning in Bushfire Prone Areas, and the Building Code of Australia.

Refer to **Section 2.6** for further information.

SITE GRADING AND EARTHWORKS

Risk Description: Site grading within the Hatch Court Light Industrial Area (HCLIA) will generally be determined by the proposed building pads, servicing requirements and environmental and geotechnical constraints of the site to ensure a sustainable as well as economic development. Bulk Earthworks will be dictated by building pads and vehicle access point. The stormwater strategy will need to be confirmed; however, it is likely that stormwater for major storm events will be directed naturally towards the closest watercourse. The available geotechnical investigation provides sufficient information to inform the preliminary stormwater management strategy for the Hatch Court Light Industrial Area (HCLIA), including site-specific groundwater conditions, soil profiles and infiltration characteristics. During the detailed design phase, the developer may be required to commission additional targeted geotechnical and infiltration investigations, where necessary, to confirm the design and sizing of stormwater infrastructure in areas affected by shallow groundwater, coffee rock or organic soils. Any additional investigations may incur further costs and could impact on the detailed design and delivery programme for the proposed development.

Risk: MEDIUM

Recommendation: The earthworks within the Hatch Court Light Industrial Area (HCLIA) will primarily be determined by the proposed drainage requirements, building pad levels and the servicing requirements associated with the wider Structure Plan (SCP), including the proposed road network and utility infrastructure. Earthworks will be designed to achieve suitable grades for lot development while accommodating the proposed stormwater, sewer, water and other civil infrastructure.

The general topography of the subject sites is mild sloping from east to west at approximately 1 in 50 to 1 in 100 slopes across the site. The highest point is at the intersection of Hatch Court and Stirling Crescent at approximately 24m AHD and the lowest point is over the subject site at approximately 20m AHD at the western boundary of the site. A geotechnical investigation has been undertaken for the site, which identified shallow groundwater across parts of the site and recommends raising above groundwater levels using imported and compacted sand fill, together with dewatering during construction in lower-lying areas. Shallow groundwater may potentially have an adverse effect on stormwater infrastructure or the proposed development if not appropriately managed. Further site-specific geotechnical investigation is recommended as part of future DA/building permit applications, to confirm final pad levels, groundwater conditions, and site preparation requirements for individual lots.

Refer to **Section 3** for further information.

SEWER

Risk Description: Development to date within the Hatch Court Light Industrial Area has proceeded with onsite effluent disposal, as the site is not currently connected to a reticulated sewer network, with the nearest existing sewer infrastructure within the planned catchment for the landholdings, located a significant distance from the subject land. Each development site will be required to assess its needs with regards to wastewater disposal and make due applications to the regulatory health authorities for on-site treatment and disposal.

Advice from the Water Corporation is that the Structure Plan Area is dependent on the sewers to the north heading across the bypass, where the current sewer catchment planning shows sewerage from the area is required to discharge. There are existing sewers located to the south west at the intersection of Striling Crescent and Acton Link and Wem Mews and to the north east at the intersection of Benson Way /Stirling Crescent, however, connection to these existing sewers can only be achieved provided a suitable depth to the sewer is established as part of the extension works.

Risk: **HIGH**

Recommendation: Confirm proposed layout of the residential development and assess the impact on the existing sewer. Provide Water Corporation with additional information detailing the residential subdivision levels to confirm whether Water Corporation will entertain connecting either all or a portion of the proposed residential area within the LSP area. Current advice is that the area will require servicing to the north/northwest through landholdings outside of the LSP area.

Water Corporation will also be required to confirm serviceability of the site based on the ultimate design of the development.

Refer to **Section 6** for further information.

POTABLE WATER

Risk Description: The subject site is currently serviced by existing potable water mains located along Stirling Crescent and the Hatch Court cul-de-sac, which primarily provide residential connections. These existing assets offer potential connection points for the proposed water reticulation network; however, the suitability of these connections will depend on the ultimate water demand generated by the development.

A detailed assessment of potable water requirements will be necessary to determine whether upgrades or additional water reticulation infrastructure will be required to adequately service the development. This assessment should consider peak demand, fire flow requirements, staging, and the capacity of surrounding network assets.

All internal potable water reticulation infrastructure is to be designed and constructed in accordance with the relevant Australian Standards and the Water Corporation of Western Australia's design, construction, and servicing requirements to ensure compliance, service reliability, and long-term operational performance.

Risk: **MEDIUM**

Recommendation: Confirm the existing potable water infrastructure's connection, alignment, and size. Correspondence with Water Corporation has confirmed that the current existing water infrastructure will require upgrades. All internal potable water reticulation pipework is to be designed and constructed to the standards and requirements of the Water Corporation of Western Australia. Standard Water Corporation water headwork charges will apply. Verification with the Water Corporation will also be required to confirm serviceability of the site based on the ultimate design of the development. Refer to **Section 6** for further information.

STORMWATER DRAINAGE

Risk Description: An existing double-side entry stormwater pit is located on HCLIA with a 300mm pipe connection through to the existing drainage easement on the subject site. The majority of the stormwater on Hatch court flows to the side entry pit, however stormwater from the cul-de-sac head flows back onto adjoining private property. Construction of on-site stormwater drainage infrastructure will be required for the proposed development which may incur additional costs and potential delays in timeframe. There are also potential risks involved with clashes between the drainage corridors and other services that will traverse the local road network, as well as safety issues surrounding the drainage corridor depths.

Risk: : MEDIUM

Recommendation: Drainage should be constructed in accordance with the Hatch Court Local Water Management Strategy (LWMS) and subsequent Urban Water Management Plans. MRWA safety guidelines should be adhered to for depth and swale slope steepness, the slope must not be greater 1 in 4 and the height must not exceed 0.9m.

Refer to **Section 6** for further information.

SUBSOIL DRAINAGE

Risk Description: The subject site will require subsoil drainage after development due to the close proximity of the finished ground levels to the groundwater table.

Risk: MEDIUM

Recommendation: Subsoil drains are to be installed within the verge to manage groundwater levels, as recommended by the hydrological consultant. The subsoil drainage pipes should be designed to convey groundwater to the nearby waterway.

Refer to **Section 6** for further information.

GAS

Risk Description: DBYD information and review of the Atco gas network coverage map shows that there is reticulated gas services available in the immediate surrounding area. A 63 PE 1.5 PEHP 70kPa polyethylene high pressure gas main runs along Hatch Court. A Critical Asset Warning applies to this area. No works within 15 metres of the critical assets are permitted without prior written approval from ATCO Gas Australia. Hand exposure via pothole method is mandatory prior to any excavation in the vicinity of these assets. The project team must contact ATCO Gas Australia directly before commencing any works.

Risk: MEDIUM

Recommendation: Confirm the existing gas service infrastructure's connection, alignment and size.

Refer to **Section 6** for further information.

PEDESTRIAN ACCESS

Risk Description: There is currently no existing Pedestrian Path located in the general vicinity of the subject site. The provision of pedestrian infrastructure upgrades or modifications if required may incur additional costs for the development, however, is likely to be shared over the total development.

Risk: LOW

Recommendation: Peritas recommend undertaking a condition report of the existing bus stops surrounding the site prior to award of the contract to the builder. Any damage during the construction to be rectified by the builder.

ENVIRONMENTAL CONTAMINATION

Risk Description: A contaminated land search on the DWER website indicates the site is not within known contaminated sites. No further actions from an environmental contamination perspective are required for the proposed development site. There is high to moderate risk and moderate to low risk (<3m from the surface) Acid Sulfate Soils (ASS) in the subject site as per the geotechnical investigations.

Risk: LOW

Recommendation: Further actions from an environmental contamination perspective may be required for the proposed development within both the Hatch Court Light Industrial Area (HCLIA) and the wider Structure Plan (SCP) area, where applicable. Future development proposals, including the extent and depth of excavation, dewatering requirements for sewer and other underground service installations, and the location of works, will determine whether further contamination investigations and acid sulfate soil (ASS) management are required within each area. Refer to Sections 2.4 and 2.7 for further information.

Refer to **Section 2.4 and 2.7** for further information.

ELECTRICAL AND STREETLIGHTING

Risk Description: The proposed development currently has overhead HV and LV infrastructure in the subject site vicinity. Existing overhead High Voltage distribution lines (1 kV – 33 kV) and a Transmission line (33 kV – 330 kV) are present within and adjacent to the precinct, along with Low Voltage overhead lines (< 1 kV) serving existing lots. Underground HV/LV cables, street light circuits, pillars and terminations are also present within the local road network including along Stirling Crescent. All works in proximity to these assets must comply with Western Power clearance requirements.

Risk: MEDIUM

Recommendation: Confirm the existing electrical service infrastructure's connection, alignment, and size. An EPR/LFI assessment is required when a transformer/switchgear is installed as part of the subdivision. An application to the Western Power Transmission team is required for an assessment to determine the easement width. Western power assessment is required before carrying out any work in the vicinity

Refer to Section 6.5 for further information.

FLOOD.

Risk Description: DWER confirms they have no information on flooding or flood levels at this location.

Risk: Low

Recommendation: A minimum habitable floor level of 0.5 metre above the adjacent 1% AEP flood level is recommended to ensure adequate flood protection.

Refer to **Section 2.8** for further information.

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1. INTRODUCTION

Peritas Group was commissioned by Dynamic Planning and Developments on behalf of the City of Kalamunda to review the engineering constraints and servicing requirements associated with the Development of the subject site.

The subject site comprises of a light industry area and several residential lots to a total of approximately 33.6 hectares as shown in **Figure 1** below. The subject site is located approximately 14kms northeast of the Perth CBD and 6km from the Perth International airport. The High Wycombe Train station is located approximately 4km from the subject site. The site is located in close proximity to major road links, including Roe Highway, Kalamunda Road and Abernethy Road.



Figure 1 Aerial View

The majority of the site is clear of significant vegetation with minimum existing structures, which will need to be considered in the relevant development stages.

In summary, this report highlights:

- The subject land is capable of sustaining development in keeping with the proposed light industrial and residential development.
- The land is capable of being connected to and provided with all essential services to sustain residential development (based on current and future service authority planning).
- The proponent's strategy for the subject land will complement the natural landform by careful design of the bulk excavation, site grading and landscaping.

This report has been compiled based on the following terms of reference:

- Briefing discussions and meetings with the client.
- Site inspection and site walkover.
- Numerous discussions with Local Government Agencies.
- Site data and documents included on this report.
- Servicing concepts and Regional Strategic Infrastructure planning by the regulatory authorities.

The majority of the subject site is zoned as Light Industrial and partially residential as shown in MNG Maps in **Figure 2** below:

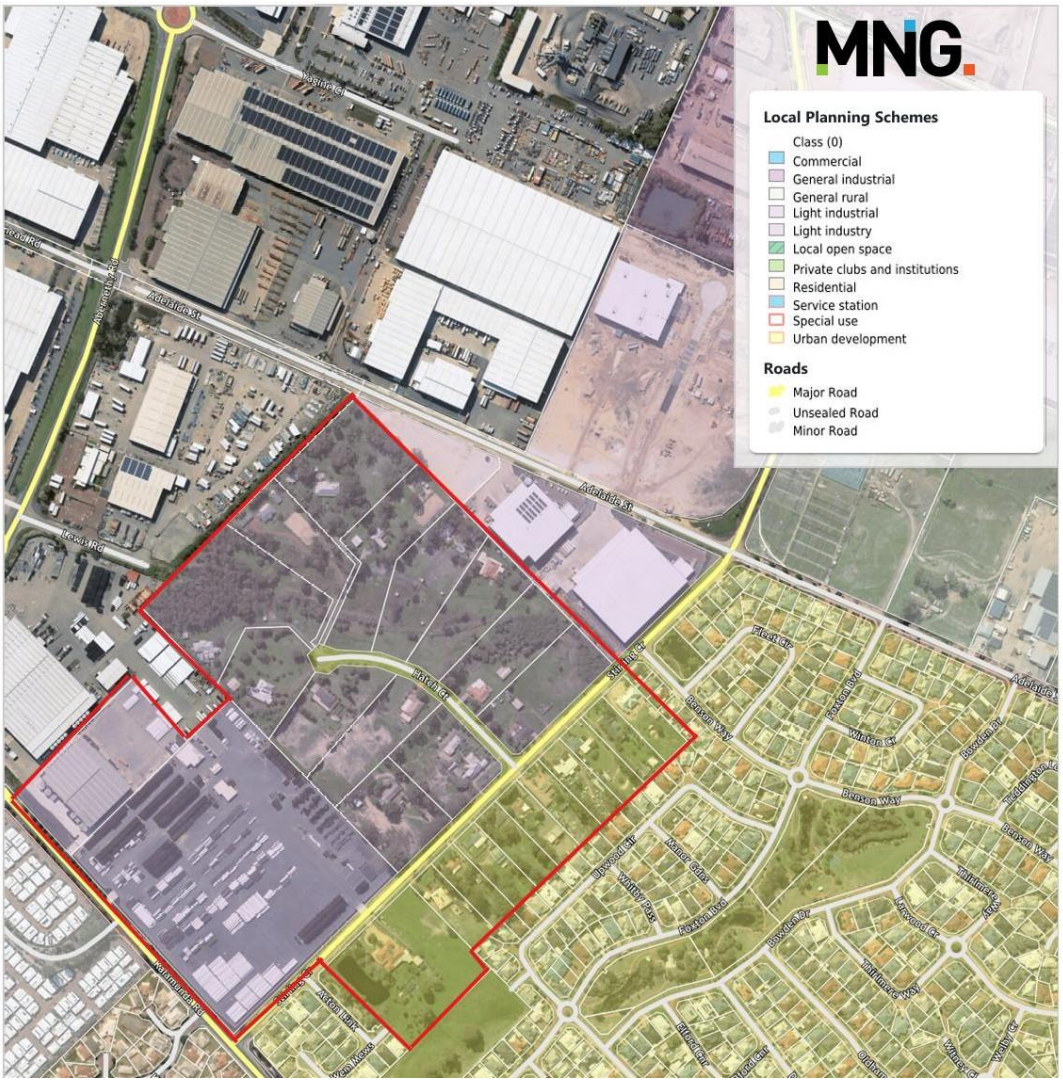


Figure 2 Town Planning Map (MNG)

1.1 Proposed Development

The proposed development is yet to be confirmed in more detail, however, at the time of this report the subject site comprises of the following approximate land usages:

Table 1 Summary of land use areas

Total Structure Plan Area	31.882ha
Area of each land use zones: • **Residential** **Light Industry**	 4.9126ha 21.57ha
Area of reserves: • **New Road Reserves** • **Public Open Space/Drainage** • **Wetlands & Buffer** **Living Stream**	 1.4088ha 0.29ha 3.0591ha 0.6415ha
Estimated lot yield (Residential)	140 lots
Estimated dwellings	140 dwellings
Estimated density per site hectare	28.5 dwellings
Estimated population	350 residents @ 2.5 people per household.
Primary Schools	None
High Schools	None
Total Structure Plan Area	31.882ha
Estimated population	350 residents @ 2.5 people per household.

The proposed structure plan layout for the subject site can be found in Figure 3 below.

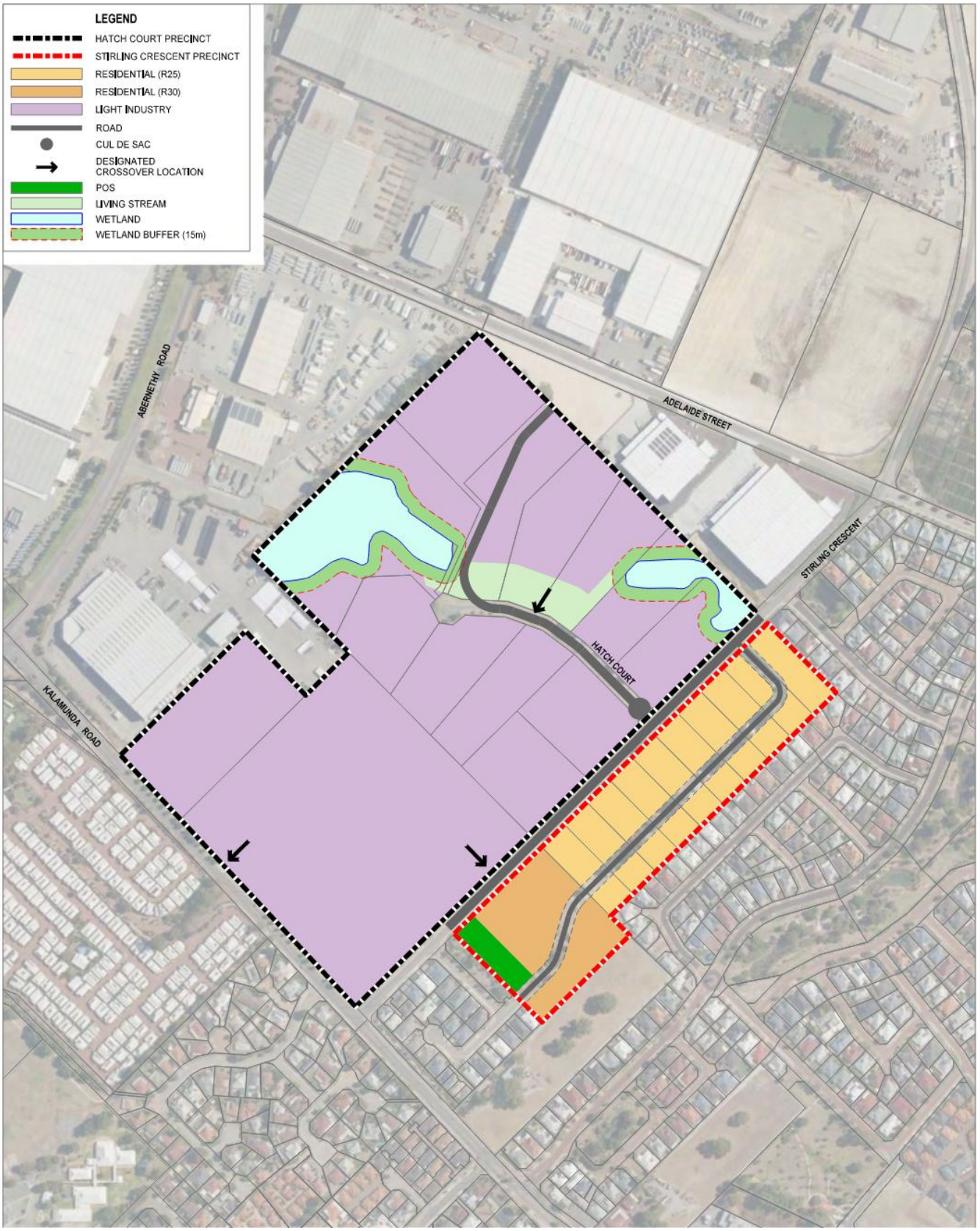


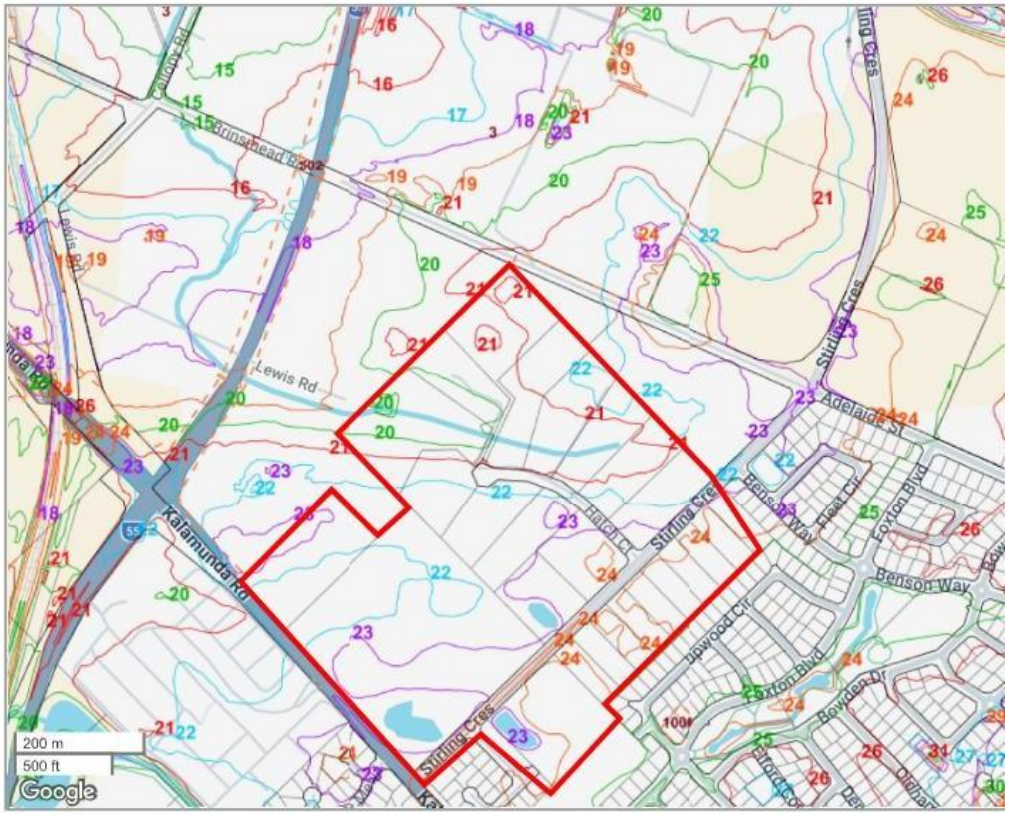
Figure 3 Draft Structure Plan Layout

2. SITE EVALUATION

2.1 General

Within this section, a detailed summary of the existing services and constraints information has been compiled and summarized for the subject site. The detailed analysis includes a review of Dial Before You Dig (DBYD) information, aerial photography, review of DWER and DPLH Databases, Water Corporation records, and correspondence obtained from service authorities.

The general topography of the subject sites is mild sloping from east to west at approximately 1 in 50 slopes across the site. The highest point is at the intersection of Hatch Court and Stirling Crescent at approximately 24m AHD and the lowest point is over the subject site at approximately 20m AHD at the western boundary of the subject site as seen in **Figure 4** below.



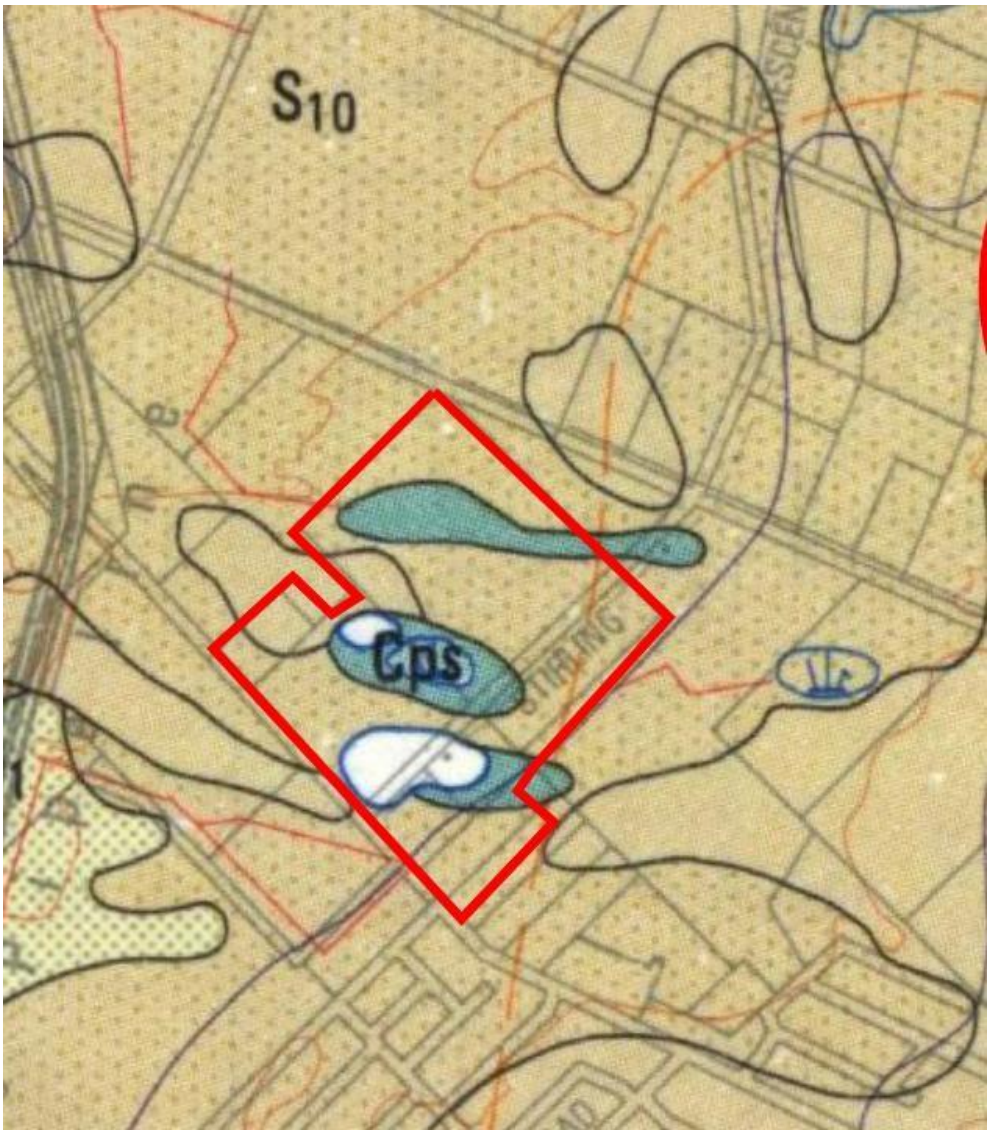
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Figure 4 Natural Surface Level Contours (Water Corporation ESInet 22)

Subject to final development layout, the land might require bulk earthworks to be completed to regrade the site to suit the building footprint.

2.2 Site Geology

The subject site geology can be seen in **Figure 5** below, which shows that the majority of the site is underlain by sandy soils. Within the vicinity of the existing creek corridor, a layer of organic silty sand approximately 0.8 m thick overlies the underlying sand profile. In the northern portion of the site, iron-indurated sand (commonly referred to as *coffee rock*) has been encountered at an approximate depth of 2.0 m below existing ground.



Map Unit [1]		Description
Unconsolidated Material [2]	Rock [2]	
Cps		PEATY CLAY – dark grey and black [3] with variable sand content of lacustrine origin
M_1		SILT – grey mottled yellowish brown, blocky, firm, variable clay content
P		PEAT – black, clayey in part, saturated fibrous organic soil
Sp		PEATY SAND – greyish brown, medium-grained quartz, moderately well sorted, variable organic content, of lacustrine origin

Figure 5 Site Soil Classification (Geological Survey of Western Australia)

Table 2 Summary of Geological Mapping

Map Sheet	Map Scale	Mapped soils	Site findings
Perth	1:50000	Northern portion of site underlain by a thin layer of Bassendean Sand overlying Guildford Formation Southern portion of site underlain by Swamp Deposits (Peaty Clay)	SAND (SP) overlying Coffee Rock in the northern half of site; and Organic Silty SAND (OL) overlying SAND (SP) in the southern half of site

The subject site will require further investigation during specific development phases with due regard to the proposed building pads and drainage requirements.

2.3 Previous Geotechnical Investigations

A geotechnical investigation was also undertaken by Galt Geotechnics in 2025. The key findings from the investigation reinforce the ASS study and the geotechnical study and show they are generally consistent with the geological mapping. The summary of the geotechnical assessment is specified in the table below.

Table 3 Summary of Geotechnical Assessment

Type	Clause	Parameter	Comment
Site Suitability	-	-	We consider both sites to be geotechnically suitable for the proposed development with appropriate site preparation measures. Standard site preparation measures will apply for most of the site.
Site Classification (AS2870)	GDR5	A / P	Class A for most of each site. Class P in drainage lines, wetland areas and lakes. The site classification in these areas could be improved if organics soils are removed and replaced
Site Preparation	GDR6	Ce	For most of the site: preparation will comprise GDR6.2.1 Common Measures followed by GDR6.2.2 Sand Sites. Surficial uncontrolled fill in the northern part of the site must be remediated. We anticipate raising of the site above shallow groundwater levels by importation and compaction of sand fill

			(Permeable Sand) however this is subject to civil design. In drainage lines, wetland areas and lakes. If these areas are to be developed, organic soils present in these areas will need to be removed and replaced with approved fill. Dewatering and treatment of water / soil for acid sulfates will also be required.
Footing Preparation and Testing	GDR6.4	-	We expect the base of footings at this site to be entirely within sand. We refer you to GDR6.4.1. A PSP may be used to verify compaction in footing excavations as discussed below.
Topsoil Strip	GDR6.2.1	Thickness = 100 mm	Expected thickness of topsoil strip (average).
Compaction Control	GDR7	-	Requirements for "Sand" as per GDR7 Compaction control at this site may be done using a Perth sand penetrometer (PSP). The target blow counts for "Bassendean Sand" are applicable as per GDR7.4 Perth Sand Penetrometer.
Approved Fill	GDR8	Permeable Sand or General Sand	Approved fill at this site is to comprise Permeable Sand (where stormwater disposal is required) or General Sand (where stormwater disposal is not required) as per GDR8 Approved Fill and Conformance Testing. The insitu sand is suitable for reuse as General Sand and is likely to have an unsaturated hydraulic conductivity of approximately 3 m/day when compacted. Further permeability testing of recompacted insitu sand is required to derive a design hydraulic conductivity value.
Excavations, batters and slopes	GDR12	1V:2H (temporary) 1V:3H (permanent)	Excavations in sand should be readily achievable to 2 m with 15 ton excavator or similar. The batter angles given are for slopes up to 2 m high and above groundwater. Refer to GDR12 Excavations, Batters and Slopes for more information. Dewatering will be required for excavations in lower lying areas of shallow groundwater.
Unsaturated Hydraulic Conductivity	GDR13	kunsat = 3 m/day for isolated soakwells, and kunsat = 5	k_{unsat} values apply where disposing into natural grey sand, minimum 0.5 m above the groundwater table, coffee rock layers (or overlying perched water) or black / brown sand layers near the groundwater table as per GDR13.4.

		m/day for interconnected soakwells.	
Pavement Subgrades	GDR16	CBR = 10%	For subgrades of granular pavements comprising compacted approved fill / insitu sand.
Acid Sulphate Soils	**-**		Management of acid sulphate soils is likely to be required during construction.

The soil field testing results are summarized in table 3 below.

Table 4 Summary of Field-testing results

Field pHf range	Field pHfox range	pH change	Laboratory pH range	Maximum Net Acidity
4.7 – 8.5	2.6 – 6.5	1.0 – 5.8	4.0 – 9.5	<0.02 – 0.14

2.4 Ground Water

As outlined in the Local Water Management Strategy prepared by Oversby Consulting, the following groundwater management measures are recommended for the Hatch Court Light Industrial Area:

- Surface water inflows to groundwater are to be treated via bioretention gardens and the proposed living stream / wetland network.
- Where required, development areas are to be raised using clean engineered fill to maintain adequate vertical separation from groundwater levels.
- Subsoil drainage systems are to be installed in areas where groundwater is less than 1.5 m below finished surface levels to manage seasonal groundwater rise.
- Connection to reticulated sewerage will remove potential wastewater pollutants from developed lots for off-site treatment.
- The removal of existing stock access and extensive garden areas is expected to reduce nutrient loading to the groundwater system.

Review of the Perth Groundwater Atlas (DWER) indicates that regional groundwater flow is generally in a north-westerly direction, with interpreted maximum groundwater levels reducing across the site from approximately RL 19.9 mAHD to RL 17.2 mAHD.

In addition, a 12-month groundwater monitoring program undertaken as part of the broader District Water Management Strategy investigations (ENV, 2009) included bores MW1 to MW4 located within the subject land, together with DoW Bore 4849 to the east. Based on the monitoring results, the Average Annual Maximum Groundwater Level (AAMGL) was established, with results summarised in Table 4. The broader groundwater assessment identified a general northerly groundwater flow direction.

Table 5 DWMS groundwater level results

Bore	Maximum Recorded Groundwater Level (mAHD)	Depth to maximum Recorded Groundwater Level (m)	AAMGL (mAHD)	Depth to AAMGL (m)
MW1	22.273	1.02	22.136	1.157
MW2	21.484	0.248	21.32	0.412
MW3	21.451	1.555	21.314	1.692
MW4	21.173	0.695	21.016	0.852
DoW 4849	14.937	-	14.72	-

Given the above-average rainfall experienced during 2025, groundwater levels recorded during the recent investigation period are considered likely to be representative of near-maximum seasonal conditions. Groundwater discharge was also observed into the drainage line traversing the site, which assists in limiting further groundwater rise during peak periods.

Groundwater depths are generally shallowest in proximity to the existing wetlands and drainage corridor, while depths increase to greater than 2.0 m within the elevated sand dune areas. Localised zones were also identified where groundwater was within 1.0 m of the natural surface during August / September 2025. Groundwater was additionally encountered within excavated areas on the subject land and within the adjoining POS basin. Discussions with nearby landowners indicate that groundwater levels within the southern open waterbody may fluctuate by approximately 1.0 to 1.5 m annually.

Based on observed pond water levels and available geotechnical investigation data, a refined groundwater contour assessment has been developed. This indicates groundwater levels generally fall in a north to north-westerly direction, from approximately RL 23 mAHD to RL 19 mAHD across the locality. Some minor localised groundwater mounding is also evident in areas where less permeable subsurface soils restrict vertical infiltration. These local influences are expected to diminish as seasonal groundwater levels recede below the invert level of the drainage line, allowing perched or mounded groundwater to dissipate into surrounding more permeable areas.

Groundwater quality

Groundwater sampling was undertaken as part of the geotechnical investigation program to assess baseline groundwater quality conditions across the site.

Laboratory results indicated groundwater pH values ranging from 6.18 to 7.16, which is considered slightly acidic to neutral. Mildly elevated inherent acidity was identified, together with high to very high alkalinity concentrations, suggesting the groundwater possesses adequate natural buffering capacity to maintain an acceptable pH balance in the event of Acid Sulfate Soil (ASS) disturbance or oxidation.

Elevated concentrations of aluminium and iron were also recorded, which may indicate that some degree of historical ASS oxidation has previously occurred within the site or surrounding locality. Notwithstanding this, the detected metal concentrations are generally consistent with groundwater conditions commonly observed throughout the eastern Swan Coastal Plain.

Chloride concentrations were found to exceed the applicable non-potable groundwater use guideline within monitoring bore MW01, where a concentration of 330 mg/L was recorded. This elevated chloride level may reflect local hydrogeological influences, historical land use activities, or natural saline trends within the regional groundwater system.

Overall, the groundwater quality results indicate conditions typical of the surrounding area, with no unusual anomalies identified beyond those commonly associated with seasonal groundwater fluctuations and local soil chemistry.

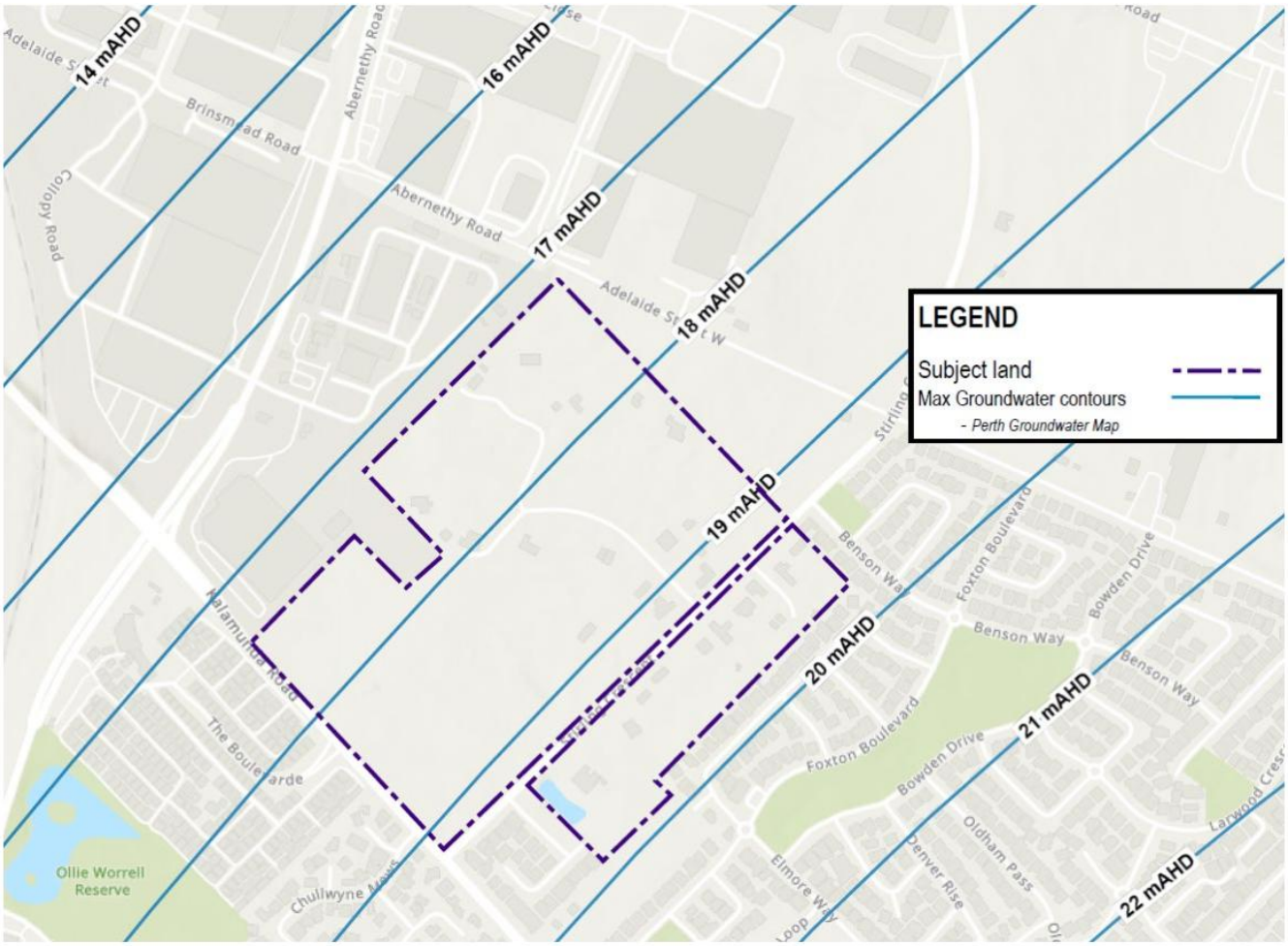


Figure 8 Predevelopment Groundwater Conditions (Perth Groundwater Map -2019)

2.5 Acid Sulphate Soils

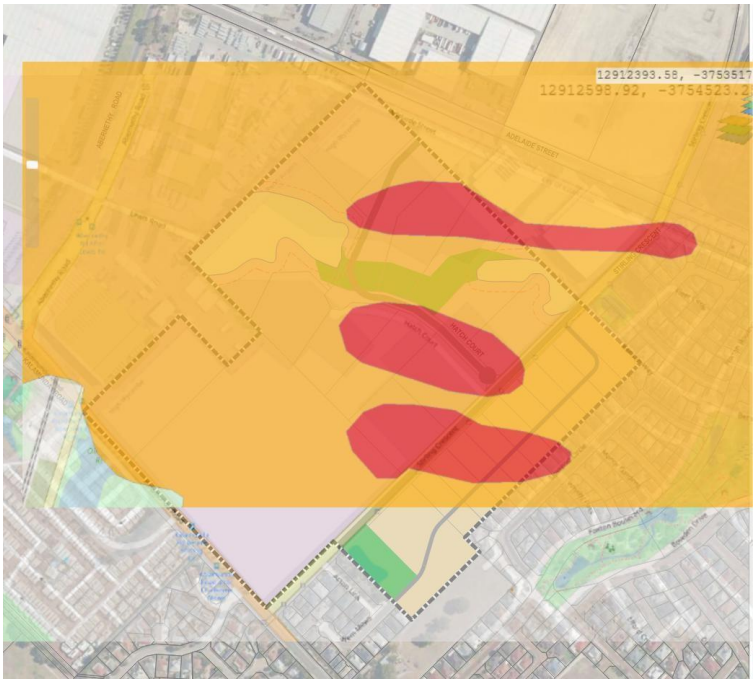


Figure 9 DWER Acid Sulfate Soils

Based on information from the DWER groundwater database, the subject site is mapped as containing areas of High to Moderate and Moderate to Low-risk Acid Sulfate Soils (ASS). Acid sulfate soil field testing and laboratory chromium reducible sulfur (CRS) analysis has since been undertaken as part of the geotechnical investigation for the site (Galt Geotechnics, WAG250138-01 001 Rev0), which confirmed that coffee rock and organic soils present within the site are considered to be ASS, consistent with the DWER mapping.

Laboratory results indicate the net acidity of tested samples was generally below the adopted action criterion (0.03%S), with the exception of one sample. On this basis, further ASS investigation and an Acid Sulfate Soil and Dewatering Management Plan (ASSDMP) may be required as part of the DA/subdivision approval process, particularly where deep excavation, dewatering or disturbance of the drainage lines/wetland/lake areas is proposed, consistent with the recommendation of the geotechnical report.

2.6 Bushfire

The current online bushfire mapping listed on the Department of Fire & Emergency Services (DFES) website demonstrates that the subject site is within a Bushfire Prone Area, as shown in **Figure 10** below. Additional planning and building requirements may apply to the proposed subdivisional development in accordance with Schedule 2 Part 10A of the Planning and Development (Local Planning Schemes) Regulations 2015, State Planning Policy 3.7, WA Guidelines for planning in Bushfire Prone Areas, and the Building Code of Australia.



Figure 10 DFES Bushfire Prone Map 2024

2.7 Environmental and Contamination

A contaminated land search on the DWER website indicates the site is not within known contaminated sites. No further actions from an environmental contamination perspective are required for the proposed development site.

2.8 Flood

Based on advice provided by the Department of Water and Environmental Regulation (DWER), the subject site at Hatch Court is not located within a mapped floodplain and is not subject to riverine or regional flood risk. DWER has confirmed that the area is not affected by major flooding associated with surrounding catchments and waterways.

Accordingly, no floodplain management measures or development restrictions associated with 1% Annual Exceedance Probability (AEP) flooding are applicable to the site. The proposed development can therefore proceed without the need for floodplain-specific mitigation measures, subject to compliance with standard stormwater management requirements and detailed drainage design to address local runoff and minor storm events.

This assessment relates to major flooding only and does not preclude the need for appropriate stormwater drainage infrastructure to manage local rainfall events in accordance with relevant authority standards.

The following advice was provided by DWER:

''We have no information on flooding or flood levels at this location. The Lots are located more than 2.6 km away from our nearest mapped watercourse, the Helena River. The proposed development is outside of the Helena River floodplain.

Please read the Better Urban Water Management guidelines with regards to stormwater design.

Better urban water management

You can also contact our Swan Avon Region for other planning advice on water and environmental matters.

Swanavon.landuse@dwer.wa.gov.au

It should be noted that this advice is related to major flooding only and other planning issues such as environmental and ecological considerations may also need to be addressed.''

3. SITE GRADING & BULK EARTHWORK

Site grading within the Hatch Court Light Industrial Area (HCLIA) and the Structure Plan area will generally be determined by the proposed building pad levels, servicing requirements, drainage infrastructure, and environmental and geotechnical constraints. Based on the available geotechnical investigation, it is anticipated that bulk earthworks will comprise a combination of cut and fill, with imported permeable sand likely to be required to raise development areas above design groundwater levels and achieve the proposed finished surface levels, subject to detailed civil design. Within drainage lines, wetland areas and locations containing organic soils, unsuitable material will require removal and replacement with approved fill prior to development. Where suitable, existing site-won sand may be reused as engineered fill in accordance with the geotechnical recommendations.

It is anticipated that the bulk earthworks for both the HCLIA and SCP will utilize suitable site-won material where practicable, supplemented by imported permeable sand where required to achieve design levels, satisfy geotechnical requirements and maintain adequate separation from groundwater. Imported fill, if required, is expected to be sourced from approved sand suppliers within the locality.

Preparatory works prior to earth working should be limited to the following:

- Removal of existing trees and vegetation
- Demolition and disposal of existing building
- Removal of fencing and other improvements as necessary.
- Stripping and grubbing of areas to be earth worked to the depth 700mm below existing ground level.
- Strip and disposal of topsoil.
- Cut to fill operations and imported fill to selected areas to suit design layout.
- Stabilisation of any areas to be landscaped or where topsoil has not been respread on verges and embankments.
- Site levels shall be set in accordance with the following parameters:
- Geotechnical and soil parameters to ensure that the site is capable of development.
- Fill levels to provide clearance to groundwater (AAMGL and as prescribed by authority approvals). Not likely to be an issue for this site however further investigations are required.
- Finished building pad levels are to be 0.5m above 1% AEP flood levels.
- If required, finished transformer site pad levels are to be set at least 1.0m above 100-year flood event.

Upon completion of bulk earthworks, any disturbed areas shall be stabilised either by respreading the stockpiled topsoil from the bulk earthwork operations or via hydro mulching stabilisation as appropriate or in accordance with the requirements of the local authority.

Estimated cut-and-fill quantities should be calculated during detailed design to optimize earthworks balance and minimize import/export costs. Additionally, site grading must be designed to ensure all finished building pads meet or exceed the minimum 0.5 m clearance above the 1% AEP flood level.

4. LAND STABILISATION AND DUST SUPPRESSION

Prior to construction taking place, a construction water supply will be established to provide water for dust suppression, temporary sand stabilisation and irrigation during the construction phases.

Water trucks and spray equipment will be on site throughout the construction programme to damp down exposed sand surfaces until the surface is physically stabilised. In the event that adjacent occupied homes or trafficked roads are affected by sand drift, a sand-trapping fence will be constructed fronting the affected section of the development.

All dust suppression activities should comply with the City of Kalamunda's dust control regulations. Daily monitoring of dust emissions should be implemented during earthworks to ensure adherence to local environmental health requirements.

In the event of strong winds blowing towards adjacent properties that cause blown sand to reach those properties, earthworks, including the stripping or respreading of topsoil, will be temporarily suspended and dust suppression measures immediately implemented.

Stabilisation of the soil surface will be carried out, as required, immediately following topsoil re-spreading and minor regrading. Soil stabilisation will be maintained until such time as the building construction commences.

5. ROAD NETWORK & TRAFFIC CONSIDERATIONS

5.1 Vehicular and Pedestrian Access

The subject site is accessed via Hatch Court, which connects to the wider local and regional road network through Stirling Crescent. The existing Hatch Court road is a 6.0 m sealed carriageway constructed within an 18 m road reserve.

The site is located in close proximity to key regional transport corridors, including the Great Eastern Highway Bypass, Roe Highway, Kalamunda Road and Abernethy Road, which together provide strategic connectivity to the broader metropolitan and industrial road network.

The construction of a proposed 20 m road reserve linking Hatch Court to Adelaide Street will provide a direct connection between the Hatch Court Light Industrial Area (HCLIA) and the regional road network. This new link will enable industrial Restricted Access Vehicle (RAV) movements from Hatch Court to Abernethy Road via Adelaide Street. To support this function, the existing bitumen seal along Hatch Court will require widening to approximately 10m and may require pavement upgrades to accommodate increased traffic volumes and heavier industrial vehicle loading.

The State Government, through Main Roads Western Australia, is proposing major road infrastructure upgrades that will significantly enhance industrial vehicle access to the HCLIA. These works include the Great Eastern Highway Bypass Interchange Project, which will upgrade the interchanges at Roe Highway and Abernethy Road, as well as the extension of Adelaide Street through to Abernethy Road.

In addition, the City of Swan proposes to construct a new roundabout at the intersection of Stirling Crescent and Adelaide Street, with the intent of directing industrial vehicle movements from the

Hazelmere Industrial Area to Abernethy Road via Adelaide Street. This will reduce reliance on Kalamunda Road for industrial traffic accessed via Stirling Crescent.

Collectively, the proposed transport infrastructure upgrades are expected to significantly improve industrial access, efficiency and safety for the subject site and the broader HCLIA.

However, these upgrades are being delivered by the City of Swan and Main Roads WA as part of a broader regional programme, and their construction timing is not within the control of the applicant. Should the delivery of the Stirling Crescent/Adelaide Street roundabout, or other associated regional road upgrades, not align with the staging of the proposed subdivision, there is a risk that interim access arrangements may be required to maintain safe and functional vehicular access to the site in the short term.

To manage this risk, it is recommended that the applicant maintain ongoing liaison with the City of Swan and Main Roads WA to confirm the anticipated delivery programme for the regional road upgrades, and that this be reviewed and reconfirmed at each stage of subdivision to ensure the development's access arrangements remain appropriately coordinated with the broader infrastructure programme

Alternately opening up Adelaide Street to Abernethy Road, then access along Stirling to GEH Bypass could still remain open for industrial vehicles out of the HCLIA.

The existing road network is shown in **Figure 11** below.



Figure 11 Existing Local Road Network

A formal Traffic Impact Assessment (TIA) has been prepared to support the Local Structure Plan which details the relevant road network upgrade needs and confirm access arrangements.

5.2 STORMWATER DRAINAGE

An existing double side-entry stormwater pit is located along Hatch Court and is connected via a 300 mm diameter pipe to the existing drainage easement within the subject site. The majority of stormwater runoff from Hatch Court is conveyed to this side-entry pit. However, runoff generated from the cul-de-sac head currently flows back onto adjoining private property.

No additional stormwater drainage infrastructure has been identified within Hatch Court.

Stormwater Management Approach

Preliminary hydrologic and hydraulic modelling was undertaken by Brendan Oversby to inform the LSP planning and ensure post-development compliance with drainage and floodplain requirements set by DWER.

Key elements include:

- Surface water is managed through vegetated swales, park avenues, and living streams.
- Detention storage will be utilized throughout the site to ensure post-development peak discharges are reduced or maintained relative to pre-development.
- All modelling and strategy development to align with:
    - Stormwater Management Manual for Western Australia (DWER)
    - Decision Process for Stormwater Management in WA (DWER, 2017)
    - Peak discharge and storage targets based on DWER floodplain benchmarks.

Design of drainage swales and open channels within or adjacent to road reserves must comply with DWER & Council guidelines to ensure both hydraulic performance and vehicle safety. The key safety considerations relate to swale depth, batter slopes, and the risk of vehicle rollover or occupant drowning in the event of an accident.

Considerations include:

- Water depth not to exceed 0.6 m, or
- Side slopes are steeper than 1:4, or
- Both criteria are combined and present rollover or submersion risk

5.3 SUBSOIL DRAINAGE

Based on predevelopment groundwater levels, Peritas recommends the installation of subsoil drainage to manage potential groundwater rise associated with post-development lot fill.

Subsoil drains are proposed beneath the road reserves, designed with a minimum longitudinal grade of 1:500 to ensure gravity flow and effective groundwater control. To maintain system performance and constructability, road levels must be designed with at least 1.2 meters of clearance above the invert level of the subsoil drainage pipes.

Subsoil discharge will connect into the main drainage conduits within the adjacent swales, which ultimately outfall to the nearest waterway.

Final pipe sizing and configuration for the slotted subsoil drains will be confirmed during detailed design, in consultation with the hydraulic consultant, and will be based on site-specific groundwater conditions and expected seasonal flows.

5.4 WASTEWATER DISPOSAL

Development to date within the Hatch Court Local Infrastructure Area has proceeded with onsite effluent disposal, as the site is not currently connected to a reticulated sewer network, with the nearest existing sewer infrastructure located a significant distance from the site. Existing Water Corporation sewer reticulation in the subject site vicinity can be found in **Figure 12.**

Existing Infrastructure and Proposed Extensions

The nearest sewer infrastructure to the SCP is a DN150/225 reticulation sewer near the intersection of Acton Link & Stirling Crescent, Wim Mews and is also available at Benson Way / Stirling Crescent, however this infrastructure is too high to serve the subject site by gravity.

Ultimately the subject land is part of a sewer catchment that gravitates to the regional wastewater pump station located near the corner of Abernethy Road and Worrell Avenue.

A DN225 gravity main is planned along Abernethy Road heading north to Lewis Road and then eastwards into the subject site.

The internal gravity network within the SCP is expected to include reticulation mains of DN225, depending on location and topography. These mains will be sized to accommodate flows from future development areas including the residential zone south of Stirling Crescent.

The delivery of the external sewer extension to the site will be expensive and may only be developed based on development demand downstream or by owners within the LSP catchment contributing to the sewer extensions to the area (Unlikely that this cooperation will occur).

A pump station and rising main were also considered as an alternative to the gravity extension, however, this option was found to be cost prohibitive when compared to the gravity sewer extension, factoring in both capital costs and the ongoing operational and maintenance costs associated with pump station infrastructure. As such, extension of the gravity network remains the preferred approach, subject to development demand and/or catchment owner contribution as noted above.

Interim Infrastructure Considerations

There may be an opportunity to service a portion of the residential portion of the site but Water Corporation has previously advised that this is outside of the approved catchment to the south and would not be considered at this time. More formal approaches to Water Corporation will be required in the future to secure the appropriate approvals which we believe are technically possible.

In order to service the residential portion of the LSP area, a significant portion of the proposed residential development is anticipated to require fill to achieve adequate cover over the sewer network discharging to the north-east (Benson Way) and south-west (Stirling Crescent/Acton Link). Further assessment will be required during the detailed planning and design phase to optimize the lot layout, finished levels and sewer alignment. It is anticipated that residential lots adjoining Stirling Crescent will be configured as rear-loaded lots, with vehicle access provided via an internal 6m laneway, rather than fronting Stirling Crescent. This approach will influence the overall lot yield, internal road layout, earthworks requirements and development outcomes, and will require further consideration during detailed subdivision design.

This could be accommodated with a conforming fencing arrangement as provided in other major residential estates. Appropriate design of the wall and potentially landscaping would reduce the impact of the structure required along the Striling Crescent interface that would have the rear of the lots along that boundary.

The industrial/commercial portion of the site will most likely be developed as a dry industry and wastewater treated on site utilizing proprietary ATU technology and associated soakage field disposal.

Delivery Strategy and Developer Requirements

Subject to development staging and regional demand will be dependent on:

- Negotiation with adjacent landowners
- Creation of sewer easements where required
- Development approvals over third-party land

Ongoing engagement with Water Corporation will be essential to confirm:

- Preferred alignment
- Servicing timeframes
- Staging of infrastructure delivery

Early liaison is strongly encouraged at the structure planning or preliminary subdivision design stage to ensure servicing requirements and land access arrangements are well understood.

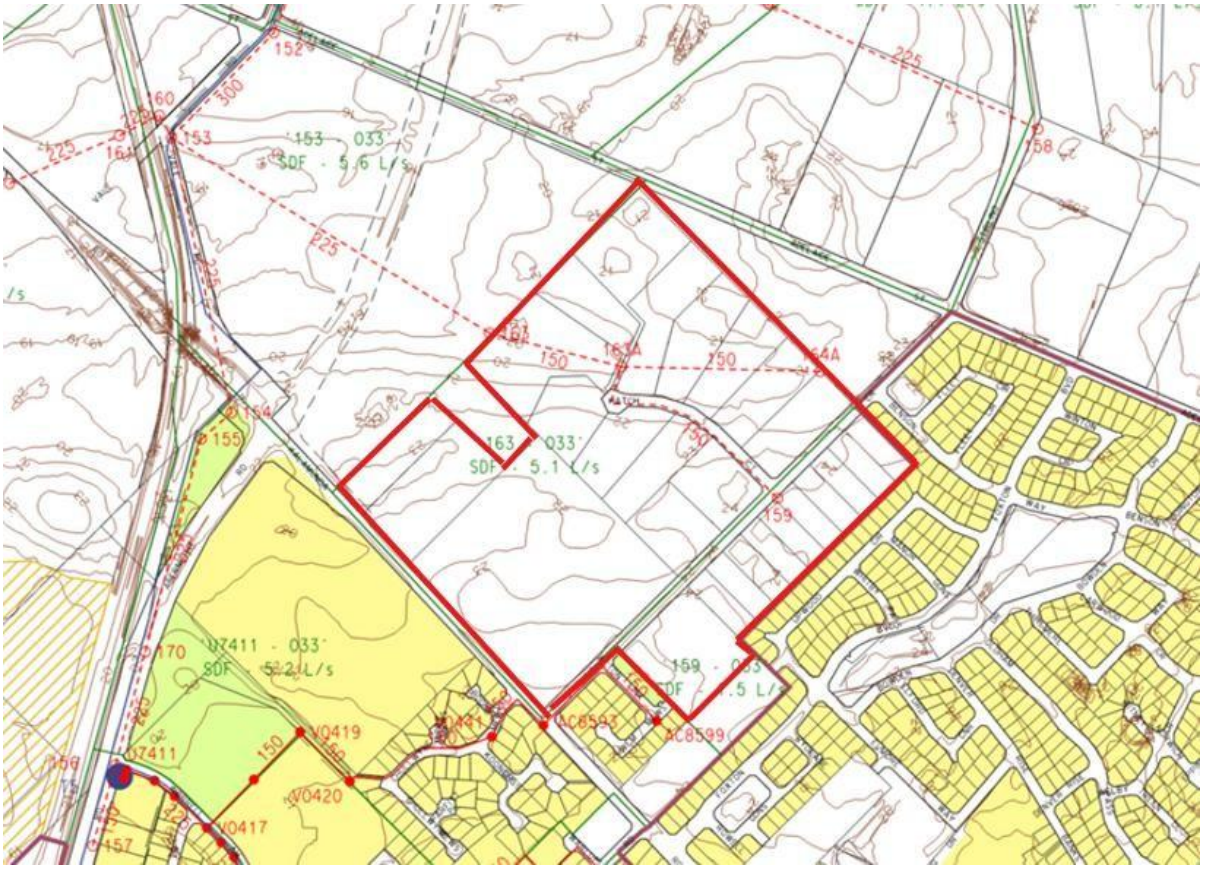


Figure 12 – Existing Water Corporation Wastewater Planning

5.5 POTABLE WATER SUPPLY

The following advice was provided at a meeting with Water Corporation in regard to potable water reticulation:

Whilst the current area is serviced by reticulated water supply, the mains are sized for the current zoning which is predominately rural and therefore would require upgrading. The will apply to both the SCP and the HCLIA areas.

When the area is developed, upgrading of water mains will be required to provide the required capacity to the developed lots (both residential and industrial).

Please note the extract below from the current ESINET planning (Refer **Figure 13** below). The mains will be required to be constructed as part of the subdivision process of this or other proposed developments in the surrounding area.

The plans confirm the presence of existing Water Corporation reticulation and distribution mains throughout the Hatch Court light industrial precinct and surrounding road network.

The existing water supply infrastructure servicing the Hatch Court and Stirling Crescent area is not expected to present any significant constraints to the proposed upgrade works within Hatch Court. A 100 mm cast iron (100CI) water main currently runs along the Hatch Court alignment, providing reticulation to the existing lots, with individual property service connections evident from aerial imagery. The presence of this asset will need to be considered during detailed design and construction planning to avoid service disruptions; however, its location is known and can be managed through standard construction practices and utility protection measures.

While the existing network configuration suggests that there is capacity available to accommodate further industrial development, the extent of any spare capacity cannot be quantified based solely on asset size and location. Confirmation of the available capacity, and the ultimate servicing requirements of the proposed industrial development, would require consultation with Water Corporation and/or a hydraulic network assessment to verify that the existing system can support the anticipated development demand.

Along the Stirling Crescent corridor, a 100mm cast iron (100CI) reticulation main is present, consistent with the distribution network serving the established residential and light industrial lots fronting this road. Larger transmission and distribution mains in the vicinity include a 250mm P-12 main and a 100mm P-12 main running generally northwest–southeast along the Stirling Crescent and Fleet Crescent alignments, serving the broader precinct.

In the broader area around Kalamunda Road, significant Water Corporation infrastructure is present including a 225mm cast iron (255CI) main, a 150mm P-12 main, and a 100mm steel (100S) main running within or adjacent to the road reserve. These represent part of the trunk distribution network for the area.

Also notable within the wider study area is a 250mm P-12 main along the Adelaide Street / Hatch Court interface, and an 180mm MDPE main in the northern portion of the precinct.

All main water extensions for the subject area must be laid within the existing and proposed road reserves, on the correct alignment and in accordance with the Utility Providers' Code of Practice.

Existing water mains are located within the subject area. (Please note plan of existing assets attached) water mains should not be located in private land and should be in and protected by reserves (i.e. road reserves).

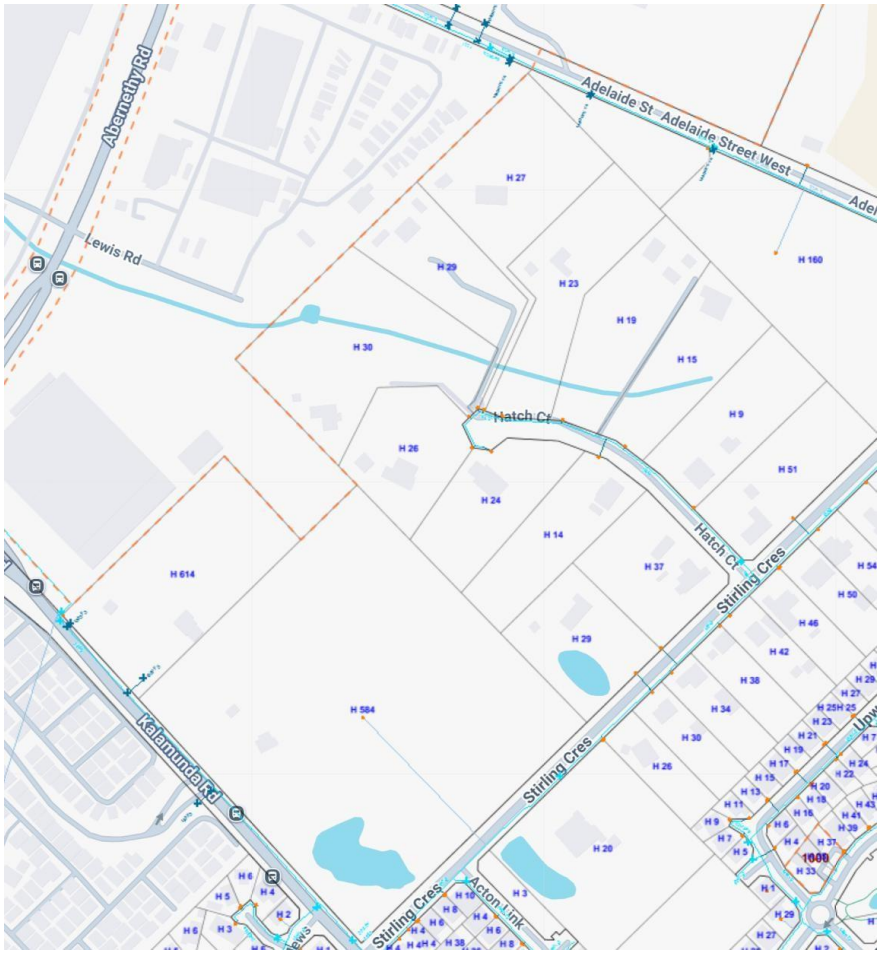


Figure 13 – ESINET Water

5.6 POWER, TELECOMMUNICATION & GAS

5.6.1 Western Power

A Western Power overhead and underground asset search was undertaken for the subject area. The plans identify existing overhead powerlines within and adjacent to the Hatch Court precinct, including High Voltage distribution lines (1 kV – 33 kV) running along Stirling Crescent, and a Transmission line (33 kV – 330 kV) traversing the broader area in a northwest–southeast alignment. Low Voltage overhead lines (< 1 kV) are also present servicing existing lots.

The underground HV/LV plan confirms the presence of underground High Voltage cables (1 kV – 33 kV), Low Voltage cables (< 1 kV), street light circuits, and associated pillars and terminations within the local road network, including along Stirling Crescent and adjacent streets.

A proposed Design Area is indicated near the Adelaide Street / Stirling Crescent intersection, suggesting active or planned Western Power works in this vicinity. Prior to any excavation or construction works, hand exposure via pothole method is mandatory in the vicinity of underground assets.

It is anticipated that all lots within the proposed development will be served with underground power. The cost of this work will need to be met in full by the developer. Western Power requirements will apply.

It is likely that a number of pad mount sites will be required throughout the development, however, due to the range of sizes of lots proposed within the development, it is not envisaged that there will be a problem in providing the sites strategically located to meet both Western Power design requirements and the requirements of the developer.

The street lighting throughout the development shall provide effective illumination for both pedestrian and vehicles.

5.6.2 Telecommunication Services

At Hatch Court, the plans confirm in-service/constructed NBN™ conduit running along the Hatch Court Road reserve, with multiple pit structures present at lot frontages providing individual property connections. The conduit appears to service the existing lots within the court, with pits distributed at regular intervals along the alignment.

Along Stirling Crescent, NBN™ conduit infrastructure is present with pits and direct-buried cables distributed along the road reserve. Multiple conduit runs are visible, consistent with both the existing Telstra-owned (PO) PVC conduit and NBN-owned (P40) 40mm PVC conduit running in the same corridor. Pit spacings are generally 20–25 m apart. A pillar (orange symbol) is also shown near the Stirling Crescent / Winton Crescent intersection, indicating a network aggregation point for the surrounding residential area.

Along the Kalamunda Road corridor, the plans show NBN™ conduit and pit infrastructure running generally parallel to the road reserve, with conduit connections branching to service the surrounding lots. This is consistent with the established network serving the residential and light industrial subdivision in the area.

Information from Telstra indicates there is a service network within the area. It is anticipated that all lots within the proposed development will be served with Telstra Telecommunication services.

Telstra will design (developer to pay) and provide details for the installation of a pit and pipe network at the cost of the developer the new telecommunication network facilities to the proposed lots. Alternatively, where cable routes match power underground supply routes, Telstra will wherever possible use the Western Power trenches in lieu of the developer providing additional trenching.

Telstra or other communications providers will cable the development once development has commenced in the area and applications are made by the land owners for communications services to their development. Headwork charges for Telstra services extensions are anticipated.

5.6.3 Gas Supply

At Hatch Court, a 50mm PVC distribution main (MAOP 70 kPa, natural gas) is present, with individual service connections to existing lots.

Along Stirling Crescent, multiple gas assets are present in close proximity, including a 155mm PVC distribution main (MAOP 70 kPa, NG) and a CRITICAL high-pressure 150mm steel transmission pipeline (MAOP 1,900 kPa, NG). The critical asset is noted to be approximately 0.9 m deep at a deviation point, and 1.5 m deep either side of the deviation. A 155mm PVC main (MAOP 70 kPa) is also present. Individual service connections serve adjoining lots along this alignment.

Along Kalamunda Road, a 160mm PE distribution main (MAOP 70 kPa, NG) is present, along with a CRITICAL 160mm PE pipeline (MAOP 700 kPa, NG) and a CRITICAL 150mm steel pipeline (MAOP 1,900 kPa, NG).

A Critical Asset Warning applies to this area. No works within 15 metres of the critical assets are permitted without prior written approval from ATCO Gas Australia. Hand exposure via pothole method is mandatory prior to any excavation in the vicinity of these assets. The project team must contact ATCO Gas Australia directly before commencing any works.

ATCO Gas has advised that reticulated gas services are available in the surrounding area.

ATCO Gas may provide road crossing conduits for future use; however, this is subject to cost allocations and budgets being approved by the gas authorities.

Please refer to the attached plans in **Appendix C** for further information regarding gas assets.

6. CONCLUSIONS & RECOMMENDATIONS

All essential infrastructure services—water, drainage, power, and gas can feasibly be extended to service the site. However, given the site's position at the edge of the current servicing envelope, careful coordination and early planning will be required, particularly where upgrades or infrastructure extensions are necessary.

Peritas recommend ongoing liaison with the relevant authorities to address infrastructure delivery, land access, and network capacity issues early in the planning process, including confirmation of the timing and delivery arrangements for the reticulated sewer connection required to service the Structure Plan (SCP) area.

This is especially important for a stand-alone development, where cost apportionment and timing of broader infrastructure upgrades, particularly delivery of the reticulated sewer to service the SCP, may pose constraints if not addressed proactively.

Further Investigations and Key Next Steps

The recommendations listed below are intended to identify the additional work streams that may be required to facilitate the orderly progression of the Local Structure Plan (LSP) through the statutory planning process and subsequent subdivision and development stages. They are not necessarily all prerequisites to Council's consideration of whether the LSP should be advertised.

At this stage, the servicing report has been prepared to provide a high-level assessment of the site's servicing opportunities and constraints to inform the LSP. The recommendations identify matters that may require further investigation or confirmation as the planning and development process advances.

1. Liaise further with Water Corporation regarding water and sewer connection strategies, including potential temporary solutions based on staging and coordination with neighbouring developments.
2. Consult Western Power to identify suitable connection points and determine the need for Earth Potential Rise (EPR) or Low Frequency Induction (LFI) assessments.
3. Coordinate with the Western Power transmission team to confirm easement requirements under high-voltage lines.

Since preparation of the servicing report, preliminary consultation has been undertaken with relevant servicing authorities to identify the presence of existing infrastructure and any obvious constraints affecting the site. The outcomes of these investigations have informed the conclusions of the report, namely that the site is capable of being serviced; however, further detailed assessment and confirmation by the respective authorities will be required as the proposal progresses through later planning and development stages.

Accordingly, the recommendations should be viewed as a roadmap for the next phase of investigations rather than as outstanding matters that prevent Council from considering the LSP for advertising. Any requirements identified through agency referrals during the advertising process can be addressed prior to final adoption of the LSP or as conditions of subsequent subdivision approvals, as appropriate.

Priority Recommendations:

Post-LSP Progression
Finalize servicing alignments, including confirmation of reticulated sewer delivery to service the Structure Plan (SCP) area.
Acid sulfate soil (ASS) testing & Management Plan as part of subdivision development.
Asset relocation and protection coordination.

Early and proactive engagement with major service authorities is recommended to confirm detailed requirements for:

- Confirm servicing capacities and connection strategies
- Clarify potential infrastructure upgrades
- Enable coordinated forward works planning and budgeting

In summary, the subject site presents a viable and serviceable urban development opportunity. With further detailed investigation and ongoing stakeholder collaboration, the site can be delivered as a high-quality, fully serviced development precinct.

APPENDIX A– LOCAL STRUCTURE PLAN & LAYOUT

LEGEND

- HATCH COURT PRECINCT
- STIRLING CRESCENT PRECINCT
- RESIDENTIAL (R25)
- RESIDENTIAL (R30)
- LIGHT INDUSTRY
- ROAD
- CUL DE SAC
- DESIGNATED CROSSOVER LOCATION
- POS
- LIVING STREAM
- WETLAND
- WETLAND BUFFER (15m)

ABERNETHY ROAD

ADELAIDE STREET

STIRLING CRESCENT

HATCH COURT

KALAMUNDA ROAD

DRAFT

0 50 100 150 200

metres

COPYRIGHT RESERVED BASE PLAN COURTESY OF LANDGATE

LOCAL STRUCTURE PLAN

CITY OF KALAMUNDA

VARIOUS LOTS - STIRLING CRESCENT / HATCH COURT

SCALE: 1:4,000 @ A3

DATE: 16 July 2026

FILE: 2490-2-001K

DRAW: - BL

CHECKED: -

DYNAMIC PLANNING AND DEVELOPMENTS

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APPENDIX B – GEOTECHNICAL REPORT

Report on:

GEOTECHNICAL AND ASS STUDY HATCH COURT LIGHT INDUSTRIAL AREA AND STIRLING CRESCENT PRECINCT HATCH COURT AND STIRLING CRESCENT, HIGH WYCOMBE, WA

WAG250138-01 001 R Rev0

Submitted to:

Dynamic Planning and Developments

PO Box 688

INGLEWOOD WA 6932

26 September 2025

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Appendix C: Borehole Logs
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Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

1. INTRODUCTION

This report presents the outcomes of Galt Geotechnics' (Galt's) geotechnical and acid sulfate soils (ASS) study for the proposed Hatch Court Light Industrial Area (HCLIA) and Stirling Crescent Precinct (SCP), at Hatch Court and Stirling Crescent, High Wycombe ("the site").

This report is to be read in conjunction with the appended "Geotechnical Definitions, Recommendations, Requirements and Limitations". 'Clause GDR1', etc. refer to this Appendix, found at the back of this report.

2. KEY FINDINGS

Over most of both sites, **we encountered SAND, extending to depths of 2.0 m to over 6.2 m, overlying Guildford Formation** (interbedded stiff to hard cohesive soils and medium dense granular soils) at some locations extending beyond investigated depths. In addition to the above:

- The surficial **sand is interbedded with Cemented sand / 'Coffee Rock' layers** (about 0.3 m to 1.0 m thick) below about 2.0 m to 3.4 m depth. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations.
- **Peat / organic soils were encountered** within / adjacent the drainage line in the northern part of the HCLIA site, and within the wetland area near Lewis Road (refer Figure 1). Similar zones of organic soils could be present in lakes at the site (refer Figure 1).
- **Surficial uncontrolled fill about 1.1 m thick was encountered** in the northern corner of site at 27 Hatch Court within the HCLIA (refer Galt report referenced: WAG250256-01 001 R Rev1).

The locations of encountered coffee rock, Guildford Formation and organic soils are summarised in Attached Tables 3 to 7.

Groundwater was encountered at depths ranging from the ground surface to over 3 m. Groundwater was also observed in lakes in southern part of each site, and along drainage line in northern part of HCLIA site.

The sites are considered broadly geotechnically suitable for the proposed development (LSP amendment to industrial use). Standard site preparation measures for sand sites will apply for most of the site area. However, geotechnical challenges relevant to the proposed development are summarised as follows:

- **Peat / organic soils must be removed** if these areas are to be developed. Removal of these soils is likely to require dewatering. Management / treatment of organic / acid sulfate generating soils and acidic groundwater could also possibly be required (refer Section 12);
- **Cemented sand / 'Coffee Rock' layers could have a low permeability**, which could impact the performance of soakwells. Coffee rock also has the potential to be acid generating (if removed) and would require treatment (refer Section 12);
- **Areas of shallow groundwater have been identified** in lower lying areas. Shallow groundwater will impact temporary excavations, and compaction during construction. Dewatering is likely to be required, particularly if construction is undertaken during winter. The potential requirement for and ASSDMP is discussed in Section 12. Shallow groundwater will affect the performance of soakwells and effluent disposal. Control of groundwater levels at the site must be assessed by a suitably qualified civil engineer / hydrogeologist. Subsoil drainage could possibly be required;
- **Surficial uncontrolled fill in the northern corner of the site must be removed**, assessed by a suitably qualified engineer and environmental scientist (refer Section 12), and either removed from site, or (if suitable) reused as approved fill; and
- **Environmental considerations are** discussed in Section 12.

We do not consider that the sites are geotechnically unusual in the context of the nearby area and similar industrial developments. We do not consider that there are any major contamination encumbrances to a proposed rezoning.

3. SITE DESCRIPTION

Table 1: Summary of Site

Item	Comment
Site Extent	Refer to In-line Image 1.
Site Area	Hatch Court Light Industrial Area (HCLIA): ~30 ha (16 lots). Stirling Crescent Precinct (SCP): ~6 ha (11 lots).
Current Site Surface Elevation[1]	Around RL 20 m AHD at the north to RL 24 m AHD at the south.
Vegetation	Vegetation present in landscaped areas surrounding houses and associated infrastructure. Vegetation includes grassed areas, some mature trees and some bushes (refer Figure 1). Dense vegetation along drainage line in northern part of HCLIA site.
Current Land Use	Mostly rural-residential developments and associated infrastructure. South west part of site (Lots 614 and 584) is a hardstand area (refer Figure 1).
Site drainage	Drainage line traverses from west to east in northern part of HCLIA site. Wetland area present in western corner of HCLIA site near Lewis Road. Several damp lands are apparent from historical aerial photos (refer In-line Image 2). Localised lakes are present in southern part of both the HCLIA and SCP sites, which are judged to be expressions of groundwater.
Site History[2]	**Prior to 1979**: Site mostly pastoral / agricultural land. Three residences developed on site. **1979 to 1983**: Development of residential buildings in SCP. **1983 to 1995**: Development of Hatch Court. And associated residential lots / developments. **1995 to 2018**: Site relatively unchanged. Some additional residential buildings and associated infrastructure constructed progressively during this time. **2018**: to Construction of hardstand in western corner of site. **2018 to 2024**: progressive construction of hardstand in western part of site (Lots 614 and 584).

NOTES: ***1.*** *Site elevation based on publicly available data (Landgate).*

2. *Site history based on aerial imagery (Landgate).*



In-line Image 1: Approximate extent of subject area



In-line Image 2: Aerial photo of site in 1961. HCLA marked in red/yellow.

4. PROPOSED DEVELOPMENT

Table 2: Summary of Proposed Development

Item	Comment
Proposed Development	LSP amendment to facilitate subdivision of industrial lots with associated infrastructure
Cut/Fill	Assumed typically up to about ± 1 m. Fill is generally anticipated to be required in low lying areas to achieve adequate clearance to groundwater.
Assumed Retaining Walls	Gravity walls up to about 2 m high
Assumed Stormwater Disposal	Possibly on site via soakwells with overflow to regional drainage.
Assumed Sewage Disposal	On site via leach drains

5. PROJECT OBJECTIVES

The objective of the geotechnical study is to assess the geotechnical suitability of the site for the proposed development. Our scope is limited to undeveloped portion of the HCLIA (i.e. excludes Lots 614 and 584)) and entirety of the SCP.

The objectives of the environmental assessment are to investigate the risk of acid sulfate soils (ASS) across the site through soil and groundwater analysis and provided recommendation for the treatment of ASS of groundwater (if required). No specific infrastructure is proposed at this stage, therefore the assessment is high level for the general assessment of ASS.

Comment is also required on the potential contamination risk within the HCLIA and SCP.

6. PREVIOUS STUDIES

Galt has previously undertaken a number of geotechnical studies for individual lots within and adjacent the site as summarised below:

- **Located within site:**
  - 27 Hatch Court in May 2025 (report reference: WAG250256-01 001 R Rev1);
  - Lots 8 and 16 Stirling Crescent in November 2024 (report reference: WAG240438-01 001 R Rev2);
- ***Located north of site / not within site:***
  - 71 Stirling Crescent in March 2023 (report reference: WAG230133-01 001 R Rev1); and
  - Part of Lot 1499 Stirling Crescent in September 2023 (report reference: WAG230463-01 002 R Rev1).

Test locations from the above reports are shown on Figure 1. Relevant information from the above studies are incorporated into this report.

7. FIELDWORK

7.1. General

Fieldwork was carried out on 25 August and 05 September 2025 and is summarised below.

Table 3: Summary of Fieldwork

Type	Results Appendix	Summary	GDR Clause	Equipment Used	No. Tests	Depth Range (m)
Site Plan	Figure 1	-	-	Hand held GPS[1]	-	-
Photographs	A	-	-	-	-	-
Cone Penetration Tests (CPTs)	B	Section 9.4	GDR3.2	Pagani TG 73-200	16	2.34 to 5.20
Boreholes (BH)	C	Section 9.4	GDR3.3	EVH Scout on utility / 7822DT / Hand Auger	14	1.30 to 3.00
Monitoring Wells (MW)	C	Section 7.3	-	7822DT	3[2]	3.00
Constant Head Permeameter Tests (G)	D	Section 7.2	GDR3.8	Guelph Permeameter	7	0.38 to 0.57

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *One groundwater monitoring well location was unavailable for sampling after installation.*

7.2. Permeability Test Results

Table 4: Permeability Test Results (Constant Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
G01/BH01	SAND (SP)	0.38	25.01	1
G02/BH02	SAND (SP-SM)	0.42	*0.94*[3]	*3*[3]
G03/BH03	SAND (SP)	0.57	9.05	1
G05/BH05	SAND (SP)	0.44	*0.44*[3]	*4*[3]
G07/BH15	SAND (SP)	0.53	9.82	1
G09/BH09	SAND (SP)	0.52	3.94	1
G10/BH10	SAND (SP)	0.47	3.53	1
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
G01	SAND (SP)	0.33	3.56	1
G02	SAND (SP)	0.41	2.82	2
G03	SAND (SP)	0.40	3.31	1
71 Stirling Crescent in March 2023 (WAG230133-01 001 R Rev1, *located north of site / not within site)*				
IT01	SAND (SP)	0.50	1.6	2
IT02	SAND (SP)	0.50	2.1	2
IT03	SAND (SP)	0.55	3.3	1
IT04	SAND (SP)	0.60	2.8	2
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
G01	SAND (SP)	0.44	5.11	1
G02	SAND (SP)	0.50	3.17	1
G03	SAND (SP)	0.39	3.26	1
G04	SAND (SP)	0.40	10.95	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, *located north of site / not within site)*				
G01	SAND (SP)	1.00	3.9	1
G01A	SAND (SP)	0.80	2.3	2
G01B	SAND (SP)	0.53	> 15	1
G02	SAND (SP-SM)	0.90	*0.07*[4]	*-*[4]
G02A	SAND (SP)	0.70	1.74	2
G02B	SAND (SP)	0.70	1.67	2
G02C	SAND (SP)	0.50	>15	1

NOTES:

1. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS1547 (2012) "On-site domestic wastewater management".*
2. *Soil type is as per Table 5.2 of AS1547-2012.*
3. *Test results likely to have been influenced by shallow groundwater*
4. *Result considered spurious.*

Table 5: Permeability Test Results (Falling Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
BH02 / IT01	SAND (SP)	0.84	3.9	1
BH07 / IT02	SAND (SP)	0.90	3.8	1
BH08 / IT03	SAND (SP)	0.84	31.3	1
BH05 / IT04	SAND (SP)	0.84	4.7	1
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
BH07 / IT01	SAND (SP)	0.88	> 15	1
BH08 / IT02	SAND (SP)	0.86	6.3	1
BH10 / IT03	SAND (SP)	0.82	3.9	1
BH16 / IT04	SAND (SP)	0.77	7.1	1
BH06 / IT06	SAND (SP)	0.77	> 15	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, l*ocated north of site / not within site)*				
IT01	SAND (SP)	0.95	10.6	1
IT02	SAND (SP)	1.00	9.4	1

NOTES: ***1.*** *Soil type is as per Table 5.2 of AS1547-2012*

2. *Test method described in GDR3.7.*

3. *Test results likely to have been influenced by shallow groundwater*

7.3. Soil Sampling

Soil samples for the ASS study were collected from selected boreholes in accordance with the following guidelines:

- Department of Environmental Regulation (DER) (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes and;*
- Department of Agriculture and Water Resources (DAWR) (2018) National Acid Sulfate Soils Guidance.

Samples collected for acid sulfate soils testing were collected at 0.25 m intervals using dedicated nitrile gloves and placed in laboratory-supplied sample bags. The samples were then placed in an ice chilled cooler in the field, and then transferred to a freezer until field testing was undertaken. All samples scheduled for analysis were transported to the laboratory with sufficient packaging and ice to ensure preservation of sample integrity. The lateral borehole distribution is considered appropriate for the project and in accordance with the aforementioned regulatory guidelines.

7.4. Acid Sulfate Soil Field Testing

A small portion of each soil sample was tested for pH before (pH_F) and after (pH_{FOX}) rapid oxidation with hydrogen peroxide (H_2O_2). The samples were then placed in an ice chilled cooler until submission to the laboratory for chromium reducible sulfur (CRS) analysis.

Samples with field pH values (pH_F) of <3 to 4 indicate the presence of ASS, thus indicating acids in the soil profile have oxidised.

The presence of unoxidized acids or potential acid sulfate soil (PASS) is indicated if:

- a strong reaction with hydrogen peroxide is observed;
- the pH_{FOX} is at least 1 pH unit below pH_F; or
- the pH_{FOX} is <3 to 4 and one or both of the above conditions apply.

The texture based net acidity action criteria presented in the DER (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes* guideline document specifies a value of 0.03 %S based on the anticipated volume of soil to be disturbed being greater than 1,000 tonnes. This value has been adopted for the assessment of net acidity in soils across the site.

7.5. Groundwater Monitoring Wells

Groundwater monitoring wells were installed in boreholes drilled Geoprobe 6620 DT drill rig supplied and operated by Direct Push Probing.

Wells were constructed using 50 mm, class 18 flush-threaded PVC with a 2.5 m screened interval was installed at the base of each well and finished with approximate 0.6 to 0.7 m solid section extending to the surface. Refer to Appendix C for more information on construction details for each well.

A submersible pump was used to remove fine sediments and filter sand from the well. Groundwater levels were measured more than 7 days after installation and development to allow the water in the well to reach hydrostatic levels (refer Attached Table 3).

7.6. Groundwater Sampling

The groundwater wells were sampled in accordance with the following Australian Standards:

- AS/NZS 5667.1:1998 Water Quality Sampling. Part I – Guidance on the Design of Sampling Programs, Sampling Techniques and the Preservation and Handling of Samples; and
- AS/NZS 5667.11:1998 Water Quality Sampling. Part II – Guidance on the Sampling of Groundwater. Groundwater samples were recovered using low-flow methods.

The pump was set at the centre of the screened interval and drawdown measured concurrently whilst pumping to ensure the pump flow rates were less than the recharge capacity of the well. An initial flow rate in the order of 0.5-1.0 L/min was used and adjusted as appropriate to ensure minimal drawdown (<0.1m) during purging. New nitrile disposable gloves were used at each monitoring well location.

Representative samples for laboratory analysis were collected after stabilisation of groundwater physio-chemical parameters was achieved. Measurements of these parameters including temperature, pH, electrical conductivity, redox potential and dissolved oxygen, were taken every 60 seconds using appropriately calibrated equipment.

Stabilisation of groundwater parameters is considered to be achieved when there is less than 10% variation in physiochemical parameters between three successive readings. The groundwater physio-chemical parameters were recorded which included physical observations such as colour and turbidity of the purged water, any indications of the presence of contamination, including odour, sheen, the presence of any foreign material or objects, any quality assurance/quality control (QA/QC) sampling and the unique sample identifier.

Groundwater samples were collected directly from the low-flow pump into appropriately preserved and labelled, laboratory supplied bottles and filled to zero headspace. Samples that required field filtering were collected using an in-line, single-use, 0.45 µm filter.

All samples were stored in an ice chilled cooler during fieldwork and submitted to the laboratory at the conclusion of the field work, with adequate packing to ensure that they arrived intact and at the appropriate temperature to ensure sample preservation.

8. LABORATORY TESTING

8.1. Geotechnical

Geotechnical and chemical laboratory testing of soil samples was undertaken by Western Geotechnical and Laboratory Services (WGLS) and Envirolab Services (WA) at their NATA accredited laboratory. Laboratory test results along with the test methods followed are presented in Appendix E and summarised in Attached Tables 1 and 2.

Chemical test results from previous studies are also included in Attached Table 2.

8.2. Environmental

Environmental laboratory testing was conducted by Eurofins laboratory using the chromium reducible sulfur (CRS) method which provides acid base accounting and quantification of potential acid generation. The selection of samples for laboratory analysis was based on soil type and the results of field testing. Groundwater samples were also analysed by Eurofins laboratory for the Department of Water – Groundwater Quality Suite. All laboratory analysis was undertaken using NATA-accredited methods of analysis.

Laboratory certificate of analysis are presented in Appendix F.

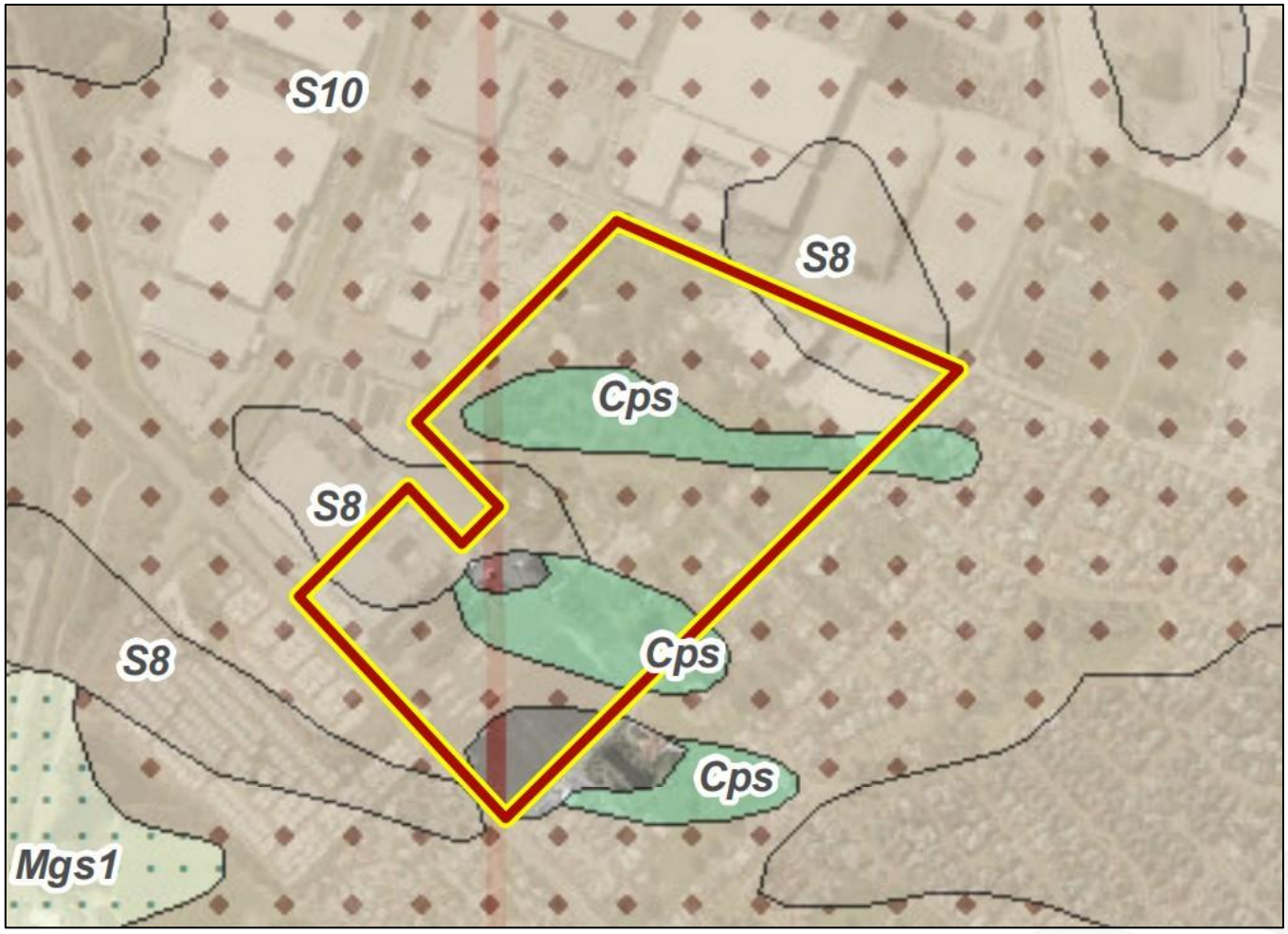
9. SITE CONDITIONS

9.1. Geology

Table 6: Summary of Geology Mapping

Map Sheet	Map Scale	Mapped Soils
Perth	1:50,000	Refer In-Line Image 3 for distribution of following units: **- Cps**: Peaty CLAY: "*dark grey and black with variable sand content of lacustrine origin [Swamp Deposits (Qhw)]*" **- S8**: Bassendean SAND: "*very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin*" **- S10**: "*Thin Bassendean Sand over Guildford formation*"

***NOTE**: Encountered subsurface profile discussed in Section 9.4.*



In-line Image 3: Excerpt from Perth 1:50,000 scale environmental geology map. HCLIA marked in red/yellow.

9.2. Groundwater

Table 7: Summary of Groundwater Levels

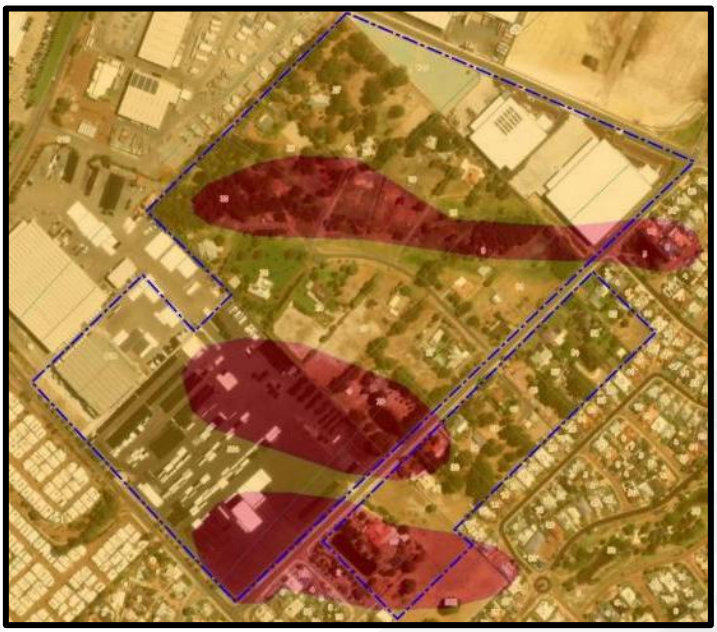
Item	Date	Depth Range (m)	Elevation Range (m AHD)	Comment
Perth Groundwater Atlas	2004	-	North: 13 South: 15	Inferred from levels measured in monitoring wells near the end of summer in 2004 only.
	2019		North west: 15.0 to 17.0 South east: 18.5 to 19.5	Inferred from maximum and minimum levels measured in monitoring wells in 2019 only.
DBCA Mapping	-	-	-	Most of the site are mapped as "Sumpland/Dampland", defined as a seasonally inundated/waterlogged area.
Site observations	Aug/Sept 2025	-	Surface to > 3 (Refer Attached Tables 3 to 7)	Groundwater also observed in lakes in southern part of site, and along drainage line in northern part of site. Groundwater could perch on underlying clay / clayey soils at the site.
Recommended Design	-	-	-	Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Subsoil drains and / or table drains could possibly be required.

NOTES: ***1.*** *Perth Groundwater Atlas observations based on monitoring wells which are not located at the site.*

2. *Elevation range for site observations is based on depth and site levels during fieldwork*

9.3. Acid Sulfate Soils

According to the DWER online ASS risk database, the HCLIA and SCP sites are is generally mapped as being within an area of 'moderate to low' ASS risk (highlighted in yellow in In-line Image 4 below) , with part of the site identified as having 'high to moderate' risk (highlighted in red in In-line Image 4 below) within the upper 3 m of the soil profile. High risk areas are judged to be associated with potential organic soils mapped in these areas (refer Section 9.1).



In-line Image 4: ASS Risk Mapping (DWER Database)

9.4. Contamination

The DWER contaminated sites database indicates that the site is not registered as a contaminated site. We note that the public database only shows sites classified as 'Remediated for restricted use', 'Contaminated – restricted use', 'Contaminated – remediation required'.

We understand that the site is likely to be redeveloped for commercial/light industrial purposes and as such, the site is unlikely to be changing to a more sensitive land use.

During fieldwork there were no visual or olfactory indicators of potential contamination. We note that some uncontrolled fill is present in the northern corner of the site. This may require investigation if anthropogenic waste is encountered within the material and/or it is proposed to be reused onsite.

10. GROUND MODEL

The encountered subsurface conditions are summarised in Attached Tables 3 to 7, ad can be generalised as follows:

Most of HCLIA and SCP Sites:

- Surficial Topsoil / Hardstand / Sand Fill Layers; over
- **SAND (SP / SP-SM)**: fine to medium grained, sub angular to sub rounded, typically grey, typically trace fines, typically loose to depths of about 0.5 m to 2.5 m and then becomes typically medium dense, extending to depths of 2.0m to over 6.2 m; with
  - **Interbedded layers of cemented sand / 'Coffee Rock'**: encountered at some locations as cemented layer of sand typically with a higher fines content (i.e. Silty SAND in some zones) about 0.3 m to 1.0 m thick (where penetrated) and below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7 for locations encountered). Coffee rock inferred from CPT refusal at some locations. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. Layer underlain by sand; over
- **Guildford Formation interbedded CLAY / Clayey SAND / Sandy CLAY / SAND Layers (SP/SC/CL-CH)**: typically stiff to hard cohesive layers and medium dense sand layers, locations of encountered Guildford Formation summarised in Attached Tables 3 to 7.

HCLIA - within / adjacent drainage line and wetland area[1]:

Variable organic soils were encountered as follows:

- **CPT01**: Possible inferred organic soil layer from 0.9 m to 1.2 m depth;
- **BH02**: Trace organics in Clayey SAND from 0.9 m to 2.0 m depth;
- **BH04**: Organic Clayey SAND from 0.7 m to 1.4 m depth
- **BH12/MW01**: PEAT from 0.0 m to 0.6 m depth, and then Organic SAND from 0.6 m to 1.4 m depth.

Notes:

- [1] Drainage line traverses from west to east in northern part of site (refer Figure 1). Wetland area present in western corner of site near Lewis Road. Similar zones of organic soils could be present in lakes at the site (Refer Table 1).
- [2] An area of surficial uncontrolled fill about 1.1 m thick was encountered in the northern corner of site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1);

11. GEOTECHNICAL ASSESSMENT

The HCLIA and SCP sites are considered geotechnically suitable for redevelopment as industrial land, provided appropriate site preparation is done. Standard site preparation measures for sand sites will apply for most of the site. Geotechnical challenges relevant to the proposed development are summarised as follows:

- **Peat / organic soils** were encountered within / adjacent the drainage line in the northern part of the HCLIA site, and within the wetland area near Lewis Road (refer Figure 1). Similar zones of organic soils could be present in lakes at the site (refer Figure 1 – could also extend to lake in south of SCP). If these areas are to be developed, organic soils will need to be removed from the site. We note that organic soils are likely to be acid sulfate generating, and therefore would require treatments (refer Section 12). Dewatering is also likely to be required to enable remediation of these areas;
- **Cemented sand / 'Coffee Rock'** layers (about 0.3 m to 1.0 m thick) interbedded within the sand were encountered below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7). Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. These materials could have a low permeability, which could impact the performance of soakwells. Coffee rock also has the potential to be acid generating (if removed) and would require treatment (refer Section 12);
- **Areas of shallow groundwater** have been identified in lower lying areas (refer Table 7 and Attached Table 3). Shallow groundwater will impact temporary excavations, and compaction during construction. Dewatering is likely to be required, particularly if construction is undertaken during winter. The potential requirement for and ASSDMP is discussed in Section 12. Shallow groundwater will affect the performance of soakwells and effluent disposal. Control of groundwater levels at the site must be assessed by a suitably qualified civil engineer / hydrogeologist. Subsoil drainage could possibly be required;
- **Surficial uncontrolled fill** about 1.1 m thick was encountered in the northern corner of site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1). Uncontrolled fill must be removed, assessed by a suitably qualified engineer and environmental scientist (refer Section 12), and either removed from site, or (if suitable) reused as approved fill; and
- **Environmental considerations** are discussed in Section 12.

Geotechnical recommendations for the site are summarised in the Table 8.

Table 8: Summary of Geotechnical Assessment

Type	Clause	Parameter	Comment
Site Suitability	-	-	We consider both sites to be geotechnically suitable for the proposed development with appropriate site preparation measures. Standard site preparation measures will apply for most of the site (refer further comments above table).
Site Classification (AS2870)	GDR5	A / P	Class A for most of each site. Class P in drainage lines, wetland areas and lakes (refer Table 1). The site classification in these areas could be improved if organics soils are removed and replaced.
Site Subsoil Class (AS1170.4)	-	Ce	-
Site Preparation	GDR6	-	**For most of the site**: preparation will comprise **GDR6.2.1 Common Measures** followed by **GDR6.2.2 Sand Sites.** Surficial uncontrolled fill in the northern part of the site must be remediated (refer Galt report referenced: WAG250256-01 001 R Rev1). We anticipate raising of the site above shallow groundwater levels by importation and compaction of sand fill (**Permeable Sand**), however this is subject to civil design. **In drainage lines, wetland areas and lakes (refer Table 1):** If these areas are to be developed, organic soils present in these areas (refer Section 9.4) will need to be removed and replaced with approved fill. Dewatering and treatment of water / soil for acid sulfates will also be required (refer Section 12).

Type	Clause	Parameter	Comment
Footing Preparation and Testing	GDR6.4	-	We expect the base of footings at this site to be entirely within sand. We refer you to GDR6.4.1. A PSP may be used to verify compaction in footing excavations as discussed below.
Topsoil Strip	GDR6.2.1	Thickness = 100 mm	Expected thickness of topsoil strip (average).
Compaction Control	GDR7	-	Requirements for "Sand" as per GDR7 Compaction control at this site may be done using a Perth sand penetrometer (PSP). The target blow counts for "Bassendean Sand" are applicable as per **GDR7.4 Perth Sand Penetrometer.**
Approved Fill	GDR8	Permeable Sand or General Sand	Approved fill at this site is to comprise **Permeable Sand** (where stormwater disposal is required) or **General Sand** (where stormwater disposal is not required) as per **GDR8 Approved Fill and Conformance Testing.** The insitu sand is suitable for reuse as **General Sand**, and as likely to have an unsaturated hydraulic conductivity of approximately 3 m/day when compacted. **Further permeability testing of recompacted insitu sand is required to derive a design hydraulic conductivity value.**
Excavations, batters and slopes	GDR12	1V:2H (temporary) 1V:3H (permanent)	Excavations in sand should be readily achievable to 2 m with 15 ton excavator or similar. The batter angles given are for slopes up to 2 m high and above groundwater. Refer to **GDR12 Excavations, Batters and Slopes** for more information. **Dewatering will be required for excavations in lower lying areas of shallow groundwater.**
Unsaturated Hydraulic Conductivity	GDR13	k_{unsat} = 3 m/day for isolated soakwells, and k_{unsat} = 5 m/day for interconnected soakwells.	k_{unsat} values apply where disposing into natural grey sand, minimum 0.5 m above the groundwater table, coffee rock layers (or overlying perched water) or black / brown sand layers near the groundwater table as per GDR13.4.
Pavement Subgrades	GDR16	CBR = 10%	For subgrades of granular pavements comprising compacted approved fill / insitu sand.
Acid Sulfate Soils	-	Refer Section 12	Management of acid sulfate soils is likely to be required during construction.

NOTES: ***1.*** *q_{all} – allowable bearing pressure (maximum for all footings, refer to footing tables for further details)*

12. PRELIMINARY ENVIRONMENTAL ASSESSMENT

12.1. Soil

The field-testing results are summarised in Table 9 below and presented in Appendix G. Laboratory certificates of analysis are presented in Appendix H

Table 9: Summary of Soil Field Results

Field pHf range	Field pHfox range	pH change	Laboratory pH range	Maximum Net Acidity (%S)
4.7 – 8.5	2.6 – 6.5	1.0 – 5.8	4.0 – 9.5	<0.02 – 0.14

Laboratory analytical results indicate that the net acidity in all samples, except BH16/3.0 (0.14%S) were below the laboratory limit of reporting (LOR) and/or below the maximum net acidity of 0.03%S.

Tabulated results are presented in Appendix G.

12.2. Groundwater

Groundwater at the site was encountered at depths ranging from 0.28 to 1.15 m below ground level with a pH ranging from 6.18 – 7.16. Mildly elevated inherent acidity along with high to very high alkalinity concentrations were noted at

both monitoring locations indicating that groundwater will likely have sufficient self-buffering capacity to maintain an acceptable pH in the event of ASS generation.

Elevated concentrations of aluminium and iron indicate that historical oxidation of ASS may have occurred at the site. Concentrations of chloride were found to exceed non-potable use of groundwater guidelines in MW01 (330 mg/L).

Groundwater field parameters are presented in Appendix H and tabulated groundwater results are presented in Appendix I.

12.3. Summary

Based on the findings of the study and previous experience with ASS identification, coffee rock and organic soils at the site are considered to be ASS.

13. RECOMMENDATIONS

We recommend a more detailed investigation of ASS is conducted in the event that deep disturbances and/or dewatering are required as part of future development at the site. The need for this will mainly depend on the filling regime and disturbances in the drainage lines and lakes present at the site.

14. CLOSURE

GALT GEOTECHNICS





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https://galtgeo.sharepoint.com/sites/wag250138/shared documents/01 dpd si/03 correspondence/wag250138-01 001 r rev0.docx

Attached Table 1: Summary of Geotechnical Index Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)	LS (%)	Org %	MMDD (t/m^3)	OMC (%)	CBR (%)	CBR Swell (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	4	71	25	28	5	2.5	-	-	-	-	-
BH03	1.5 to 1.8	SAND (SP)	-	98	2	-	-	-	-	-	-	-	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	2	66	32	46	6	3.0	10.7	-	-	-	-
BH06	0.6 to 1.0	SAND (SP-SC)	2	92	6	-	-	-	1.2	-	-	-	-
BH10	1.0 to 1.5	SAND (SP)	-	99	1	-	-	-	-	-	-	-	-
G07	0.5 to 0.6	SAND (SP)	-	97	3	-	-	-	0.4	-	-	-	-
G10	0.4 to 0.5	SAND (SP)	1	94	5	-	-	-	1.1	-	-	-	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)													
BH04	0.3 to 0.5	SAND (SP)	0	95	5	-	-	-	1.7	-	-	-	-
BH06	1.0 to 1.4	SAND (SP)	0	96	4	-	-	-	0.5	-	-	-	-
BH07	0.3 to 0.7	SAND (SP)	6	92	2	-	-	-	2.7	-	-	-	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)													
G01	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
BH16	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***													
BH01	0.1 to 0.5	SAND (SP)	1	96	3	-	-	-	-	1.76	12.5	20	0.0
BH03	0.6 to 1.2	SAND (SP)	-	95	5	-	-	-	-	-	-	-	-
BH04	0.1 to 0.4	SAND (SP)	-	96	4	NO	NP	0.0	-	-	-	-	-
BH06	0.5 to 1.2	SAND (SP)	-	97	3	NO	NP	0.0	-	-	-	-	-
BH07	0.0 to 0.4	SAND (SP)	1	96	3	-	-	-	-	1.73	14.5	19	0.0
G02	0.2 to 0.6	SAND (SP-SM)	5	89	6	-	-	-	-	-	-	-	-

Notes

1. *Particle size distribution (by mass)*
   - *Gravel: 2.36 mm – 63 mm*
   - *Sand: 0.075 mm – 2.36 mm*
   - *Fines: <0.075 mm*
2. *Atterberg Limits*
   - *LL: Liquid limit*
   - *PI: Plasticity index*
   - *LS: Linear shrinkage*
   - *NO: Not obtainable*
   - *NP: Non-plastic*
3. *Org: Organic content (by mass)*
4. *Modified compaction*
   - *MMDD: Modified maximum dry density*
   - *OMC: Optimum moisture content*
6. *CBR: California bearing ratio*
   - *Remoulding dry density ratio: 95% MMDD*
   - *Surcharge: 6.75 kg*
   - *Soaking: 4-day soaked*

Attached Table 2: Summary of Chemical Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Electric Conductivity (us/cm)	pH	Phosphorus Retention Index	Exchangeable Sodium Percentage (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	300	8.4	21	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	1000	4.8	200	-
BH06	0.5 to 1.0	SAND (SP-SC)	110	7.3	4.0	-
G07	0.5 to 0.6	SAND (SP)	14	7.8	0.5	-
G10	0.4 to 0.5	SAND (SP)	73	7.7	1.5	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)						
G01	0.3	SAND (SP)	66	6.6	-0.14	-
G03	0.4	SAND (SP)	60	6.6	-0.48	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)						
G01	0.1 to 0.5	SAND (SP)	32	5.8	-0.11	Not Reportable
BH16	0.1 to 0.5	SAND (SP)	36	6.2	-0.25	Not Reportable
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***						
BH04	0.1 to 0.4	SAND (SP)	-	-	0.62	-
G02	0.2 to 0.6	SAND (SP-SM)	-	-	1.2	-

Attached Table 3: Summary of encountered conditions (August / September 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])	Organic Soil layers (m BGL[1])
CPT01	5.1	0.60	0.9 to 1.2 and from 4.0	possibly from 0.9 to 1.2
CPT02	5.1	0.40	3.0	-
CPT03	5.1	1.70	2.2	-
CPT04	5.1	Collapsed[2]	***3.5***[4]	-
CPT05	2.3	0.60	-	-
CPT06	5.1	0.80	***2.0***[4]	-
CPT08	5.1	0.20	-	-
CPT09	5.1	1.40	***3.4***[4]	-
CPT10	5.1	0.20	-	-
CPT12	5.1	0.60	-	-
CPT13	5.1	0.00	4.2	-
CPT14	5.1	0.80	4.1	-
CPT15	5.1	0.80	***3.2***[4]	-
CPT16	3.0	1.10	***2.8***[4]	-
CPT19	5.1	0.80	-	-
CPT20	5.1	0.80	***2.2***[4]	-
BH01	3.0	2.10	-	-
BH02	3.0	0.80	0.9	0.9 to 2.0 - trace organics in clayey sand
BH03	3.0	1.60	***2.6***[4]	-
BH04	3.0	0.10	0.7	0.7 to 1.4 Organic clayey sand
BH05	1.3	0.60	-	-
BH06	3.0	0.40	2.6	-
BH09	3.0	1.30	-	-
BH10	3.0	1.60	-	-
BH11	3.0	1.00	-	-
BH12 / MW01	3.0	1.00	0.0 to 1.4 and 2.6	Peat from 0.0 to 0.6, Organic sand from 0.6 to 1.4
BH13	3.0	0.90	-	-
BH14 / MW03	3.0	0.28	2.0	-
BH15	3.0	1.10	-	-
BH16 / MW02	3.0	1.15	***2.0***[4]	-

NOTES:

1. *'BGL' – below current ground level*

2. *CPT probe hole collapsed before groundwater could be measured.*

3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*

4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*

5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Thicker surficial organic layers encountered near / within drainage line in northern part of site as summarised above. Refer to appendices for further details.*

Attached Table 4: Summary of encountered conditions at 27 Hatch Court (May 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey soil (m BGL[1])
BH01	3	1.7	-
BH02	3	-	-
BH03	3	-	-
BH04	3	1.9	2.8
BH05	3	2.8	-
BH06	3	-	-
BH07	3	2.7	-
BH08	3	-	-
CPT01	6.5	collapsed	6.2
CPT02	5.8	collapsed	2.2
CPT03	6.3	collapsed	6.1
CPT04	6.4	collapsed	3.5
CPT05	6.4	collapsed	6.2
CPT06	6.4	collapsed	2.2

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG250256-01 001 R Rev1 for further details.*

Attached Table 5: Summary of groundwater depths during fieldwork at 71 Stirling Crescent (March 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of cemented[4] soil (m BGL[1])
BH01	1.7	-	***1.7[4]***
BH02	2.0	-	-
BH03	2.0	-	-
BH04	1.0	-	***1.0[4]***

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, inferred from borehole refusal.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230133-01 001 R Rev 1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 6: Summary of groundwater depths during fieldwork at Lots 8 & 16 Stirling Crescent (November 2024)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	3.00	-	-
BH02	3.00	-	-
BH03	3.00	-	-
BH04	3.00	-	-
BH05	2.70	1.2	-
BH06	3.00	-	-
BH07	3.00	-	-
BH08	2.00	-	***2.0***[4]
BH09	3.00	-	-
BH10	3.00	-	-
BH11	3.00	-	-
BH12	3.00	-	-
BH13	3.00	-	-
BH14	2.88	-	***2.5***[4]
BH15	2.30	-	***2.2***[4]
BH16	3.00	-	-
CPT01	6.90	-	6.5
CPT02	2.70	collapsed	***1.8***[4]
CPT03	6.20	collapsed	6.0
CPT04	6.20	collapsed	-
CPT05	6.20	collapsed	-
CPT06	6.20	collapsed	***3.0***[4]
CPT07	2.83	collapsed	***2.8***[4]
CPT08	2.86	collapsed	***2.8***[4]
CPT09	2.91	collapsed	***2.9***[4]
CPT10	2.51	collapsed	***2.5***[4]

NOTES:

1. *'BGL' – below current ground level*

2. *CPT probe hole collapsed before groundwater could be measured.*

3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*

4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*

5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG240438-01 001 R Rev2 for further details.*

Attached Table 7: Summary of groundwater depths during fieldwork at part of Lot 1499 Stirling Crescent (September 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	2.0	-	-
BH02	2.0	1.7	-
BH03	2.0	1.1	-
BH04	2.0	1.9	-
BH05	2.0	1.9	-
BH06	2.0	-	-
CPT01	3.2	collapsed	***3.0***[4]
CPT02	8.4	2.5	***2.5 to 3.5***[4], and from 8.0
CPT03	3.0	collapsed	***2.8***[4]
CPT04	8.2	1.9	-
CPT05	8.2	collapsed	***3.4 to 4.0***[4] and 5.6
CPT06	2.7	collapsed	***2.6***[4]
CPT07	8.2	1.7	4.0

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230463-01 002 R Rev1 for further details.* ***Investigation located north of site (not within site).***

Figures





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

N

0 50 100 150 200 250
Meters

NOTES
Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250	(A3)
DRAWN	CED	
DATE DRAWN	11/9/2025	
CHECKED	–	
DATE CHECKED	–	
PROJECTION	GDA 1994 MGA Zone 50	

Galt Geotechnics Pty Ltd
ACN : 138 490 865
Tel : +61 (0)8 6272-0200
Address : 50 Edward Street
Osborne Park WA 6017

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CLIENT	**DYNAMIC PLANNING AND DEVELOPMENTS**
PROJECT	LSP AMENDMENT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**



Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

WAG250256-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Guelph Permeameter

WAG240438-01-TLF

- Borehole
- Borehole / Standpipe
- Cone Penetration Test
- Guelph Permeameter
- Guelph Permeameter / Standpipe
- Infiltration Test

WAG230463-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Permeability Test
- Sediment Sample

WAG230133-01-FTL

- Borehole
- Borehole / Infiltration Test
- Infiltration Test

NOTES

Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250 (A3)
DRAWN	CED
DATE DRAWN	11/9/2025
CHECKED	–
DATE CHECKED	–
PROJECTION	GDA 1994 MGA Zone 50

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CLIENT	**DYNAMIC PLANNING AND DEVELOPMENTS**
PROJECT	LSP AMENDMENT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN WITH PREVIOUS GALT TEST LOCATIONS

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**

O:\Projects\WAG\250138\01\04 MXD\WAG250138-01-001-G02.mxd (claire.doyle) 11/9/2025 10:21:10 AM

Appendices

Appendix A: Site Photographs

Photograph 1: Site photo near BH13. Water ponded at ground surface



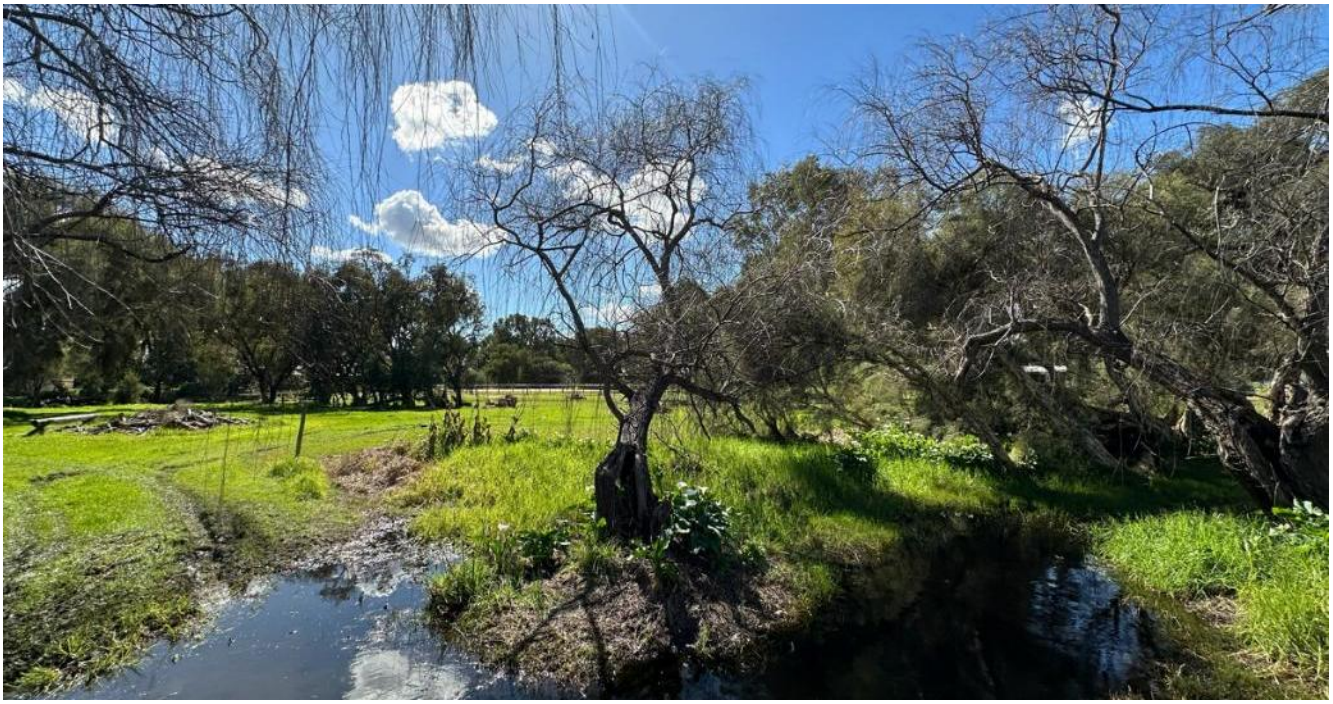
Photograph 2: Near BH02 facing west. Wetland area near Lewis Road.



Photograph 3: Near BH01 facing south east



Photograph 4: Near CPT01 facing north. Wetland area near Lewis Road / drainage line in northern part of site.



Photograph 5: Near BH04 facing north



Photograph 6: Near CPT08 facing west. Drainage line adjacent borehole.



Photograph 7: Near BH10 facing east



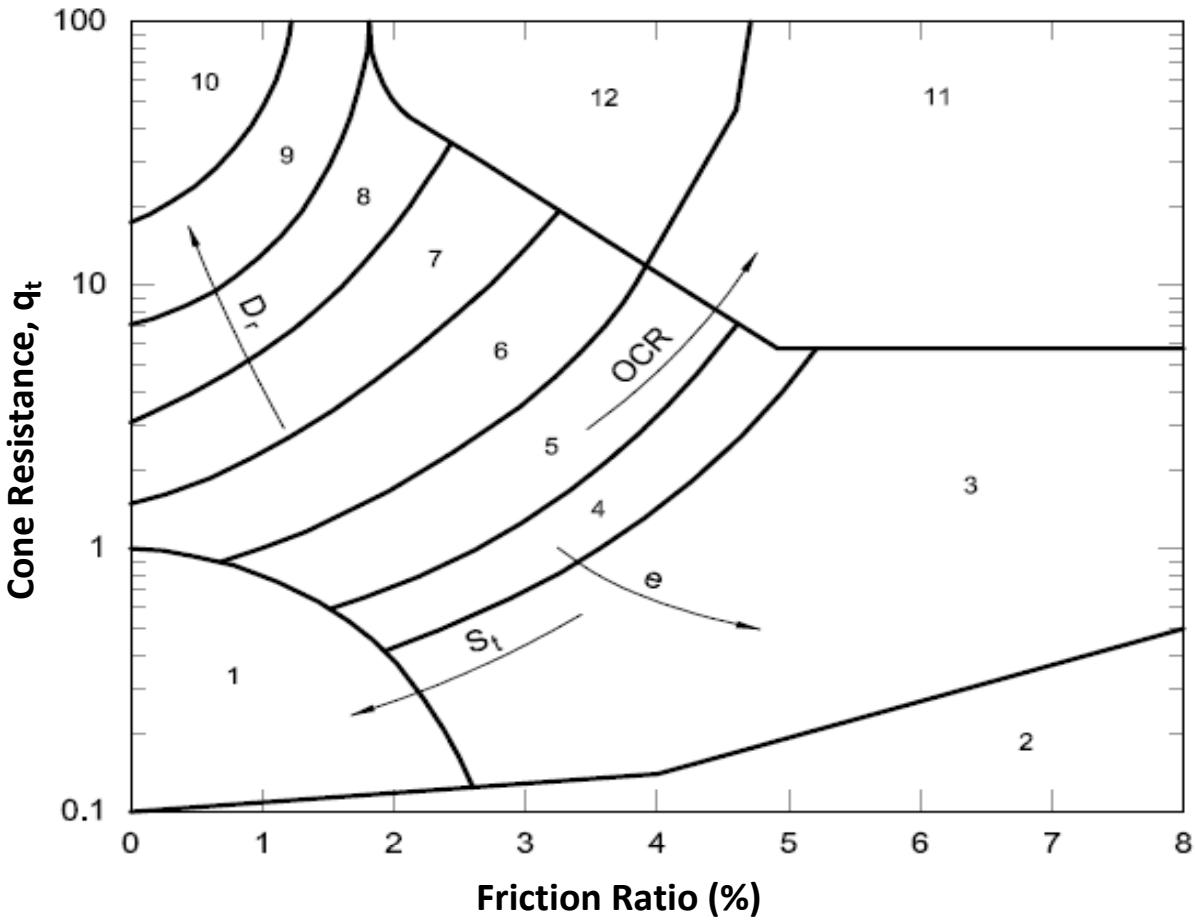
Photograph 8: Near BH15 facing south east



Photograph 9: Near BH06 facing south west



Appendix B: CPT Test Results



DEFINITIONS

q_t : Cone tip resistance corrected for pore water pressure
S_t : Sensitivity
e : Void ratio
D_r : Relative density
OCR : Overconsolidation ratio
OC : Overconsolidated

SOIL BEHAVIOUR TYPE ZONES

1. Sensitive fine grained
2. Organic material
3. Clay
4. Silty clay to clay
5. Clayey silt to silty clay
6. Sandy silt to clayey silt
7. Silty sand to sandy silt
8. Sand to silty sand
9. Sand
10. Gravelly sand to sand
11. Very stiff fine grained material (OC/cemented)
12. Sand to clayey sand (OC/cemented)

NOTES

A. Some overlap in type zones is expected
B. Local correlations are preferred and may indicate soil type boundaries that are different from those shown above

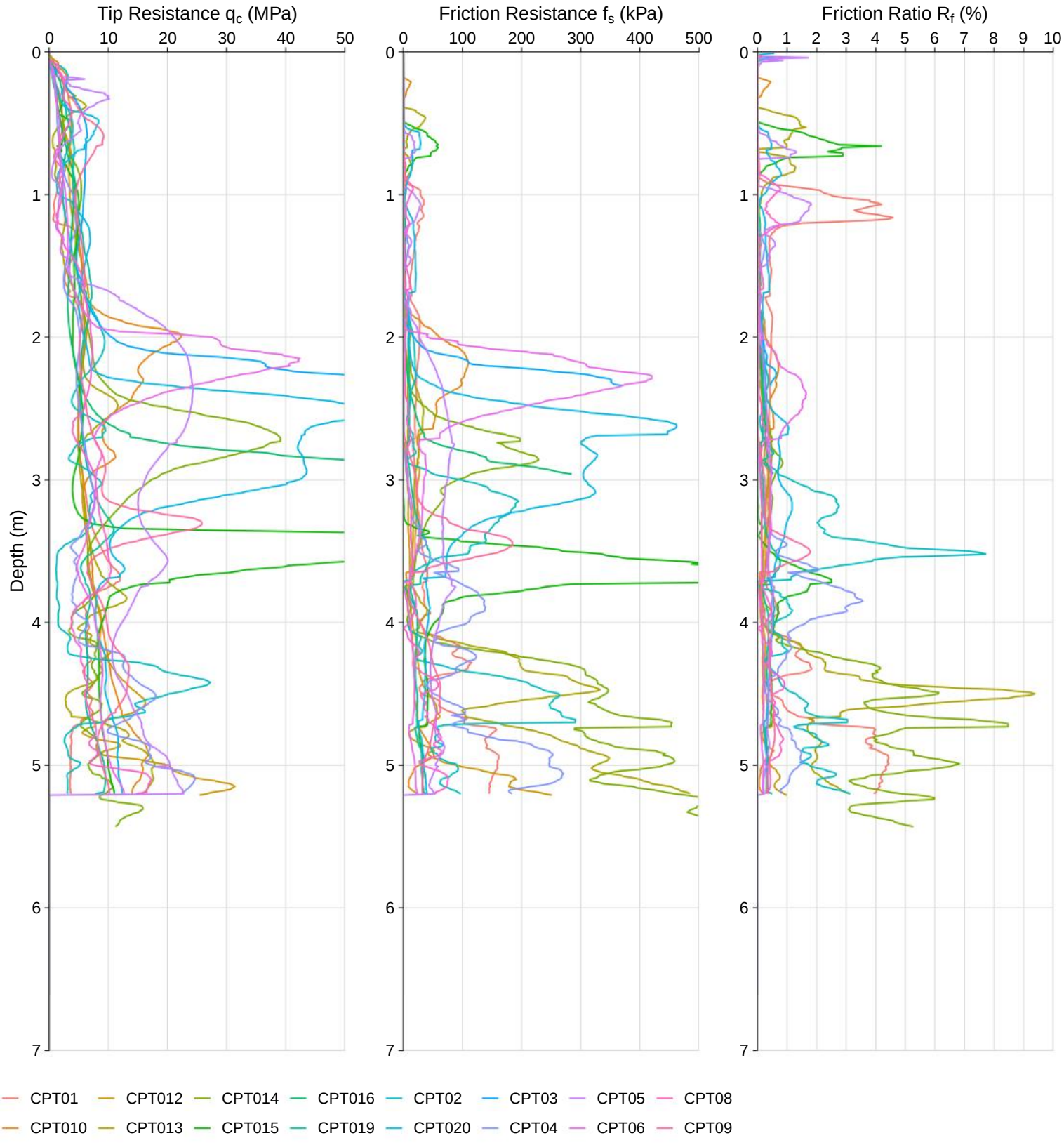
Reference: Robertson, P.K., Campanella, R.G., Gillespie, D. and Grieg, J. (1986) "Use of Piezometer Cone Data". Proceedings of the ASCE Speciality Conference In Situ '86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE)

Galt GEOTECHNICS

CONE PENETRATION TESTING (CPT) SOIL TYPE INTERPRETATION

CONE PENETRATION TEST

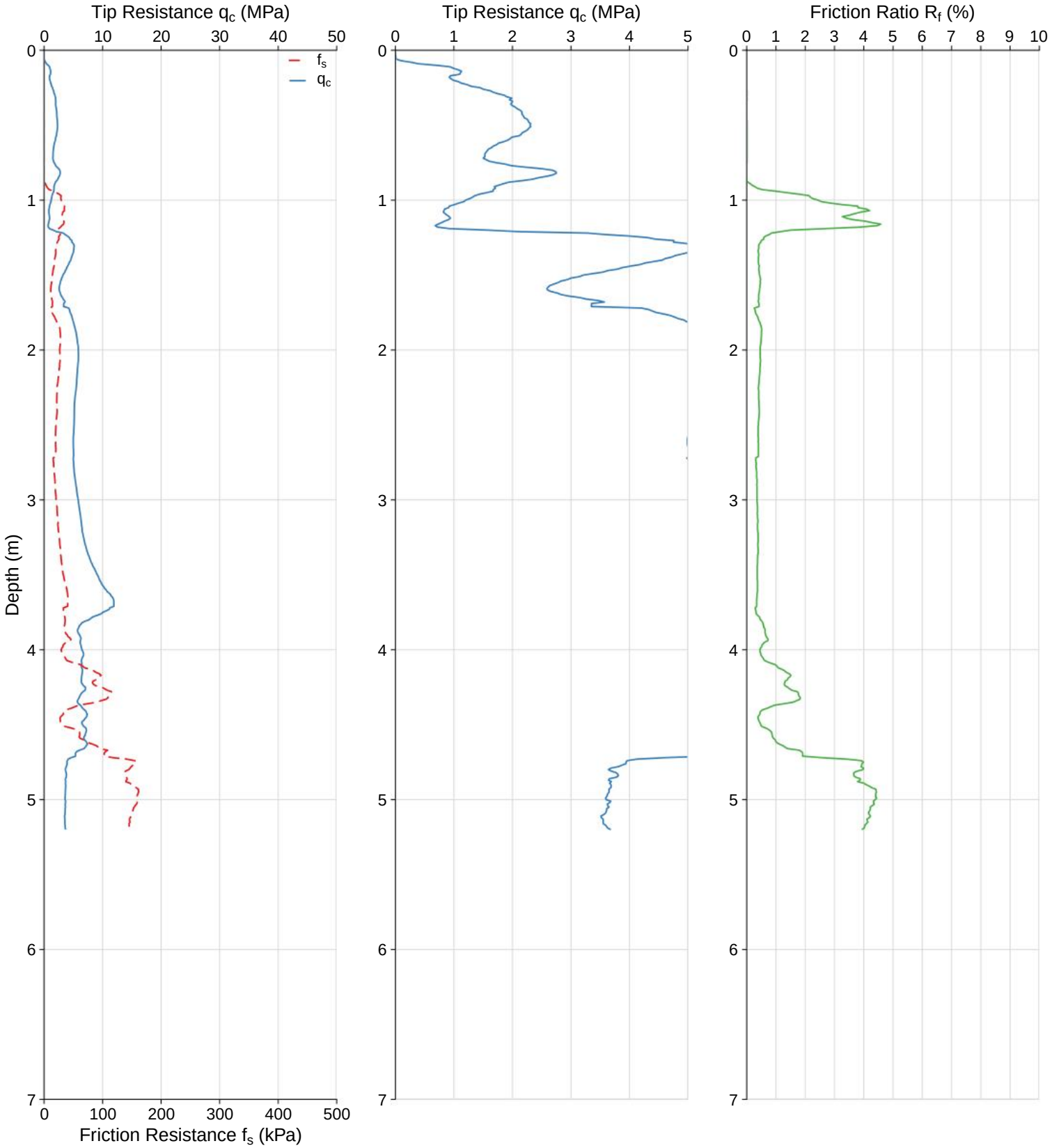
ALL TESTS		**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



RIG: Pagani TG 73-200 200kN

CONE PENETRATION TEST

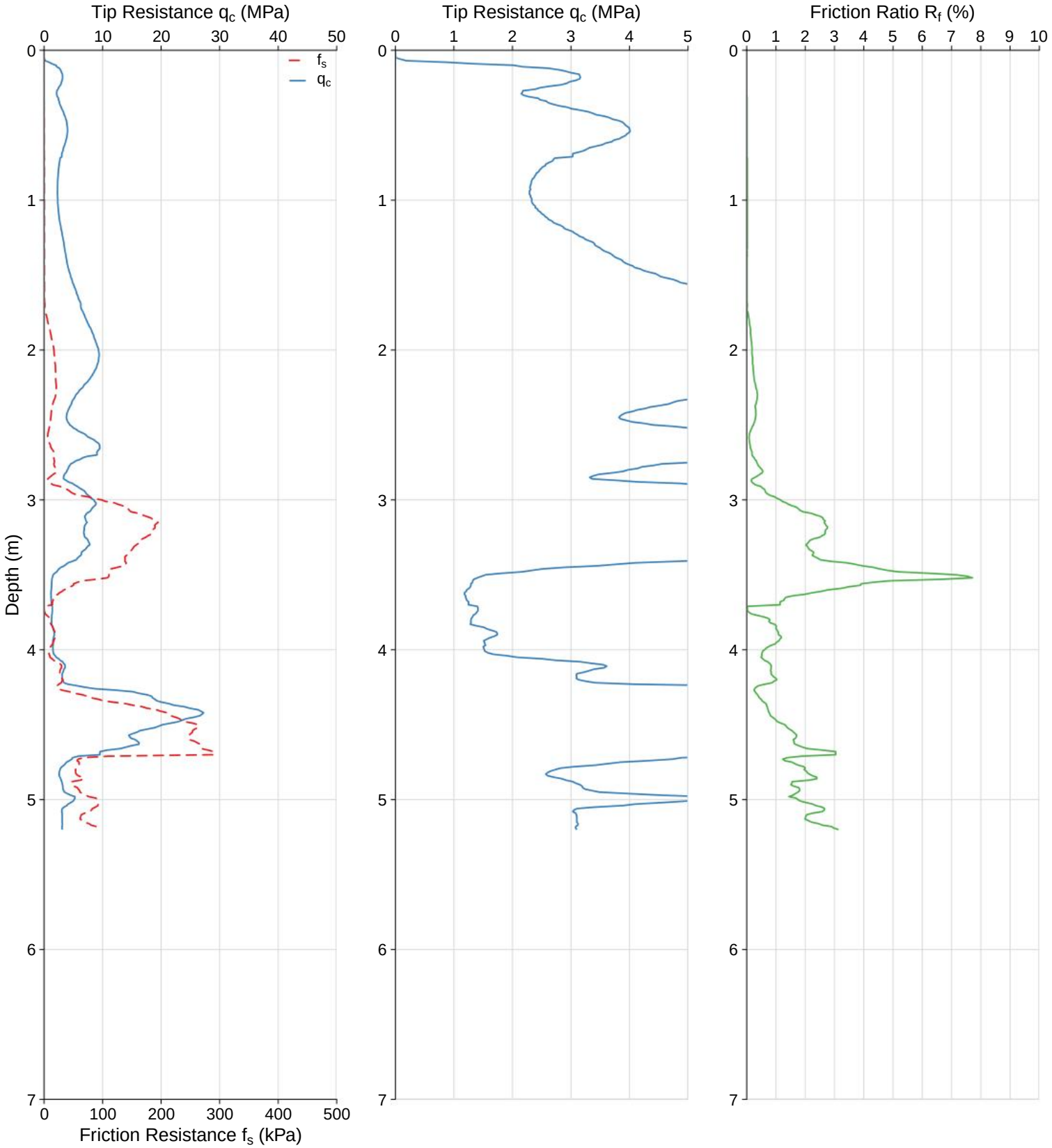
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

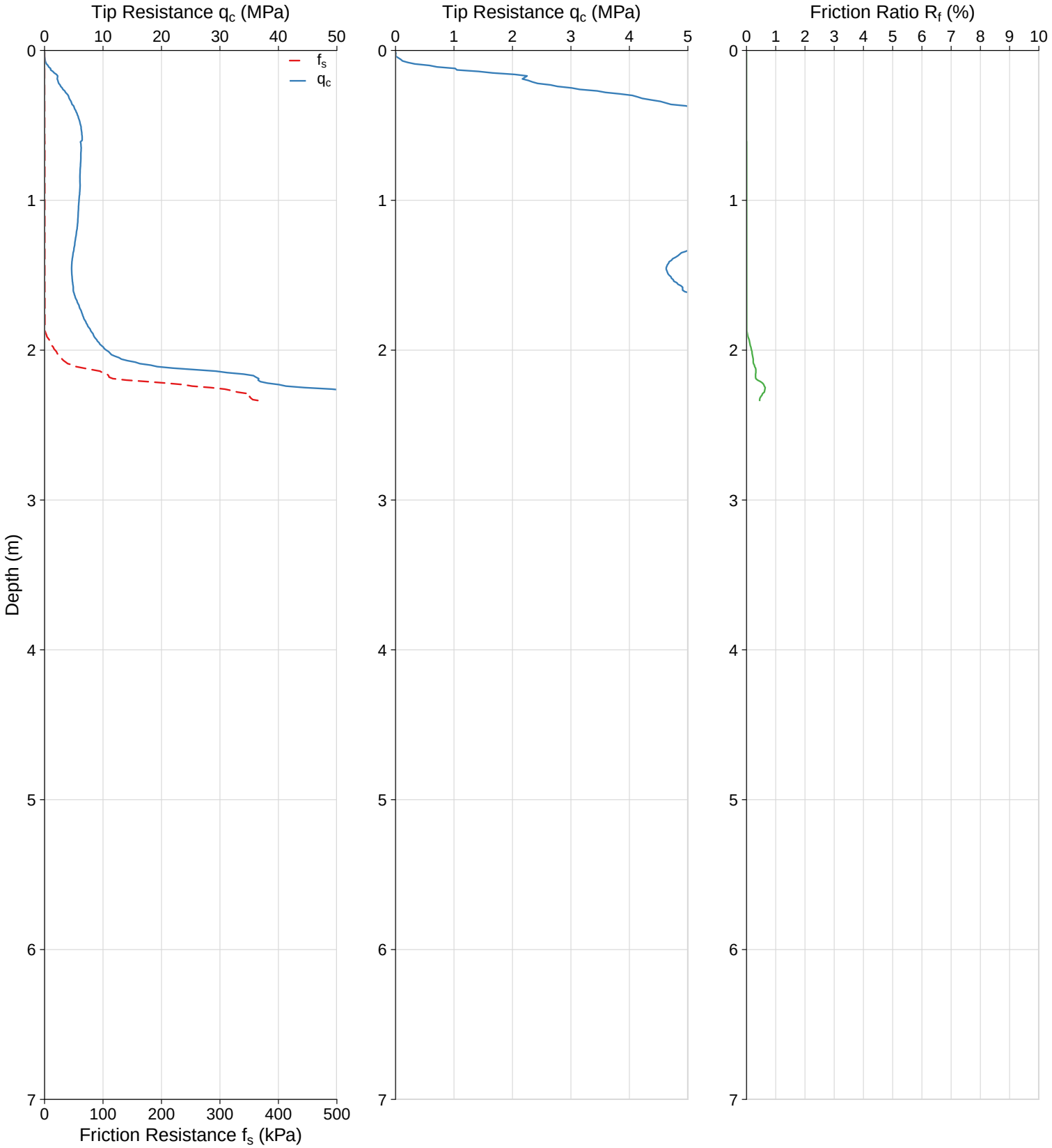
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

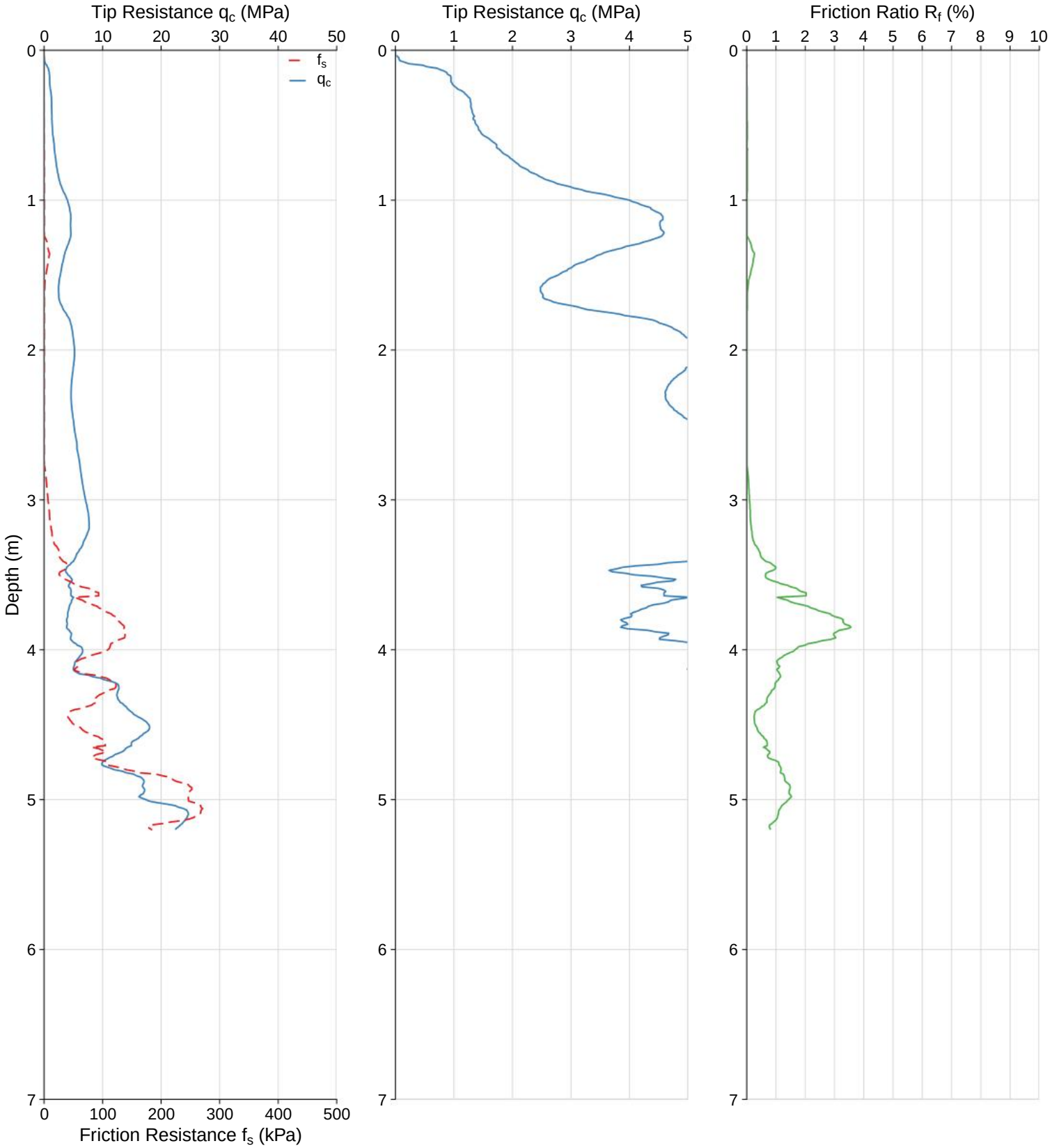
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.7m	**CO-ORDS:**	
TERMINATION:	Refused, 2.34m	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

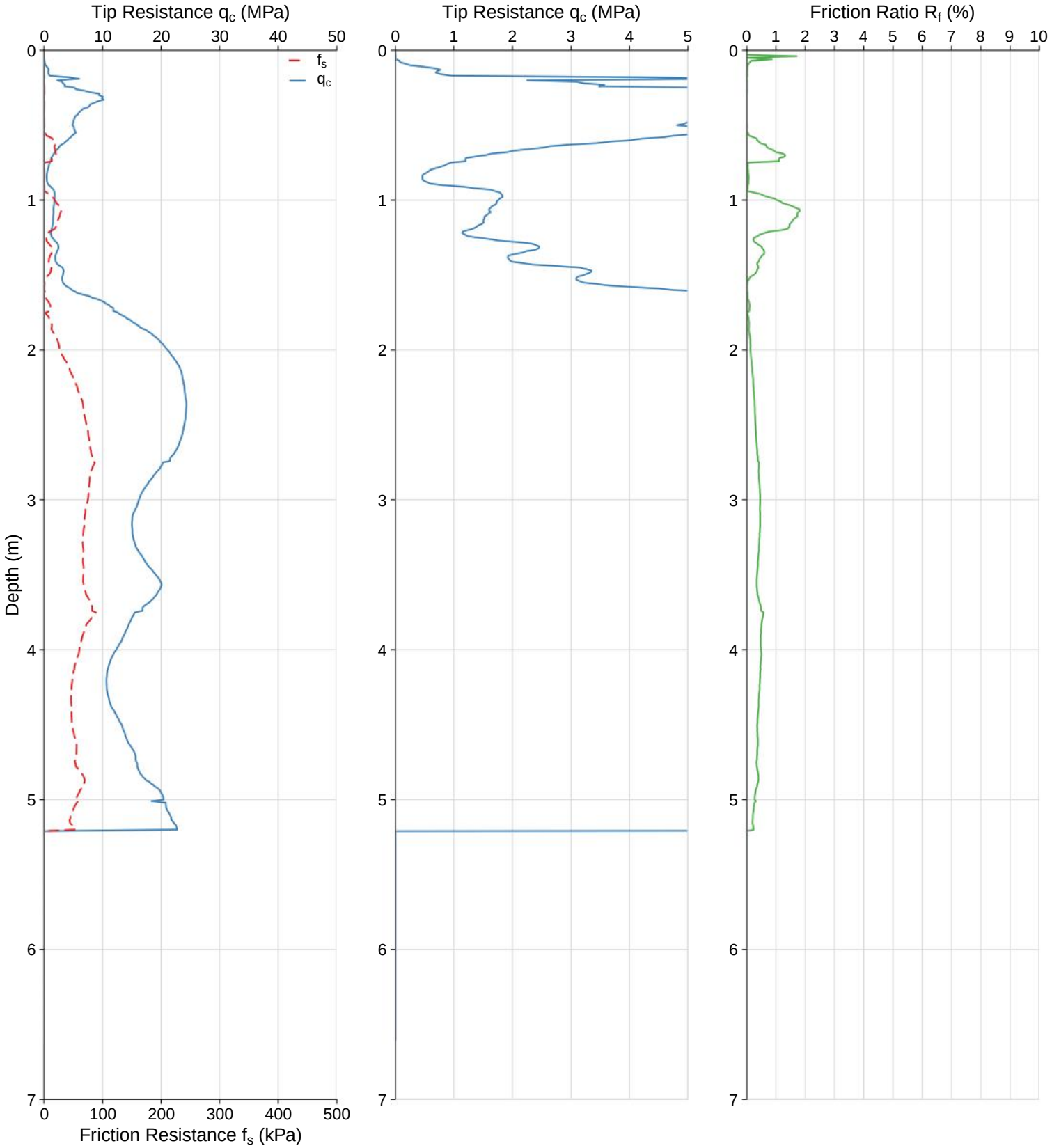
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

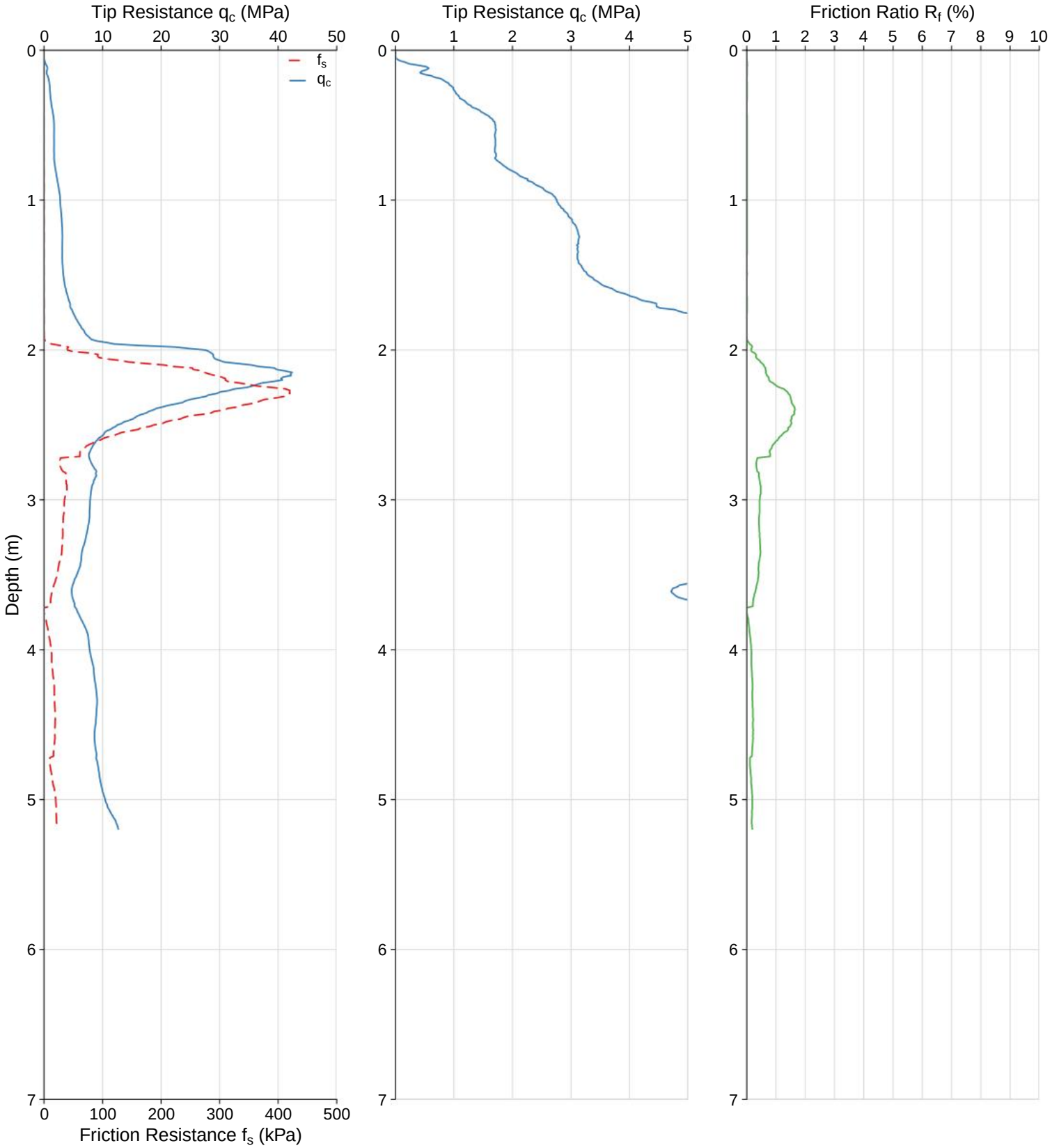
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DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

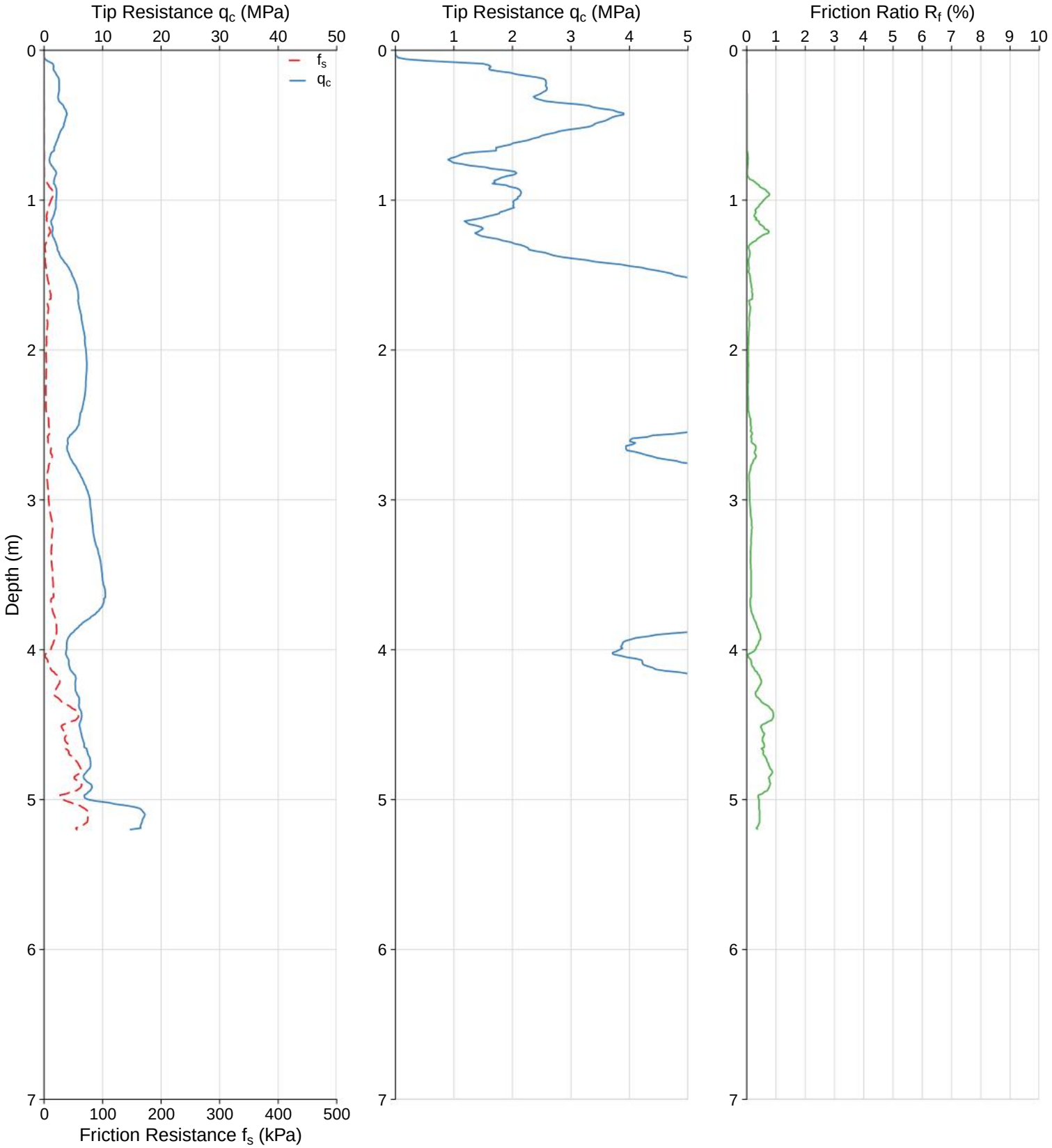
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

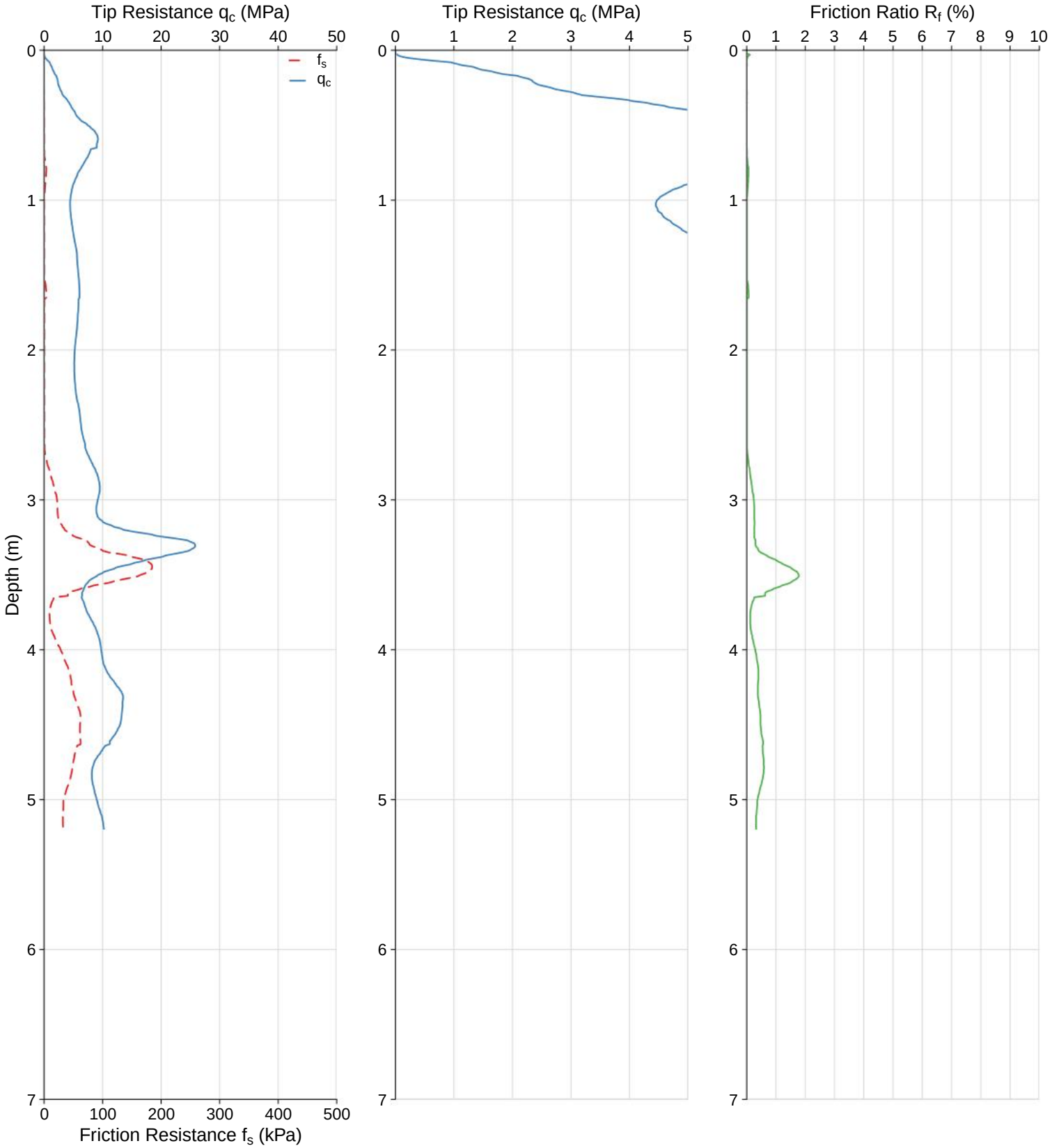
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

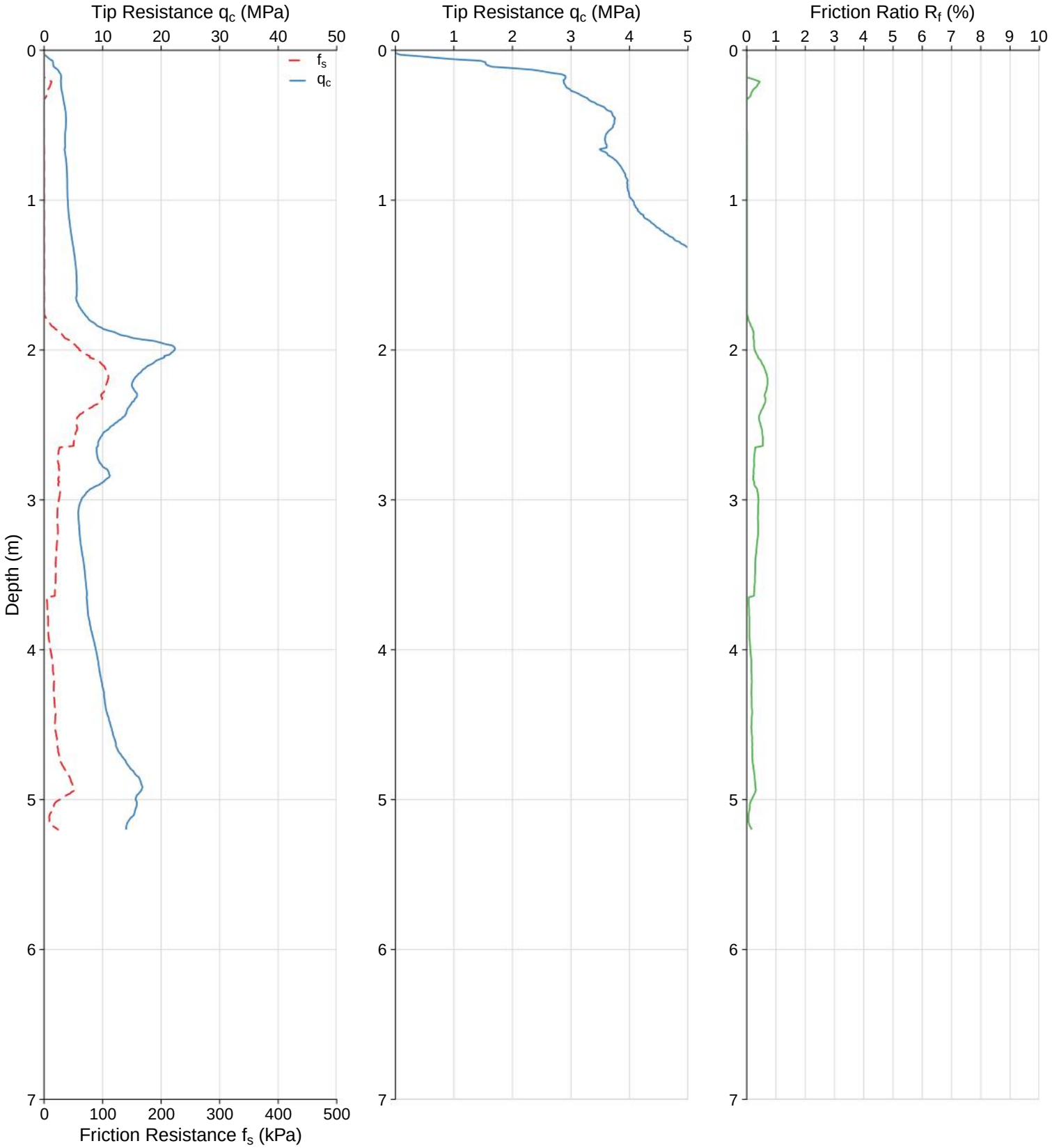
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

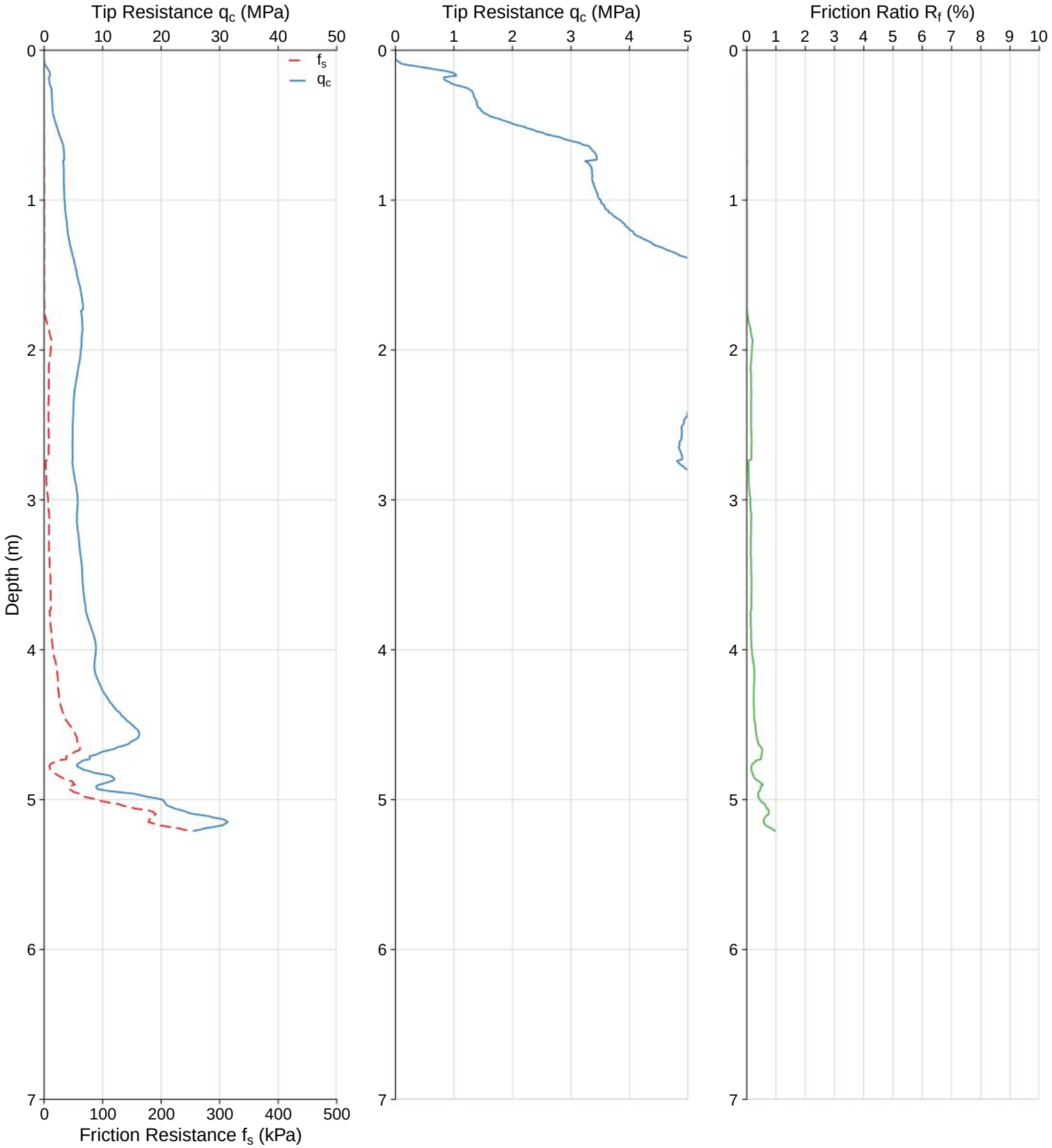
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

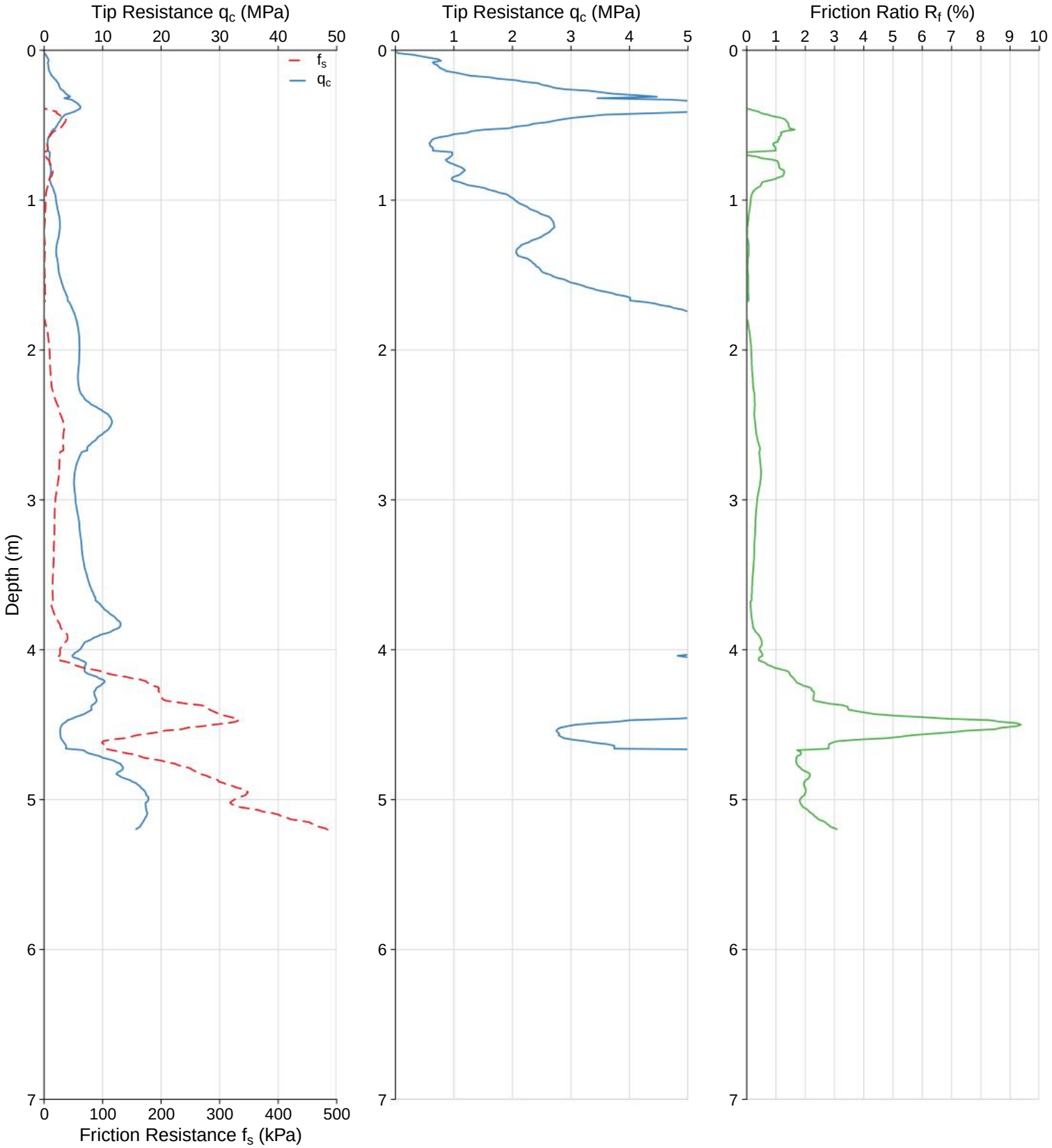
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

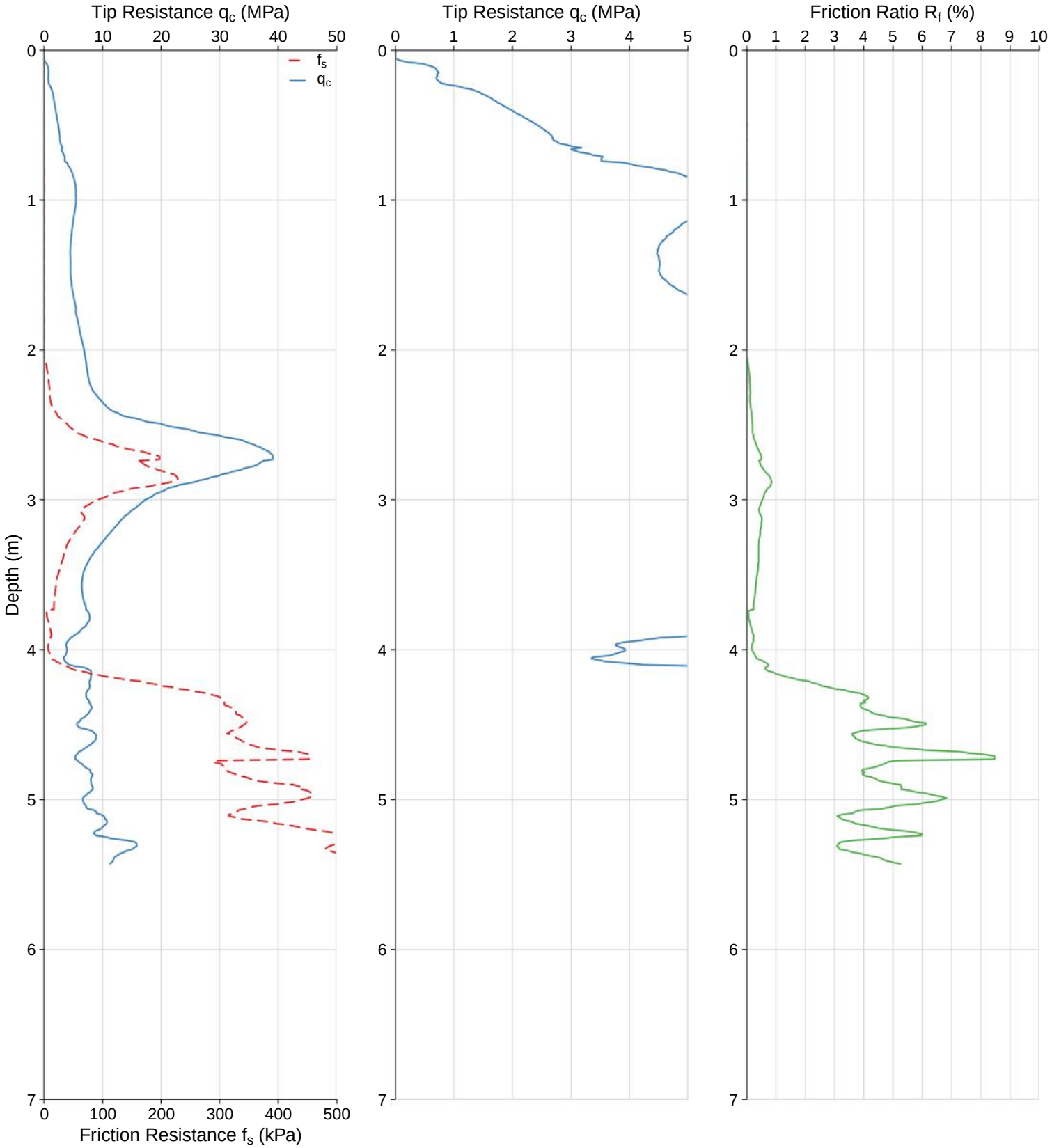
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Wet surface	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

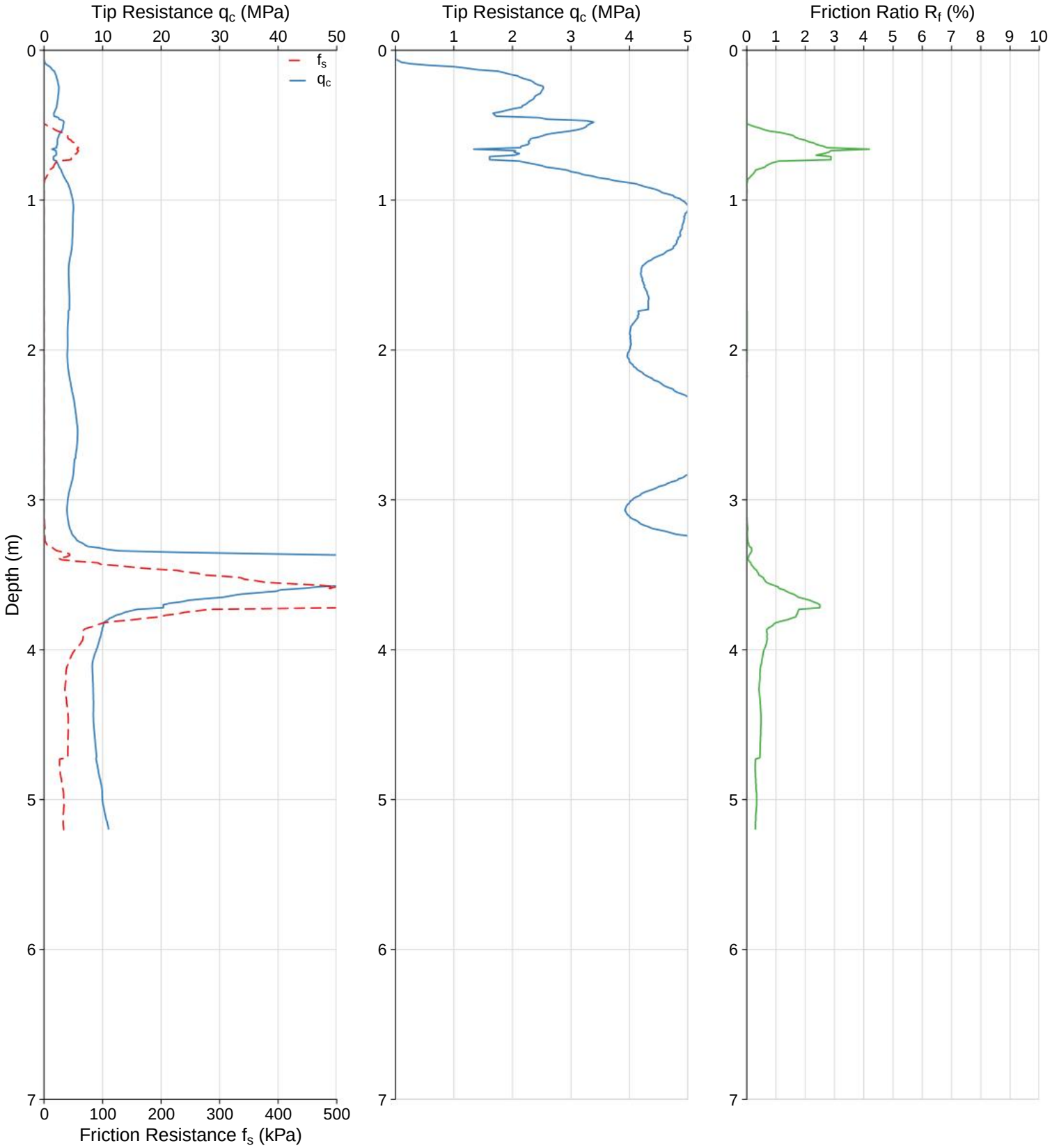
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JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

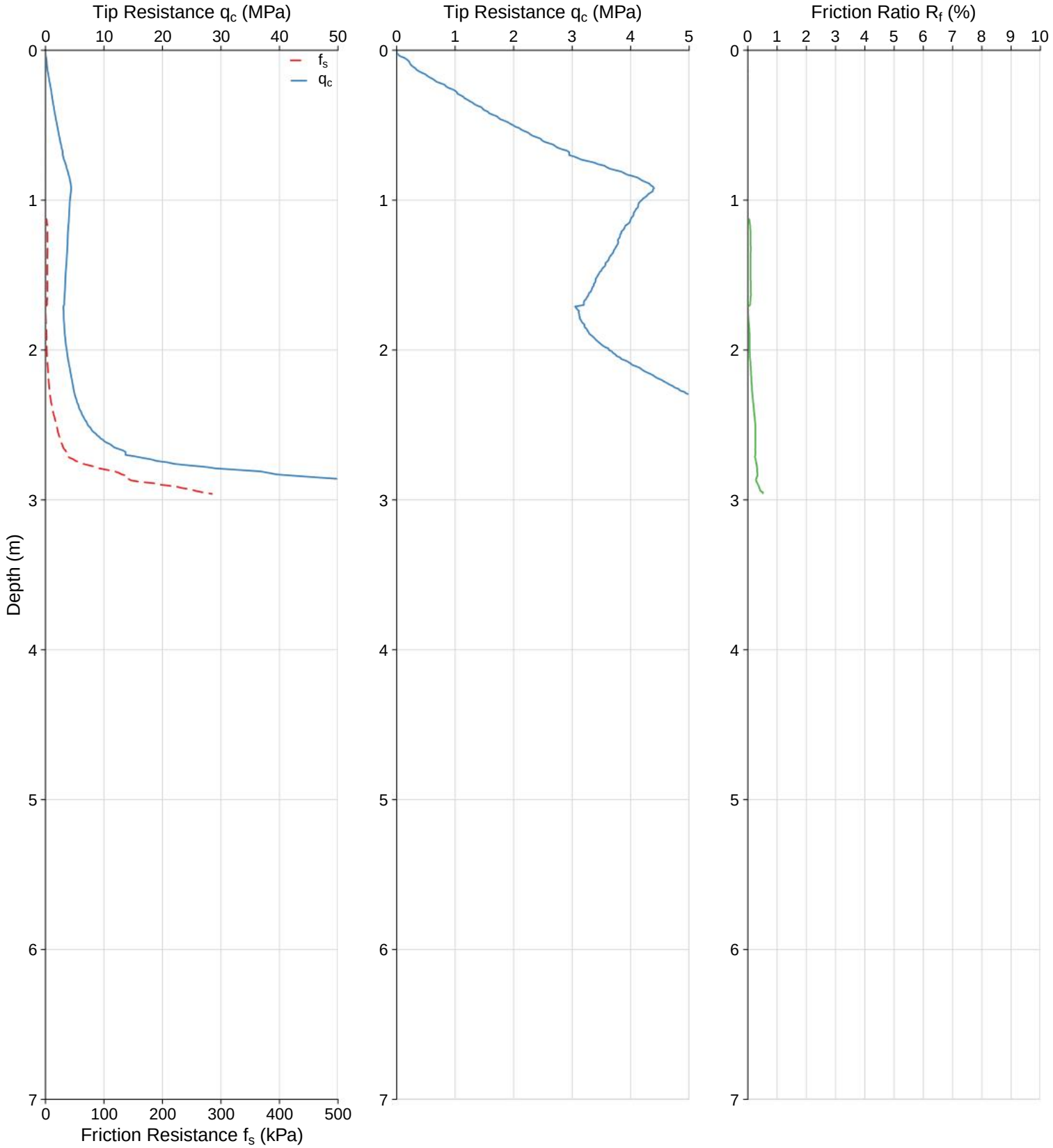
CPT ID:	CPT015	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

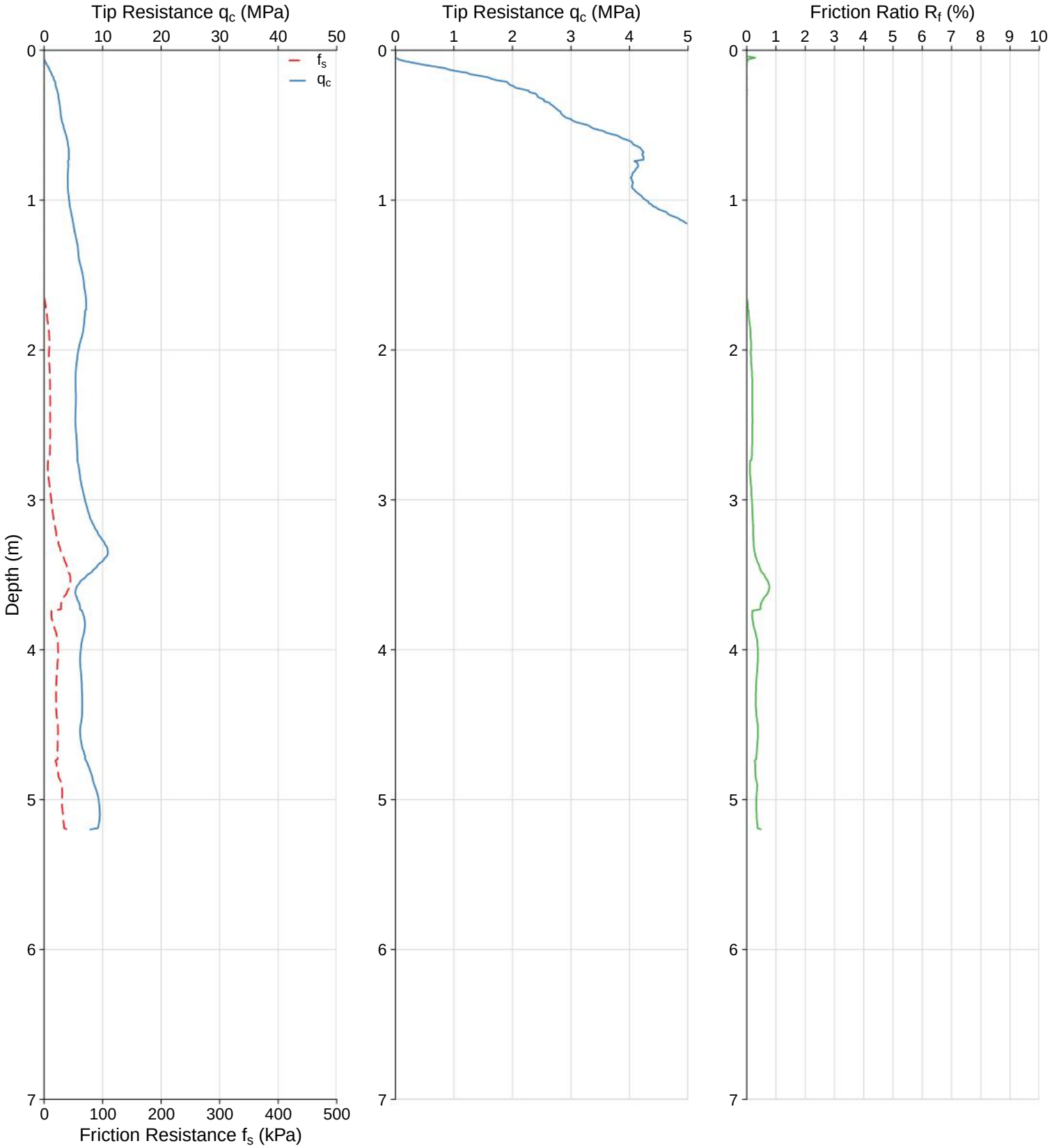
CPT ID:	CPT016	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 1.1m	**CO-ORDS:**	
TERMINATION:	Refused	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

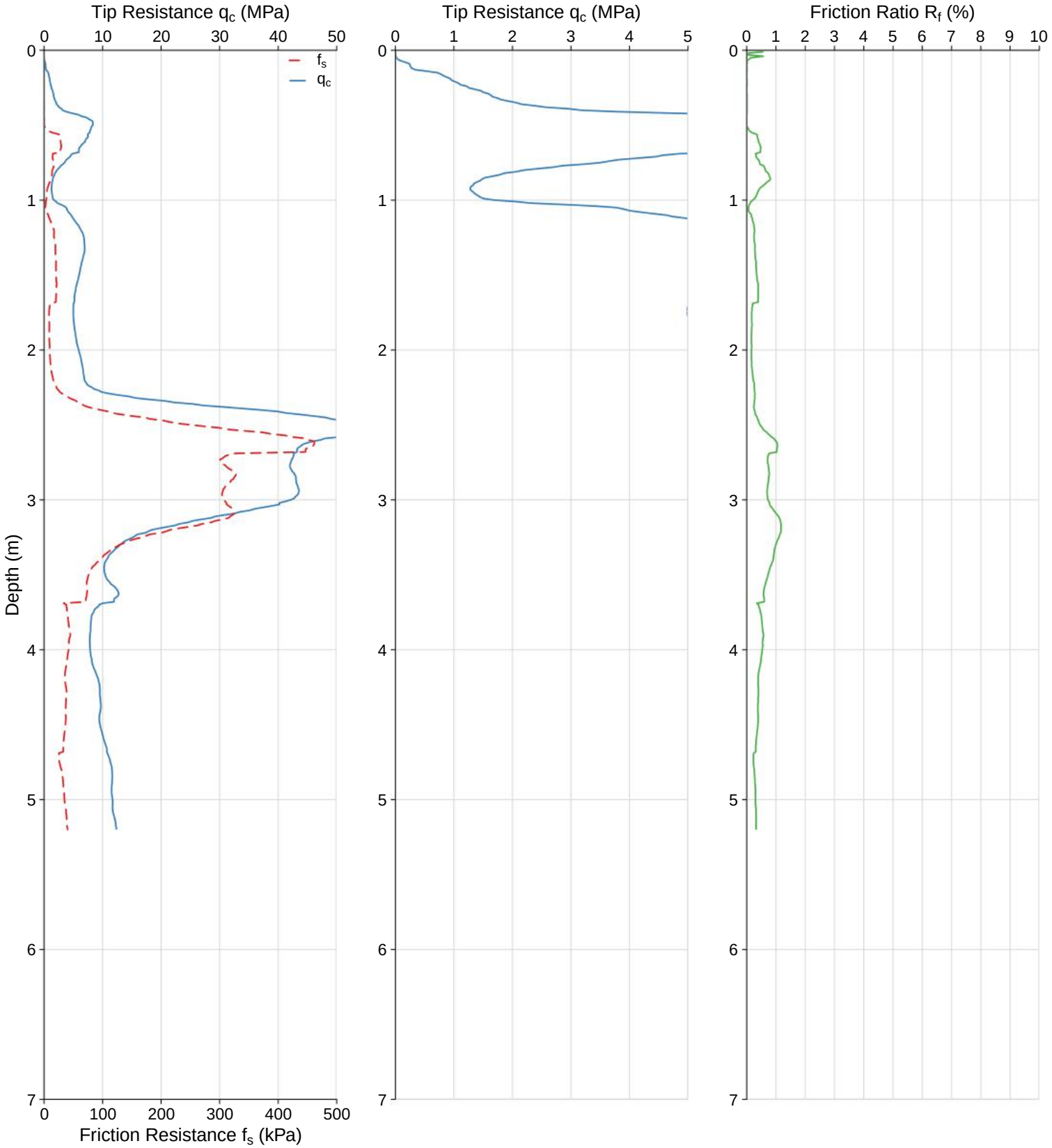
CPT ID:	CPT019	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

CPT ID:	CPT020	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

Appendix C: Borehole Logs

METHOD OF SOIL DESCRIPTION
BOREHOLE AND TEST PIT REPORTS

GRAPHIC LOG & SOIL CLASSIFICATION SYMBOLS

Graphic	USCS	Soil Name
		FILL (various types)
		COBBLES / BOULDERS
	GP	GRAVEL (poorly graded)
	GW	GRAVEL (well graded)
	GC	Clayey GRAVEL
	GM	Silty GRAVEL
	SP	SAND (poorly graded)
	SW	SAND (well graded)
	SC	Clayey SAND

Graphic	USCS	Soil Name
	SM	Silty SAND
	ML	SILT (low liquid limit)
	MH	SILT (high liquid limit)
	CL	CLAY (low plasticity)
	CI	CLAY (medium plasticity)
	CH	CLAY (high plasticity)
	OL	Organic SILT (low liquid limit)
	OH	Organic SILT (high liquid limit)
	Pt	PEAT

NOTE: Dual classification given for soils with a fines content between 5% and 12%.

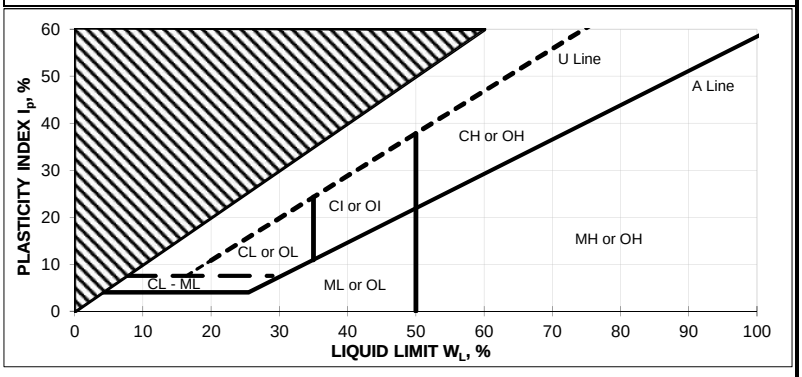
SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil descriptions are based on AS1726-2017. Material properties are assessed in the field by visual/tactile methods in combination with field and laboratory testing techniques (where used).

NOTE: AS 1726-2017 defines a fine grained soil where the total dry mass of fine fractions (<0.075 mm particle size) exceeds 35%.

PARTICLE SIZE		
Soil Name		**Particle Size (mm)**
BOULDERS		>200
COBBLES		63 to 200
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.3 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
FINES	SILT	0.002 to 0.075
	CLAY	<0.002

PLASTICITY - MODIFIED CASAGRANDE CHART - AS1726-2017



RESISTANCE TO EXCAVATION		
Symbol	**Term**	**Description**
VE	Very easy	All resistances are relative to the selected method of excavation
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION	
Symbol	**Term**
D	Dry
M	Moist
W	Wet

CEMENTATION	
Cementation	**Description**
Weakly cemented	Soil may be easily disaggregated by hand in air or water
Moderately cemented	Effort is required to disaggregate the soil by hand in air or water

CONSISTENCY		
Symbol	**Term**	**Undrained Shear Strength (kPa)**
VS	Very Soft	0 to 12
S	Soft	12 to 25
F	Firm	25 to 50
St	Stiff	50 to 100
VSt	Very Stiff	100 to 200
H	Hard	>200

ORGANIC SOILS	
Material	**Organic Content % of dry mass**
Inorganic soil	<2%
Organic soil	2% to 25%
Peat	>25%

DENSITY		
Symbol	**Term**	**Density Index (%)**
VL	Very Loose	<15
L	Loose	15 to 35
MD	Medium Dense	35 to 65
D	Dense	65 to 85
VD	Very Dense	>85

EXPLANATORY NOTES TO BE READ WITH BOREHOLE AND TEST PIT REPORTS

METHOD OF DRILLING OR EXCAVATION

AC	Air Core	E	Excavator	PQ3	PQ3 Core Barrel
AD/T	Auger Drilling with TC-Bit	EH	Excavator with Hammer	PT	Push Tube
AD/V	Auger Drilling with V-Bit	HA	Hand Auger	R	Ripper
AT	Air Track	HE	Hand Excavation	RR	Rock Roller
B	Bulldozer Blade	HQ3	HQ3 Core Barrel	SON	Sonic Rig
BH	Backhoe Bucket	N	Natural Exposure	SPT	Driven SPT
CT	Cable Tool	NMLC	NMLC Core Barrel	WB	Washbore
DT	Diatube	PP	Push Probe	X	Existing Excavation

SUPPORT

T	Timbering

PENETRATION EFFORT (RELATIVE TO THE EQUIPMENT USED)

VE	Very Easy	E	Easy	F	Firm
H	Hard	VH	Very Hard		

WATER

►	Water Inflow	▼	Water Level
◄	Water Loss (complete)		
◁	Water Loss (partial)		

SAMPLING AND TESTING

B	Bulk Disturbed Sample	P	Piston Sample
BLK	Block Sample	PBT	Plate Bearing Test
C	Core Sample	U	Undisturbed Push-in Sample
CBR	CBR Mould Sample		U50: 50 mm diameter
D	Small Disturbed Sample	SPT	Standard Penetration Test
ES	Environmental Soil Sample		Example: 3, 4, 5 N=9
EW	Environmental Water Sample		3,4,5: Blows per 150 mm
G	Gas Sample		N=9: Blows per 300 mm after
HP	Hand Penetrometer		150 mm seating interval
LB	Large Bulk Disturbed Sample	VS	Vane Shear; P = Peak
M	Mazier Type Sample		R = Remoulded (kPa)
MC	Moisture Content Sample	W	Water Sample

ROCK CORE RECOVERY

TCR = Total Core Recovery (%) $= \frac{CRL}{TCL} \times 100$

RQD = Rock Quality Designation (%) $= \frac{ALC>100}{TCL} \times 100$

TCL	Length of Core Run
CRL	Length of Core Recovered
ALC>100	Total Length of Axial Lengths of Core Greater than 100 mm Long

BOREHOLE: BH01

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, trace fines, trace organics (0.1)	M		0	
								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, trace fines				
0.5											0.5	
1									M		1	
1.5							SP				1.5	
2											2	
2.5									W		2.5	
3								(3.0)			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 2.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH02

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH02-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, brown, trace to with gravel, trace fines, trace organics	M		0	
								0.3				
0.5							SP/SM	SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, with fines, trace to with organics			0.5	
								0.9				
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, low plasticity clay, trace gravel, trace organics	W		1	
1.5											1.5	
2								2.0			2	
							SC	pale grey mottled dark grey				
								2.3				
2.5							SC/CL	Sandy CLAY/Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, low to medium plasticity clay			2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH03

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH03-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.1 SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey-white, trace fines				
0.5											0.5	
									M			
1							SP				1	
1.5											1.5	
2								2.0 grey			2	
							SP		W			
2.5								2.6 trace coffee rock gravel			2.5	
							SP					
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH04

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH04-01		SP/SM	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey mottled brown, trace to with fines, with organics 0.2	M		0	No Guelph testing due to high ground water
							SP/SM	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace to with fines, trace organics 0.7	W			
0.5							SC	Organic Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark brown, medium plasticity clay 1.4	W		0.5	
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, brown/grey, low plasticity clay 2.0	W		1	
1.5							SP-SC	Fine to coarse grained, sub-angular to sub-rounded, dark grey/white, with fines 3.0			1.5	
2											2	
2.5											2.5	
3											3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH04
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH05

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace fines, trace organics	M		0	
								0.3				
0.5							SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fines	W		0.5	
1								1.3			1	

Borehole terminated at 1.3 m, due to collapse
Groundwater encountered at 0.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH05
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH06

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH06-01		SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, brown-grey, trace fines, trace organics	M		0	
								0.3				
							SP/SC	SAND: fine to coarse grained, sub-angular to sub-rounded, brown-grey, with fines, trace organics	W			
								2.0				
							SP/SC	grey	W			
								2.6				
							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, grey, low plasticity clay	W			
								3.0				

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.4 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH06
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH09

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

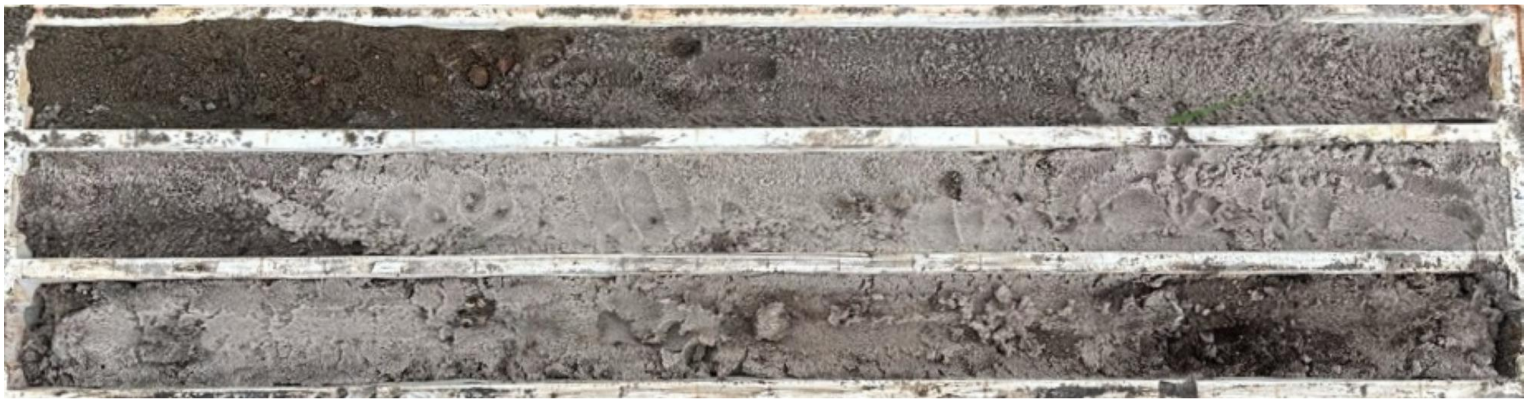
Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	FILL: TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, trace lateritic gravel, trace/with organics	M		0	
								0.3				
							SP	SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines	M		0.5	
0.5												
1								1.3			1	
							SP	pale grey	M			
1.5											1.5	
								2.0				
2							SP	pale grey mottled dark grey	W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH09
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH10

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.3				
0.5								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey/white, trace fines			0.5	
1				Bulk	BH10-01				M		1	
1.5							SP				1.5	
2									W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH10
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH11

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
				ASS	BH11/0.00			Grass 0.1			
				ASS	BH11/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, with fine to coarse grained gravel (up to 0.6 m) trace fines			
0.5				ASS	BH11/0.50			0.6	M	0.5	
				ASS	BH11/0.75		SP	becomes dark grey			
1			▼	ASS	BH11/1.00			1.1		1	
				ASS	BH11/1.25		SP	becomes fine to coarse grained, pale grey			
1.5	AD/V	E		ASS	BH11/1.50					1.5	
				ASS	BH11/1.75						
2				ASS	BH11/2.00				W	2	
				ASS	BH11/2.25						
2.5				ASS	BH11/2.50					2.5	
				ASS	BH11/2.75						
3				ASS	BH11/3.00			3.0		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH11
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH12/MW01

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH12/MW01/0.00		PT	PEAT: Fiberous, spongy, organic odour, dark brown, with sand	M	0	SUP Concrete	SUP: +0.68 Solid: 0-0.5 Screen: 0.5-3.0
				ASS	BH12/MW01/0.25						Bentonite Solid	Concrete:0-0.1 Bentonite: 0.1-0.4 Gravel: 0.4-3.0
	0.5			ASS	BH12/MW01/0.50			0.6		0.5		
				ASS	BH12/MW01/0.75		SP	Organic SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey				
	1			ASS	BH12/MW01/1.00					1		
				ASS	BH12/MW01/1.25			1.4				
	1.5			ASS	BH12/MW01/1.50		SP	SAND: fine to medium grained, sub-angular to sub-rounded, pale brown/grey, trace fines	W	1.5	Gravel Screen	
				ASS	BH12/MW01/1.75							
	2			ASS	BH12/MW01/2.00					2		
				ASS	BH12/MW01/2.25							
	2.5			ASS	BH12/MW01/2.50			2.6		2.5		
				ASS	BH12/MW01/2.75		SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, blue grey, low plasticity clay				
	3			ASS	BH12/MW01/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH12/MW01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH13

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH13/0.00			Grass (0.1)	M	0	
				ASS	BH13/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, trace fines			
0.5				ASS	BH13/0.50					0.5	
				ASS	BH13/0.75						
1				ASS	BH13/1.00				W	1	
				ASS	BH13/1.25						
1.5				ASS	BH13/1.50					1.5	
				ASS	BH13/1.75		SP	becomes fine to coarse grained (1.7)			
2				ASS	BH13/2.00			becomes pale brown/grey (2.0)		2	
				ASS	BH13/2.25						
2.5				ASS	BH13/2.50		SP			2.5	
				ASS	BH13/2.75						
3				ASS	BH13/3.00			(3.0)		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.9 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH13
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH14/MW03

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH14/MW03/0.00		SP	Gravelly SAND: sub-angular to sub-rounded, fine to medium grained sand, brown, rounded to sub-rounded, fine to medium grained gravel, trace fines	M	0	SUP Concrete	SUP: +0.65 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH14/MW03/0.25						Solid Bentonite	
	0.5			ASS	BH14/MW03/0.50					0.5		
				ASS	BH14/MW03/0.75			0.9				
	1			ASS	BH14/MW03/1.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace gravel (up to 1.5 m), trace fines		1		
				ASS	BH14/MW03/1.25							
	1.5			ASS	BH14/MW03/1.50			1.5		1.5		
				ASS	BH14/MW03/1.75		SP	becomes brown	W		Gravel Screen	
	2			ASS	BH14/MW03/2.00			2.0		2		
				ASS	BH14/MW03/2.25			Sandy CLAY: low plasticity, blue grey, sub-angular to sub-rounded, fine to coarse grained sand				
	2.5			ASS	BH14/MW03/2.50		CL			2.5		
				ASS	BH14/MW03/2.75							
	3			ASS	BH14/MW03/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.28 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH14/MW03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH15

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH15/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace organics, trace fines	M	0.5	
				ASS	BH15/0.25						
				ASS	BH15/0.50						
								0.7			
				ASS	BH15/0.75		SP	becomes grey			
1				ASS	BH15/1.00					1	
				ASS	BH15/1.25						
1.5				ASS	BH15/1.50					1.5	
				ASS	BH15/1.75						
								1.8			
								becomes fine to coarse grained	W		
2				ASS	BH15/2.00					2	
				ASS	BH15/2.25		SP				
2.5				ASS	BH15/2.50					2.5	
				ASS	BH15/2.75						
3				ASS	BH15/3.00			3.0		3	
								Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.1 m depth			

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH15
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH16/MW02

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH16/MW02/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace rootlets (up to 0.3 m), trace fines	M	0	SUP Concrete	SUP: +0.62 Solid: 0-0.5 Screen: 0.5-3.0
				ASS	BH16/MW02/0.25			0.3			Solid Bentonite	Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
	0.5			ASS	BH16/MW02/0.50		SP	becomes grey		0.5		
				ASS	BH16/MW02/0.75			0.7 becomes fine to coarse grained				
	1			ASS	BH16/MW02/1.00					1		
				ASS	BH16/MW02/1.25		SP					
	1.5			ASS	BH16/MW02/1.50					1.5		
				ASS	BH16/MW02/1.75				W		Gravel Screen	
	2			ASS	BH16/MW02/2.00			2.0 Gravelly SAND: sub-angular to sub-rounded, fine to medium grained, dark brown, angular to subangular, fine to coarse grained gravel, with coffee rock, trace/with fines		2		
				ASS	BH16/MW02/2.25							
	2.5			ASS	BH16/MW02/2.50		SP-SM			2.5		
				ASS	BH16/MW02/2.75							
	3			ASS	BH16/MW02/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.15 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH16/MW02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

Appendix D: Guelph Permeameter Test Results

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH01/G01

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
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Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	38	cm
H	Head of water above base	8	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	52		
0.5	40	12.00	24.00
1	30	10.00	20.00
1.5	20.5	9.50	19.00
2	10	10.50	21.00
2.5	0	10.00	20.00

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH02/G02

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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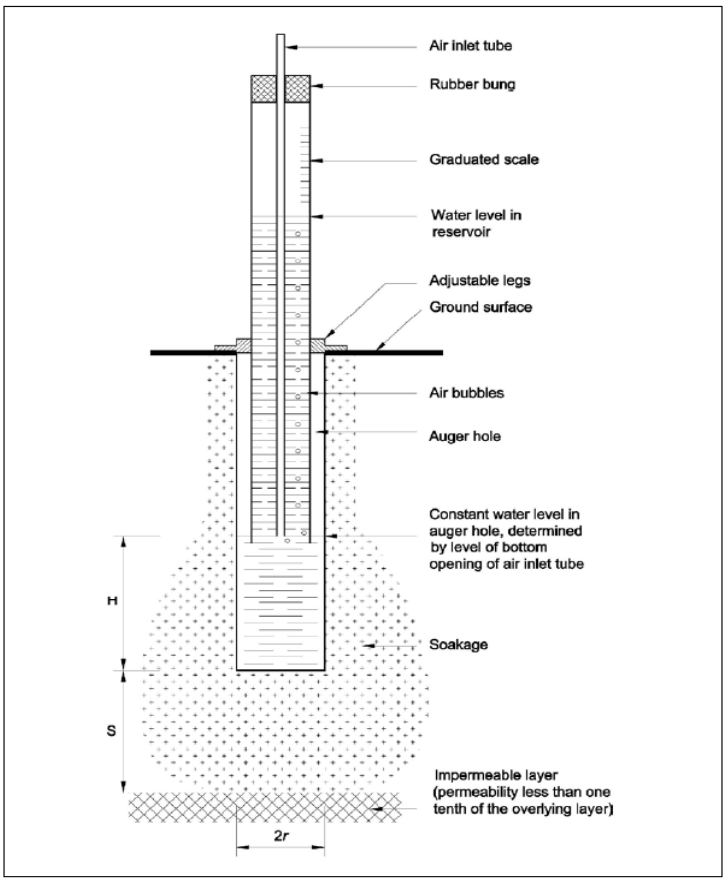
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	42	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	46.5		
2	45.5	1.00	0.50
4	42.5	3.00	1.50
6	41	1.50	0.75
8	39.5	1.50	0.75
10	36	3.50	1.75
12	34	2.00	1.00
14	32	2.00	1.00
16	29.8	2.20	1.10
AVERAGE - LAST 5 READINGS			1.12

Calculation

Steady State Flow	1.12	cm/min
Flow from reservoir (Q)	40.66	cm^3/min
K_{sat}	0.065	cm/min
K_{sat}	1.091E-05	m/s
K_{sat}	**0.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH03/G03

Spreadsheet author:		

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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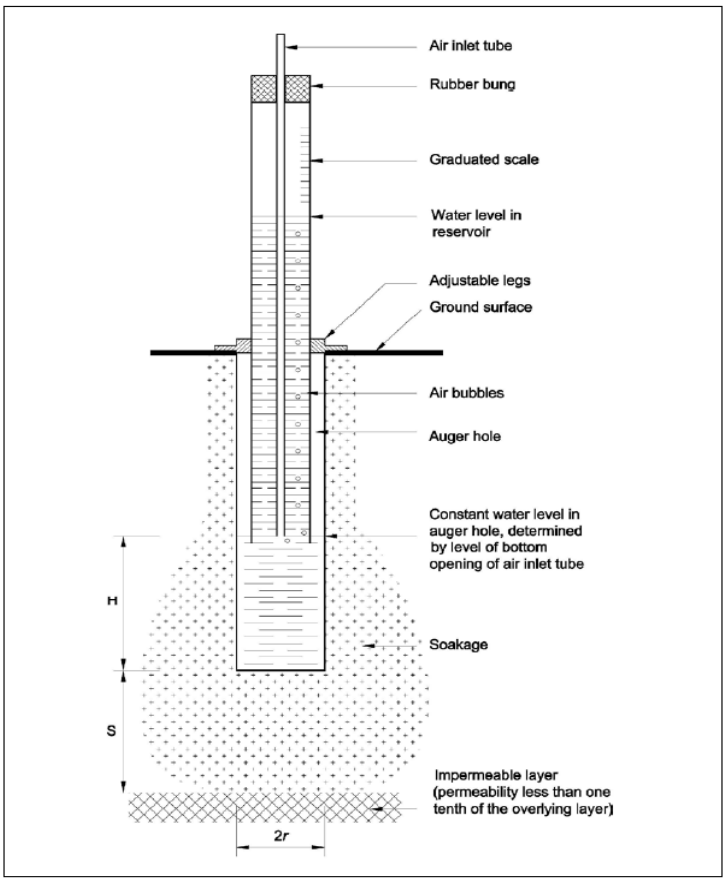
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	57	cm
H	Head of water above base	23	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	71		
0.33	66	5.00	15.15
0.66	59	7.00	21.21
1.33	45	14.00	20.90
1.66	38	7.00	21.21
1.99	28	10.00	30.30
2.33	21	7.00	20.59
2.66	11	10.00	30.30
2.99	1	10.00	30.30
		AVERAGE - LAST 5 READINGS	26.54

Calculation

Steady State Flow	26.54	cm/min
Flow from reservoir (Q)	963.47	cm^3/min
K_{sat}	0.628	cm/min
K_{sat}	1.047E-04	m/s
K_{sat}	**9.05**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH05/G05

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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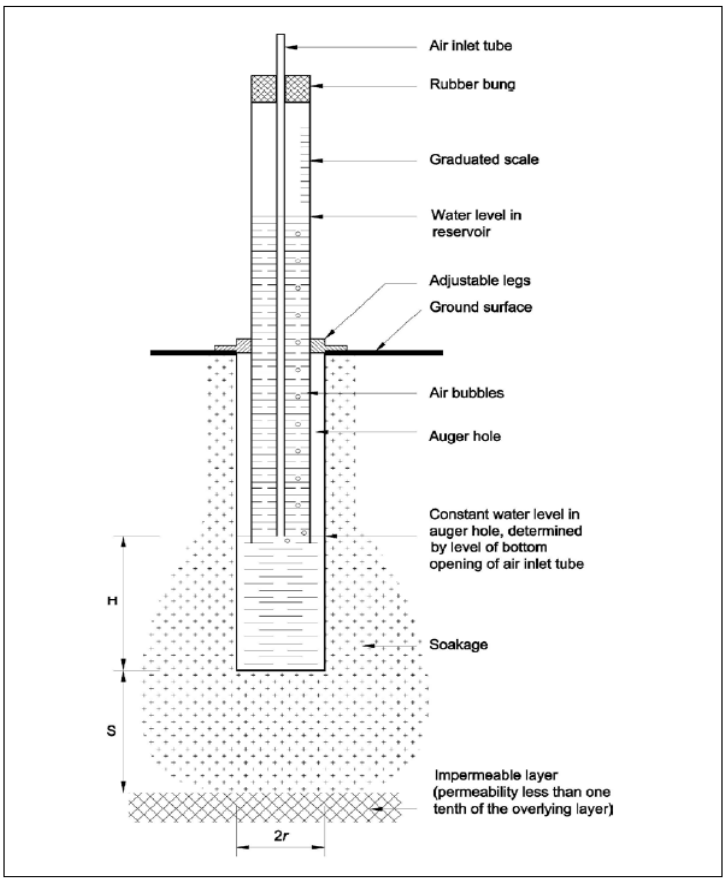
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	44	cm
H	Head of water above base	14	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	53.5		
5	49	4.50	0.90
10	45	4.00	0.80
15	41	4.00	0.80
20	38	3.00	0.60
25	35	3.00	0.60
30	31.5	3.50	0.70
AVERAGE - LAST 5 READINGS			0.70

Calculation

Steady State Flow	0.70	cm/min
Flow from reservoir (Q)	25.41	cm^3/min
K_{sat}	0.031	cm/min
K_{sat}	5.139E-06	m/s
K_{sat}	**0.44**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH09/G09

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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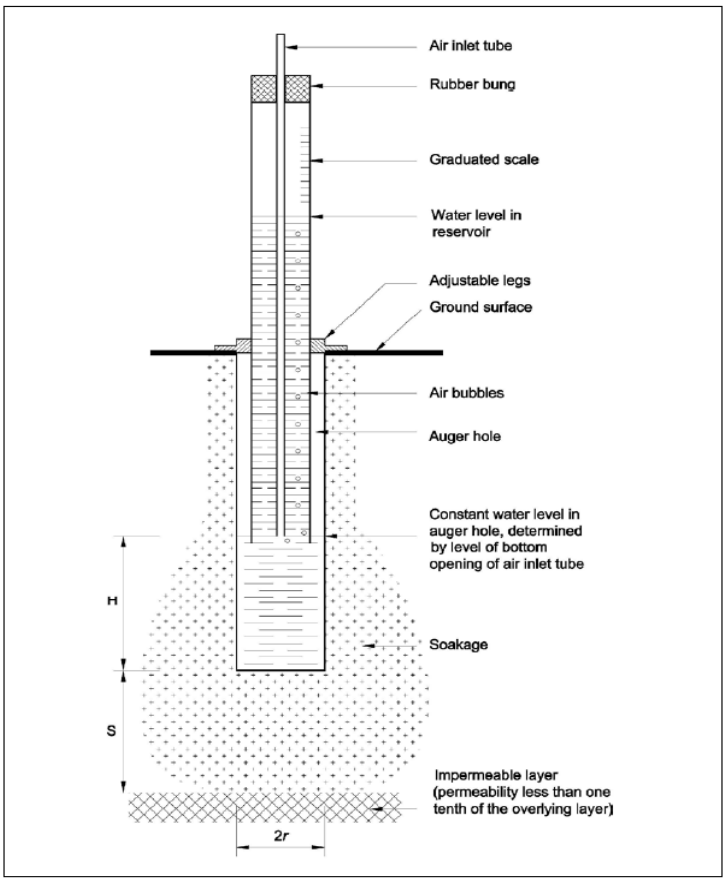
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	52	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	72.5		
1	62	10.50	10.50
2	52.5	9.50	9.50
3	46	6.50	6.50
4	38	8.00	8.00
5	28.5	9.50	9.50
6	23.6	4.90	4.90
7	14.5	9.10	9.10
8	8	6.50	6.50
9	1.5	6.50	6.50
AVERAGE - LAST 5 READINGS			7.30

Calculation

Steady State Flow	7.30	cm/min
Flow from reservoir (Q)	264.99	cm^3/min
K_{sat}	0.274	cm/min
K_{sat}	4.559E-05	m/s
K_{sat}	**3.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH10/G10

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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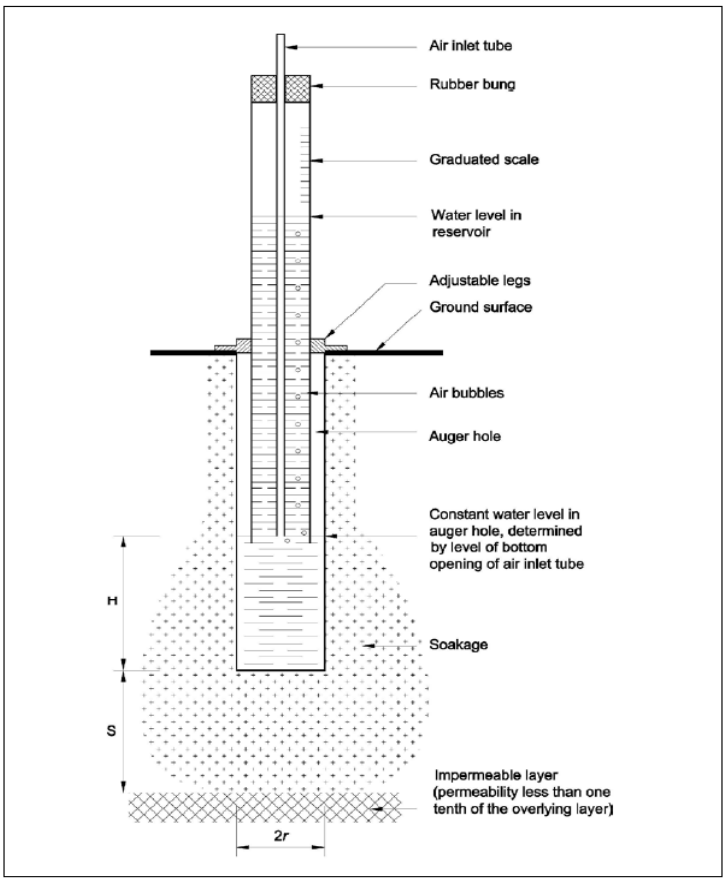
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	47	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	58		
1	53	5.00	5.00
2	50	3.00	3.00
3	44	6.00	6.00
4	40	4.00	4.00
5	36	4.00	4.00
6	32	4.00	4.00
		AVERAGE - LAST 5 READINGS	4.20

Calculation

Steady State Flow	4.20	cm/min
Flow from reservoir (Q)	152.46	cm^3/min
K_{sat}	0.245	cm/min
K_{sat}	4.090E-05	m/s
K_{sat}	**3.53**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH15/G07

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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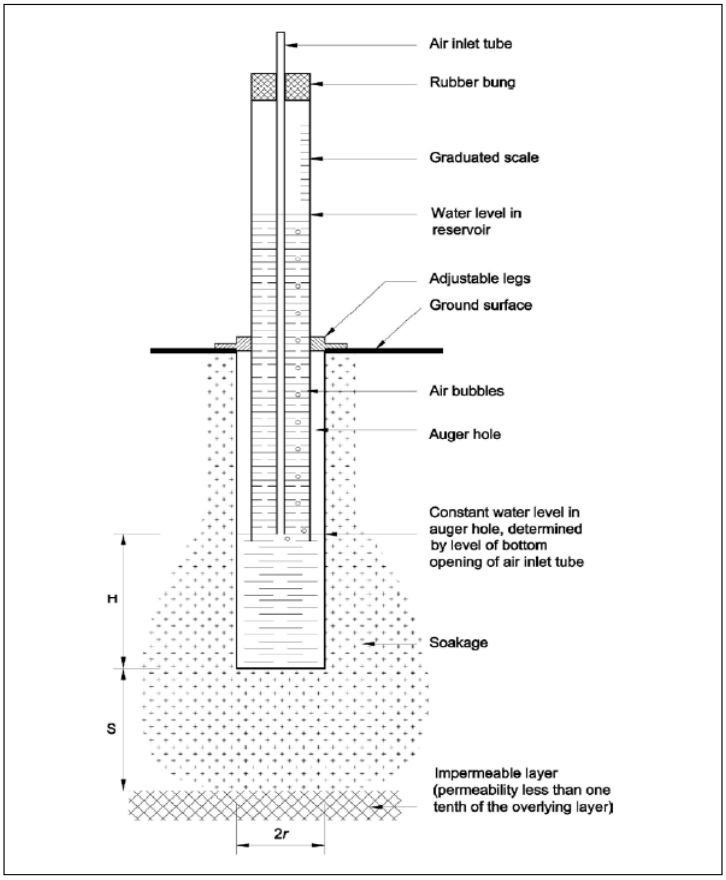
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	53	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	60		
0.5	48	12.00	24.00
1	38	10.00	20.00
1.5	31	7.00	14.00
2	20	11.00	22.00
2.5	12	8.00	16.00
3	2.5	9.50	19.00
AVERAGE - LAST 5 READINGS			18.20

Calculation

Steady State Flow	18.20	cm/min
Flow from reservoir (Q)	660.66	cm^3/min
K_{sat}	0.682	cm/min
K_{sat}	1.137E-04	m/s
K_{sat}	**9.82**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Appendix E: Geotechnical Laboratory Test Results

WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.1, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.1	**Liquid Limit (%)**	**28**
AS 1289.3.2.1	**Plastic Limit (%)**	**23**
AS 1289.3.3.1	**Plasticity Index (%)**	**5**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**2.5**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen:**	**-**

Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

NATA WORLD RECOGNISED ACCREDITATION

Accreditation No. 20599
Accredited for compliance with ISO/IEC 17025 - Testing

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SOIL | AGGREGATE | CONCRETE | CRUSHING

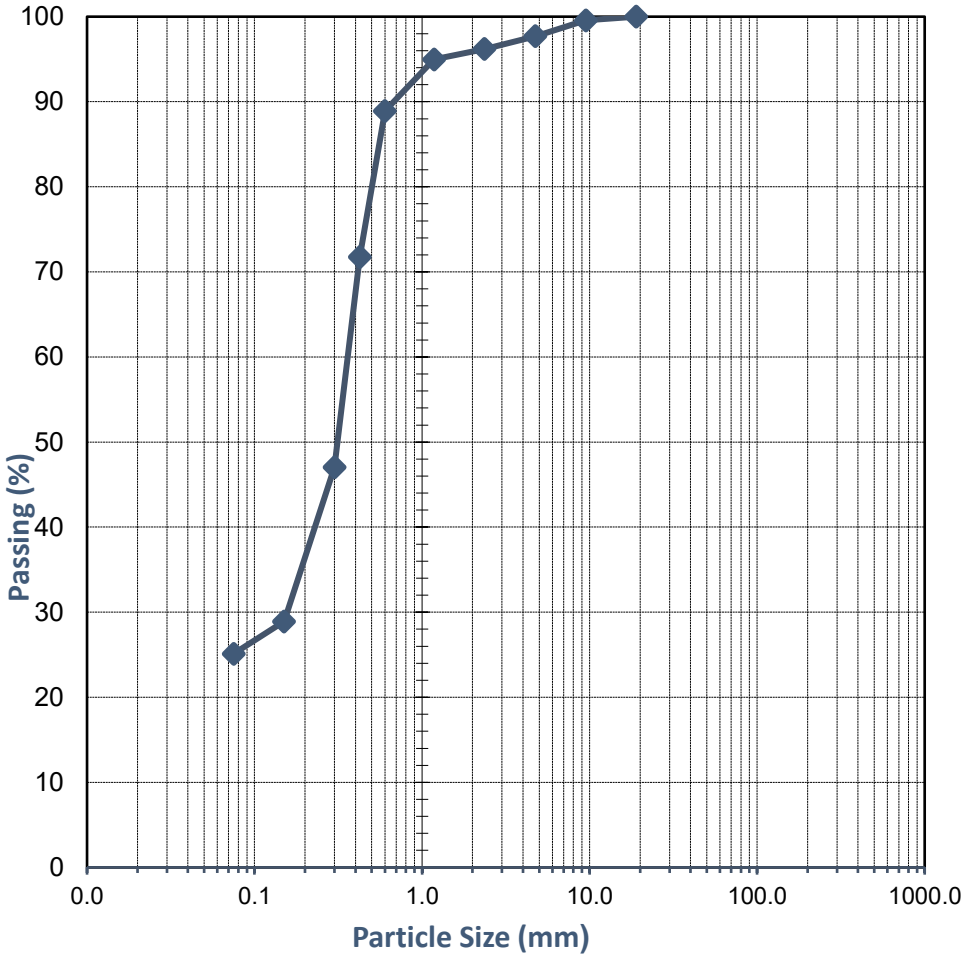
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	98
2.36	96
1.18	95
0.600	89
0.425	72
0.300	47
0.150	29
0.075	25



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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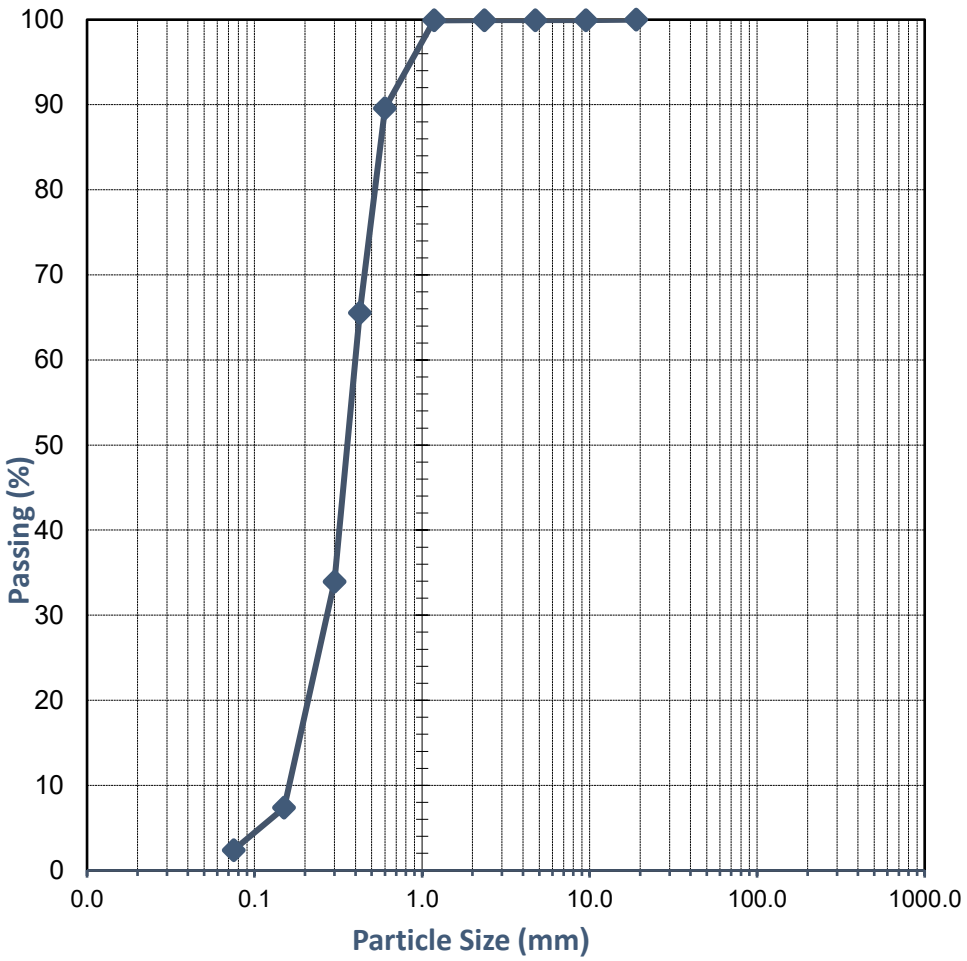
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15433_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15433
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH03 (1.5 - 1.8m)	*Date Tested:*	15/09 - 17/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	100
2.36	100
1.18	100
0.600	90
0.425	66
0.300	34
0.150	7
0.075	2



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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TEST REPORT - AS 1289.3.1.2, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.2	**Liquid Limit (%)**	**46**
AS 1289.3.2.1	**Plastic Limit (%)**	**40**
AS 1289.3.3.1	**Plasticity Index (%)**	**6**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**3.0**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen**	**-**

Approved Signatory:

Name: Danielle Reynolds

Date: 18/September/2025

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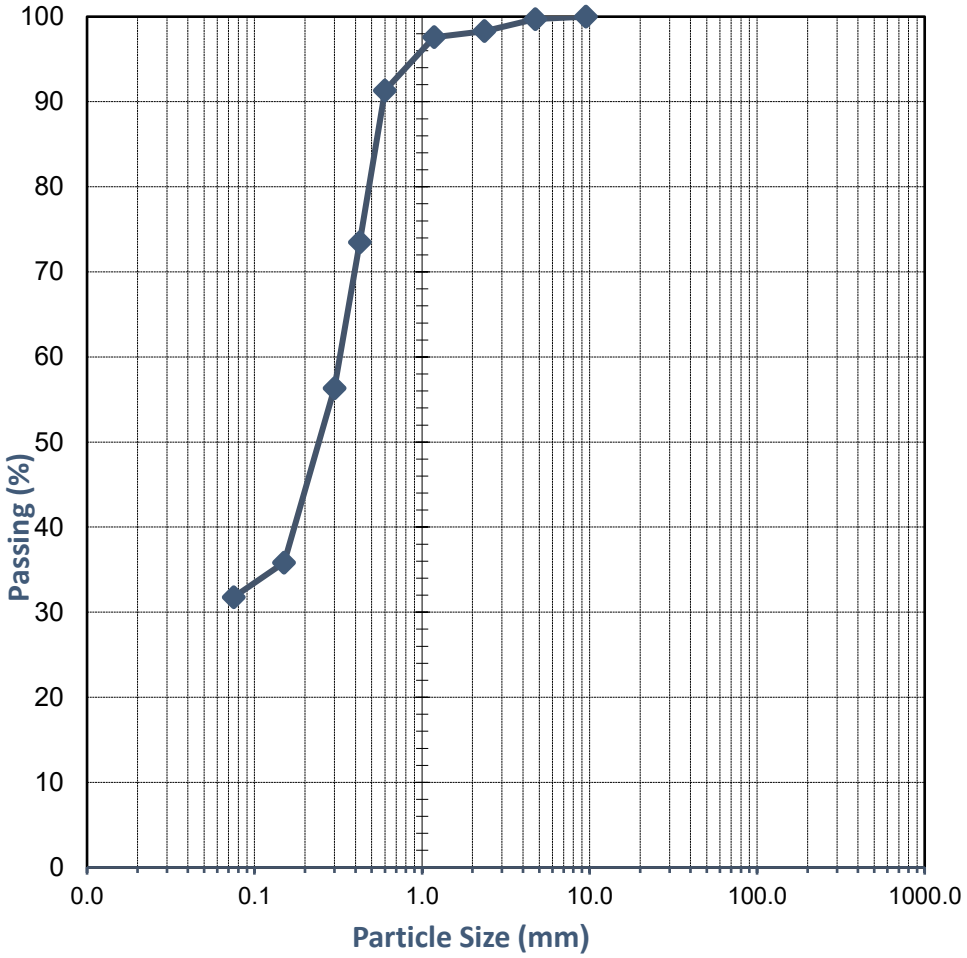
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	98
1.18	98
0.600	91
0.425	73
0.300	56
0.150	36
0.075	32



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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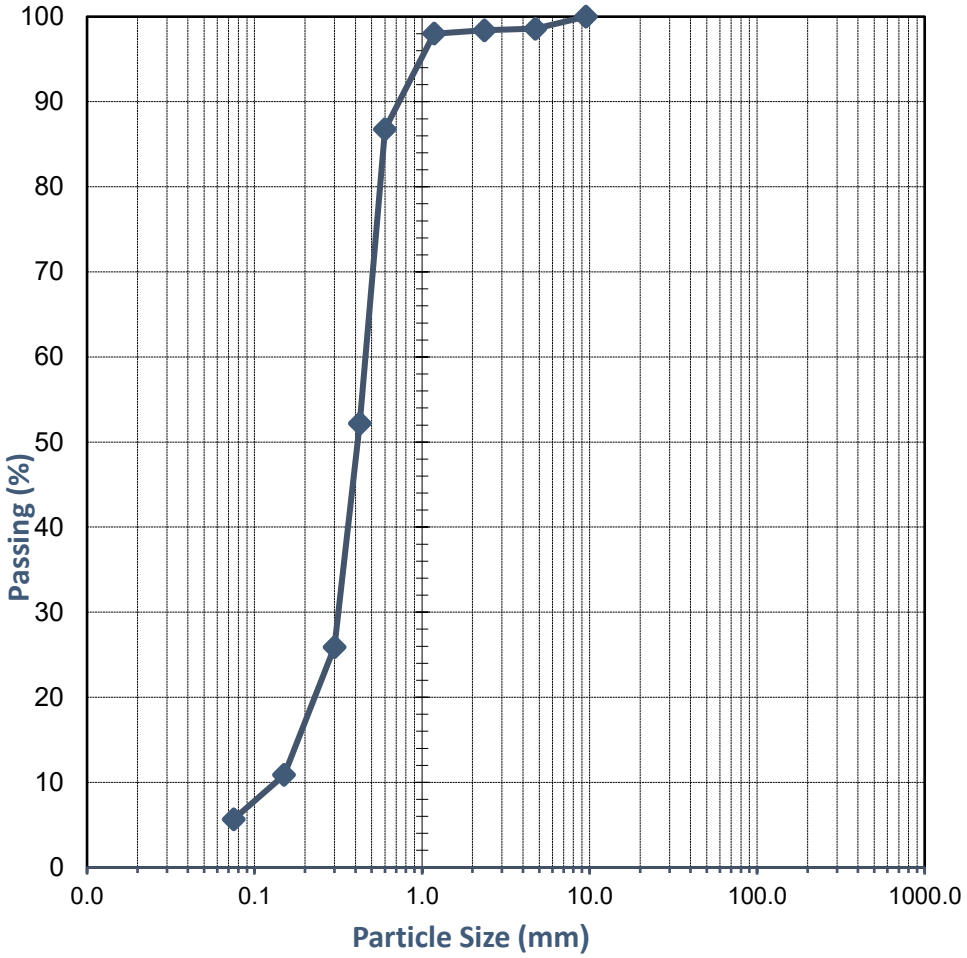
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15435_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15435
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH06 (0.6 - 1.0m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	99
2.36	98
1.18	98
0.600	87
0.425	52
0.300	26
0.150	11
0.075	6



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

NATA WORLD RECOGNISED ACCREDITATION

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SOIL | AGGREGATE | CONCRETE | CRUSHING

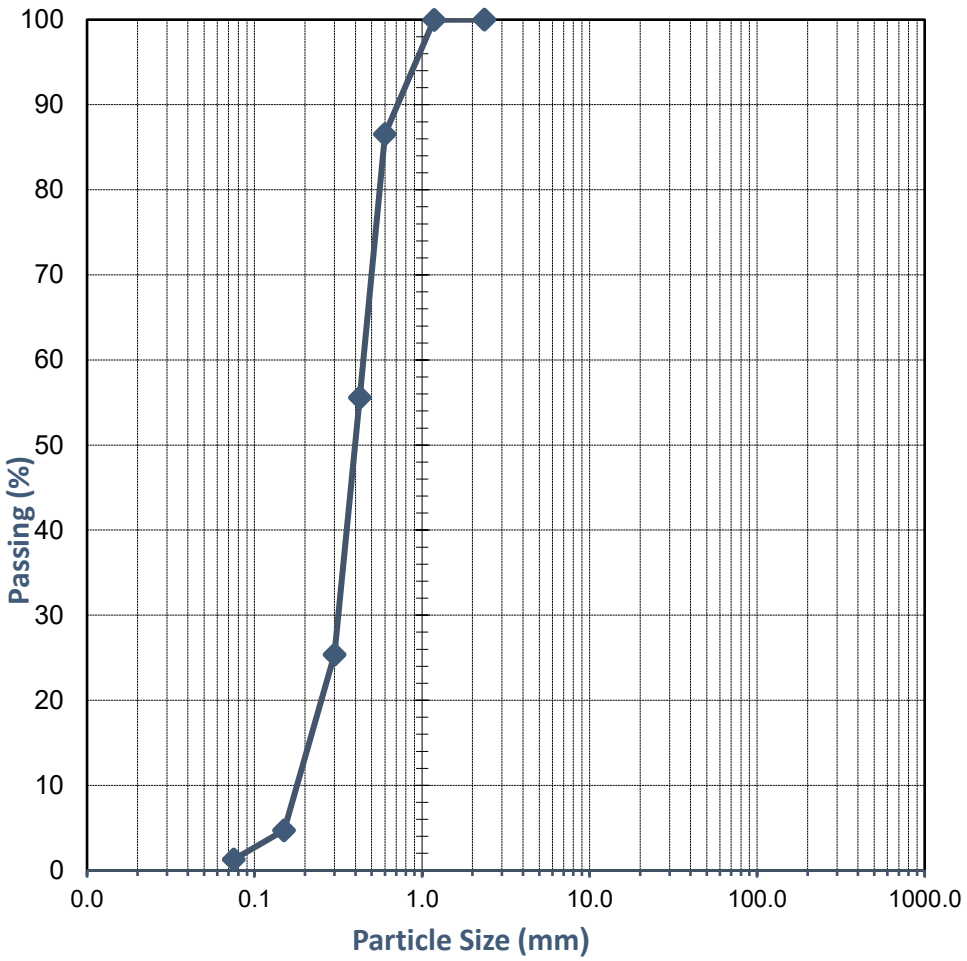
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15436_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15436
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH10 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	
2.36	100
1.18	100
0.600	87
0.425	56
0.300	25
0.150	5
0.075	1



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

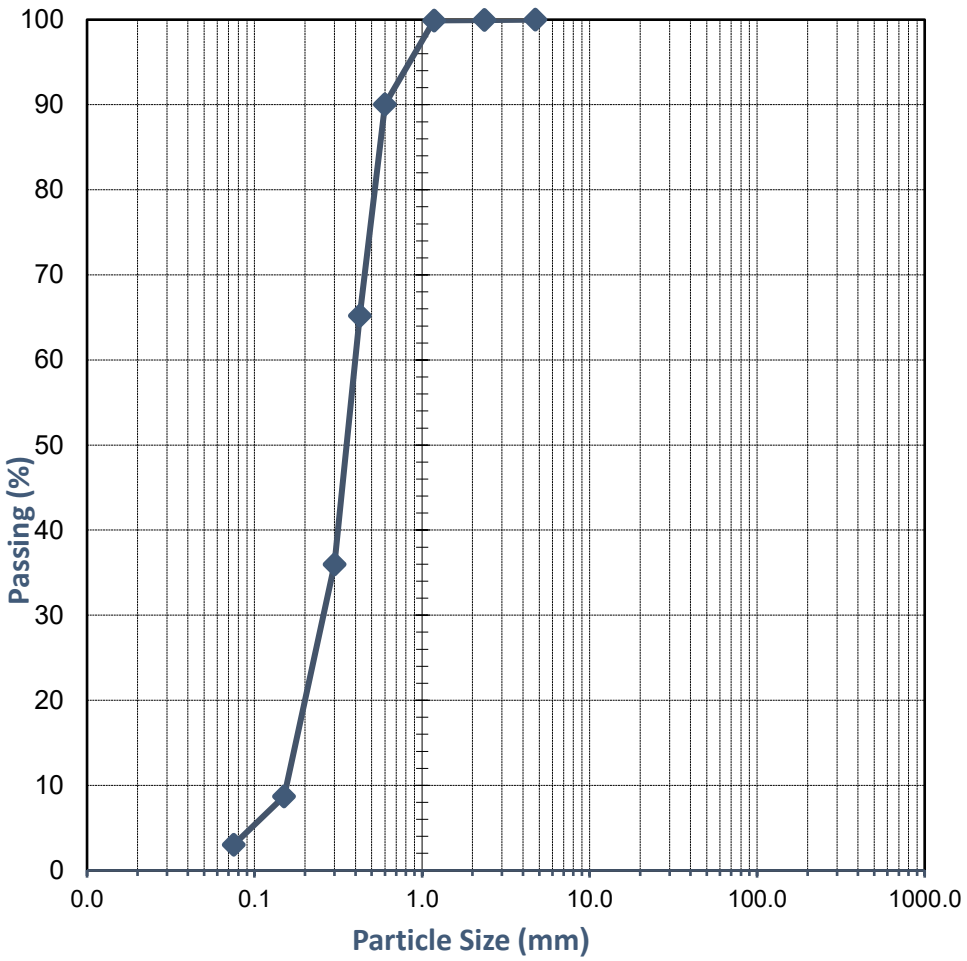
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15437_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15437
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G07 (0.5 - 0.6m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	100
2.36	100
1.18	100
0.600	90
0.425	65
0.300	36
0.150	9
0.075	3



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

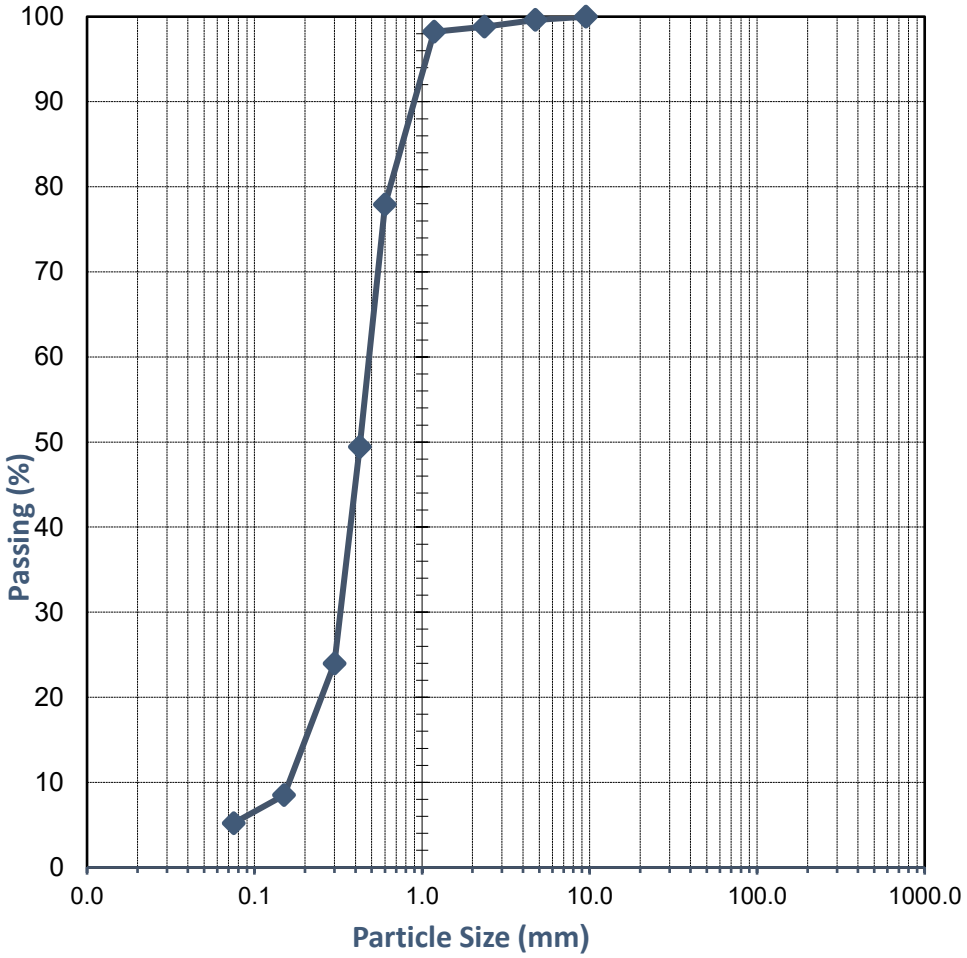
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15438_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15438
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G10 (0.4 - 0.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	99
1.18	98
0.600	78
0.425	49
0.300	24
0.150	8
0.075	5



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.4.1.1

Client:	Dynamic Planning and Developments	*Ticket No.*	C597
Client Address:	-	*Report No.*	WC25.779-782_1_OMC
Project:	Proposed HCLIA	*Sample No.*	WC25.779-782
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	Not Specified
Sample Identification:	Various - see below	*Date Tested:*	16/09/2025 - 17/09/2025

TEST RESULTS - Organic Matter Content of Soil - Normal Method

Sampling Method: **Sampled by Client, Tested as Received**

Sample Number	Sample Identification	Material Description	Organic Matter (%)
WC25.779	BH04 (1 - 1.4m)	Sandy Silt	10.7
WC25.780	BH06 (0.6 - 1.0m)	Sand	1.2
WC25.781	G07 (0.5 - 0.6m)	Sand	0.4
WC25.782	G10 (0.4 - 0.5m)	Sand	1.1

Comments:

Approved Signatory:

Name: Courtney Watt

Date: 18/September/2025

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Envirolab Services (WA) Pty Ltd trading as MPL Laboratories
ABN 53 140 099 207
7-11 Catalano Road Canning Vale WA 6155
ph +61 8 9317 2505
lab@mpl.com.au
www.mpl.com.au

Certificate of Analysis PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Contact	Laboratory
Address	235 Bank Street, WELSHPOOL, WA, 6101

Sample Details

Your Reference	S18630 / Proposed HCLIA
Number of Samples	5 Soil
Date Samples Received	12/09/2025
Date Instructions Received	12/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	23/09/2025
Date of Issue	19/09/2025

NATA Accreditation Number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Lien Tang, Assistant Operations Manager Lucas Yii, Inorganics Team Leader Varsha Ho Wing, Inorganics and Metals Supervisor
Laboratory Manager	Michael Kubiak

Certificate of Analysis PGI0989

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGI0989-01	WG25.15432 / BH02 (1-1.5m)	Soil	12/09/2025	12/09/2025
PGI0989-02	WG25.15434 / BH04 (1-1.4m)	Soil	12/09/2025	12/09/2025
PGI0989-03	WG25.15435 / BH06 (0.6-1.0m)	Soil	12/09/2025	12/09/2025
PGI0989-04	WG25.15437 / G07 (0.5-0.6m)	Soil	12/09/2025	12/09/2025
PGI0989-05	WG25.15438 / G10 (0.4-0.5m)	Soil	12/09/2025	12/09/2025

Certificate of Analysis PGI0989

Inorganics - General Physical Parameters (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
pH	pH units		8.4	4.8	7.3	7.8	7.7
Electrical Conductivity	µS/cm	2.0	300	1000	110	14	73

Certificate of Analysis PGI0989

PBI/PRI (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
Phosphorus Retention Index	-		21	200	4.0	0.50	1.5

Method Summary

Method ID	Methodology Summary
AGRI-003_PRI	Phosphorous Retention index (PRI) is the ratio of adsorbed phosphorus to the equilibrium concentration. Phosphorus is extracted using KCl and determined colourimetrically. Result value is used to calculate PRI as per Allen and Jefferey.
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed. Blanks may yield EC readings >1µS/cm, this is likely due to adsorption of Carbon Dioxide while the blank sample is sat on the instrument autosampler prior to analysis. The values are generally insignificant (<5µS/cm) compared to most actual sample conductivities.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from the latest "Australian Drinking Water Guidelines", published by NHMRC. No guideline values have been set for Total Coliforms in drinking water. Increased concentrations should be investigated. Total Coliforms are not considered useful as indicators of the presence of faecal contamination.

Where we have provided guideline values eg. ADWG Health Value, it is the responsiblity of the reader to decide if the water is fit for consumption. Please note that the tests we have conducted are just a selection of common tests to give you a general idea of drinking water quality. There are many other tests included in the ADWG that we have not tested for.

Data Quality Assessment Summary PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Your Reference	S18630 / Proposed HCLIA
Date Issued	19/09/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary PGI0989

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
EC | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
pH | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
PRI | Soil	1-5	12/09/2025	16/09/2025	18/09/2025	Yes

Quality Control PGI0989

INORG-001|Inorganics - General Physical Parameters (Soil) | Batch BGI2590

Analyte	Units	PQL	Blank	DUP1 PGI0989-03 Samp | QC | RPD %	LCS %
pH	pH units		5.9	7.3 | 7.5 | 2.43	102
Electrical Conductivity	µS/cm	2.0	<2.0	108 | 108 | 0.00	98.4

AGRI-003_PRI|PBI/PRI (Soil) | Batch BGI2709

Analyte	Units	PQL	Blank	DUP1 PGI0989-01 Samp | QC | RPD %	LCS %
Phosphorus Retention Index	-		0.00	20.5 | 20.3 | 1.08	75.6

Appendix F: Environmental Laboratory Certificates of Analysis

Galt Environment P/L
50 Edward Street
Osborne Park
WA 6017

NATA Accredited
Accreditation Number 1261
Site Number 20794 & 2780

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **- ALL SRA/Results**

Report **1265933-S**
Project name HATCH CT HIGH WYCOMBE
Project ID WAG25018-01
Received Date Sep 09, 2025

Client Sample ID			**BH11/0.25**	**BH11/1.0**	**BH11/2.25**	**BH12/0.75**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**L25-Se0027209**	**L25-Se0027210**	**L25-Se0027211**	**L25-Se0027212**
Date Sampled			**Sep 05, 2025**	**Sep 05, 2025**	**Sep 05, 2025**	**Sep 05, 2025**
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	77	170	94	190
>2mm Fraction	0.005	g	53	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	59	100	100	100
Extraneous Material	0.1	%	41	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	1.2
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	15
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
pH-KCL (NLM-3.1)	0.1	pH Units	8.7	6.9	6.6	5.1
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	12
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	0.020
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	0.013	0.005	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	8.4	3.2	3.6
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	2.7	0.29	0.17	N/A
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	530	58	35	N/A
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.85	0.09	0.06	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	15
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	1.2
% Moisture	1	%	19	21	17	23

Client Sample ID			BH12/2.0	BH12/3.0	BH13/0.5	BH13/1.25
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027213	L25-Se0027214	L25-Se0027215	L25-Se0027216
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	100	100	130	94
>2mm Fraction	0.005	g	< 0.005	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	100	100	100	100
Extraneous Material	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	11	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	5.9	5.6	6.2	6.6
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	2.0	4.0	3.0	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	0.010	< 0.003	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	0.012	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	7.5	3.6
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	N/A	N/A	N/A	0.88
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	N/A	N/A	N/A	180
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	N/A	N/A	N/A	0.28
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	11	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1
% Moisture	1	%	16	15	28	19

Client Sample ID			BH13/2.50	BH14/0.25	BH14/1.75	BH14/2.75
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027217	L25-Se0027218	L25-Se0027219	L25-Se0027220
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	160	200	69
>2mm Fraction	0.005	g	< 0.005	100	< 0.005	< 0.005
Analysed Material	0.1	%	100	60	100	100
Extraneous Material	0.1	%	< 0.1	40	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	13
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
pH-KCL (NLM-3.1)	0.1	pH Units	6.2	9.5	8.0	5.4
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	9.0
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	0.010
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	0.005	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	3.2	3.8

Client Sample ID			BH13/2.50	BH14/0.25	BH14/1.75	BH14/2.75
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027217	L25-Se0027218	L25-Se0027219	L25-Se0027220
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Chromium Suite - NASSG (Excluding ANC)						
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	N/A	4.1	0.21	N/A
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	N/A	830	43	N/A
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	N/A	1.3	0.07	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	13
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1
% Moisture	1	%	15	14	14	18

Client Sample ID			BH15/0.75	BH15/1.25	BH15/2.5	BH16/0.50
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027221	L25-Se0027222	L25-Se0027223	L25-Se0027224
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	120	140	170
>2mm Fraction	0.005	g	< 0.005	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	100	100	100	100
Extraneous Material	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	7.1	6.9	6.4	7.0
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	< 0.005	< 0.005
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	< 3	< 3
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	0.29	0.21	N/A	0.43
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	58	41	N/A	85
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.09	0.07	N/A	0.14
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1

Client Sample ID			BH15/0.75	BH15/1.25	BH15/2.5	BH16/0.50
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027221	L25-Se0027222	L25-Se0027223	L25-Se0027224
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
% Moisture	1	%	4.8	7.4	14	8.0

Client Sample ID			BH16/1.50	BH16/3.0	QC101
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027225	L25-Se0027226	L25-Se0027227
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit			
Extraneous Material					
<2mm Fraction	0.005	g	240	190	120
>2mm Fraction	0.005	g	< 0.005	22	160
Analysed Material	0.1	%	100	90	43
Extraneous Material	0.1	%	< 0.1	10	57
Chromium Suite - NASSG (Excluding ANC)					
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	6.6	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	88	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	0.14	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	8.9	4.9	9.2
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	48	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	0.080	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	0.064	0.005
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	40	3.4
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	0.50	N/A	4.3
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	99	N/A	850
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.16	N/A	1.4
ANC Fineness Factor		factor	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	0.14	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	88	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	6.6	< 1
% Moisture	1	%	14	13	14

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Extraneous Material	Brisbane	Sep 10, 2025	6 Week
- Method: LTM-GEN-7050/7070			
Chromium Suite - NASSG (Excluding ANC)	Brisbane	Sep 10, 2025	6 Week
- Method: LTM-GEN-7070 Chromium Reducible Sulfur Suite			
% Moisture	Brisbane	Sep 09, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			

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Project Name: HATCH CT HIGH WYCOMBE
Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1265933
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Sep 9, 2025 11:55 AM
Due: Sep 16, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Moisture Set	Chromium Suite - NASSG (Excluding ANC)
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH11/0.25	Sep 05, 2025		Soil	L25-Se0027209	X	X
2	BH11/1.0	Sep 05, 2025		Soil	L25-Se0027210	X	X
3	BH11/2.25	Sep 05, 2025		Soil	L25-Se0027211	X	X
4	BH12/0.75	Sep 05, 2025		Soil	L25-Se0027212	X	X
5	BH12/2.0	Sep 05, 2025		Soil	L25-Se0027213	X	X
6	BH12/3.0	Sep 05, 2025		Soil	L25-Se0027214	X	X
7	BH13/0.5	Sep 05, 2025		Soil	L25-Se0027215	X	X
8	BH13/1.25	Sep 05, 2025		Soil	L25-Se0027216	X	X
9	BH13/2.50	Sep 05, 2025		Soil	L25-Se0027217	X	X
10	BH14/0.25	Sep 05, 2025		Soil	L25-Se0027218	X	X
11	BH14/1.75	Sep 05, 2025		Soil	L25-Se0027219	X	X
12	BH14/2.75	Sep 05, 2025		Soil	L25-Se0027220	X	X
13	BH15/0.75	Sep 05, 2025		Soil	L25-Se0027221	X	X
14	BH15/1.25	Sep 05, 2025		Soil	L25-Se0027222	X	X

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Site# 25079

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WA 6017

Project Name: HATCH CT HIGH WYCOMBE
Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1265933
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Sep 9, 2025 11:55 AM
Due: Sep 16, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Moisture Set	Chromium Suite - NASSG (Excluding ANC)
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X	X
15	BH15/2.5	Sep 05, 2025		Soil	L25-Se0027223	X	X
16	BH16/0.50	Sep 05, 2025		Soil	L25-Se0027224	X	X
17	BH16/1.50	Sep 05, 2025		Soil	L25-Se0027225	X	X
18	BH16/3.0	Sep 05, 2025		Soil	L25-Se0027226	X	X
19	QC101	Sep 05, 2025		Soil	L25-Se0027227	X	X
Test Counts						19	19

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Chromium Suite - NASSG (Excluding ANC)									
pH-KCL (NLM-3.1)			%	98			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)			%	111			80-120	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)			%	102			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
CRS Suite - Liming Rate - NASSG (Excluding ANC)	L25-Se0027209	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027209	CP	mol H+/t	< 10	< 10	<1	20%	Pass	
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027209	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
pH-KCL (NLM-3.1)	L25-Se0027209	CP	pH Units	8.7	8.8	2.0	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027209	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027209	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Se0027209	CP	% S	< 0.005	< 0.005	<1	20%	Pass	
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	L25-Se0027209	CP	mol H+/t	< 3	< 3	<1	20%	Pass	
Sulfur - KCl Extractable	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
HCl Extractable Sulfur	L25-Se0027209	CP	% S	N/A	N/A	N/A	20%	Pass	
Net Acid soluble sulfur (SNAS) NLM-4.1	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	L25-Se0027209	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (s-SNAS) NLM-4.1	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	L25-Se0027209	CP	% CaCO3	2.7	2.4	11	20%	Pass	
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)	L25-Se0027209	CP	% S	0.85	0.77	11	30%	Pass	
ANC Fineness Factor	L25-Se0027209	CP	factor	1.5	1.5	<1	30%	Pass	
s-CRS Suite - Net Acidity - NASSG (including ANC)	L25-Se0027209	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Including ANC)	L25-Se0027209	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
CRS Suite - Liming Rate - NASSG (Including ANC)	L25-Se0027209	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	L25-Se0027217	CP	%	15	19	23	30%	Pass	
Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
CRS Suite - Liming Rate - NASSG (Excluding ANC)	L25-Se0027219	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027219	CP	mol H+/t	< 10	< 10	<1	20%	Pass	
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027219	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
pH-KCL (NLM-3.1)	L25-Se0027219	CP	pH Units	8.0	8.0	1.0	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027219	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027219	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Se0027219	CP	% S	0.005	0.005	<1	20%	Pass	

Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	L25-Se0027219	CP	mol H+/t	3.2	3.2	<1	20%	Pass	
Sulfur - KCl Extractable	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
HCl Extractable Sulfur	L25-Se0027219	CP	% S	N/A	N/A	N/A	20%	Pass	
Net Acid soluble sulfur (SNAS) NLM-4.1	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	L25-Se0027219	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (s-SNAS) NLM-4.1	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	L25-Se0027219	CP	% CaCO3	0.21	0.21	2.0	20%	Pass	
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)	L25-Se0027219	CP	% S	0.07	0.07	2.0	30%	Pass	
ANC Fineness Factor	L25-Se0027219	CP	factor	1.5	1.5	<1	30%	Pass	
s-CRS Suite - Net Acidity - NASSG (including ANC)	L25-Se0027219	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Including ANC)	L25-Se0027219	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
CRS Suite - Liming Rate - NASSG (Including ANC)	L25-Se0027219	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	L25-Se0027227	CP	%	14	14	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
S01	Liming rate is calculated and reported on a dry weight basis assuming use of fine agricultural lime (CaCO3) and using a safety factor of 1.5 to allow for non-homogeneous mixing and poor reactivity of lime. For conversion of Liming Rate from 'kg/t dry weight' to 'kg/m3 in-situ soil' multiply 'reported results' x 'wet bulk density of soil in t/m3'
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5
S03	Acid Neutralising Capacity is only required if the pHKCl if greater than or equal to pH 6.5
S04	Acid Sulfate Soil Samples have a 24 hour holding time unless frozen or dried within that period

Authorised by:

Natalie Hill	Analytical Services Manager
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-SPOCAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Galt Environment P/L
50 Edward Street
Osborne Park
WA 6017

NATA Accredited
Accreditation Number 2377
Site Number 2370 & 2554

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **- ALL SRA/Results**

Report **1268461-W**
Project name HATCH CT HIGH WYCOMBE
Project ID WAG25018-01
Received Date Sep 15, 2025

Client Sample ID			**MW01**	**MW02**	**QC102**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**L25-Se0046302**	**L25-Se0046303**	**L25-Se0046304**
Date Sampled			**Sep 12, 2025**	**Sep 12, 2025**	**Sep 12, 2025**
Test/Reference	LOR	Unit			
Acidity (as CaCO3)	10	mg/L	36	12	11
Ammonia (as N)	0.02	mg/L	0.49	< 0.02	0.05
Chloride	5	mg/L	330	16	16
Conductivity (at 25 °C)	10	uS/cm	1400	430	430
Filterable Reactive Phosphorus	0.01	mg/L	< 0.01	0.05	0.12
NOx (as N)	0.01	mg/L	< 0.01	9.9	9.8
pH (at 25 °C)	0.1	pH Units	6.8	7.7	7.7
Salinity (at 25 °C)	10	mg/L	690	200	200
Sulfate (as SO4)	1	mg/L	35	< 1	13
Total Dissolved Solids Dried at 180 °C ± 2 °C	5	mg/L	810	360	350
Total Kjeldahl Nitrogen	0.2	mg/L	4.9	< 0.2	< 0.2
Total Nitrogen	0.2	mg/L	4.9	9.9	9.9
Total Phosphorus	0.01	mg/L	0.18	0.17	0.16
Alkalinity (speciated)					
Bicarbonate Alkalinity (as CaCO3)	5	mg/L	210	150	150
Carbonate Alkalinity (as CaCO3)	5	mg/L	< 5	< 5	< 5
Hydroxide Alkalinity (as CaCO3)	5	mg/L	< 5	< 5	< 5
Total Alkalinity (as CaCO3)	5	mg/L	210	150	150
Heavy Metals					
Aluminium	0.05	mg/L	0.80	2.5	2.5
Iron	0.01	mg/L	4.3	3.1	2.9
Alkali Metals					
Sodium	0.5	mg/L	120	15	12
Acid Sulphate Metals : Metals M9 filtered					
Aluminium (filtered)	0.05	mg/L	0.70	0.46	0.23
Arsenic (filtered)	0.001	mg/L	0.002	0.006	0.005
Cadmium (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001
Chromium (filtered)	0.001	mg/L	0.002	0.001	0.001
Iron (filtered)	0.01	mg/L	4.3	0.40	0.26
Manganese (filtered)	0.005	mg/L	0.35	0.055	0.036
Nickel (filtered)	0.001	mg/L	0.002	0.003	0.003
Selenium (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	0.065	0.10

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Acidity (as CaCO3)	Welshpool	Sep 15, 2025	14 Days
- Method: LTM-INO-4210 Acidity			
Ammonia (as N)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL303 - Ammonia in Water by Discrete Analyser			
Chloride	Welshpool	Sep 15, 2025	28 Days
- Method: ARL305 - Chloride in Water by Discrete Analyser			
Conductivity (at 25 °C)	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-INO-4030 Conductivity			
Filterable Reactive Phosphorus	Welshpool	Sep 15, 2025	28 Days
- Method: ARL309 - Filterable Reactive Phosphorus in Water by Discrete Analyser			
NOx (as N)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL313/319 - NOx in Water by Discrete Analyser			
pH (at 25 °C)	Welshpool	Sep 15, 2025	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Salinity (at 25 °C)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL019 - Conductivity and Salinity in Water			
Sulfate (as SO4)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL301 - Sulfate in Water by Discrete Analyser			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Welshpool	Sep 15, 2025	7 Days
- Method: ARL No. 017 - Total Dissolved Solids			
Total Kjeldahl Nitrogen	Welshpool	Sep 15, 2025	28 Day
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Nitrogen	Welshpool	Sep 15, 2025	28 Days
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Phosphorus	Welshpool	Sep 15, 2025	28 Days
- Method: ARL308 - Total Phosphorus in Water by Discrete Analyser			
Alkalinity (speciated)	Welshpool	Sep 15, 2025	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Heavy Metals	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Alkali Metals	Welshpool	Sep 15, 2025	6 Months
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Acid Sulphate Metals : Metals M9 filtered	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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NATA# 1261
Site# 25079

Company Name: Galt Environment P/L
Address: 50 Edward Street
Osborne Park
WA 6017

Project Name: HATCH CT HIGH WYCOMBE
Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1268461
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Sep 15, 2025 3:15 PM
Due: Sep 22, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						ASS Groundwater Quality Suite - WA Department of Environment and
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	MW01	Sep 12, 2025		Water	L25-Se0046302	X
2	MW02	Sep 12, 2025		Water	L25-Se0046303	X
3	QC102	Sep 12, 2025		Water	L25-Se0046304	X
Test Counts						3

eurofins | Environment Testing

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
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LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

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Results <10 times the LOR:	No Limit
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NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Ammonia (as N)	mg/L	< 0.02			0.02	Pass	
Filterable Reactive Phosphorus	mg/L	< 0.01			0.01	Pass	
NOx (as N)	mg/L	< 0.01			0.01	Pass	
Salinity (at 25 °C)	mg/L	< 10			10	Pass	
Sulfate (as SO4)	mg/L	< 1			1	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	mg/L	< 5			5	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 5			5	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 5			5	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/L	< 0.05			0.05	Pass	
Iron	mg/L	< 0.01			0.01	Pass	
Method Blank							
Alkali Metals							
Sodium	mg/L	< 0.5			0.5	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	mg/L	-0.00012585			0.05	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chloride	mg/L	< 5			5	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals							
Aluminium	%	90			80-120	Pass	
Iron	%	98			80-120	Pass	
LCS - % Recovery							
Alkali Metals							
Sodium	%	85			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	%	96			80-120	Pass	
Arsenic (filtered)	%	107			80-120	Pass	
Cadmium (filtered)	%	92			80-120	Pass	
Chromium (filtered)	%	103			80-120	Pass	
Iron (filtered)	%	100			80-120	Pass	
Manganese (filtered)	%	102			80-120	Pass	
Nickel (filtered)	%	97			80-120	Pass	
Selenium (filtered)	%	97			80-120	Pass	
Zinc (filtered)	%	101			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	110			80-120	Pass	
Cadmium (filtered)	%	92			80-120	Pass	
Chromium (filtered)	%	100			80-120	Pass	
Iron (filtered)	%	96			80-120	Pass	
Manganese (filtered)	%	98			80-120	Pass	
Nickel (filtered)	%	92			80-120	Pass	
Selenium (filtered)	%	95			80-120	Pass	
Zinc (filtered)	%	97			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	106			80-120	Pass	
Chromium (filtered)	%	101			80-120	Pass	
Iron (filtered)	%	98			80-120	Pass	
Manganese (filtered)	%	99			80-120	Pass	
Nickel (filtered)	%	94			80-120	Pass	
Selenium (filtered)	%	96			80-120	Pass	
Zinc (filtered)	%	98			80-120	Pass	
CRM - % Recovery							
Sulfate (as SO4)	%	112			80-120	Pass	
CRM - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	91			90-110	Pass	
Cadmium (filtered)	%	98			90-110	Pass	
Chromium (filtered)	%	105			90-110	Pass	
Manganese (filtered)	%	108			90-110	Pass	
Nickel (filtered)	%	100			90-110	Pass	
Selenium (filtered)	%	91			90-110	Pass	
Zinc (filtered)	%	97			90-110	Pass	
CRM - % Recovery							
Chloride	%	109			80-120	Pass	
CRM - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	%	93			90-110	Pass	
Arsenic (filtered)	%	104			90-110	Pass	
Cadmium (filtered)	%	92			90-110	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium (filtered)			%	110			90-110	Pass	
Iron (filtered)			%	110			90-110	Pass	
Manganese (filtered)			%	110			90-110	Pass	
Nickel (filtered)			%	108			90-110	Pass	
Selenium (filtered)			%	103			90-110	Pass	
CRM - % Recovery									
Chloride			%	115			80-120	Pass	
CRM - % Recovery									
Acid Sulphate Metals : Metals M9 filtered									
Arsenic (filtered)			%	99			90-110	Pass	
Cadmium (filtered)			%	107			90-110	Pass	
Chromium (filtered)			%	91			90-110	Pass	
Iron (filtered)			%	91			90-110	Pass	
Manganese (filtered)			%	107			90-110	Pass	
Nickel (filtered)			%	106			90-110	Pass	
Selenium (filtered)			%	100			90-110	Pass	
Zinc (filtered)			%	107			90-110	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
				Result 1					
Ammonia (as N)	L25-Se0046303	CP	%	104			80-120	Pass	
Chloride	L25-Se0046303	CP	%	106			70-130	Pass	
Filterable Reactive Phosphorus	L25-Se0046303	CP	%	107			80-120	Pass	
NOx (as N)	L25-Se0046303	CP	%	111			80-120	Pass	
Sulfate (as SO4)	L25-Se0046303	CP	%	110			70-130	Pass	
Spike - % Recovery									
Acid Sulphate Metals : Metals M9 filtered				Result 1					
Arsenic (filtered)	L25-Se0046303	CP	%	111			75-125	Pass	
Cadmium (filtered)	L25-Se0046303	CP	%	88			75-125	Pass	
Chromium (filtered)	L25-Se0046303	CP	%	100			75-125	Pass	
Iron (filtered)	L25-Se0046303	CP	%	95			75-125	Pass	
Manganese (filtered)	L25-Se0046303	CP	%	92			75-125	Pass	
Nickel (filtered)	L25-Se0046303	CP	%	91			75-125	Pass	
Selenium (filtered)	L25-Se0046303	CP	%	96			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	L25-Se0046302	CP	mg/L	0.49	0.46	8.0	20%	Pass	
Chloride	L25-Se0046302	CP	mg/L	330	340	2.0	30%	Pass	
Conductivity (at 25 °C)	L25-Se0043840	NCP	uS/cm	41000	41000	<1	30%	Pass	
Filterable Reactive Phosphorus	L25-Se0046302	CP	mg/L	< 0.01	< 0.01	<1	20%	Pass	
NOx (as N)	L25-Se0046302	CP	mg/L	< 0.01	< 0.01	<1	20%	Pass	
pH (at 25 °C)	L25-Se0043840	NCP	pH Units	7.7	7.7	1.0	30%	Pass	
Salinity (at 25 °C)	L25-Se0046302	CP	mg/L	690	670	2.0	20%	Pass	
Sulfate (as SO4)	L25-Se0046302	CP	mg/L	35	38	8.0	30%	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	L25-Se0046302	CP	mg/L	810	810	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	L25-Se0046302	CP	mg/L	0.80	0.79	1.0	30%	Pass	
Iron	L25-Se0046302	CP	mg/L	4.3	4.4	2.0	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Sodium	L25-Se0046302	CP	mg/L	120	120	1.0	30%	Pass	

Duplicate									
Acid Sulphate Metals : Metals M9 filtered				Result 1	Result 2	RPD			
Arsenic (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	4.0	30%	Pass	
Cadmium (filtered)	L25-Se0046302	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	13	30%	Pass	
Iron (filtered)	L25-Se0046302	CP	mg/L	4.3	4.7	1.0	30%	Pass	
Manganese (filtered)	L25-Se0046302	CP	mg/L	0.35	0.34	3.0	30%	Pass	
Nickel (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	3.0	30%	Pass	
Selenium (filtered)	L25-Se0046302	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	L25-Se0046302	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Sam Becker	Senior Analyst-Inorganic



Kim Rodgers
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request

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Appendix G: Acid Sulfate Soil Testing Results

Acid Sulfate Soil Field Testing

Field Observations						Lab pH	Chromium Reducible Sulfur Suite				Acid Sulfate Soil Classification
Sample ID		pH_f	pH_{fox}	$pH_f - pH_{fox}$	Reaction Rate	pH_{KCl}	Titratable Actual Acidity	Chromium Reducible Sulfur	Acid Neutralising Capacity	Net Acidity	
Location	Depth (m)	pH units	pH units	pH units	LMHXV	pH units	%S	%S	%S	%S	
		4	4	1	NV	NV	0.03	0.03	NV	0.03	NV
BH11	0.00	7.6	5.2	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.6	5.2	2.4	L	8.7	< 0.003	<0.005	0.85	< 0.02	NASS
	0.50	7.6	5.3	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	7.6	5.3	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.3	6.0	2.3	L	6.8	< 0.003	0.013	0.09	< 0.02	NASS
	1.25	8.3	6.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.5	6.0	2.5	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.4	5.5	2.9	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	8.3	5.3	3.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.3	5.0	3.3	L	6.6	< 0.003	0.005	0.06	< 0.02	NASS
	2.50	8.3	5.0	3.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	7.4	4.8	2.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	7.5	4.3	3.2	L	. . .	. . .	. . .	. . .	. . .	. . .
BH12	0.00	5.2	3.9	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	5.2	3.6	1.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	4.7	3.3	1.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	5.1	3.7	1.4	L	5.1	0.02	0.006	N/A	0.02	NASS
	1.00	5.6	4.3	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	5.9	4.9	1.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	6.4	5.1	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	6.7	5.2	1.5	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	6.8	4.9	1.9	L	5.9	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.25	6.7	4.6	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	6.5	4.2	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	6.8	4.1	2.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	6.9	4.1	2.8	L	4.0	0.01	< 0.005	N/A	< 0.02	NASS
BH13	0.00	7.3	5.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.3	5.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	7.2	5.0	2.2	L	6.2	< 0.003	0.012	N/A	0.02	NASS
	0.75	7.2	5.1	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	7.3	5.6	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	7.3	5.6	1.7	L	6.6	< 0.003	0.006	0.28	< 0.02	NASS
	1.50	7.4	5.6	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	7.4	5.3	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	7.5	5.9	1.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	7.8	6.0	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.0	5.8	2.2	L	6.2	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.75	8.1	5.9	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	8.1	5.8	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .

Acid Sulfate Soil Field Testing

Field Observations						Lab pH	Chromium Reducible Sulfur Suite				Acid Sulfate Soil Classification
Sample ID		pH_f	pH_{fox}	$pH_f - pH_{fox}$	Reaction Rate	pH_{KCl}	Titratable Actual Acidity	Chromium Reducible Sulfur	Acid Neutralising Capacity	Net Acidity	
Location	Depth (m)	pH units	pH units	pH units	LMHXV	pH units	%S	%S	%S	%S	
		4	4	1	NV	NV	0.03	0.03	NV	0.03	NV
BH14	0.00	8.2	5.8	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	8.2	5.8	2.4	L	9.5	< 0.003	< 0.005	1.3	< 0.02	NASS
	0.50	8.3	6.5	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	8.3	6.4	1.9	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.4	6.3	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.3	6.2	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.2	6.1	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.2	5.8	2.4	L	8.0	< 0.003	0.005	0.07	< 0.02	NASS
	2.00	8.2	4.4	3.8	M	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.3	3.9	4.4	M	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.5	2.9	5.6	H	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	8.4	2.6	5.8	M	5.4	0.01	0.006	N/A	0.02	NASS
	3.00	8.3	2.6	5.7	M	. . .	. . .	. . .	. . .	. . .	. . .
BH15	0.00	7.8	6.5	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.6	6.4	1.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	8.0	6.3	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	8.1	6.2	1.9	L	7.1	< 0.003	< 0.005	0.09	< 0.02	NASS
	1.00	8.2	6.2	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.3	5.9	2.4	L	6.9	< 0.003	< 0.005	0.07	< 0.02	NASS
	1.50	8.2	5.9	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.3	5.9	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	8.3	6.3	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.5	6.1	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.5	6.0	2.5	L	6.4	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.75	8.5	5.8	2.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	8.3	6.4	1.9	L	. . .	. . .	. . .	. . .	. . .	. . .
BH16	0.00	8.3	6.3	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	8.3	6.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	8.2	6.1	2.1	L	7.0	< 0.003	< 0.005	0.14	< 0.02	NASS
	0.75	8.2	6.0	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.2	5.9	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.1	5.9	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.0	5.7	2.3	L	5.9	< 0.003	< 0.005	0.16	< 0.02	NASS
	1.75	7.8	6.1	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	7.8	6.1	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	6.0	4.9	1.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	6.1	4.8	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	6.0	4.6	1.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	6.0	4.6	1.4	L	4.9	0.08	0.064	N/A	0.14	ASS

Appendix H: Groundwater Field Parameters

GROUNDWATER FIELD PARAMETERS

Date:	12/09/2025	Monitoring Well:	MW02	Purge Method:	LF
Job Number:	WAG250183	Depth to Water (mTOC)	1.77	Purge volume (L)	2.5
Site:	Hatch Ct High Wycombe	Depth of Well (mTOC)	3.32	Flow rate (L/min)	0.5
Field Rep:	SB	Stick-up (m):	0.62	Flow cell used:	Y
		Dipper correction	Y		

Observations	Volume (L)	Time	Temp(C)	DO(%L)	DO(mg/L)	SPC(uS/cm)	pH	Redox(mV)
Pale brown colour, mild turbidity, mild organic odour.	0.5	1	17.28	72.5	6.33	405.0	7.18	65
	1.0	2	17.28	70.1	6.21	405.0	7.17	58
	1.5	3	17.28	65.5	6.08	403.0	7.17	54
	2.0	4	17.27	62.3	5.98	400.0	7.16	54
	2.5	5	17.27	62.5	5.96	401.0	7.16	58

GROUNDWATER FIELD PARAMETERS

Date:	12/09/2025	Monitoring Well:	MW03	Purge Method:	LF
Job Number:	WAG250183	Depth to Water (mTOC)	0.93	Purge volume (L)	2.5
Site:	Hatch Ct High Wycombe	Depth of Well (mTOC)	3.54	Flow rate (L/min)	0.5
Field Rep:	SB	Stick-up (m):	0.65	Flow cell used:	Y
		Dipper correction	Y		

Observations	Volume (L)	Time	Temp(C)	DO(%L)	DO(mg/L)	SPC(uS/cm)	pH	Redox(mV)
Grey/ brown, high turbidity, strong organic odour.	0.5	1	16.6	34.0	2.59	1270.0	6.16	51.6
	1.0	2	16.6	33.1	2.59	1268.0	6.19	49.9
	1.5	3	16.5	30.2	2.56	1258.0	6.19	47.5
	2.0	4	16.05	29.4	2.45	1250.0	6.18	48.5
	2.5	5	16.05	27.0	2.45	1247.0	6.18	40.9

Appendix I: Tabulated Groundwater Results

Laboratory Analytical Results - Groundwater

			Field ID	MW01	MW02
			Date	12 Sep 2025	12 Sep 2025
			Sample Type	Normal	Normal
			Lab Report Number	1268461	1268461
	Unit	EQL	WA DWER Non-potable groundwater use guideline (NPUG) (2021)		
Other					
Acidity (as CaCO3)	**mg/L**	10		36	12
Inorganics					
Reactive Phosphorus (Orthophosphate)	**mg/L**	0.01		<0.01	0.12*
Nitrite + Nitrate as N	**mg/L**	0.01		<0.01	9.9
Alkalinity (Bicarbonate as CaCO3)	**mg/L**	5		210	150
Alkalinity (Carbonate as CaCO3)	**mg/L**	5		<5	<5
Alkalinity (Hydroxide) as CaCO3	**mg/L**	5		<5	<5
Alkalinity (total) as CaCO3	**mg/L**	5		210	150
Ammonia as N	**mg/L**	0.02		0.49	<0.02
Chloride (filtered)	**mg/L**	5	250	330	16
Electrical Conductivity (Lab)	**µS/cm**	10		1,400	430
Kjeldahl Nitrogen Total	**mg/L**	0.2		4.9	<0.2
Nitrogen (Total)	**mg/L**	0.2		4.9	9.9
pH (Lab)	**-**	0.1		6.8	7.7
Total Phosphorus (Organic Phosphate)	**mg/L**	0.01		0.18	0.17
Salinity	**mg/L**	10		690	200
Sodium	**mg/L**	0.5		120	15
Sulphate (filtered)	**mg/L**	1	1,000	35	13*
Total Dissolved Solids (Lab)	**mg/L**	5		810	360
Metals					
Aluminium	**mg/L**	0.05	0.2	0.80	2.5
Aluminium (filtered)	**mg/L**	0.05	0.2	0.70	0.46
Selenium (filtered)	**ug/L**	1	100	<1	<1
Arsenic (filtered)	**mg/L**	0.001	0.1	0.002	0.006
Cadmium (filtered)	**mg/L**	0.0001	0.02	<0.0001	<0.0001
Chromium (III+VI) (filtered)	**mg/L**	0.001		0.002	0.001
Iron	**mg/L**	0.01	0.3	4.3	3.1
Iron (filtered)	**mg/L**	0.01	0.3	4.3	0.40
Manganese (filtered)	**mg/L**	0.005	5	0.35	0.055
Nickel (filtered)	**mg/L**	0.001	0.2	0.002	0.003
Zinc (filtered)	**mg/L**	0.005	3	<0.005	0.065

* The highest value has been adopted from QA/QC samples

Environmental Standards

WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPUG) (2021)

Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

GDR1 ABOUT THIS APPENDIX

These technical notes are to be read with the attached report. These notes contain important information regarding the study in the attached report, and the report cannot be considered in isolation without full reading of these notes.

Where there are conflicts between this appendix and the report text, the report text takes precedence.

Unless noted otherwise, geotechnical investigations are conducted in accordance with AS1726-2017, “Geotechnical site investigations”.

Unless noted otherwise, the report does not include any assessment (or implied assessment) of karst risk.

GDR2 DEFINITIONS

The following definitions apply:

- **Approved Fill** – fill that has been assessed and approved by the geotechnical engineer or civil designer for a particular purpose.
- **Bedding** – A controlled fill layer placed beneath buried elements such as pipes, cables or other infrastructure to provide uniform support and distribute loading.
- **Bulk Fill** – Controlled fill intended to support future infrastructure, but potentially lacking some engineering properties required for upper fill layers or adjacent to structures, where fill with specific properties may be required. Contrast with Select Fill.
- **Civil Design** – the engineering design of the earthworks including surface water and erosion control and subsurface drainage control (where required) to achieve an earthworked, drained site which is capable of supporting the proposed development (including target site classification to AS2870, where relevant). This design is separate to this geotechnical investigation and is a required element of a site development.
- **Clay** – A component of a soil with particles smaller than 0.002 mm in size.
- **Cohesionless (Non-cohesive) Soil** – A soil mass that has does not hold together at low applied stress levels. The strength of the soil depends solely on friction between particles.
- **Cohesive Soil** – A soil mass that has holds together and can adhere to itself.
- **Collapsible Soil** – a soil with high void ratio that is typically strong when dry but loses strength and consolidates under constant stress when wetted, usually due to loss of soil matric suction or dissolving of a chemical cementing agent.
- **Compaction –** The process of increasing the soil density, typically be mechanical means.
- **Competent Person** – A person who has, through a combination of training, education and experience, acquired knowledge and skills enabling that person to correctly perform a specified task.
- **Consistency** – The stiffness of a cohesive soil, at specific moisture contents, to resist mechanical stress or manipulation (remoulding).
- **Controlled (or engineered) Fill** – Any fill for which engineering properties are controlled during placement. Also referred to as structural fill.
- **Dense –** with respect to sandy soils, at a relatively high density index or dry density ratio, exhibiting better engineering parameters with respect to strength and stiffness than the same material at a lower density index.
- **Density** – A measure of the mass of material per unit volume.
- **Eccentric Load** – a load incorporating either a varying vertical load and/or a horizontal load such that the peak vertical stress exceeds the average vertical stress.
- **Embedment Fill** – A controlled fill material placed around and above buried infrastructure (such as pipes, cables or conduits) to provide protection and support.
- **Fill** – Any material that has been placed by anthropogenic processes.
- **Fines** – A component of a soil with particles smaller than 0.075 mm in size.
- **Groundwater** – Water located beneath the earth’s surface in pore spaces, fractures and voids in soil or rock.

- **Gravel** – A component of a soil with particles between 2.36 mm and 63 mm in size.
- **Heavily Loaded** – in reference to mobile plant, particularly intended for equipment where ground bearing pressures exceed 50 kPa and/or equipment has a high centre of gravity and could be prone to toppling. In reference to buildings/structures, where footing pressures exceed 100 kPa and/or footing dimensions exceed 1 m wide.
- **Hydraulic Conductivity** – ratio of volume flux to hydraulic gradient – a quantitative measure of soil's ability to transmit water when subjected to a hydraulic gradient. k_{sat} – saturated hydraulic conductivity, intended for dewatering assessment, subsoil drainage design and other engineering assessments where saturated soils are relevant. k_{unsat} – unsaturated hydraulic conductivity, intended for design of stormwater disposal elements such as soakwells and infiltration basins, where the base of disposal elements is above the groundwater level.
- **In situ** – In the place and condition in which it exists naturally. May also refer to fill that is present at any site prior to an investigation taking place.
- **Limestone** – A sedimentary carbonate rock. The use of the term does not infer a specific strength, carbonate content or grain size. Refer to GDR4.1 for further detail.
- **Loose** – with respect to sand soils, at a relatively low density index or dry density ratio, typically indicating poorer engineering parameters with respect to strength and stiffness than the same material at a higher density index.
- **Material** – Matter that meets the definitions of 'soil', 'rock', other engineered matter (i.e., concrete, bricks etc.) or non-engineered matter (organics, contaminated refuse, deleterious material).
- **May** – Indicates that the statement is an option.
- **Must** – Indicates that the statement is mandatory.
- **Natural** – In the context of soil or rock, material which is present as a result of natural geological processes and has not been subject to anthropogenic engineering processes (such as filling, excavation, replacement, etc).
- **Organic** – In the context of soil, material derived from living matter, primarily plants.
- **Overconsolidated** – a soil that has been subjected to a greater vertical stress than its current state.
- **Permeable Soil** – soil that meets the civil design permeability requirements to allow relatively rapid flow of water through the soil matrix.
- **Rock** – Any aggregate of minerals and/or materials that cannot be disaggregated by hand in air or water without prior soaking.
- **Sand** – a component of soil with particle size between 0.075 mm and 2.36 mm.
- **Select Fill** – a controlled fill which has been chosen for particular engineering characteristics (such as strength, CBR, grading, permeability, etc), commonly for use as a higher-grade capping layer or adjacent to structures. Contrast with Bulk Fill.
- **Shall** – Indicates that the statement is mandatory.
- **Should** – Indicates that the statement is a recommendation.
- **Silt** – A component of a soil with particles between 0.075 mm and 0.002 mm in size.
- **Soil** – Particulate materials that occur in the ground and can be disaggregated or remoulded by hand in air or water without prior soaking.
- **Sand** – A component of a soil with particle between 0.075 mm and 2.36 mm in size.
- **Uncontrolled Fill** – Any material that has been deposited by anthropogenic process, which does not meet the definition of 'controlled fill'.

GDR3 GEOTECHNICAL TEST METHODS AND INTERPRETATION

GDR3.1 Test Pit Excavation

Test pit excavations are formed using mechanical excavation equipment (typically an excavator) or hand dug, with the objective of inspecting (or profiling) the soil exposed in the excavation.

Typical limitations on test pit excavations are:

- Limited depth of excavation – typically governed by reach of the excavator arm.
- Cannot be excavated below groundwater in cohesionless soils, due to collapse and water ingress.
- Cannot be excavated through very stiff / very dense soils (i.e., desiccated clays or cemented soils) or most rock.
- Cannot typically obtain rock samples that are suitable for strength testing.

Test pits are usually mechanically excavated with a toothed bucket (intended for excavation in clay or weak rock) or a flat-edged bucket (typically for sands).

When hand-dug test pits are excavated, it is usually for recovery of near-surface soils or inspection of shallow in-ground elements.

We note that where test pits are excavated on a site, they are only ever loosely backfilled during our studies. They must always be located during site preparation works, over-excavated to their full depth and plan extents and re-filled with approved fill in compacted layers.

GDR3.2 Cone Penetration Tests (CPTs)

Cone penetration testing (CPT) is done by Galt or specialist contractors and typically to AS1289.6.5.1. The test involves pushing an instrumented cone into the soil with a hydraulically operated pushing frame. The test measures tip resistance and sleeve friction on the cone, which are then plotted with depth.

We interpret soil types and associated geotechnical soil parameters from CPT data using the following:

Technical Interpretations and International Guides

- Robertson P.K., Campanella R.G., Gillespie D. and Grieg J. (1986). “Use of piezometer cone data”. Proceedings of the ASCE Speciality Conference In Situ ’86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE).
- Robertson, P.K., Cabal K.L. (2016) “Guide to Cone Penetration Testing for Geotechnical Engineering 6th Edition 2015”. Gregg Drilling & Testing, Inc., California.
- Baldi G., Bellotti R., Ghionna V.H., Jamiolkowski M., Lo Presti D. C. (1989) “Modulus of sands from CPTs and DMTs”. Proc. 12th Int. Conf. on SMFE, Rio de Janeiro, Vol 1, p165-170, Balkema, Rotterdam.

Local (Perth and Western Australia) Research, Interpretation and Guides

- Fahey, M., Lehane, B., Stewart, D. (2003) “Soil stiffness for shallow foundation design in the Perth CBD”. Australian Geomechanics Vol. 8 No. 3.
- Main Roads Western Australia (MRWA) (2009) “Structures Engineering Design Manual”. Document 3912/03, Perth.
- Lehane B. (2017). “CPT-Based Design of Foundations”, E.H. Davis Memorial Lecture, Australian Geomechanics, Vol 54. No. 4’ and
- Galt’s in-house correlations between CPT data and other geotechnical testing.

GDR3.3 Borehole Drilling

Boreholes are drilled for sampling of the soil and rock, with a small disturbance footprint. Typical techniques are:

- Auger drilling (hand auger or machine auger) – for recovery of soil at relatively shallow depths only. Cannot penetrate cemented soils or rock.
- Push probe drilling – for recovery of soil at relatively shallow depths and below groundwater. Cannot penetrate cemented soils or rock.

- Air core drilling – for recovery of soil, cemented soil and rock (typically up to high strength rock). Not suited to drilling of very high strength rock.
- Diamond coring (or rotary coring) – for recovery of cemented soil, rock and some soil types (typically not sand). Suited to all strengths of rock.

If used, standard penetration tests (SPTs) are done in accordance with AS1289.6.3.1. Correlations for consistency and density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.4 Dynamic Cone Penetrometer (DCP)

The DCP is a hand-held tool for assessing penetration resistance of a soil. This comprises a 16 mm rod equipped with a 20 mm cone, hammered into the ground using a falling 9 kg weight on a 510 mm slide hammer on the top of the rod. This is done in accordance with AS1289.6.3.2 and the blow counts to hammer in the rod are measured in 100 mm penetration increments. Where provided, correlations for consistency and density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.5 Perth Sand Penetrometer (PSP)

The PSP is a variation on a DCP and uses a 9 kg weight on a 600 mm slide hammer to hammer in a 16 mm rod with a blunt (square-faced) end. Testing is done in accordance with AS1289.6.3.3, with the following typical variations:

- Testing is often done to a greater depth than the 450 mm covered in the standard.
- Blow counts are sometimes recorded in 150 mm intervals (compared to 300 mm intervals used in the standard) to provide better resolution on the tests.

Where provided, correlations for density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.6 Dynamic Probing Super Heavy (DPSH)

The DPSH test involves driving a solid cone (20 cm^2) into the ground using a 63.5 kg hammer falling 760 mm. Testing is done in accordance with EN ISO 22476-2 – Geotechnical engineering – Field testing – Part 2: Dynamic probing – DPSH-B.

Results may be presented as either:

- N10 (No. of blows required for every 100 mm penetration);
- N30 (No. of blows required for every 300 mm penetration); or
- q_d (dynamic tip resistance, analogous to CPT q_c).

GDR3.7 Inverse Auger Hole Infiltration Test (Falling Head, Unsaturated Soil)

Infiltration tests are carried out using the 'inverse auger hole' method described by:

- Cocks, G (2007), "Disposal of Stormwater Runoff by Soakage in Perth Western Australia", Journal and News of the Australian Geomechanics Society, Volume 42 No. 3, pp 101-114

This test is an unsaturated falling head test, in that it is carried out above the groundwater table and is intended to mimic the behaviour of soak wells and similar drainage elements (i.e. soakage basins), which discharge stormwater into an unsaturated medium.

The hole is wetted only for a short period prior to the testing.

The test is usually repeated three times, with the intention that the second and third tests provide similar results (within about 10%-20%). Tests are done over a short duration, typically 2 minutes to 10 minutes. The focus of the testing is generally when the head is low (200 mm or lower), such that the relevant lateral zone is as saturated as the zone directly below the borehole.

The hydraulic conductivity derived from this test is not to be used for applications where saturated hydraulic conductivity is relevant, e.g.:

- Subsoil drainage design; and

- Dewatering estimations.

Based on Galt's in-house research, this method does not completely saturate the soil in any reasonable test length, and thus may not be suitable for assessment of soils at sites where the critical drainage condition is a fully saturated soil (i.e., in areas with high groundwater tables). Our research on sand sites indicates that the test does correlate well with actual soak well performance, in unsaturated sand zones without impermeable zones.

GDR3.8 Guelph Permeameter Test (Constant Head, Quasi-Saturated Soil)

The Guelph permeameter test, conducted in accordance with the constant head test method outlined in Appendix G of AS1547, is a constant-head test in nominally "saturated" soil (in that the test is conducted until a "steady state" is reached). However, we note that this test can only be done above the groundwater table and as such, is in an unsaturated zone. Therefore, the hydraulic conductivity derived from this test should be used with caution and evaluated against other test methods (such as saturated, constant-head permeability testing from laboratory samples, or in situ saturated hydraulic conductivity testing below the groundwater table).

GDR4 GEOLOGICAL UNITS

GDR4.1 Limestone

The term 'Limestone' is used to describe a carbonate rock. Tamala Limestone is the common limestone in Western Australia, and typically comprises cemented quartz and shell fragments cemented together by calcium carbonate.

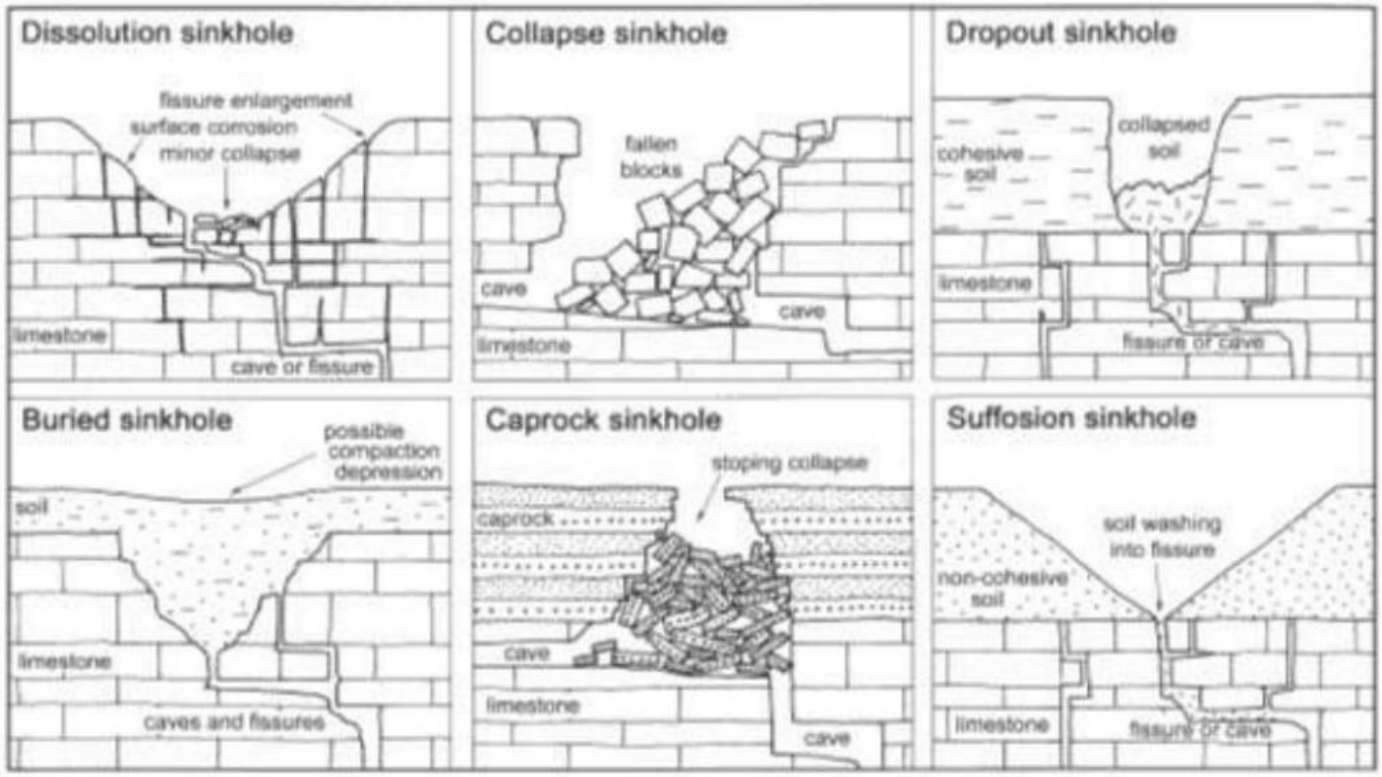
Limestone can vary significantly across short distances in composition, strength and cementation. Tamala limestones in Western Australia also have known possible geological features including:

- Caprock/calcrete – The formation of a very hard duricrust, usually due to sun exposure. Caprock may be up to 3 m thick, but typically around 1.5 m thick. Caprock is very difficult to excavate and may require the use of hydraulic rock breakers or rock saws to excavate.
- Solution features/tubes – Often initially formed due to the presence of Eucalypt and Jarrah roots during limestone formation, and often increasing in depth and size due to ongoing weathering. May be up to 500 mm in diameter. These are typically filled with very loose, unconsolidated sand.
- Pinnacles – Pinnacles are usually the limestone that is left around surrounding solution features. Often can comprise very hard limestone/caprock that can be substantially higher than surrounding areas. Pinnacles may have also been formed by surrounding erosion (i.e., wind/water).
- Karst/caves – Karst is caused by the dissolution of limestone, typically where there is interaction in low-lying areas with water and limestone. Karst manifests itself as loose near-surface sand with cavities (caves) in the underlying limestone. This can lead to sinkholes and collapse of overlying structures.

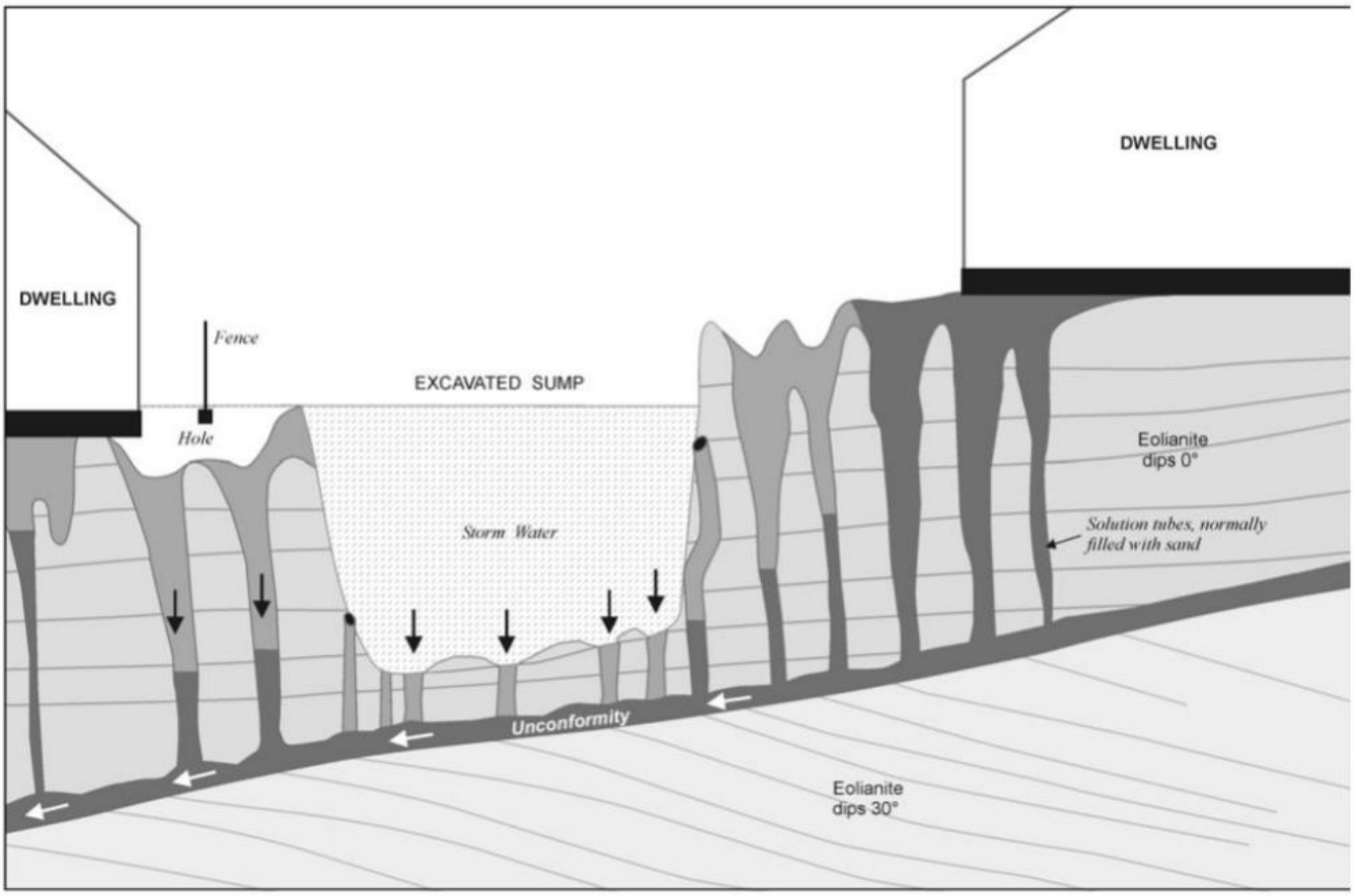
Inline images showing typical pinnacle/solution features and Karstic features follow. These are taken from:

- Gordon, R. (2003). "Coastal Limestones". Australian Geomechanics Vol.38 No. 4, The Engineering Geology of Perth.
- Waltham, A. & Fookes, P. (2003). "Engineering Classification of Karst Ground Conditions: Quarterly Journal of Engineering Geology and Hydrogeology, Vol 36.

Inline Image GDR 1 - Karstic Sinkhole Features from Waltham and Fookes (2003)



Inline Image GDR 2: Pinnacle/Solution Features from Gordon (2003)



GDR4.2 Pindan Sands and Collapsible Soils

In the Western Australian context, Pindan sands are sandy soils present predominantly across the Pilbara and Kimberley regions. Pindan sands are typically:

- Red brown in colour.
- Between 10% and 40% fines.
- Of aeolian origin, usually resulting in unconsolidated in situ conditions (nuclear density gauge testing often indicates these soils have in situ density ratios of 80%-85% of modified maximum dry density).
- Very strong when dry due to high soil suctions in the fine fraction, which create strong bonds between the sand particles.

As the grains are usually held in place by the dry fine fraction, this can lead to:

- very high settlements (i.e., “collapse”) as the grain-to-grain bonds are weakened as matric suction decreases on soaking; and
- loss of vertical and horizontal strength/stiffness as the grain-to-grain bonds weaken.

The risks associate with Pindan sands are usually quantified in terms of the collapse potential/magnitude of possible collapse events.

Other similar soils are present in Western Australia that may exhibit similar collapse potential and may not strictly be Pindan sands (i.e., have other grain-to-grain bonding mechanisms).

GDR5 SITE CLASSIFICATION

Site classification refers to the assessment of a site in reference to AS2870-2011, “Residential slabs and footings”. The method for assessing the site class is outlined in Section 2 of AS2870-2011, which indicates that this may be done by:

- assessing the characteristic surface movement, due to seasonal moisture changes in the soil profile;
- assessing the performance of existing foundations; or
- assessment of the soil profile (where there are deleterious inclusions, landfill, putrescible waste etc.).

The site classifications based on the expected characteristic surface movement are summarised in Table GDR 1.

Table GDR 1: Summary of Site Classifications (AS2870-2011)

Class	Description	Characteristic Surface Movement (y_s)
A	Most sand and rock site with little or no ground movement from moisture change	Not Defined (typically <5 mm)
S	Slightly reactive clay sites with only slight ground movement from moisture changes	0 – 20 mm
M	Moderately reactive clay sites, which may experience moderate ground movements from moisture change	20 – 40 mm
H1	Highly reactive sites, which may experience high ground movements from moisture change	40 – 60 mm
H2	Highly reactive sites, which may experience very high ground movements from moisture change	60 – 75 mm
E	Extremely reactive sites, which may experience extreme ground movements from moisture change	>75 mm
P	Sites which include soft soils, such as soft clay or silt or loose sands; landslip; mine subsidence; collapsing soils; soils subject to erosion; reactive sites subject to abnormal moisture conditions or sites which cannot be classified otherwise	Not Defined

The calculated characteristic surface movement is predominantly based on:

- the reactivity (i.e., the shrink-swell potential) of the soil (and any proposed fill);
- the design depth of soil suction change, which is the maximum expected depth of soil suction change due to seasonal soil moisture changes; and
- the depth to any bedrock and groundwater table.

The design depth of soil suction change for Western Australia has been refined using the Thornthwaite Moisture Index (TMI). We have carried out assessment using the depths as detailed in:

- Hu Y, Saraceni P, Cocks G, Zhou M (2016). "TMI assessment and climate zones in Western Australia". Australian Geomechanics Journal, Vol.51 No.3.
- Hu Y, Raj A, Cocks G, Verheyde F (2019). "Re-assessment of TMI based climate zones in metropolitan Perth, WA". ANZ Geomechanics Conference 2019, Perth Australia.

The design depth of soil suction change for Northern Territory is based on the research presented in:

- Jackson, S (2022), "Thornthwaite moisture index and climate zones in the Northern Territory", Australian Geomechanics Journal, Vol. 57 No. 3.

We highlight that AS2870-2011 does not make any reference to the fines content of a soil when assessing the site classification.

Where a site classification is provided in our reports, it is always predicated on the requirement that the recommended site preparation procedures are carried out.

We also highlight that the footing performance and shrink-swell movements of a site can be impacted by the planting or removal of trees. This should be considered where appropriate, and we refer to the CSIRO BTF 18-2011 "Foundation Maintenance and Footing Performance: A Homeowner's Guide" for further information.

AS 2870 is limited to single and double storey residential buildings with normal shallow footings with a maximum bearing pressure of 100 kPa and is not applicable where development types other than this are proposed.

GDR6 SITE PREPARATION

GDR6.1 General

The intent of the site preparation guidelines provided in the above report are to ensure that the earthworks can be constructed to meet specific requirements, i.e., minimum compaction, fill requirements, removal of unsuitable material etc. The site preparation guidelines are not exhaustive, and on-site conditions may dictate that other preparation measures may be required to meet geotechnical requirements.

GDR6.2 Site Preparation

Site preparation measures outlined in this section relate to bulk earthworks at the site in preparation for the construction of buildings, pavements and other structures.

The preparation of a site in accordance with outlined measures below or those presented in the report text does not imply that the site is suitable for heavily loaded plant or eccentric loads. This is especially applicable for working platforms for mobile plant including cranes, crawlers or the like. The site surface may still not be trafficable for mobile plant. Individual working platform assessments must be done if heavily loaded mobile plant are proposed.

GDR6.2.1 Common Measures

The common measures outlined below are to prepare standard sites in advance of proof compaction, bulk excavation and filling. These measures are applicable to most sites, however the applicability of these measures is stated in the main report.

Table GDR 2: Common Measures

Measure	Commentary
Demolish and remove structures and pavements	Demolish existing structures and pavements, including removal of all buried services and footings and dispose off-site.
Remove demolition debris and other deleterious material	Remove any demolition debris and other deleterious material from site including old footings, slabs, soak wells, buried services, paving and building rubble.
Strip uncontrolled fill (where present)	Strip any uncontrolled fill from the site (where encountered) and, if suitable, stockpile it for potential re-use as non-structural fill. If contaminated, dispose off-site. Refer to the report text for discussions on the presence of detected uncontrolled fill and its composition. It is important to realise that undetected uncontrolled fill may be present between test locations and the absence of its identification in our report does not preclude its presence. If uncontrolled fill is detected during site works, please contact us for inspection and to provide recommendations.
Remove trees	All tree roots must be removed, this may result in significant excavation in places. Where tree roots and stumps are removed, the disturbed soil must be over-excavated and replaced with controlled, compacted fill. Backfilling of over-excavations is discussed in the following sections .
Strip and stockpile topsoil.	Strip and stockpile topsoil from unpaved areas of the site for potential re-use in non-structural applications. The topsoil strip is only necessary to remove roots and we recommend a topsoil strip as necessary to remove all roots from the soil.
Carry out bulk excavation	Excavate to the required level. Stockpile suitable excavated material for potential re-use as fill (the re-use of spoil as fill , if appropriate, is discussed in the report text) and remove unsuitable or excess material off-site.
Batter edges of excavation	Excavations should be battered to a temporary slope as given in the report text where applicable and not in close proximity to adjacent structures etc. If required, construct temporary/permanent retaining walls where batters cannot be accommodated.

By following these measures, the site should have been prepared to a point where topsoil and vegetation has been removed to expose either natural soil or controlled fill. Over-excavation to the required levels may then be required for some projects. Once complete, the site is now ready for proof compaction and filling.

GDR6.2.2 Sand Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by sand.
- No collapsible soils present.
- No deep loose sand.
- Compaction of a loose upper horizon to maximum 1 m depth.
- No shallow groundwater (<1 m deep).
- No limestone or other rock present at shallow depth.
- “Common Measures” outlined in Section GDR6.2.1 have been completed (as required).

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings, pavements and any other settlement-sensitive infrastructure is proposed.

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 3: Sand Site Measures

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must **not** assume that the use of the PSP is appropriate.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.

In following this method, shallow/surficial loose sand will be compacted, and the site will be filled (where required) in preparation for supporting footings, ground slabs, pavements and the like.

GDR6.2.3 Deep Loose Sand Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by sand.
- Collapsible soils or deep loose sand present (if applicable, this is discussed in the report).
- Over-excavation, compaction and replacement of loose sand required.
- No shallow groundwater (<1 m deep).
- No limestone or other rock present at shallow depth.
- "Common Measures" outlined in Section GDR6.2.1 have been completed.

The greatest depth of compaction that can be achieved with standard compaction equipment (vibrating roller, etc) is around 1 m (for sands). As such, it is necessary to cut down the site level to a point where this compaction can be done to the lowest level needed to be improved.

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings and any other settlement-sensitive infrastructure are proposed. Not typically required for pavement subgrades, however, this is discussed in the report if required.

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 4: Deep Loose Sand Site Measures

Measure	Commentary
Over-excavate to the required depth.	Over-excavate sand soil to the depth stated in the report and, if appropriate (discussed in report) retain it for re-use as fill. Over-excavation is likely to be done in stages depending on the site area available for earthworks. Excavations must be battered to a temporary slope as given in the report text where applicable and not in close proximity to adjacent structures etc. If required, construct temporary/permanent retaining walls where batters cannot be accommodated.
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must **not** assume that the use of the PSP is appropriate.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.

Measure	Commentary
Carry out bulk filling	Where fill is required to build up levels (including restoration of the site surface level to the original level), use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction as specified in Section GDR7.1.

In following this method, deep, loose sand will be compacted to a sufficient depth to reduce settlement impacts and the site will be filled (where required) in preparation for supporting footings, ground slabs, pavements and the like.

GDR6.2.4 Clayey Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by cohesive soils (typically >12% fines, i.e., clayey enough for the fines proportion of the soil to dominate behaviour).
- No collapsible soils present.
- No deep soft soils or organic soils.
- Over consolidated clayey soils present which will not be subject to significant primary or secondary consolidation (settlements expected to be within the limit of typical seasonal movements occasioned by moisture content changes, which would be captured in assignment of an AS2870 site classification).
- No shallow groundwater (<1 m deep)
- No rock present at shallow depth.
- "Common Measures" outlined in Section GDR6.2.1 have been completed.

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings, pavement subgrades and any other settlement-sensitive infrastructure is proposed.

Unless specified otherwise in the report, the **Approved Fill** to be used is **Clay** as outlined in Section GDR8.

Table GDR 5: Clay Site Measures

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed clayey ground to achieve the density specified in Section GDR7.1 ("fine grained soils") to a depth of at least 300 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("fine grained soils") has been achieved to a depth of at least 300 mm. The use of a penetrometer for compaction control of cohesive soils is not an appropriate substitute for in situ NDG testing.
Treat areas of loose or unsuitable material	Any areas of soft clayey soils or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill**. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where excavations are done into clayey soils (e.g. to treat soft zones, remove root balls and the like), they must not be backfilled filled with sand fill (even where a sand topping layer is proposed). Where fill is required (including backfilling of excavations to remove trees), only use **Approved Fill**, moisture conditioned, placed and compacted in layers of no greater than 300 mm loose thickness. Test moisture and compaction as specified in Section GDR7.1.
Grade completed clayey surface	Surface water control is essential for clayey sites. This also applies to control of infiltrated water into sand topping layers or the like. The surface of clayey ground must be graded at a minimum of 1% crossfall to drain. This is a general recommendation, and an appropriate civil design must be done to account for surface and subsoil drainage.
Install sand topping layer	Where a sand topping layer is proposed, this should be done as outlined in Section GDR6.2.5.

These measures do not take into account the objectives of the civil design for the site, particularly with regard to surface water drainage and groundwater control (including clay grading, subsoil drainage, thickness and composition of a sand topping layer and the like). This must be taken into account by the civil designer. General commentary on drainage control measures is presented in Section GDR14.

GDR6.2.5 Sand Topping Layer

Where a sand topping layer is required:

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 6: Sand Topping Layer Measures

Measure	Commentary
Prepare Substrate	Prepare the clayey or other substrate as separately outlined prior to installing the topping layer.
Build up sand topping layer	Build up level to the required level with **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness to achieve the density specified in Section GDR7.1.

For the purposes of achieving the allowable bearing pressures and site classification discussed in the report, it is not necessary to have the bases of slabs and footings in the sand topping layer, i.e. if required, they may extend through the sand topping layer into clayey soil below.

GDR6.2.6 Limestone Sites

The preparation measures outlined below are provided for sites underlain by limestone (refer to Section GDR4.1), meeting the following criteria:

- Site underlain by sand overlying limestone.
- Compaction of a loose upper horizon to maximum 1 m depth, with localised deeper treatments between pinnacles if required.
- No shallow groundwater (<1 m deep)
- “Common Measures” outlined in Section GDR6.2.1 have been completed.

The site preparation measures outlined below are aimed at improvement of the site in preparation for construction of the structures including on-ground slabs, shallow footings, retaining walls and pavements.

Unless specified otherwise in the report, the **Approved Fill** may comprise one of the following as specified in Section GDR8 (the specific selection is subject to the requirements of the civil designer):

- **Permeable Sand** where permeable fill is required
- **General Sand** where permeable fill is not required
- **Mixed Sand/Limestone Fill** where permeable fill is not required

The re-use of any limestone for fill is subject to the requirements of the civil design and discussions in the report text. The use of **Mixed Sand/Limestone Fill** is discussed in Section GDR6.2.7. The preparation measures outlined in Table GDR 7 assume sand fill.

Table GDR 7: Standard Limestone Site Measures (Bulk Earthworks)

Measure	Commentary
Treat zones of loose sand	Where deep loose sand is present (particularly, but not exclusively, between limestone pinnacles), over-excavate to the depth as noted in the report . Sand should be retained for re-use as fill if recommended in the report. Limestone debris and pinnacles should be separated and only re-used if recommended in the report.
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm. Proof compaction of intact limestone is not required.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must not assume that the use of the PSP is appropriate. If refusal to the test method is encountered within the target test depth on limestone and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact limestone is not required.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in limestone and specific advice may apply to the installation of soakwells in limestone areas. If not discussed in our report, please contact us for further advice.

Without further consultation with the structural designer, footings for any one structure must not be founded on a mixture of sand and intact limestone. This is due to potential differential settlements between limestone zones (relatively stiff) and soil zones (relatively soft). Where this is the case, the measures outlined in Table GDR 8 must be followed, only with guidance from the structural designer and Galt.

Table GDR 8: Standard Limestone Site Measures (Footing and Slab Preparation)

Measure	Commentary
Excavate and compact for slabs, subgrades, pad or strip footings	Excavate for pad and strip footings. Where a mix of soil and limestone is present below any one structure, one of the following must be done (to be agreed with structural designer and us): ▪ **Over-excavate limestone and replace with compacted soil:** Typically where the foundation largely comprises soil and a relatively small amount of limestone is present. Where footings and slabs are founded partly on soil and partly on limestone, over-excavate the limestone by at least 300 mm below the base of footing or slab and replace the excavated material with compacted **Approved Fill**. ▪ **Remove soil from over limestone and replace with concrete**: Typically where the foundation largely comprises limestone and a relatively small amount of soil is present. Localised zones of sand and mixed sand/limestone rubble must be removed and replaced with lean-mix concrete, e.g. 10 MPa blinding concrete. ▪ **Design the structure to accommodate differential foundation movements:** For example, include construction joints or use a more heavily reinforced footing (subject to the structural designer's requirements).
Test compaction of footing bases, slabs or subgrades.	Compact the exposed bases to achieve the density specified in Section GDR7.1 ("sand"), to a depth of at least 900 mm, or to the depth where limestone is intersected. If refusal to the test method is encountered within the target test depth on limestone and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact limestone is not required. Remove, replace and compact as required with approved fill any zone not achieving the density specified in Section GDR7.1 ("sand")

GDR6.2.7 Mixed Sand/Limestone Filling

On sites where deemed appropriate by the Civil Design, **Approved Fill** may comprise limestone rubble fill (**Mixed Sand/Limestone**, as specified in Section GDR8).

The preparation measures outlined below are provided for sites meeting the following criteria:

- No shallow groundwater (<1 m deep)
- "Common Measures" outlined in Section GDR6.2.1 have been completed.
- Substrate preparation for the relevant site type has been done in preparation for further filling (as relevant for sand, limestone or clayey sites discussed in the preceding sections).

The site preparation measures outlined below are required prior to construction of structures including on-ground slabs, shallow footings, retaining walls and pavements.

Table GDR 9: Mixed Sand/Limestone Fill Measures

Measure	Commentary
Develop a method specification for the filling	A performance specification is not appropriate for compaction control in **Mixed Sand/Limestone** fill, due to oversize limestone particles and the limitations of test methods. Therefore, a method specification is required. Development of a method specification is discussed in Section GDR7.5. A tentative method specification for **Mixed Sand/Limestone** Fill preparation is also provided.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in accordance with the developed method specification.
Maintain Construction Records	As performance testing cannot be done, quality assurance records are limited. Therefore, the parameters mentioned in Section GDR7.5.1 must be kept in a comprehensive record of the earthworks done to the developed method specification. The use of the PSP is possible only to check for loose sand zones between limestone particles. High PSP blow counts, where limestone particles are intersected, are meaningless in terms of assessing density of the prepared fill. The primary means of validation of the earthworks is conformance with the developed method specification.
Install sand topping layer	Where a sand topping layer is proposed, this should be done as outlined in Section GDR6.2.5.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in limestone fill and specific advice may apply to the installation of soakwells in limestone fill areas. If not discussed in our report, please contact us for further advice.

GDR6.2.8 Rock Sites

The preparation measures outlined below are provided for sites underlain by rock, meeting the following criteria:

- Site underlain by shallow soil overlying rock, or outcropping rock.
- No shallow groundwater or surface water (>1 m deep).
- Common site preparation measures outlined in GDR6.2.1 have been completed. In addition to these measures, any surface cobbles/boulders will need to be removed from the site.

The site preparation measures outlined below are aimed at improvement of the site for construction of structures including on-ground slabs, shallow footings, retaining walls and pavements.

Approved Fill will be as specified in this report. The re-use of any rock for fill is subject to the civil design requirements and any other requirements noted in the report text. The preparation measures outlined below assume **Approved Fill**.

Table GDR 10: Standard Rock Site Measures (Bulk Earthworks)

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed ground (soil above rock) to achieve the density specified in Section GDR7.1 to a depth of at least 300 mm. Proof compaction of rock is not required.
Test proof compaction	Check that the density specified in Section GDR7.1 has been achieved to a depth of at least 300 mm. in situ NDG testing is suitable to assess compaction. Compaction control of intact rock is not required.
Treat areas of loose or unsuitable material	Any areas of loose / soft or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as **Approved Fill.**
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.
Grade surface	Surface water control may be required for lower permeability soils/rock, or at an interface where high permeability fill is placed over relatively impermeable soils/ rock. The surface of any impermeable ground / rock must be graded at a minimum of 1% crossfall to drain. This is a general recommendation, and an appropriate civil design must be done to account for surface and subsoil drainage.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in rock and specific advice may apply to the installation of soakwells in these areas. If not discussed in our report, please contact us for further advice.

Without further consultation with the structural designer, footings for any one structure must not be founded on a mixture of sand and rock. This is due to potential differential settlements between rock zones (relatively hard) and soil zones (relatively soft). Where this is the case, the measures outlined below must be followed, only with guidance from the structural designer and Galt.

Table GDR 11: Standard Rock Site Measures (Footing and Slab Preparation)

Measure	Commentary
Excavate and compact for slabs, subgrades, pad or strip footings	Excavate for pad and strip footings. Where a mix of soil and rock is present below any one structure, one of the following must be done (to be agreed with structural designer and us): ▪ **Over-excavate rock and replace with compacted soil:** Typically where the foundation largely comprises soil and a relatively small amount of rock is present. Where footings and slabs are founded partly on soil and partly on rock, over-excavate the rock by at least 300 mm below the base of footing or slab and replace the excavated material with compacted **Approved Fill**. ▪ **Remove soil from over rock and replace with concrete**: Typically where the foundation largely comprises rock and a relatively small amount of soil is present. Localised zones of sand and mixed sand/rock rubble must be removed and replaced with lean-mix concrete (e.g. 10 MPa blinding concrete) or cement stabilised sand (minimum UCS=2 MPa at 7 days). ▪ **Design the structure to accommodate differential foundation movements:** For example, include construction joints or use a more heavily reinforced footing (subject to the structural designer's requirements).

Measure	Commentary
Test compaction of footing bases, slabs or subgrades.	Compact the exposed bases to achieve the density specified in Section GDR7.1, to a depth of at least 300 mm, or to the depth where rock is intersected. If refusal to the test method is encountered within the target test depth on rock and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact rock is not required. Remove, replace and compact as required with **Approved Fill** any zone not achieving the density specified in Section GDR7.1.

GDR6.3 Guidance on Sites with Cohesive Soils

Cohesive soils (most commonly, "clayey" soils) require careful moisture conditioning to facilitate compaction. We recommend that the moisture content of the material is between optimum moisture content (OMC) and 2% wet of OMC at the time of placement and compaction. We note that compaction to the densities specified in Section GDR7.1 can be difficult to achieve for clayey material when not appropriately moisture conditioned.

Vibratory padfoot rollers are preferred for compacting cohesive fill to promote proper kneading and interlocking of subsequent layers.

Clayey soils will drain poorly when inundated following rain events and result in saturated conditions that may inhibit compaction of the soil. In general, it is preferable to avoid trying to re-work clayey sites within several days of any substantial rainfall.

We recommend that the surfaces of clayey sites are sealed by compaction (i.e., final compaction should be with a smooth drum roller) and graded to drain (to avoid low spots where water can pond and cause softening) prior to any rain events. Stripping back of softened materials to expose competent natural or compacted clayey soil is required before continuing earthworks.

If difficulties are experienced during compaction due to water, further advice should be sought from a geotechnical engineer.

GDR6.4 Preparation and Testing of Shallow Footings

GDR6.4.1 General

It is preferable to dig all footing excavations carefully with a flat-edged bucket to minimise the disturbance of underlying foundation soil.

Where the footing base is disturbed, or compaction is required, this must be done using appropriate compaction equipment particular to the task (as evaluated by the contractor) – typically a 'jumping jack', self-propelled plate compactor or an excavator-mounted plate compactor.

All footing bases must be tested to achieve the density requirements of Section GDR7.1 unless otherwise specified. PSP testing of sand foundations is only applicable where the use of the PSP is specifically approved in the report, otherwise all testing is to be done using the NDG.

Sand Topping Layer – Where a sand topping layer is present over a different soil (i.e., clay, limestone etc.), testing of the density of the sand topping layer is only necessary within the thickness of the sand topping layer. Testing does not need to extend into the underlying compacted substrate, which is separately subjected to compaction control.

Mixed Sand/Limestone Fill – Where mixed sand/limestone fill has been installed to a method specification, no compaction control testing is required, however re-compaction of the base must be done as noted above.

In situ limestone – where in situ limestone (weakly or more cemented limestone, with no sand zones or voids) is present at a footing base and no over-excavation has been done (refer to Section GDR6.2.6 regarding over-excavation of footing bases in limestone), then no compaction control testing is required.

Where loose or soft material is encountered, one of the following actions must be taken:

- Over-excavate the loose / soft layer to expose a suitable layer that does meet the required density (Section GDR7.1) and either:
- Place and compact Approved Fill (relevant to the appropriate preparation measures outlined in Section GDR6.2) to achieve the required density (Section GDR7.1); or

- Pouring blinding concrete (f'c>15 MPa at 28 days) from the competent layer up to the underside of the footing.

All foundations must be assessed by a competent person prior to blinding.

GDR6.4.2 Footings in Clay

Where footings are excavated into natural clay and not subject to filling, density testing (e.g., NDG testing) is not required at the base of the footings. This will be highlighted in the report text if this is relevant to the site conditions. Footing bases must be dug with a flat-edged excavator bucket and the underlying soil not disturbed by trafficking or over-excavation.

In these instances, only testing with a DCP is required in accordance with AS1289.6.3.2 at the footing base to achieve the required blow counts indicated in the report text, to a minimum depth of 0.6 m below the base of the footing, or other depth as indicated in the report text. Where the minimum blow count specified cannot be met, the following options are possible to prepare the footing base:

- Scarify, moisture condition and re-compact all zones not achieving the minimum blow counts. Re-test with a DCP to confirm that any soft zones are remediated; or
- Over-excavate and replace all zones not achieving the minimum blow counts with a suitable compacted low permeability fill (e.g., crushed limestone, clayey fill or other approved fill). This fill must be compacted to the appropriate level as specified in GDR7; or
- Over-excavate and replace all zones not achieving the minimum blow counts with blinding concrete (min. 10 MPa at 28 days) or cement-stabilised sand (min. 2 MPa at 7 days). This is typically appropriate where only the upper zones below the footing base are soft.

Measures must be taken to minimise moisture changes in clayey foundation soils at the base of footing excavations. Concrete footings are to be poured soon after excavation to minimise the potential for excessive moisture change. The use of a concrete blinding layer following foundation preparation should be considered.

GDR7 COMPACTION AND MOISTURE CONDITIONING

GDR7.1 Requirements

Any soil within the significant founding zone of structures (buildings, slabs, pavements, etc.) must be suitably moisture conditioned and compacted. These soils must be compacted to the requirements as outlined below.

Table GDR 12: Compaction and Moisture Requirements

Soil Description	Soil Particle Limits	Moisture Requirement	Density Requirement (DDR)	Possible QA/QC Test Methods
Sand	<5% fines <5% gravel *Maximum particle size 9.5 mm*	MOMC ±2%	95% MMDD	PSP NDG
Gravel	<5% fines >50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG
Clayey/Silty Gravel	5-35% fines >50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG
Sand with fines or gravel	5-35% fines; and/or 5-50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG Method Specification
Fine grained soils (Clayey or Silty)	>35% fines *Maximum particle size 19.0 mm*	MOMC ±2%; or SOMC ±2%[2]	92% MMDD; or 95% SMDD	NDG Method Specification
Oversize/rubbly soil	Any soils with particles >19.0 mm	MOMC ±2%	95% MMDD (Or equivalent to)	Method Specification Detailed Assessment Based on Specific Material

NOTES: ***1.*** *DDR – Dry Density Ratio*

MMDD – Modified maximum dry density (AS1289.5.2.1)
MOMC – Modified optimum moisture content (AS1289.5.2.1)
SMDD – Standard maximum dry density (AS1289.5.1.1)
SOMC – Standard optimum moisture content (AS1289.5.1.1)
PSP – Perth Sand Penetrometer
NDG – Nuclear Density Gauge

2. *Preferably OMC to OMC +2%, for ease of compaction and producing a homogenous fill*
3. *Test frequencies are specified in Section GDR7.6.*

The soil groups and definitions outlined above are generally based on AS1726-2017. Test methods are discussed in subsequent sections.

GDR7.2 Construction Recommendations

Over-excavation and replacement of loose material must be done where the minimum DDR cannot be achieved.

Fill must be placed in horizontal layers of not greater than 300 mm loose thickness. Each layer must be compacted by suitable compaction equipment, and carefully controlled to ensure even compaction over the full area and depth of each layer.

Care will need to be taken if compacting in the vicinity of existing structures, such as the adjacent properties. This is particularly important if vibratory compaction is being carried out.

- Tynan (1973), "Ground Vibration and Damage Effects on Buildings", Australia Road Research Board, Special Report No. 11.

Tynan (1973) provides guidance on the selection of compaction equipment for use adjacent to structures. The distance of influence (i.e., the definition of "vicinity") will vary depending on the size of compaction plant proposed for use. Where there is concern regarding the impact on nearby structures, a dilapidation study should be done.

Care must be taken when compaction is undertaken when the site surface is within 1 m of the groundwater level, as compaction (particularly with vibration) can draw the water up to the surface. In this instance, consideration should be given to:

- Static rolling only;
- Using a pioneering layer (if possible); or
- Dewatering to keep the water at least 1 m below the surface being compacted.

GDR7.3 Nuclear Density Gauge

Where applicable, a nuclear density gauge (NDG) must be used in accordance with AS1289.5.8.1. NDG tests must be done to a depth of 300 mm or as otherwise indicated in the text of the attached report.

GDR7.4 Perth Sand Penetrometer

Where clean sand is used (<5% fines and <5% gravel), a Perth sand penetrometer (PSP) may be used for compaction control in accordance with AS1289.6.3.3. Refer to the report for recommended blow counts correlating to the specified density.

Where the fines or gravel contents of a sand soil exceed the maximum contents noted above, a PSP must not be used exclusively for compaction control. As a minimum, ongoing confirmation testing with an NDG is required. If not specified in our report, please contact us for further advice regarding test frequencies.

If difficulties are experienced recording the required blow counts, a site-specific PSP correlation should be carried out to determine the PSP blow count correlating to a DDR of 95% MMDD. In addition, a particle size distribution (PSD) test should be carried out to verify that the use of a PSP is suitable for the sands being tested. A site-specific PSP correlation must:

- be done on site;
- use the nuclear density gauge (NDG) to determine density at a minimum of 5 points with varying density to a depth of 300 mm below surface;
- include at least 1 point where the dry density ratio is in excess of 95% MMDD;
- use a calibrated PSP to determine the PSP blow count from 150 mm to 450 mm at each NDG test point; and
- be plotted on a chart of PSP blow count vs DDR.

Only where specifically stated as applicable in the report and where the use of the PSP is relevant as noted above, the following values may be taken as deemed to conform to a dry density ratio of 95% MMDD for the relevant sand type.

Table GDR 13: Deemed-to-comply Values for PSP Results in Perth Sands

Depth Interval (mm)	Bassendean	Tamala	Calcareous
0-150	SET	SET	SET
150-450	7	8	12
450-750	9	10	14
750-1050	11	12	16

NOTES:
1. *Blows per 300 mm interval*
2. *Bassendean Sand is typically a white - grey, low-fines quartz sand found on the eastern part of the Perth coastal plain*
3. *Tamala / Spearwood sand is typically yellow or orange, low-fines quartz sand found on the western part of the Perth coastal plain*
4. *Calcareous sands are typically white or yellow, calcareous sand found in low-lying areas on the western fringe of the Perth coastal plain*
5. *Values derived from Galt experience on PSP correlations done on sites across Perth for the 150-450 mm interval.*

GDR7.5 Method Specifications

GDR7.5.1 General

Where proposed, a method specification should be developed by a geotechnical engineer or similarly qualified person and ratified by us (including a site visit by us). The method specification should be confirmed by the construction of a trial pad or trial area and the compaction methodology should be checked against either:

- density, as assessed using a nuclear density gauge; or
- settlement, as assessed using a dGPS.

Specific advice should be requested for the development of a method specification, taking into consideration the material being compacted.

Method specification compliance should be maintained for all areas on a minimum 20 m grid, with the compliance to include:

- Roller used (weight, style, vibration);
- Water application rate (per lift);
- Layer thickness placed; and
- Number of passes with roller.

GDR7.5.2 Indicative Method Specification – Sand/Limestone Rubble Mix

Where mixed sand/limestone is used as structural fill, a performance specification is not appropriate due to the inaccuracies of standard test methods (NDG/PSP etc.) in this type of material. A method specification can be used instead. The following indicative method specification is provided for evaluation and trial but must be trialled and ratified by us prior to widespread employment on site. The following would be typically adopted:

- Maximum particle size: 250 mm
- Maximum loose layer thickness: 350 mm
- Minimum watering rate: 10 L/m^2/100 mm thickness of loose material (e.g. 35 L/m^2 for a 350 mm thick layer)
- Minimum 8 passes with a vibrating padfoot roller, minimum static weight 10 tonnes.
- The compacted fill must comprise closely packed particles without any significant voids between the larger particles.

GDR7.6 Testing Frequency

After compaction, verify that the required density has been achieved by testing at the base of excavation and through the full depth of any fill, and to a minimum depth of:

- 900 mm where a PSP is used; or
- 300 mm where a NDG is used.

The frequency of testing (when a method specification is not used) should be as follows:

Table GDR 14: Compaction Testing Frequency Requirements

Area	Minimum Testing Frequency	Minimum Tests Per Lot
Proof Compacted Area	1 test per 1,000 m^2 (30 m grid)	2
Structural Fill Outside of Building and Pavement Footprints	1 test per 500 m^3 2 tests per layer *Whichever is greater*	2
Structural Fill Within Building and Pavement Footprints	1 test per 500 m^3 4 tests per layer *Whichever is greater*	4
Spread/Pad Footings	1 test per 9 m^2 per footing	1
Strip Footings/Retaining Wall Foundations	Minimum 2 tests At 5 m centres *Whichever is greater*	2
On-ground slabs, pavements and rafts	Minimum 2 tests At 10 m centres 1 test per 100 m^2 *Whichever is greater*	2

NOTES: ***1.*** *A 'lot' is defined in the context of this section as a section of earthworks that is undertaken in one operation where the equipment, personnel, materials and methodology are consistent throughout the entire process. This would typically be limited to operations done in one day, but this is not mandatory.*

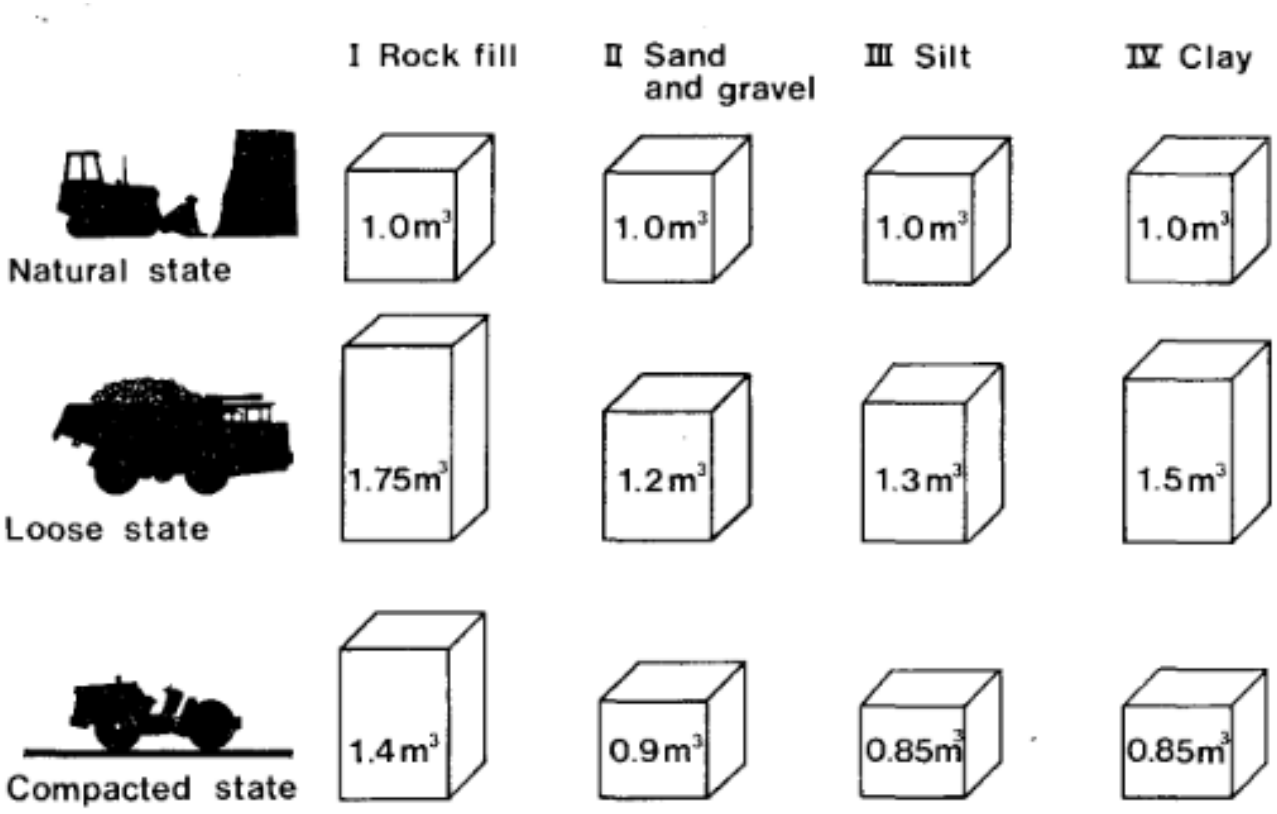
2. *There will frequently be multiple 'lots' in an earthworks process, therefore the number of tests must be adjusted according to the minimum number per lot in this table (where this is more than the frequency specified in 'testing requirements').*

GDR7.7 Bulking and Compaction Factors

All soils will "bulk" when excavated to stockpile, and "compact" when placed from stockpile to earthworks layers. Published bulk and compaction factors are presented below for conventional materials, taken from:

- Forssblad, L (1981), "Vibratory Soil and Rock Fill Compaction", Dynapac Maskin AB

Inline Image GDR 3: Volumes of Different Types of Fill Materials in Natural, Loose and Compacted State



These values are indicative only and will vary according to site specific conditions. The values provided here must not be used for commercial volume estimates or settling disputes regarding volumes.

GDR8 APPROVED FILL AND CONFORMANCE TESTING

Imported fill must comply with the material requirements as stated in AS 3798-2007, “Guidelines on Earthworks for Commercial and Residential Developments”.

Where doubt exists, a geotechnical engineer must be engaged to inspect and approve the use of potential fill materials.

The following table presents recommended material parameters for standard fill types. This does not take account of availability of materials either on site or in the local area. Refer to the report text for specific advice on fill at the subject site.

Table GDR 15: Standard Fill Recommendations

Soil Description	Application	Soil Particle Limits (%)[3]				k_{min}[1] (m/d)	OC[2] (%)	Atterberg Limits		CBR[6] (%)	Test Method[4]
		Fines	Sand	Gravel	Max.			LL (%)	PI (%)		
Permeable Sand	Permeable bulk fill Retaining wall backfill Permeable select fill	≤5	≥90	≤5	9.5	5	≤2	NP	NP	≥12	PSP NDG
General Sand	Bulk fill Select fill (permeability not required)	≤5	≥90	≤5	9.5	N/A	≤2	NP	NP	≥12	PSP NDG
Silty Sand	Bulk fill Select fill	≤35	≥55	≤10	9.5	N/A	≤2	<35	<11	≥12	NDG
Clayey Sand	Bulk fill Select fill	≤35	≥55	≤10	9.5	N/A	≤2	<40	N/A	≥12	NDG
Granular Fill	Bulk Fill	≤30[10]	Varies[10]	Varies[10]	37.5	N/A	≤2	<40	N/A	N/A	NDG
Mixed Sand/Limestone	Bulk fill (permeability not required)	≤5	≥20	≤80	250	N/A	≤2	NP	NP	N/A	NDG Method
Blue Metal Gravel[8]	Retaining wall backfill Drainage trench backfill	≤3	≤5	≥90	37.5	5	≤1	NP	NP	N/A	NDG
Clay[7]	Reinstatement of localised excavations in clay Bulk fill	≥12	Varies	≤30	19	N/A	≤2	Varies			NDG

NOTES:

1. *k_{min} – minimum saturated hydraulic conductivity (AS1289.6.7.1, remoulded to minimum DDR 100% MMDD).*
2. *OC – organic content (Walkley-Black method recommended, AS1289.4.1.1 – not loss on ignition methods)*
3. *% by mass.*
4. *Test method indicates possible compaction control methods for this material.*
   PSP – Perth sand penetrometer (AS1289.6.3.3). Where a PSP is used, a site-specific correlation must be done unless otherwise noted in the report.
   NDG – Nuclear density gauge (AS1289.5.8.1)
   Method – method specification
5. *Atterberg Limits: LL – liquid limit PI – plasticity index NP – non-plastic*
6. *CBR: California bearing ratio (for sand - remoulded to DDR 95% MMDD @ OMC, 4.5 kg surcharge). CBR values may be changed depending on the design pavement requirements.*
7. *"Clay" fill type is included for broad reference only and to illustrate preferred applications, particle size limits and recommended test method. Specific discussion on the use of clayey fills is included in the report text if applicable. Atterberg limit and CBR testing of clayey fills may be required and advice must be sought from us if not stated in the report.*
8. *"Blue metal" gravel refers to single sized, crushed, washed igneous rock gravel used for drainage purposes.*
9. *In the absence of specific test frequencies by the civil designer, the testing shown in Table GDR 16 must be done (highlights in Table GDR 15 show where the test is required).*
10. *Sand and gravel must be reasonably graded to control the risk of soil ingress from surrounding layers. Where the fines content is high (e.g. above ~15%), the gravel content should proportionally increase to meet the requirements for "granular fill". We recommend a minimum gravel content of 30% where the fines content is above 15%.*

Table GDR 16: Conformance Testing Frequency Requirements

Parameter	Frequency (m^3)	Minimum Tests per Source	AS1289 Reference
Particle size distribution	5,000	1	3.6.1
Hydraulic conductivity (permeability)	10,000	2	6.7.1
Organic content	5,000	1	4.1.1
Atterberg limits	5,000	1	3.1.1, 3.2.1, 3.3.1
CBR	10,000	2	6.1.1

NOTES: ***1.*** *Frequency is for the nominal number of cubic metres of compacted fill.*

2. *Unless stated otherwise in the report text, the conformance testing must also be carried out on site-derived materials to confirm suitability.*

GDR9 SHALLOW FOUNDATIONS

GDR9.1 Design

Footings and slabs may be designed in accordance with the assigned site classification in accordance with AS2870-2011. We note that AS2870-2011 is limited to single and double storey residential and commercial developments and may not be strictly applicable.

Where the report provides tables for shallow footing design, custom footings may be designed by the structural engineer using the data provided therein.

GDR9.2 Interpretation of Provided Values

BEARING PRESSURES

All settlement and bearing pressures estimates are provided on the assumption that the site preparation requirements outlined in the report are completed below all structures plus a minimum distance of 1 m beyond the outside edge of any footing or slab. It is essential that the soil below all foundations is appropriately prepared as outlined and meets the relevant compaction requirements.

Allowable bearing pressures for footings of intermediate plan dimensions (to any tabulated) can be interpolated. Footings that have a plan dimension either smaller or larger than those presented in the report will need to be considered individually along with other embedment depths.

Allowable bearing pressures, where provided, are considered to be the upper limit for shallow footings to limit total and differential settlements. Footings carrying eccentric loading, such as below retaining walls, must be assessed separately.

SETTLEMENTS

The reporting of settlements to any precision level is not intended to imply a high accuracy of settlement prediction. Settlements as reported should be considered ‘order of magnitude’.

Estimated settlements represent vertical downwards movement due to loading and do not take into account potential additional movement associated with the characteristic surface movement of the soil (which must be taken in addition to these settlements from loading, refer Section GDR5). The site classification is discussed in the report.

The actual settlement of any proposed structure will depend upon a number of factors including the applied pressures, footing size and base preparation. The estimated settlement(s) provided in this report are for the working bearing pressures as indicated. Differential settlements are likely between footings of similar sizes, loads and elevations (as stated in the report text). A proportion of the settlement is expected to occur during construction (i.e., during initial loading.

The provided settlement estimates (unless otherwise stated) do not include interaction effects from footings founded near other footings (i.e., groups of footings). Interaction effects will need to be considered if the spacing between adjacent footings is smaller than the dimension of the footings (i.e., the centre-to-centre spacing between footings is less than twice the width of the footing). This could act to double provided settlements, dependent on the footing configuration. Where an assessment of footing groups is required, a more detailed numerical or finite-element modelling analysis would need to be undertaken.

CREEP AND CONSOLIDATION

Creep settlement is an irreversible component of long-term soil settlement caused by sustained vertical stress. Consolidation is a time-dependent irreversible compression in a soil layer caused by a reduction in pore pressure between soil particles. Both creep and consolidation can occur in natural materials as a result of earthworks or the placement of loads on to soil layers. The settlements as presented for short-term loading do not include consideration for creep and consolidation settlements unless specifically stated.

GDR9.3 Raft Foundations

Where moduli of subgrade reactions are provided for the design of raft foundations, we highlight that these are an estimate of the elastic reaction of the soil. The values are provided based on an expected load and loaded area size. Soils are typically non-linear in their response and will have different stiffnesses at different levels of strain and load repetitions. This is due to the physical interaction of soil particles under different levels of stress.

The possibility of a non-linear response must be considered by the designer of any raft foundation.

GDR10 PILED FOUNDATIONS

Piles must be designed and tested in accordance with AS2159-2009, “Piling – Design and Installation”. We use the following interpretation/design methods to provide pile design parameters:

- Franki Africa Pty Ltd (2008) “A Guide to Practical Geotechnical Engineering in South Africa”. 4th ed.
- AFNOR (2012) “NF P 94-262 – Justification des ouvrages géo-techniques, Normes d’application nationale de l’Eurocode 7”, Afnor, Paris, July 2012.
- Lehane, B. (2017) “CPT-Based Design of Foundations”. E.H Davis Memorial Lecture, Australian Geomechanics Vol 54. No. 4.
- Lehane, B. et al. (2020) “A New ‘Unified’ CPT-Based Axial Pile Capacity Design for Drivel Piles in Sand”. Proceedings of the Fourth International Symposium on Frontiers of Offshore Geotechnics.
- Doan., Lehane, B. (2021) “CPT-Based Design Method for Axial Capacities of Drilled Shafts and Cast-in-place Piles.” American Society of Civil Engineers (ASCE), Journal of Geotechnical and Geoenvironmental Engineering.

The pile designer must:

- consider the possible variation in subsurface conditions at each pile location;
- consider any pile group effects based on the final piling configuration;
- assume that the unit shaft resistance in tension is less than 80% of the unit shaft resistance in compression to account for Poisson’s effect in sand;
- ignore pile resistance in the surficial 0.5 m or 1 x pile diameter (whichever is greater), if relevant;
- consider the impact of weak layers underlying stiffer layers (or vice versa) on end bearing capacity; and
- reduce the pile capacity in tension to no greater than 0.8 of the pile capacity in compression.

The piling contractor must:

- make their own assessment on the suitability of their equipment to install any piles at the subject site; and
- carry out or appoint a suitably experienced contractor to test the piles in accordance with AS2159.

Where dynamic or static testing of the piles does not occur, we consider that a design geotechnical reduction factor (ϕg) of 0.4 is applicable for the pile design. If testing of the piles is proposed by the piling contractor, a higher ϕg could be adopted.

Unless otherwise stated, providing pile design parameters does not specifically indicate the driveability of any piles into soil units.

A separate driveability study may be required and must be considered by the pile designer and installer. The given pile design parameters must not be used for driveability assessments as these parameters are likely to be un-conservative.

GDR11 EARTH RETAINING STRUCTURES

GDR11.1 General

Retaining structures may be designed in accordance with AS4678 (2002) "Earth Retaining Structures". Unless otherwise specifically stated, we recommend that all retaining walls are backfilled with free-draining soil (Permeable Sand or Blue Metal Gravel as defined in Section GDR8).

Where the cohesive soil is used as retaining wall backfill, a suitable, permanent drainage system must be placed behind the wall such that a build-up of pore pressure is prevented. A separator geotextile (Bidim A24, or similar, or heavier) must be used between the interface of any granular backfill and the cohesive soil.

Where drainage is not provided, the retaining wall must be designed to accommodate water pressure behind the wall (10 kPa per metre height).

GDR11.2 Earth Pressure Coefficients and Strength Parameters

Where earth pressure coefficients are provided for retaining walls, the wall designer must make an independent assessment of the parameters appropriate to the construction method to be used, including alternative values of wall friction. Unless otherwise stated, we have assumed a horizontal ground surface behind and in front of the retaining wall for provided parameters.

GDR11.2.1 Cohesionless Soils

Where cross-referenced for suitability in the report, the following parameters may be adopted for design of earth retaining structures in cohesionless soils (sand and gravel).

Table GDR 17: Retaining Wall Geotechnical Parameters (Cohesionless Soils)

Density	γ (kN/m^3)	ϕ' (°)	k_0	Wall Friction=0		Wall Friction=0.5ϕ		Wall Friction=0.67ϕ	
				k_a	k_p	k_a	k_p	k_a	k_p
Very Loose	17	30	0.44	0.33	3.00	0.29	4.81	0.28	5.74
Loose	17	32	0.42	0.31	3.25	0.27	5.55	0.26	6.83
Medium Dense	18	34	0.39	0.28	3.54	0.25	6.47	0.23	8.26
Dense	19	36	0.36	0.26	3.85	0.22	7.63	0.21	10.18
Very Dense (1)	19	38	0.34	0.24	4.20	0.21	9.11	0.20	12.85
Very Dense (2)	19	40	0.31	0.22	4.60	0.19	11.06	0.18	16.73

NOTES:

1. *Earth pressure coefficients are provided in this table for conditions of zero friction between the wall and the soil and with wall friction of 0.5Φ' or 0.67Φ'.*
2. *A horizontal ground surface behind and in front of the wall has been assumed.*
3. *The retaining wall designer should make an independent assessment of the parameters appropriate to the construction method to be used, including alternative values of wall friction.*
4. *γ – bulk unit weight*
   ϕ' – effective friction angle
   k_a – coefficient of active earth pressure (Coulomb – AS4678-2002, Appendix E)
   k_p – coefficient of passive earth pressure (Coulomb – AS4678-2002, Appendix E)
   k_0 – coefficient of at-rest earth pressure (Jaky)
5. *Maximum fines content 12% for applicability of this table for design purposes.*
6. *Unit weights based on Table D1 of AS4678-2002, for moist bulk weight.*
7. *Friction angle based on Equation D1 and Table D2 of AS4678-2002, based on rounded, moderately graded siliceous sand.*

GDR11.2.2 Cohesive Soils

Where cohesive soils (i.e. clayey or silty soils) are proposed for backfill, geotechnical design parameters may be provided in the form of effective strength and undrained strength parameters. We note that:

- Undrained strength parameters should be used for analysis of short-term stability, or stability under sudden loading of cohesive soils.
- The effective strength parameters should be used for analysis of free-draining soils and the long-term stability of cohesive soils.

Table GDR 18: Retaining Wall Geotechnical Design Parameters (Cohesive Soils – Undrained)

Consistency	γ_b (kN/m^3)	c_u (kPa)

Soft	17	12
Firm	18	25
Stiff	19	50
Very Stiff	20	100
Hard	20	200

NOTES:
1. *γ_b – bulk unit weight*
   c_u – undrained cohesion
   $\phi_u = 0^o$ (undrained friction angle)
2. *Unit weights based on Table D1 of AS4678-2002*
3. *Undrained cohesion based on lower end of shear strengths as define in AS1726-2017, Table 11*

Table GDR 19: Retaining Wall Geotechnical Design Parameters (Cohesive Soils – Drained)

Fines Content	PI (%)	γ_b (kN/m^3)	ϕ' (°)	c' (kPa)[5]
12-35%	All	19	32	0
>35%	10	20	30	0 – 5
>35%	20	20	26	0 – 5
>35%	30	20	23	0 – 5
>35%	40	20	21	0 – 5

NOTES:
1. *γ_b – bulk unit weight*
   c' – drained cohesion
   ϕ' – effective friction angle
   PI – plasticity index
2. *Unit weights based on Table D1 of AS4678-2002, assuming generally stiff to hard overconsolidated soils.*
3. *For fines contents <35% (silty sand and clayey sand), strength parameters based on:*
   - *Lehane, B. et al (2007) "A Laboratory Investigation of the Upper Horizons of the Perth/Guildford Formation in Perth CBD", Australian Geomechanics Vol 42. No. 3.*
4. *For fines content >35% (sandy clay), strength parameters based on:*
   - *CIVL5503 course notes (2004), "Underground Construction", University of Western Australia*
5. *c' = 0 recommended for long-term design. Table D4 of AS4678 suggests c' up to 5 kPa for 'poor' fine grained soils and 10 kPa for 'average' fine-grained soils. The use of c' for design is subject to the designer's judgement but recommended by us only for temporary works.*

Per AS4678-2002 Appendix E, horizontal earth pressures for frictional-cohesive soils may be calculated in accordance with the Rankine-Bell design model (illustrated in Figure E2 of AS4678). The earth pressures are as follows (Z = depth, all other terms have the meanings given in the above tables):

- Active: $p_a = \gamma\ Z\ tan^2\left(45 - \frac{\emptyset}{2}\right) - 2\ c\ tan\left(45 - \frac{\emptyset}{2}\right)$
- Passive: $p_p = \gamma\ Z\ tan^2\left(45 + \frac{\emptyset}{2}\right) + 2\ c\ tan\left(45 + \frac{\emptyset}{2}\right)$

GDR11.3 Design and Construction Considerations

Compaction plant can augment the lateral earth pressure acting on retaining walls. Hand operated compaction equipment is recommended within 2 m of any retaining walls to minimise compaction pressures.

Retaining walls can move and rotate under imposed soil loading resulting in settlement behind the wall. This must be considered in the design and during construction of the retaining walls in order that adjacent infrastructure is not adversely affected.

It is important to note that some ground movement will occur behind any soil retaining system, including gravity retaining walls.

GDR12 EXCAVATIONS, BATTERS AND SLOPES

GDR12.1 Excavatability

Our assessment of the excavatability of rock is based on a combination of:

- Our experience on earthworks and construction projects across Australia; and

- Figure 10 of the revised graphical method of assessing excavatability of rock by:
- Pettifer, G.S. & Fookes, P.G., "A revision of the graphical method for assessing the excavatability of rock", Quarterly Journal of Engineering Geology, 27, pp145-164, 1994.

GDR12.2 Safety

All excavations must be carried out in accordance with:

- Commission for Occupational Safety and Health (2022). "Excavation: Code of Practice", Department of Mines, Industry Regulation and Safety, 89pp, Perth.

Excavations in cohesionless soils are particularly prone to instability unless support is provided. Care must be exercised in such excavations and appropriate safety measures adopted where necessary, particularly in the vicinity of existing buildings, structures and infrastructure.

The toe of any batter must be at least 500 mm above groundwater (including perched groundwater).

Unless a specific slope stability assessment or retention design has been done, the toe of any excavation should not encroach within a line of 1V:3H to any nearby footings, pavements or other settlement-sensitive structures.

Surcharges (such as structures, plant and soil stockpiles) must not be placed at or close to the crest of unsupported excavations, without a specific slope stability assessment.

A geotechnical engineer must be consulted where there is any doubt regarding the stability or safety of unsupported excavations.

GDR12.3 Batters

Temporary batter slopes provided in the report are subject to the following conditions, unless otherwise stated:

- The maximum slope height is 2 m without specific advice and slope stability analysis.
- The groundwater level for the duration of the excavation must be at least 500 mm below the toe of the slope.
- No surcharges are present in the vicinity of the slope (i.e. must be outside a line of 1V:3H from the toe of the slope).

Unless noted specifically in the report, the following batters may be adopted (maximum height: 2 m):

Table GDR 20: Default Batter Angles

Situation	Material	Batter
Temporary	Cohesionless Soils (Sand/Gravel)	1V:2H
Temporary	Cohesive Soils – Soft	1V:2H
Temporary	Cohesive Soils – Firm, Stiff, Very Stiff or Hard	1V:1H
Temporary	Limestone – Variably Cemented	1V:1H
Temporary	Limestone – Well Cemented	1V:0.5H
Permanent	All Soils	1V:3H
Permanent	Limestone – Variably Cemented	1V:2H
Permanent	Limestone – Well Cemented	1V:1H

Where specified batters cannot be accommodated in the vicinity of existing footings, roads and services, temporary or permanent lateral support will be required.

Specific advice is required for batters higher than 2 m.

Erosion control must be considered for permanent slopes.

Rock slopes must be inspected, and all loose cobbles / boulders removed. Permanent rock slopes may require dentition works or possibly rock catch drains.

GDR12.4 Grouting

Permeation or jet grouting involves injecting a microfine cement into soil to form a grouted soil block (soilcrete) to support excavation and structures. Grouting is typically only effective where the soil has the capacity to "take" the grout and form a uniformly cemented soil mass. Permeation grouting is generally limited to relatively permeable, coarse-grained cohesionless soils (sands and gravels with <5% fines).

If grouting is proposed, we recommend the following:

- Grouting must be carried out by a suitably experienced contractor.
- Only microfine cement grout should be used (not GP or coarse cement blends) to ensure adequate penetration into the soil matrix.
- Grouting should be done on a grid of not greater than 300 m.
- Application rates must be discussed with the contractor.
- The grouted soil mass must have intimate contact with any structures it is intended to support.
- The contractor must satisfy themselves that the proposed grouting can be installed with their equipment and into the subsurface conditions encountered at the site, considering possible obstructions, groundwater, cemented layers, loose sands etc.
- Testing of the grouted soil mass must be done to ensure that the grout has adequately permeated through the soil matrix. This can be done by drilling into the soil mass to ensure the cementation is continuous.

Grouting is most effective on permeable, relatively loose natural sand. Where historical filling or other ground disturbances have occurred, the grouting process can be less effective due to the tendency of grout (or other liquids) to follow more permeable paths / zones through the disturbed soil.

GDR13 STORMWATER DISPOSAL AND DRAINAGE DESIGN

GDR13.1 Groundwater Separation – Controlled Groundwater

These recommendations ONLY apply to where regional controls on groundwater (primarily: subsoil drainage, but also surficial 'main drains') exist, i.e. only to areas where groundwater is actively controlled.

The following reference:

- IPWEA (2016), "Specification: Separation Distances for Groundwater Controlled Urban Development", Institute of Public Works Engineering Australasia

recommends the following separation distances from drainage infrastructure to groundwater:

- Underground infiltration systems: 0 mm from the 50% AEP (annual exceedance probability) phreatic surface.
- Surface infiltration systems (vegetated): 300 mm from the 50% AEP phreatic surface.

The above IPWEA reference also states that performance measures for underground infiltration systems are to have a: demonstration of acceptable volumetric capacity when groundwater is elevated above base of system and that the groundwater recedes below the invert of the system during mosquito breeding seasons (grated or partially open systems).

GDR13.2 Groundwater Separation – Uncontrolled Groundwater

These recommendations apply where regional controls on groundwater levels are not present. For infiltration into soakwells and soakage basins to be the full theoretical value, an adequate separation to groundwater must be achieved, because otherwise performance is hindered by inadequate separation to groundwater or partial submergence of the infiltrative element.

We recommend a minimum separation of 500 mm from the underside of infiltrative elements to maximum groundwater level.

- To average annual maximum groundwater level (AAMGL), where this has been defined for the site; or
- To historical maximum groundwater level, where this has been defined to the site.

GDR13.3 Design Hydraulic Conductivity Values

Where provided, the values of hydraulic conductivity (k) should be considered the maximum/upper limit design values. As discussed in Section GDR3.7, the inverse auger hole test is an unsaturated field test carried out above the groundwater table and, as such, presents the best-case conditions for drainage.

For soak wells in sand, we provide the design value taking into consideration the variability in materials and reduced permeability as a result of:

- Densification of sand during site preparation works; and
- Natural variation in sands.

Design k_{unsat} values provided for soak wells are only appropriate for the design of unsaturated soils where the base of disposal area is at least 500 mm above groundwater and 500 mm above any impermeable layer.

Where design values of k_{unsat} have been provided, clogging of the base of the soakwell / drainage basin has not been considered. Clogging will need to be controlled with maintenance over the life of the soakwell / drainage basin.

For the design of subsoil drains or modelling of saturated soil performance, a k_{sat} value must be given (in the report text) or assessed by laboratory testing (or a combination of field and laboratory testing). Unless specifically stated, k_{unsat} values presented in our report are for unsaturated conditions and intended for design of stormwater disposal elements above groundwater. If no k_{sat} value has been provided, do not use the provided k_{unsat} value for saturated drainage design. Please contact us for further advice.

For saturated or semi-saturated sands, the hydraulic conductivity must be assessed by testing of representative soil samples at a NATA accredited laboratory to determine:

- The modified maximum dry density (MMDD); and
- The constant-head permeability (AS1289.6.7.1) on a sample remoulded to at least 5% greater than the proposed specification density (i.e., sample should be remoulded to 100% MMDD if the earthworks specification requires a density ratio of 95% MMDD).

For saturated or semi-saturated clayey or silty soils, the hydraulic conductivity must be assessed by testing of representative soil samples at a NATA accredited laboratory to determine:

- The standard maximum dry density (SMDD); and
- The falling-head permeability (AS1289.6.7.2) on a sample remoulded to at least 3% greater than the proposed specification density (i.e., sample should be remoulded to 101% SMDD if the earthworks specification requires a density ratio of 98% SMDD).

GDR13.4 Soakwells

In uncontrolled groundwater environments, the base of any soakwell must be the higher of:

- At least 500 mm above the average annual maximum groundwater level (AAMGL).
- At least 500 mm above any low permeability/impermeable layers (clay, rock or otherwise).

In controlled groundwater environments (refer to Section GDR13.1), the base of any soakwell may be 0 mm above the controlled groundwater level at the location of the soakwell (as determined by the civil engineer).

Soak wells must be placed outside a line of 1V:2H extending below the edge of the nearest footing, subject to local council regulations. Discharge from soak wells has been known to promote densification of loose sandy soils, leading to settlements of footings and slabs. Soak wells should be carefully wrapped with geotextile to prevent migration of sand and fines into the soak well.

Where soak wells are proposed to dispose of water within a line of 1V:2H from any basement walls or similar, the walls must be waterproofed to prevent seepage or damp within the basement wall.

In potentially karstic terrain or areas of potentially collapsible soils, soakwells should typically be located 10 m from the nearest footing, slab or pavement.

GDR13.5 Design Groundwater Elevation

Where applicable, a recommended design groundwater elevation will be provided in the report and will be identified as such.

In the absence of a specific statement on design groundwater elevation, do not assume that:

- Absence of comments about groundwater indicates an absence of groundwater (in particular, sites that are dry in the dry season to the investigated depth may well become waterlogged in the rainy season).
- Where groundwater depths/levels are noted, that these are fixed (groundwater fluctuations occur over the course of the year and between wetter and drier years).

Where groundwater elevations are likely to be critical for a development (particularly where large-scale subdivision or large developments are proposed with substantial channelling of stormwater into on-site disposal by infiltration), a site-specific hydrology study is likely to be required to confirm design groundwater elevations.

GDR14 DRAINAGE CONTROL

In addition to the site preparation measures outlined for cohesive soils (refer Section GDR6.2.4), careful control of surface water and stormwater is essential to minimise the likelihood of cohesive soils decreasing in strength and affecting the installed infrastructure. These measures include:

- The ground surface of clayey soils should be graded to drain any seepage away from structures and prevent standing water over the cohesive soils. A grade of at least 1% is recommended.
- Pavements should be sealed to minimise water ingress.
- Stormwater disposal swales should be located at least 10 m away from buildings, retaining walls and pavements.
- Runoff from hardstandings and pavements must either be collected and discharged via pipes into discrete locations (via swales or soakage basins) at least 10 m away from structures and pavements or, alternatively, discharged over a wide area, but not allowed to collect and discharge into concentrated areas, particularly near structures and pavements.
- Spoon drains should be used to collect water at the crest of slopes to capture surface runoff and direct it away from running directly down slopes or seeping into the ground behind slopes.

These measures are general in nature only and do not take into account the civil design objectives, which must be addressed separately by the civil designer.

GDR15 DEWATERING

Dewatering may be required for excavations and construction below groundwater or perched groundwater tables. Common dewatering methods are summarised below:

Table GDR 21: Dewatering Recommendations

Material	Recommended Methods
Sandy Soils	Spears Deep Well Point
Impermeable Clay	Sump Pumping

Dewatering spears are typically suitable for small scale excavations below groundwater, with a typical recommendation for spears to be installed at 1 m below the base of any excavation. Dewatering spears may not be suitable where there are impermeable/cemented/strong transition layers, i.e., it may not be possible to extract water near an impermeable layer (rock/clay), or the spear may not be readily driven through a hard clay/cemented layer (i.e., coffee rock).

Sump pumping can be done by grading a clayey excavation to drain (i.e., by using spoon drains), and excavating a sump in the excavation. A sump can typically be backfilled with a blue metal gravel, with a pump wrapped in a geofabric (i.e., Bidim A14 or similar), with disposal of water away from the excavation.

Deep well point dewatering is typically suitable for larger excavations, where there are transitional layers or where the aquifer is confined. It may not be suitable where there are impermeable layers within the profile. It involves the installation of a deep filtered well to a depth required to draw down the groundwater level at the entire site. A deep well dewatering system must be designed by a suitable designer to provide design flow rates, draw down depths etc.

GDR16 PAVEMENT SUBGRADES

Unless otherwise specified, the provided subgrade California bearing ratio (CBR) is not a pavement design, but an assessment of the subgrade as an input into any required pavement designs.

Provided design values are based on the assumption that the relevant site preparation measures are completed for all pavement subgrades, including the use of appropriate approved fill and adequate compaction. We highlight that specific requirements such as those outlined by Main Roads WA (MRWA) or the local council in their construction specifications may have different requirements.

The provided design value is based on laboratory testing (where done), local experience, and the advice as outlined in:

- Main Roads Western Australia (2013). “Engineering Road Note 9 – Procedure for the Design of Road Pavements”. Western Australia Supplement to the Austroads Guide to Pavement Technology Part 2: Pavement Structural Design, East Perth.

Where the subgrade differs from that described in the text, the subgrade CBR must be confirmed.

The performance of any pavement is highly dependent on the surface and subsurface drainage provided (also considering factors like capillary rise from seasonally high groundwater tables). Adequate drainage must be provided to any pavements, and capillary rise must be considered by the designer.

GDR17 SOIL CORROSIVITY AND AGGRESSIVITY

The relevant exposure classifications for concrete and steel piles in soils based on the exposure conditions are presented in Table GDR 22 and Table GDR 23 respectively.

The relevant exposure classifications for concrete in sulfate soils based on the exposure conditions are presented in Table GDR 24.

Table GDR 22: Exposure Classification for Concrete Piles in Soil

Exposure Conditions				Exposure Classification	
Sulfates (expressed as SO_4)[1]					
In Soil (ppm)	In Groundwater (ppm)	pH	Chlorides in Groundwater (ppm)	Soil Conditions A[2]	Soil Conditions B[3]
< 5,000	< 1,000	> 5.5	<6000	Mild	Non-aggressive
5,000 – 10,000	1,000 – 3,000	4.5 – 5.5	6,000-12,000	Moderate	Mild
10, 000 – 20,000	3,000 – 10,000	4 – 4.5	12,000-30,000	Severe	Moderate
> 20,000	> 10,000	< 4	>30,000	Very Severe	Severe

NOTES:
1. *Approximately 100 ppm SO_4 = 80 ppm SO_3*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *Table reproduced from Table 6.4.2(C) of AS2159-2009*

Table GDR 23: Exposure Classification for Steel Piles in Soil

pH	Chlorides		Resistivity (ohm.cm)	Exposure Classification	
	In Soil (ppm)	In Water (ppm)		Soil Conditions A[2]	Soil Conditions B[3]
> 5	< 5,000	< 1,000	> 5,000	Non-aggressive	Non-aggressive
4–5	5,000-20,000	1,000–10,000	2,000 – 5,000	Mildly aggressive	Non-aggressive
3–4	20,000-50,000	10,000–20,000	1,000 – 2,000	Moderately aggressive	Mildly aggressive
< 3	> 50,000	> 20,000	< 1,000	Severely aggressive	Moderately aggressive

NOTES:
1. *1 ppm (parts per million) is equivalent to 1 mg/kg*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *Table reproduced from Table 6.5.2(C) of AS2159-2009*

Table GDR 24: Exposure Classification for Concrete in Sulfate Soils

Exposure Conditions			Exposure Classification	
Sulfates (expressed as SO_4)[1]				
In Soil (ppm)	In Groundwater (ppm)	pH	Soil Conditions A[2]	Soil Conditions B[3]
< 5,000	< 1,000	> 5.5	Mild	Non-aggressive
5,000 – 10,000	1,000 – 3,000	4.5 – 5.5	Moderate	Mild
10, 000 – 20,000	3,000 – 10,000	4 – 4.5	Severe	Moderate
> 20,000	> 10,000	< 4	Very Severe	Severe

NOTES:
1. *Approximately 100 ppm SO_4 = 80 ppm SO_3*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *For disturbed soils, the assumption of soil A conditions where accelerated corrosion is possible should be considered.*
5. *Table reproduced from Table 4.8.1 of AS3600-2018*

GDR18 LIQUEFACTION

Soil liquefaction can occur when loose, granular, Holocene age material below the groundwater table is subjected to a seismic event (typically within 15 m of the ground surface). This can cause a loss of strength and result in vertical and lateral movements of the site surface.

Where a liquefaction analysis is carried out and outlined in the report, this has been done in accordance with consideration to the design earthquake details as presented in AS1170.4-2007:

- The hazard factor is taken from Figure 3.2 (C) and Table 3.2. The Hazard Factor (Z) for Western Australia represents the 1 in 500-year annual probability of exceedance of ground motions measured in gravity (g).
- The probability factor (k_p) is taken from Table 3.1.

Unless otherwise stated, an earthquake magnitude of 7.5 for the south-west of WA is based on research by:

- Dhu T., Sinadinovski C., Edwards M., Robinson D., Jones T., Jones A. (2004) “Earthquake Risk Assessment for Perth, Western Australia”. 13th World Conference on Earthquake Engineering, Vancouver, B.C., Canada. Paper No. 2748.

GDR19 EXPECTATIONS OF THE REPORT

The following sections have been prepared to clarify what is and is not provided in your report. It is intended to inform you of what your realistic expectations of this report should be and how to manage your risks associated with the conditions on site.

Geotechnical engineering and environmental science are less exact than other engineering and scientific disciplines. We include this information to help you understand where our responsibilities begin and end. You should read and understand this information. Please contact us if you do not understand the report or this explanation. We have extensive experience in a wide variety of projects and we can help you to manage your risk.

GDR20 THIS REPORT RELATES TO PROJECT-SPECIFIC CONDITIONS

This report was developed for a unique set of project-specific conditions to meet the needs of the nominated client. It took into account the following:

- the project objectives as we understood them and as described in this report;
- the specific site mentioned in this report; and
- the current and proposed development at the site.

It should not be used for any purpose other than that indicated in the report. You should not rely on this report if any of the following conditions apply:

- the report was not written for you;
- the report was not written for the site specific to your development;
- the report was not written for your project (including a development at the correct site but other than that listed in the report); or
- the report was written before significant changes occurred at the site (such as a development or a change in ground conditions).

You should always inform us of changes in the proposed project (including minor changes) and request an assessment of their impact.

Where we are not informed of developments relevant to your report, we cannot be held responsible or liable for problems that may arise as a consequence.

Where design is to be carried out by others using information provided by us, we recommend that we be involved in the design process by being engaged for consultation with other members of the project team. Furthermore, we recommend that we be able to review work produced by other members of the project team that relies on information provided in our report.

GDR21 DATA PROVIDED BY THIRD PARTIES

Where data is provided by third parties, it will be identified as such in our reports. We necessarily rely on the completeness and accuracy of data provided by third parties in order to draw conclusions presented in our reports. We are not responsible for omissions, incomplete or inaccurate data associated with third party data, including where we have been requested to provide advice in relation to field investigation data provided by third parties.

GDR22 SOIL LOGS

Our reports often include logs of intrusive and non-intrusive investigation techniques prepared by Galt. These logs are based on our interpretation of field data and laboratory results. The logs should only be read in conjunction with the report they were issued with and should not be re-drawn for inclusion in other documents not prepared by us.

GDR23 THIRD PARTY RELIANCE

We have prepared this report for use by the client. This report must be regarded as confidential to the client and the client's professional advisors. We do not accept any responsibility for contents of this document from any party other than the nominated client. We take no responsibility for any damages suffered by a third party because of any decisions or actions they may make based on this report. Any reliance or decisions made by a third party based on this report are the responsibility of the third party and not of us.

GDR24 CHANGE IN SUBSURFACE CONDITIONS

The recommendations in this report are based on the ground conditions that existed at the time when the study was undertaken. Changes in ground conditions can occur in numerous ways including anthropogenic events (such as construction or contaminating activities on or adjacent to the site) or natural events (such as floods, groundwater fluctuations or earthquakes). We should be consulted prior to use of this report so that we can comment on its reliability. It is important to note that where ground conditions have changed, additional sampling, testing or analysis may be required to fully assess the changed conditions.

GDR25 SUBSURFACE CONDITIONS DURING CONSTRUCTION

Practical constraints mean that we cannot know every minute detail about the subsurface conditions at a particular site. We use professional judgement to form an opinion about the subsurface conditions at the site. Some variation to our evaluated conditions is likely and significant variation is possible. Accordingly, our report should not be considered as final as it is developed from professional judgement and opinion.

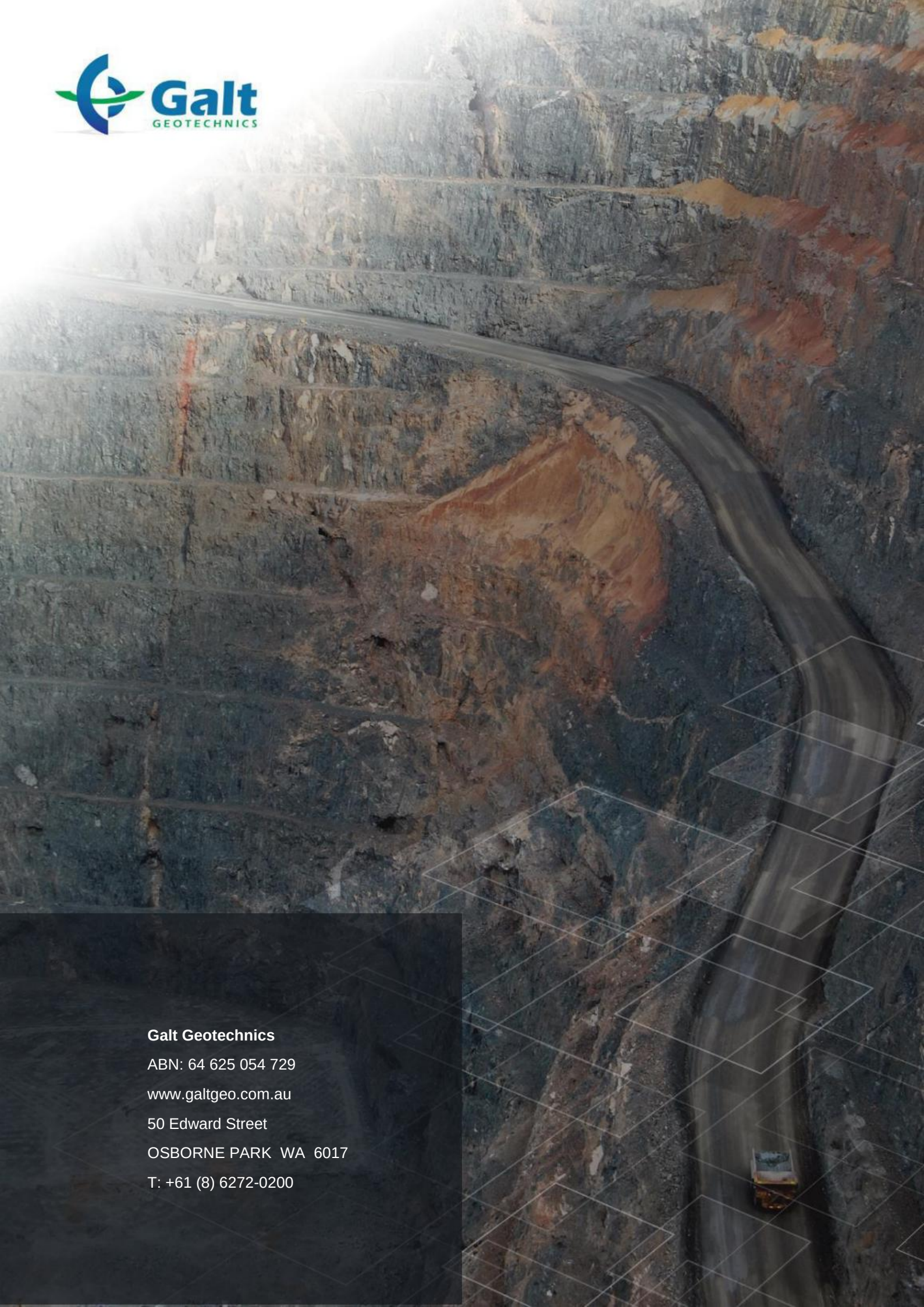
The most effective means of dealing with unanticipated ground conditions is to engage us for construction support. We can only finalise our recommendations by observing actual subsurface conditions encountered during construction. We cannot accept liability for a report's recommendations if we cannot observe construction.

GDR26 ENVIRONMENTAL AND GEOTECHNICAL ISSUES

Unless specifically mentioned otherwise in our report, environmental considerations are not addressed in geotechnical reports. Similarly, geotechnical issues are not addressed in environmental reports. The investigation techniques used for geotechnical investigations can differ from those used for environmental investigations. It is the client's responsibility to satisfy themselves that geotechnical and environmental considerations have been taken into account for the site.

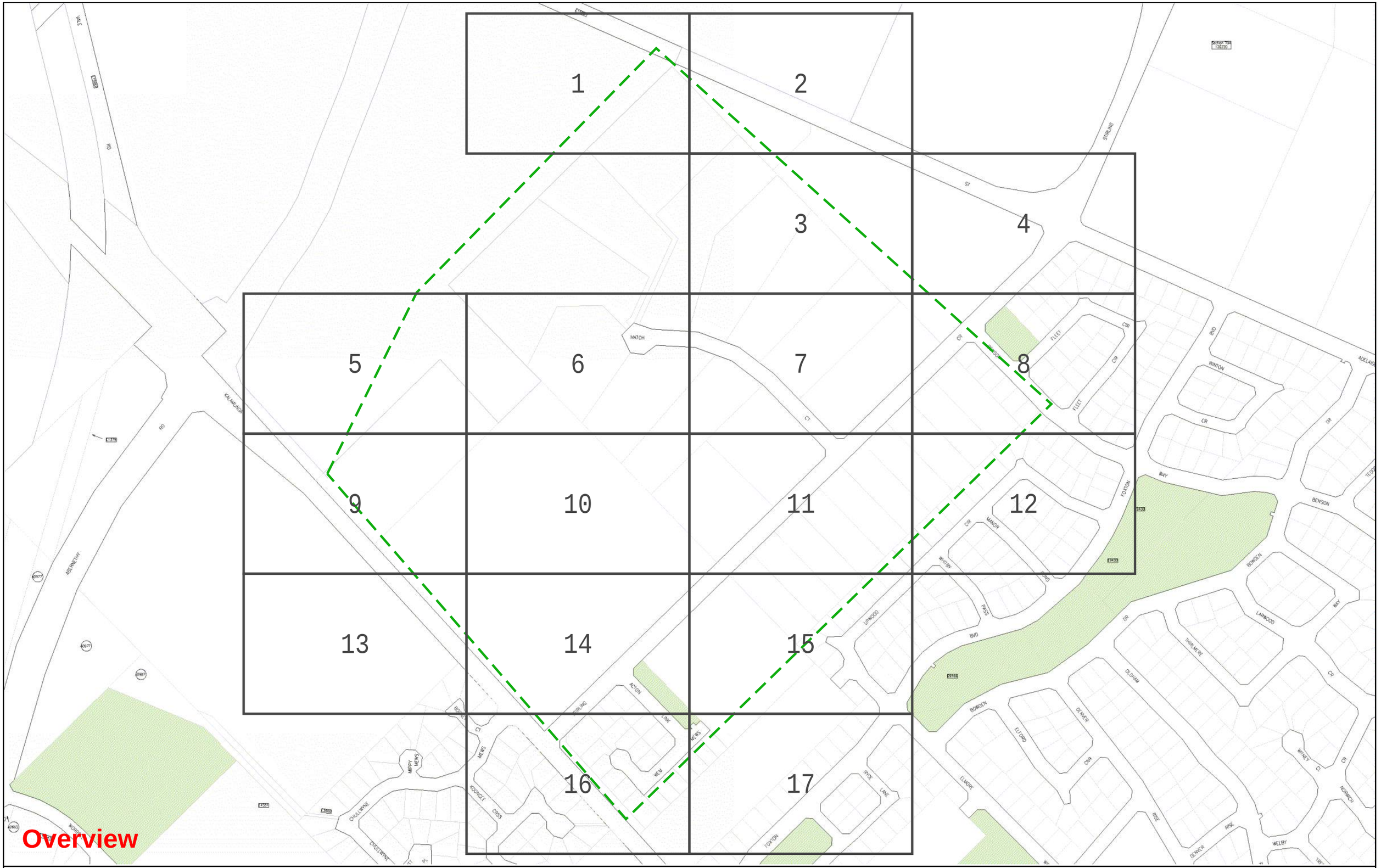
Geotechnical advice presented in a Galt Environmental report has been provided by Galt Geotechnics under a sub-contract agreement. Similarly, environmental advice presented in a Galt Geotechnics report has been provided by Galt Environmental under a sub-contract agreement.

Unless specifically noted otherwise, no parties shall draw any inferences about the applicability of the Western Australian state government landfill levy from the contents of this document.

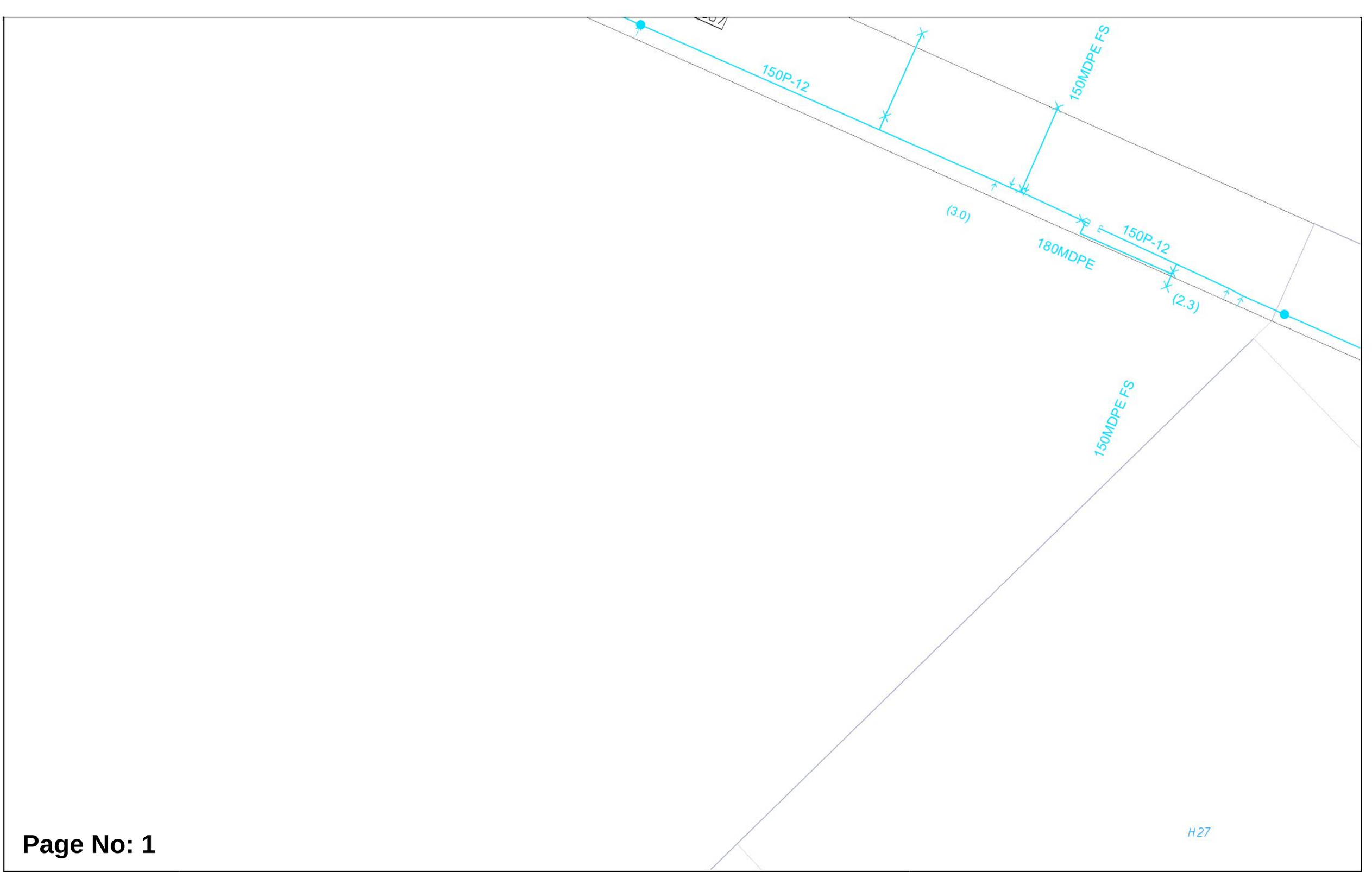


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APPENDIX C – DBYD SERVICES



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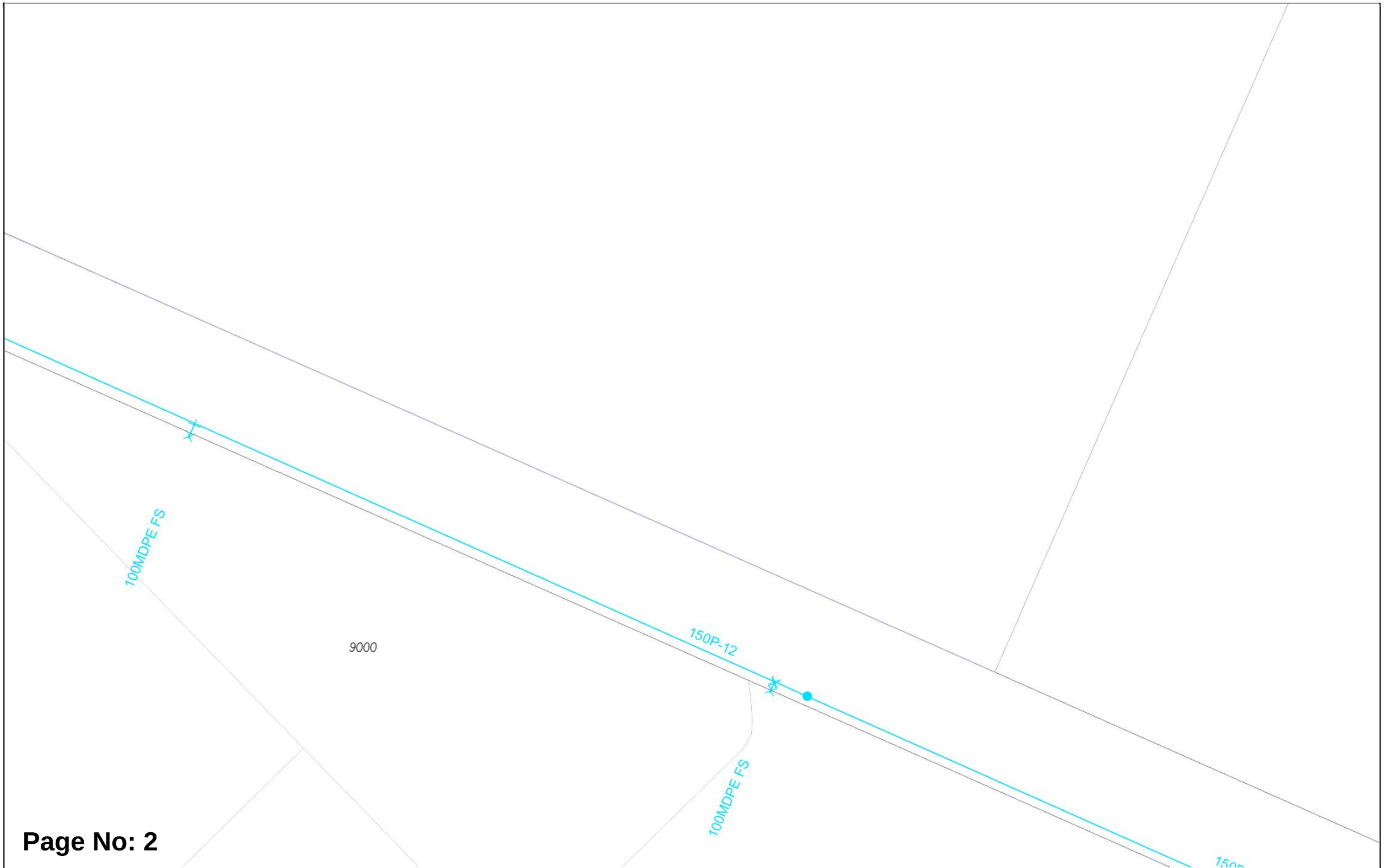
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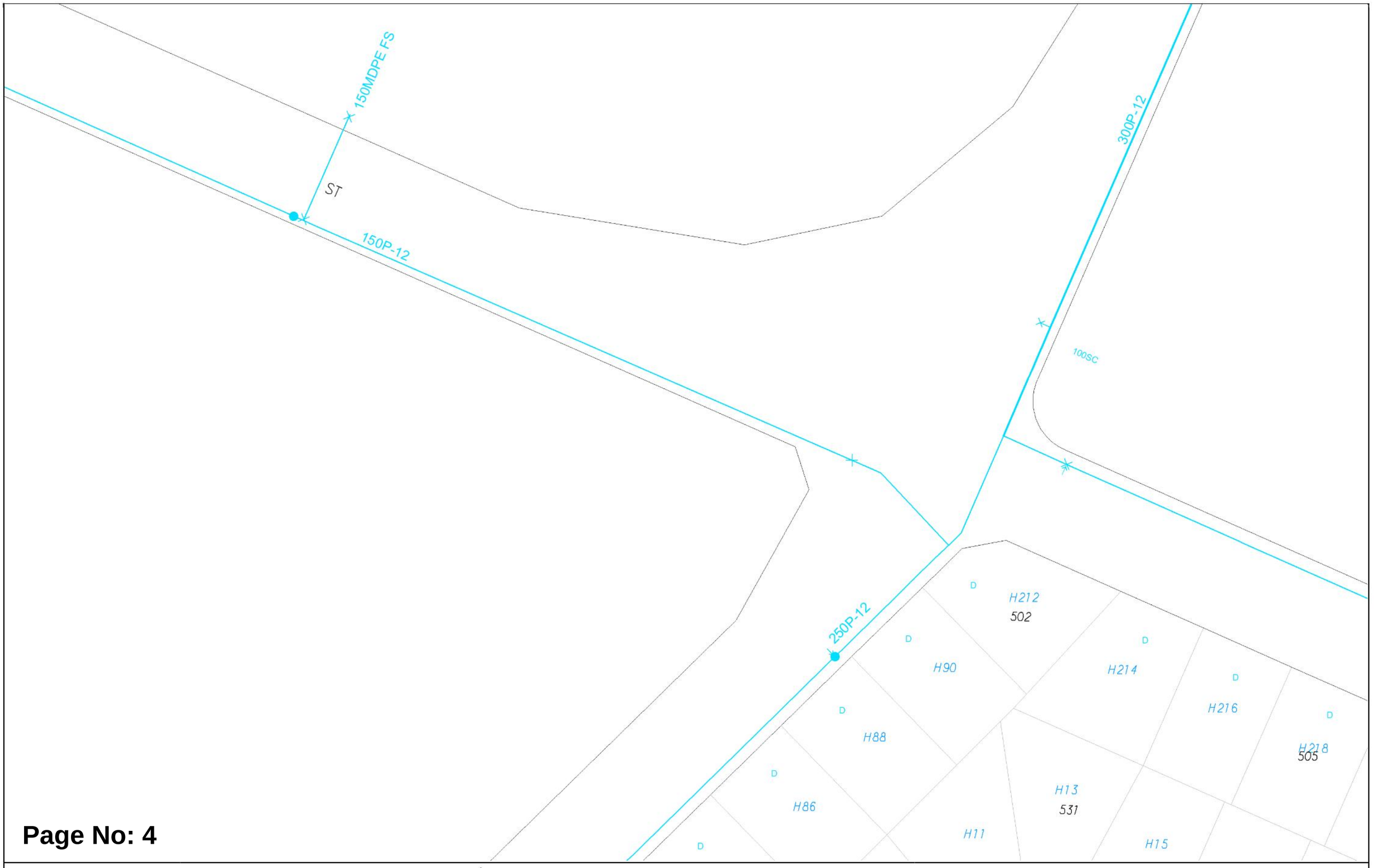


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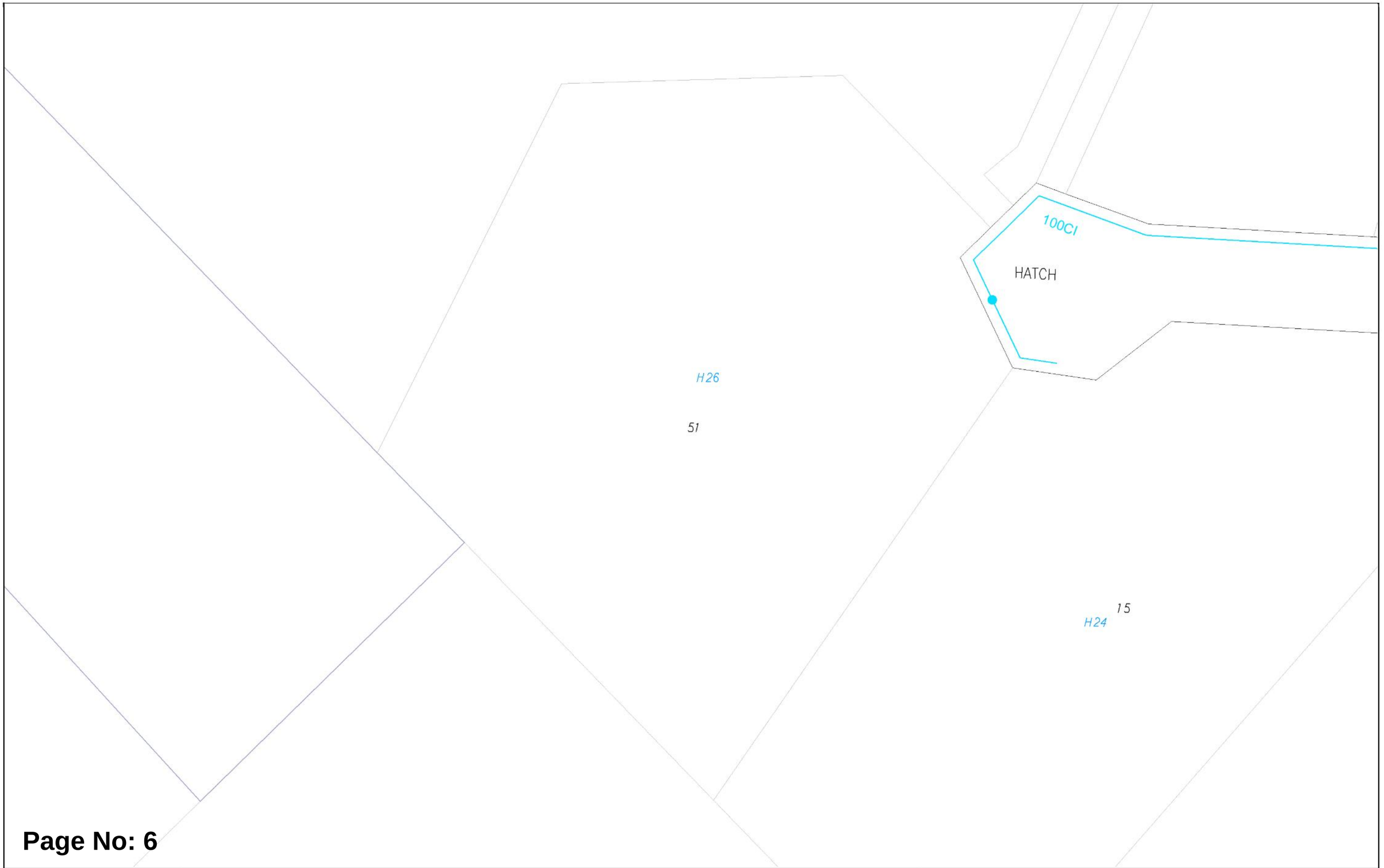
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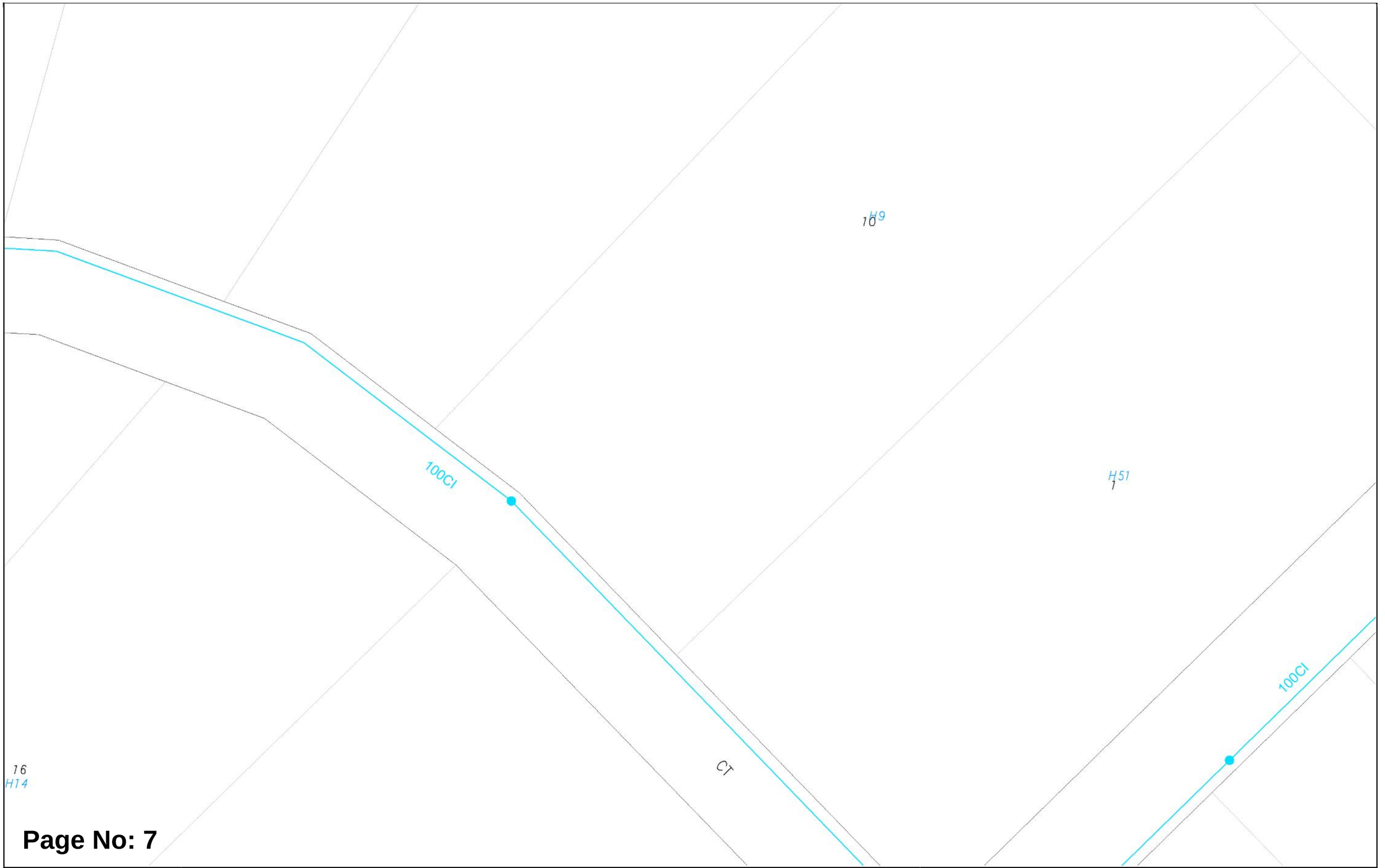
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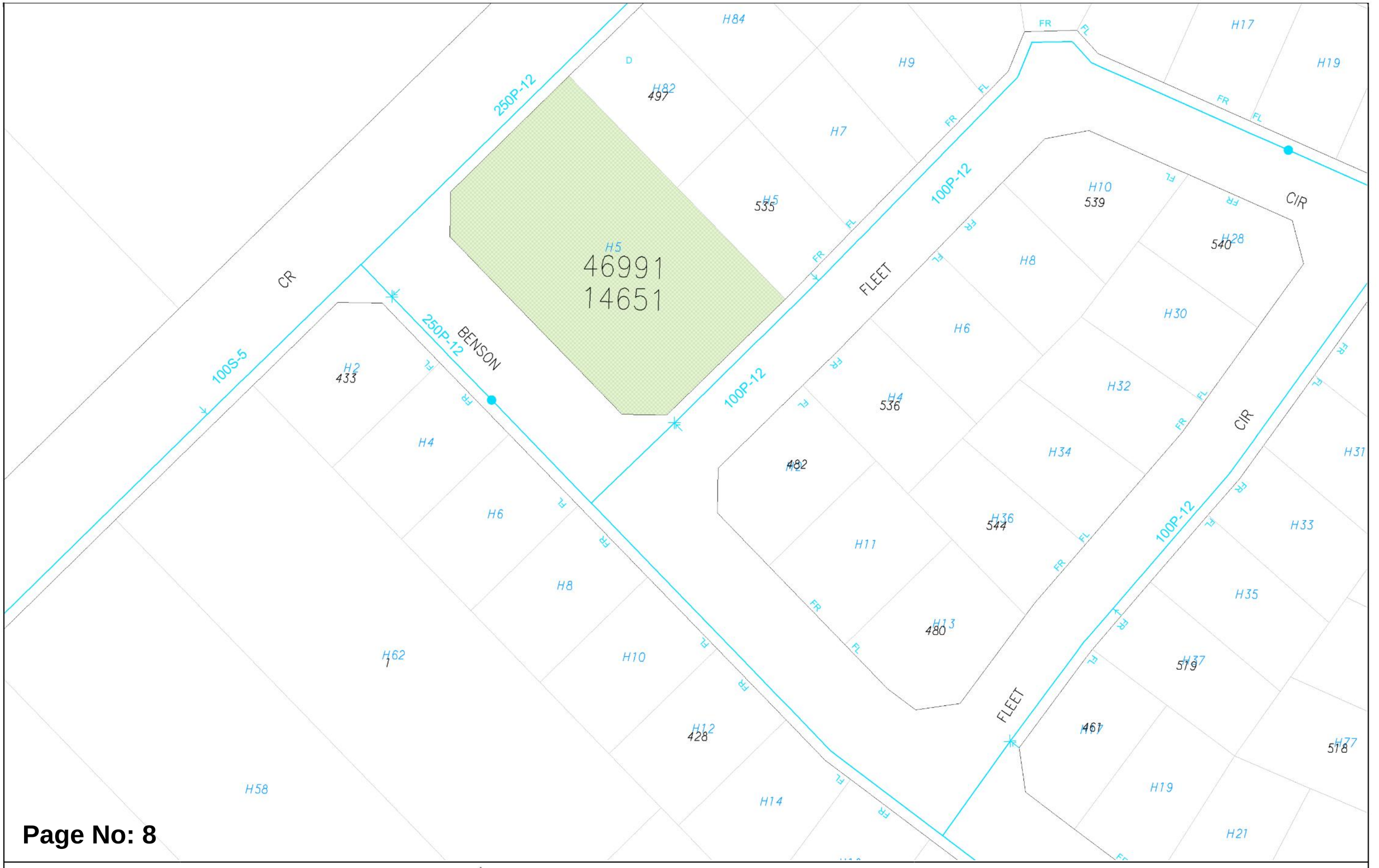
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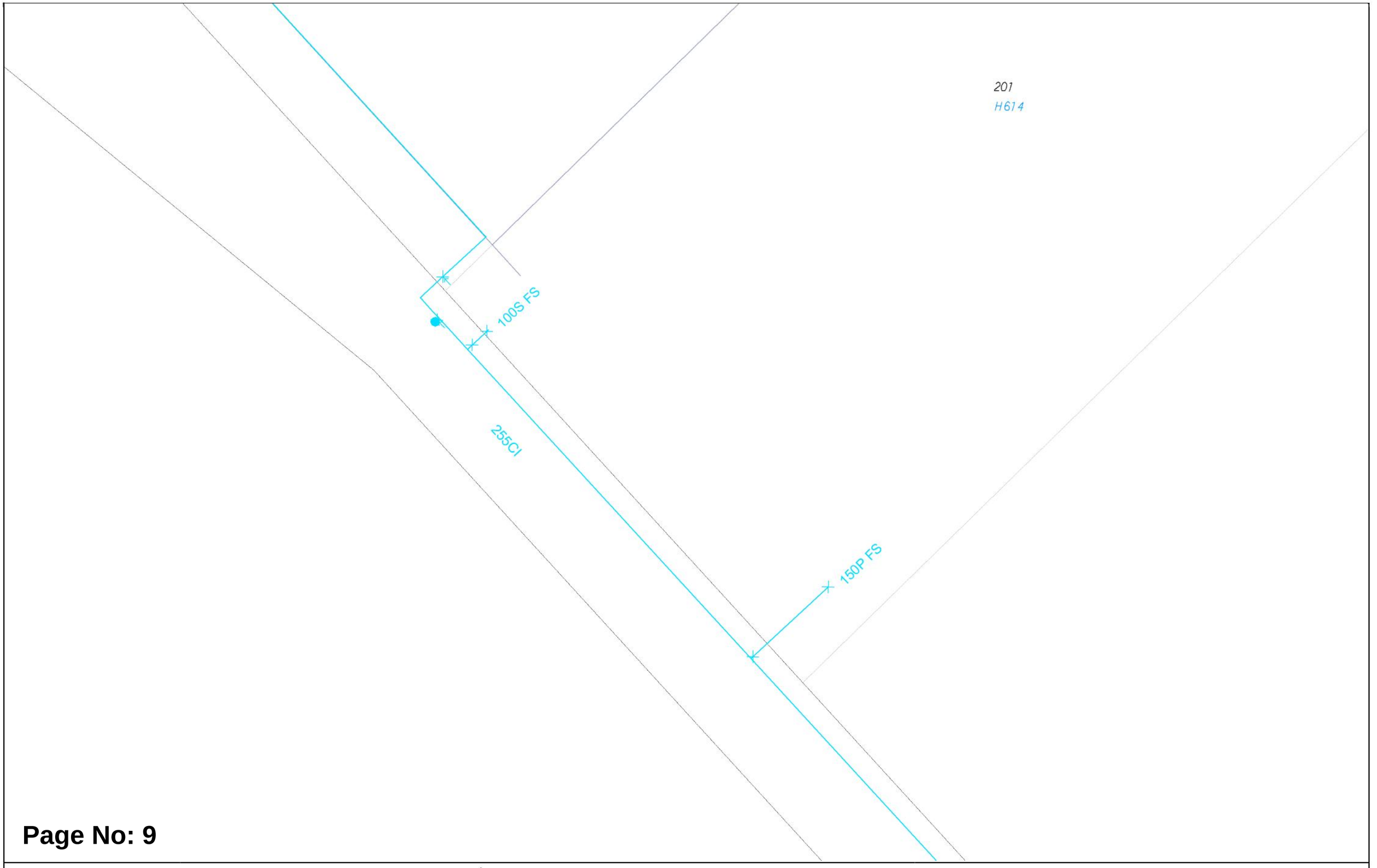
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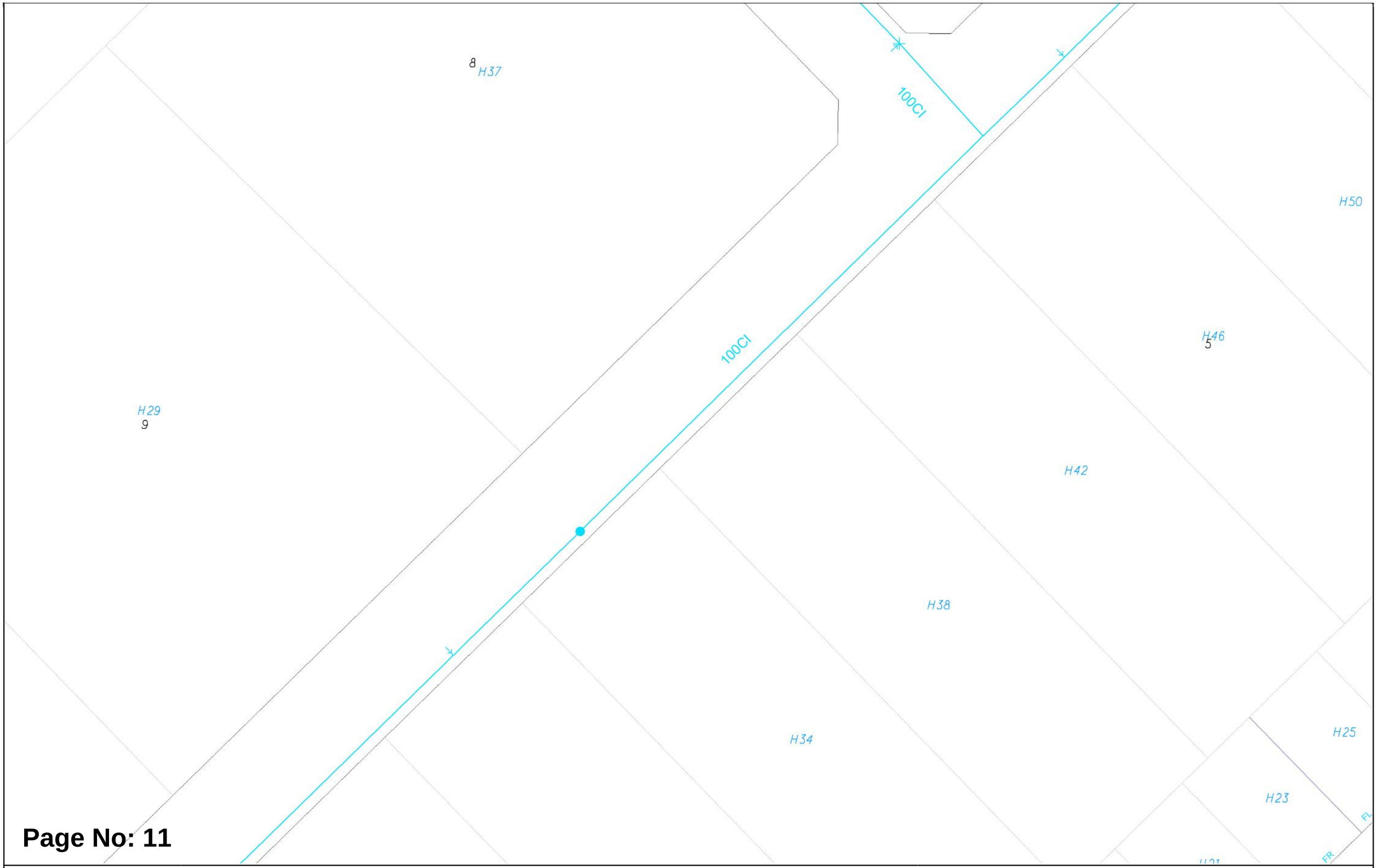
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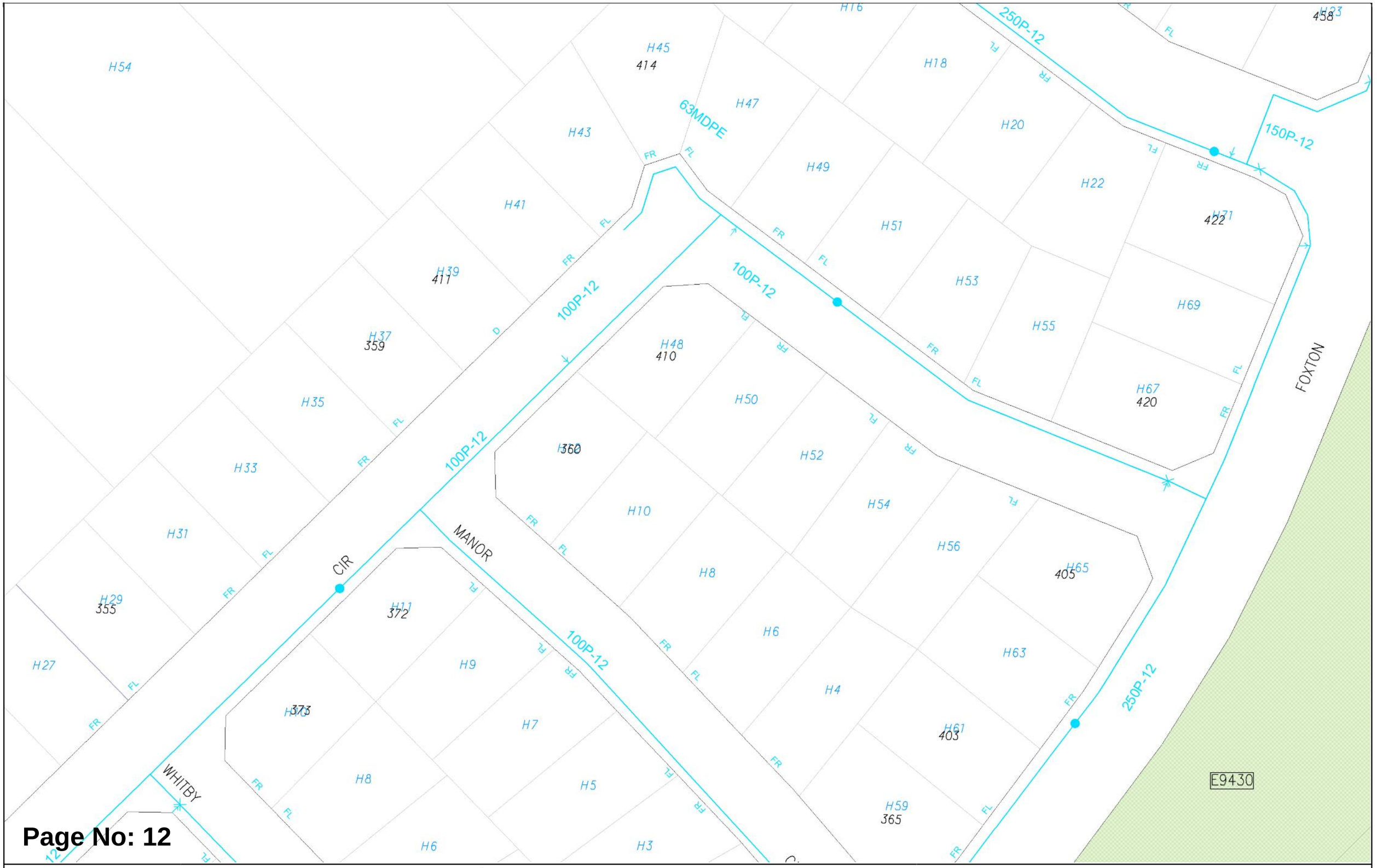
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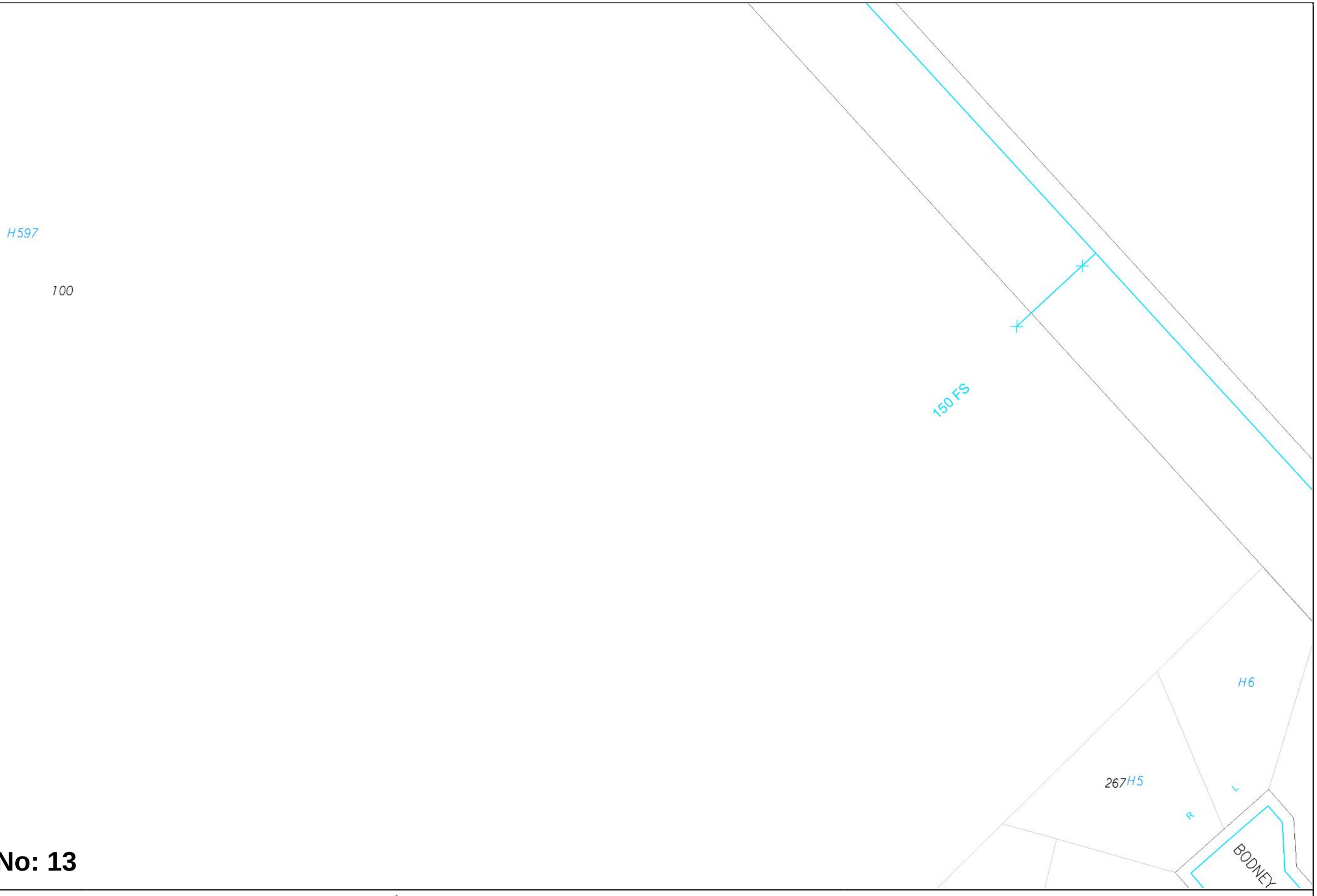


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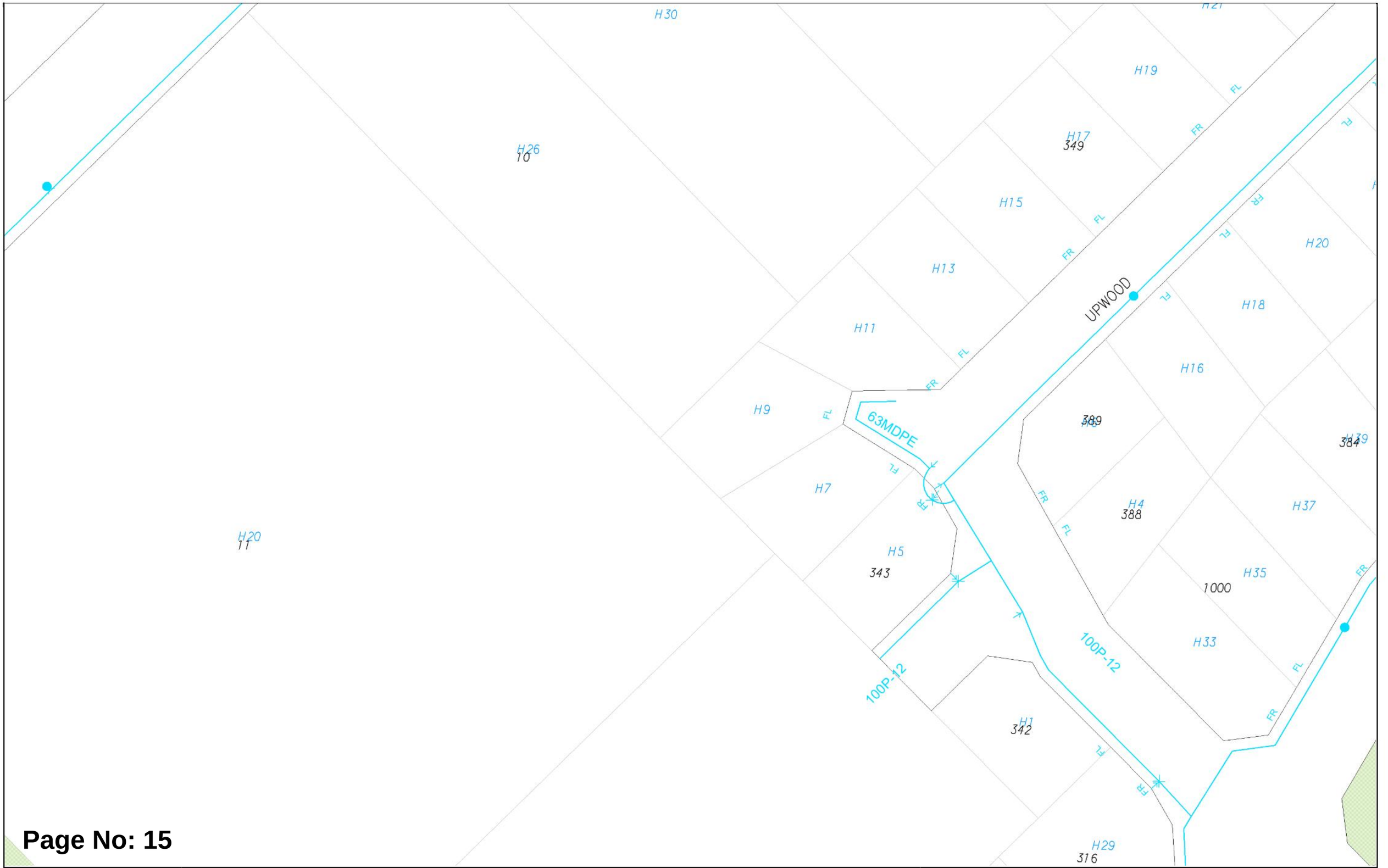
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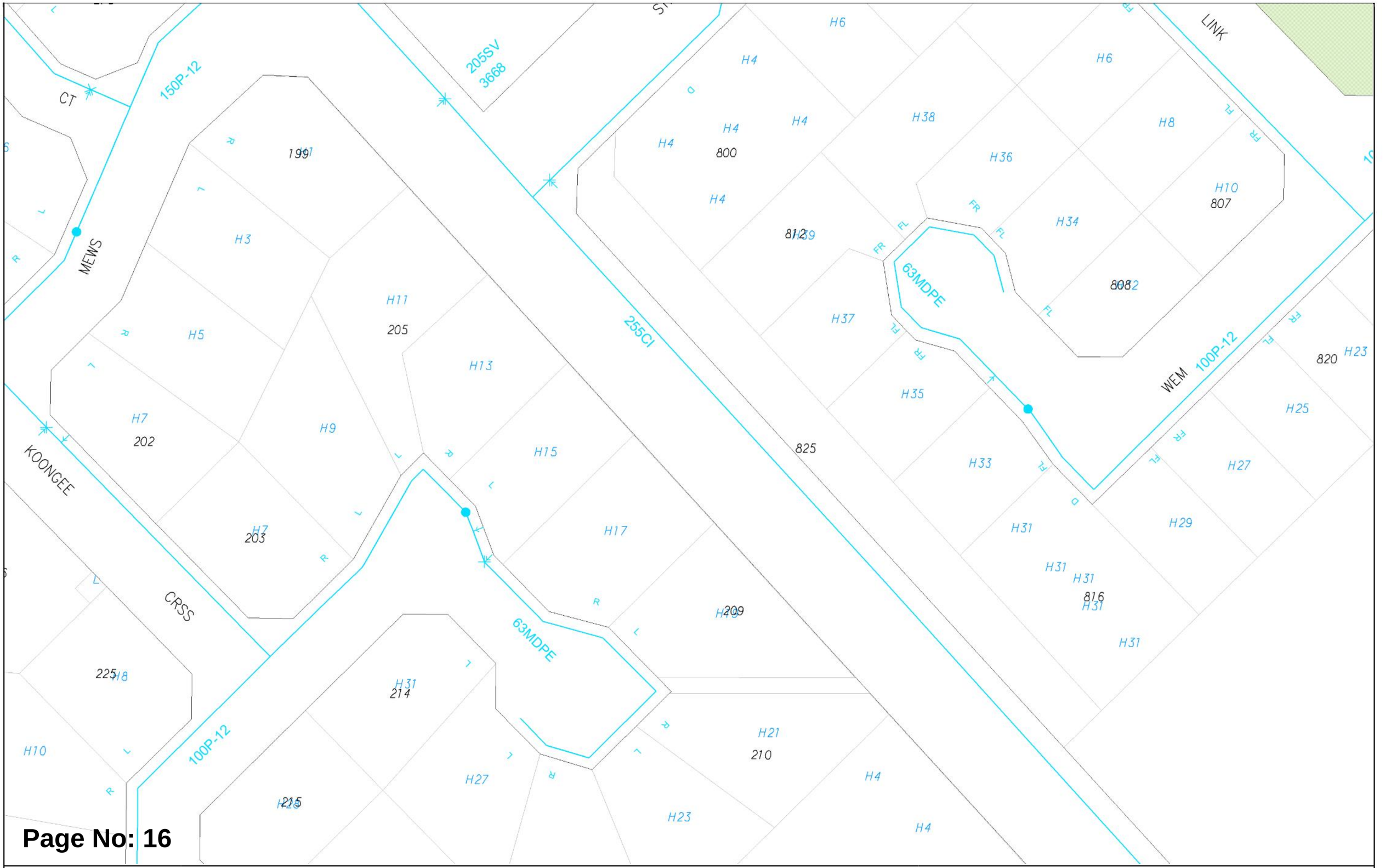
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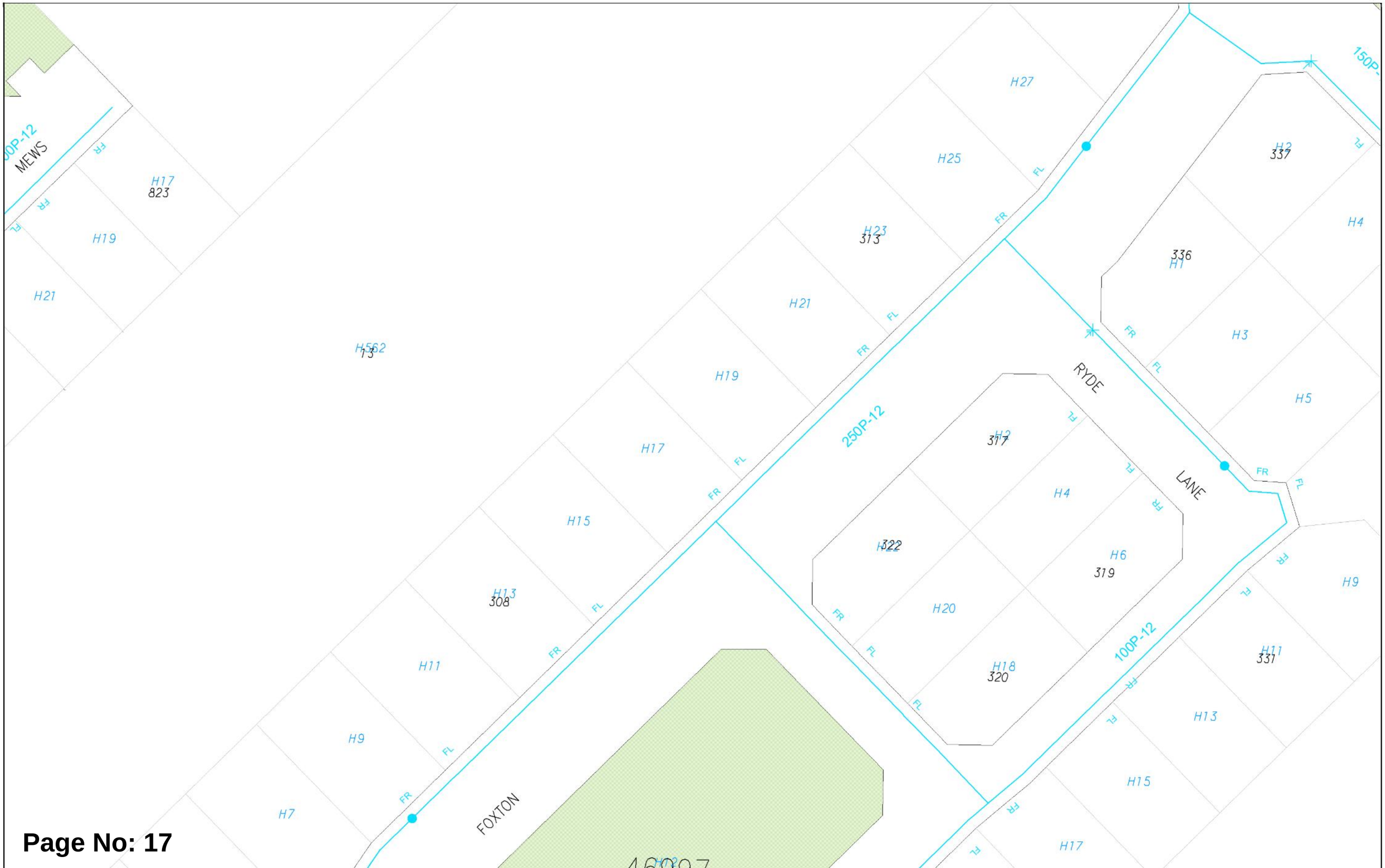
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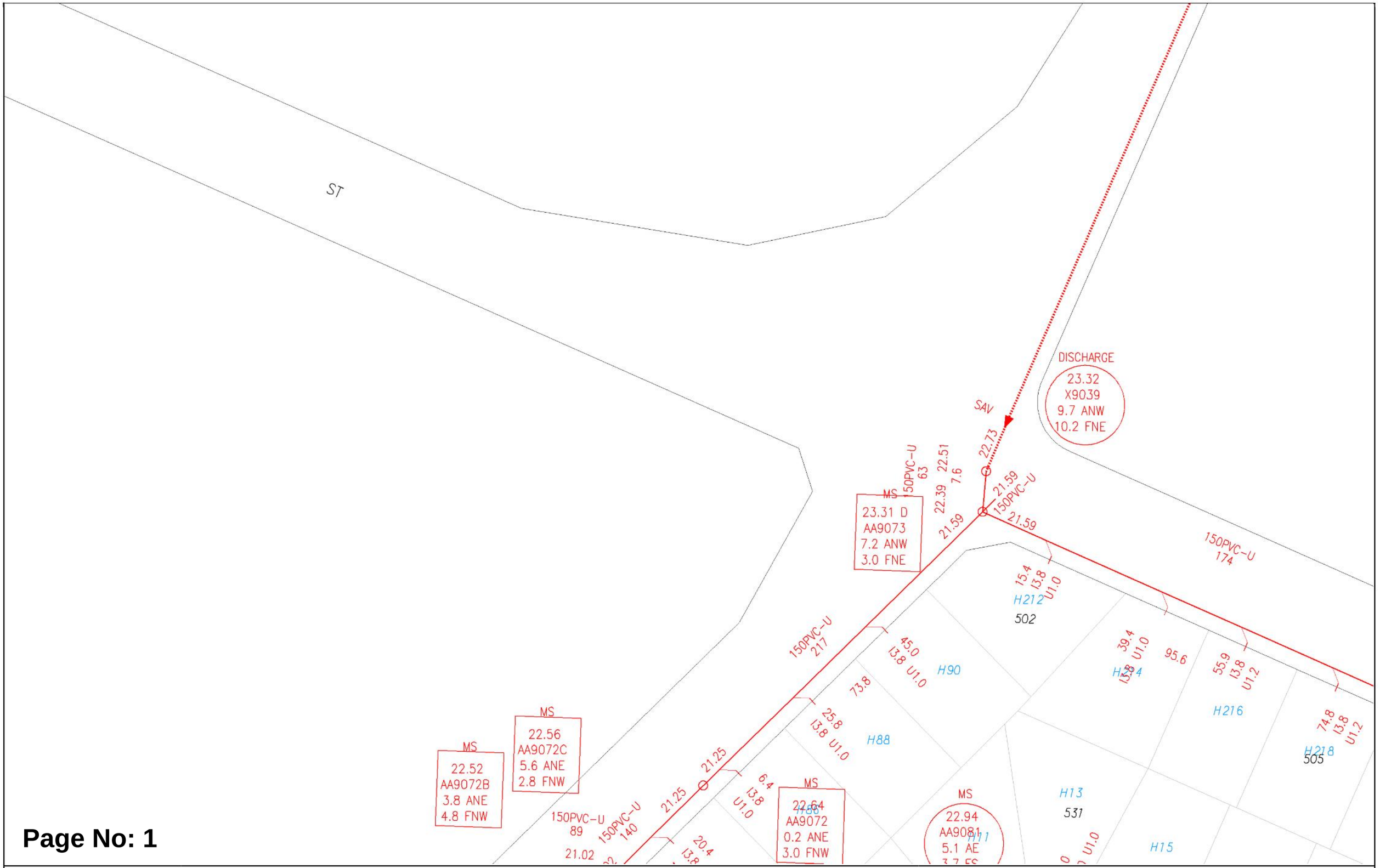
WATER CORPORATION

Scale: 1:4542
Job No.: 52425203
Sequence No.: 268549262
Print Date: 19 Feb 2026

N

Sewer

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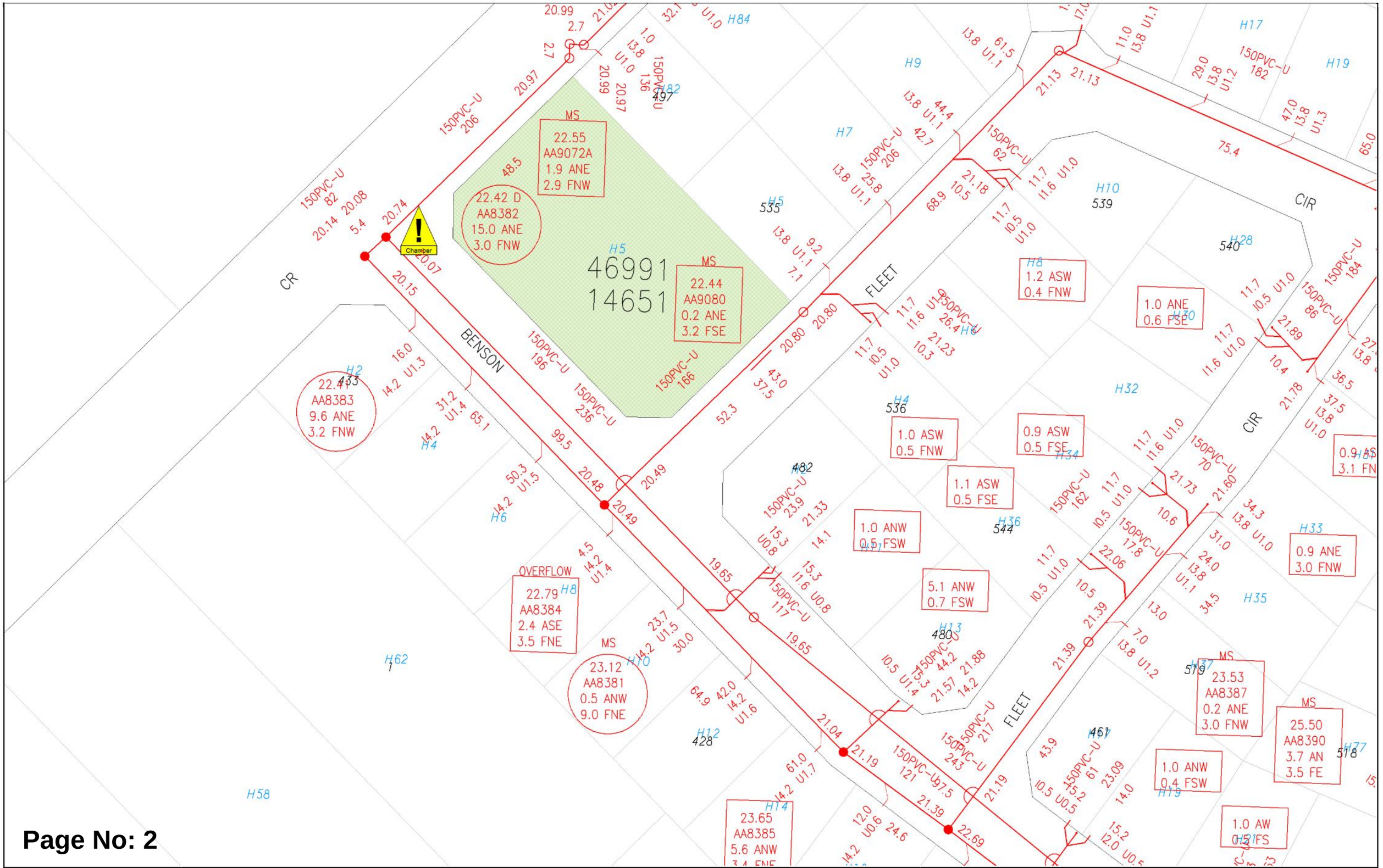
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WATER CORPORATION

Scale:	1:750
Job No.:	52425203
Sequence No.:	268549262
Print Date:	19 Feb 2026

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WATER CORPORATION

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8
H37
H50
H46
5
H29
9
H42
H38
H34
H25
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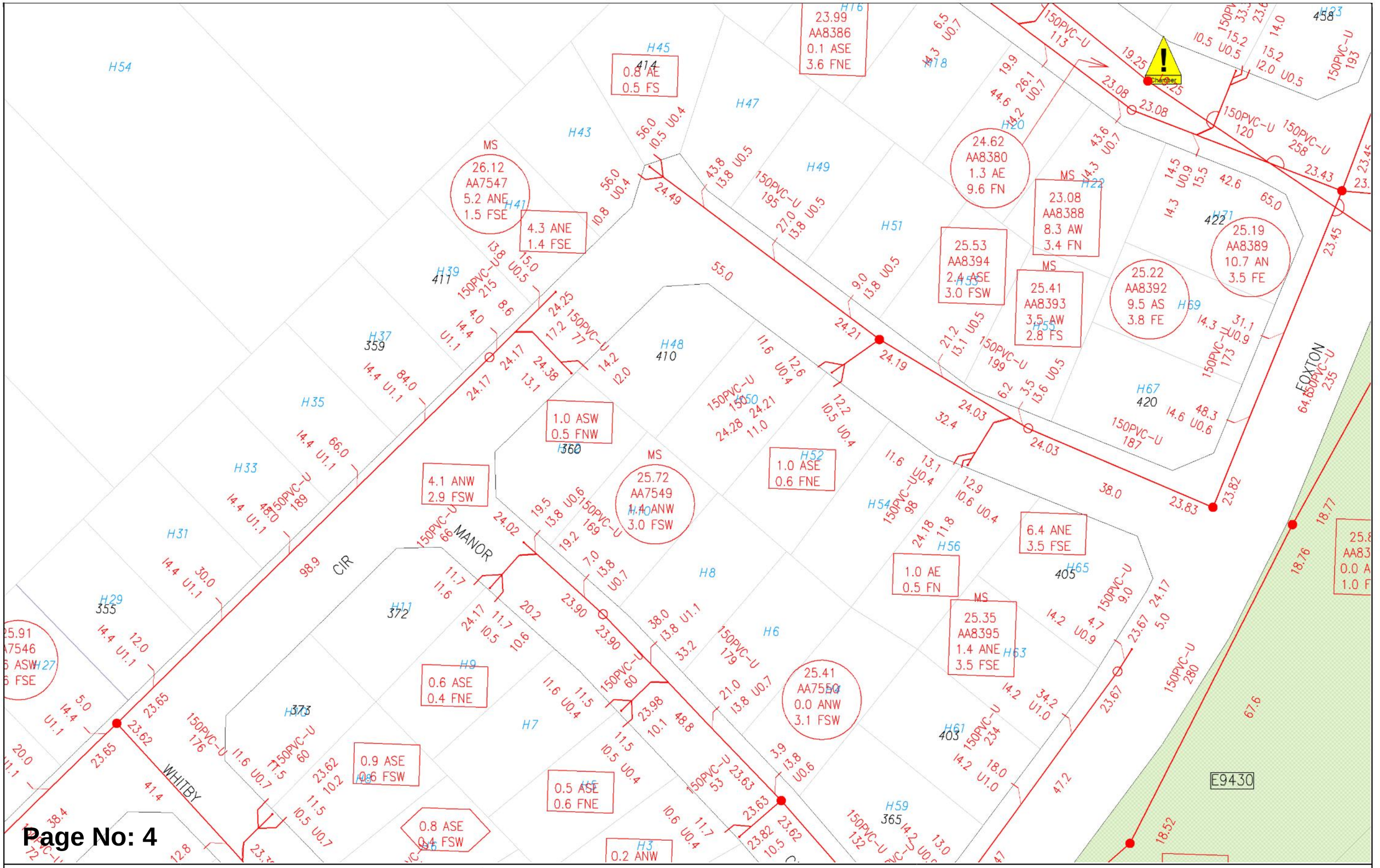
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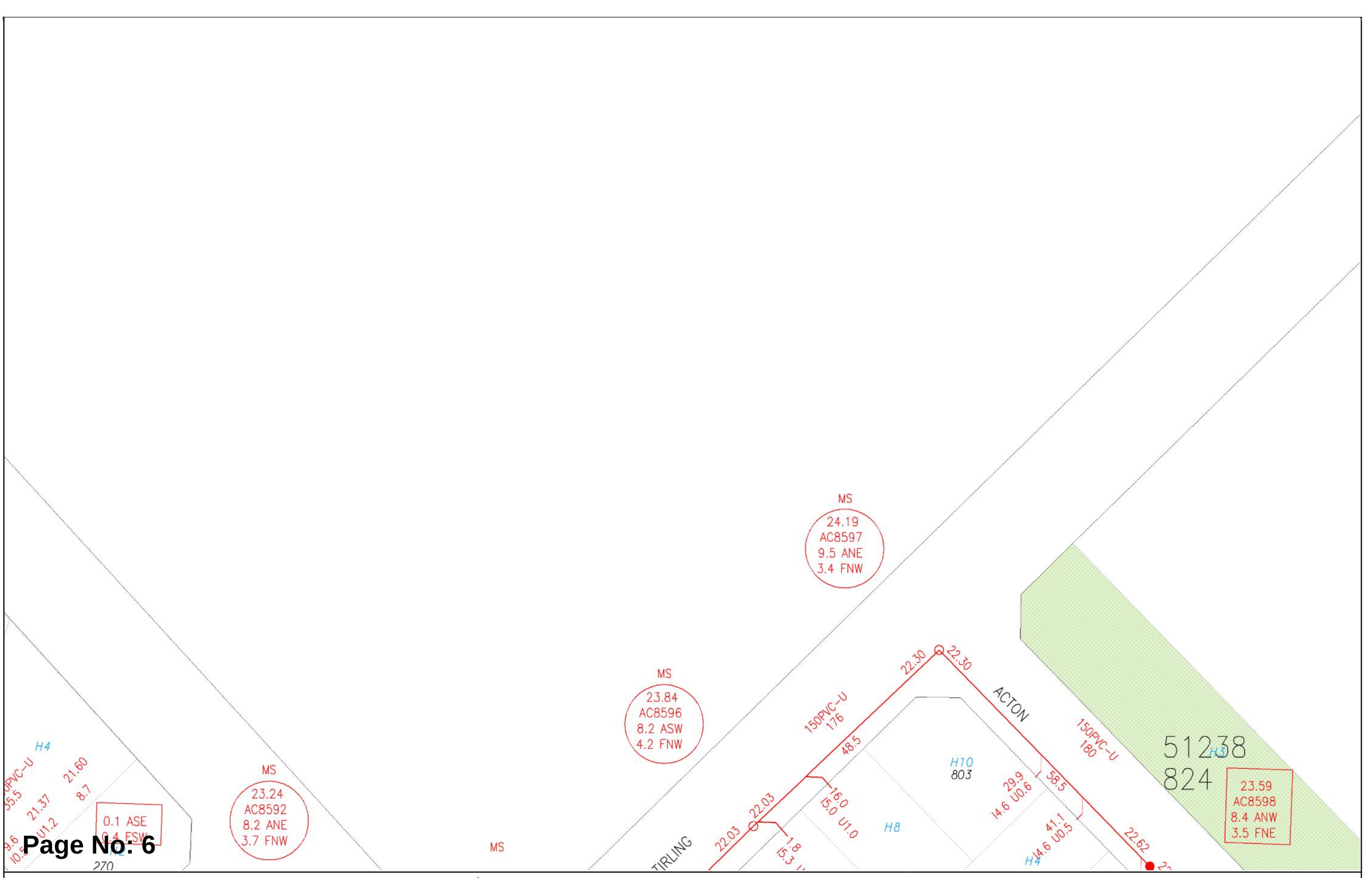
WATER CORPORATION

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Page No: 6

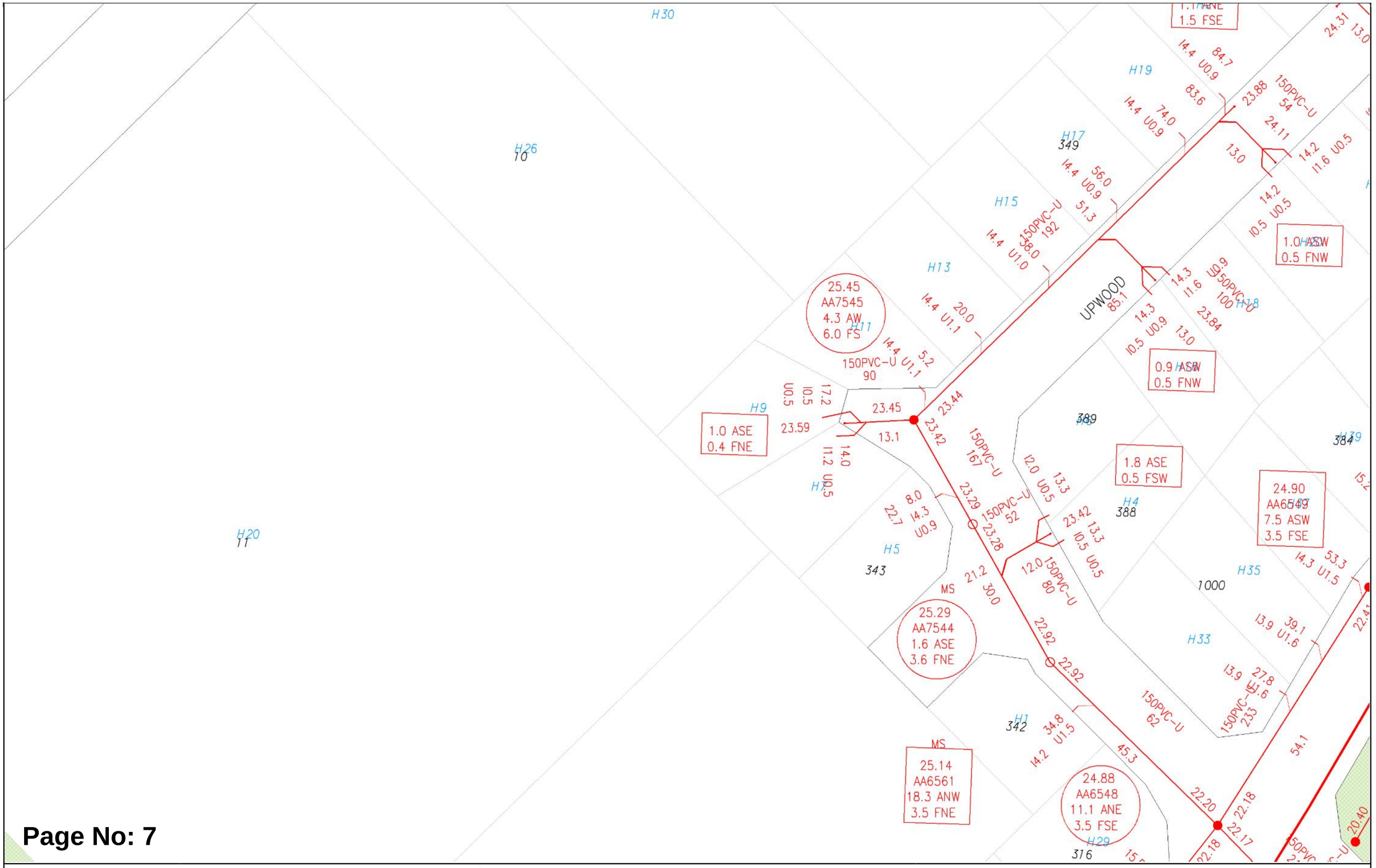
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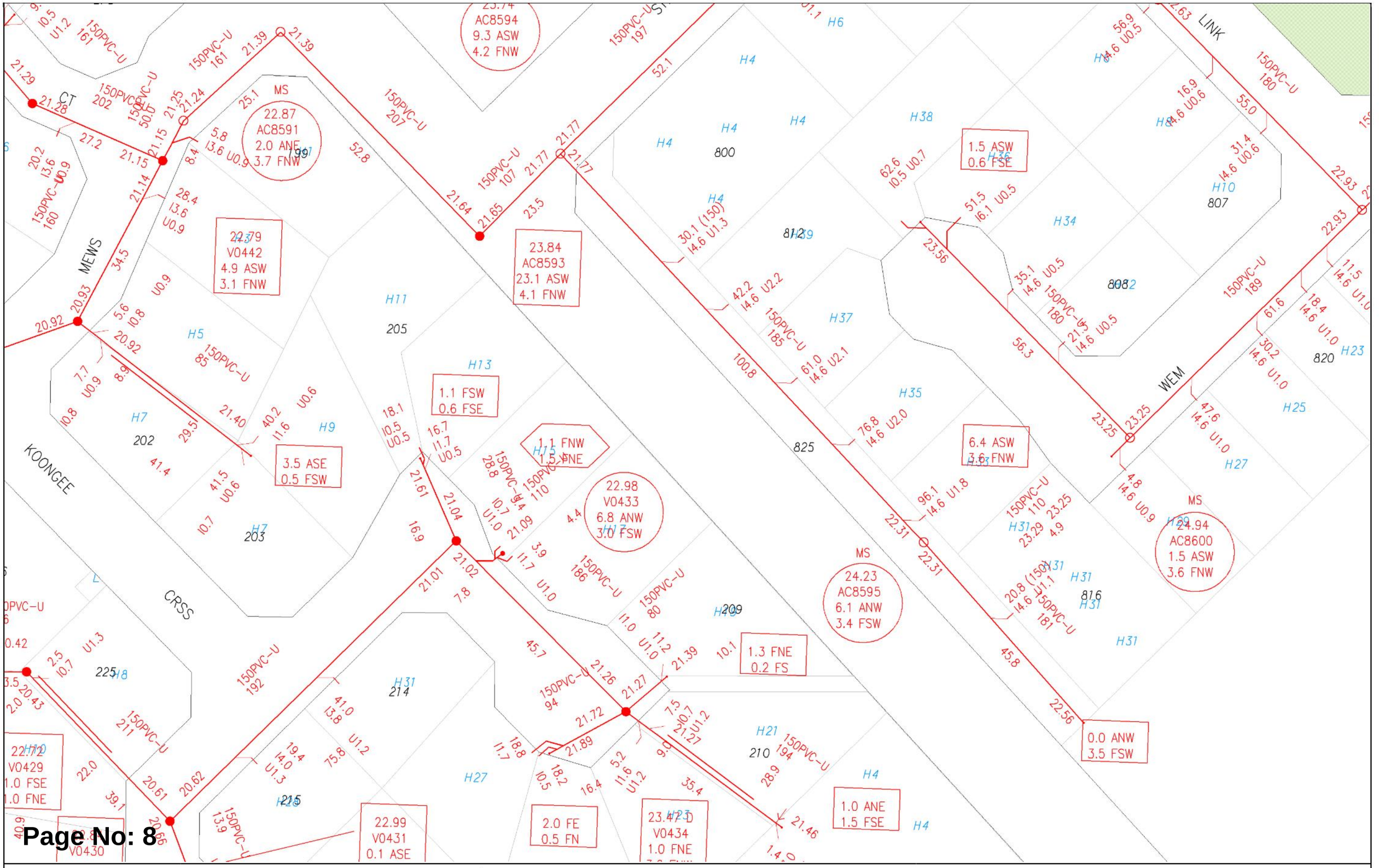


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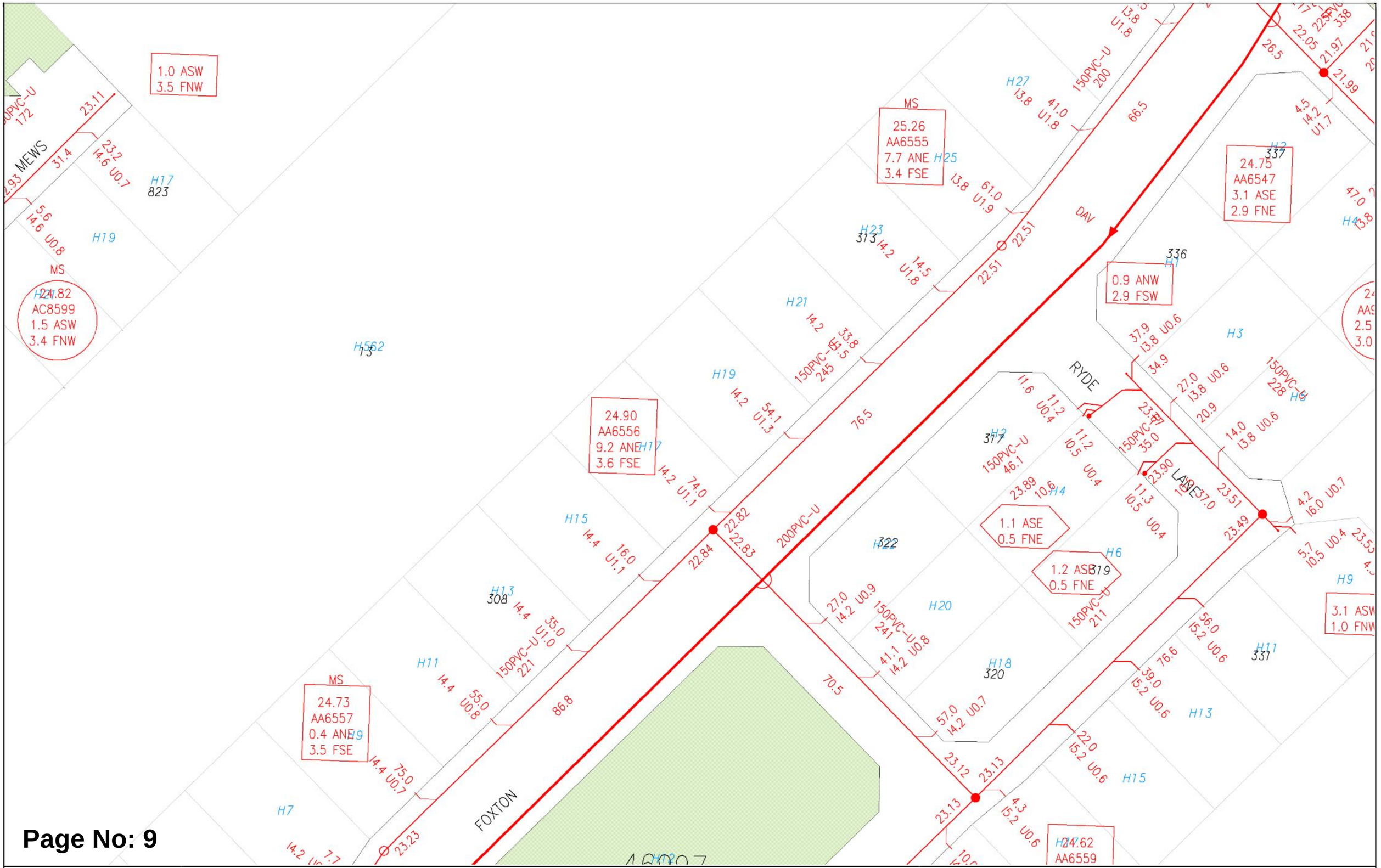
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WATER CORPORATION

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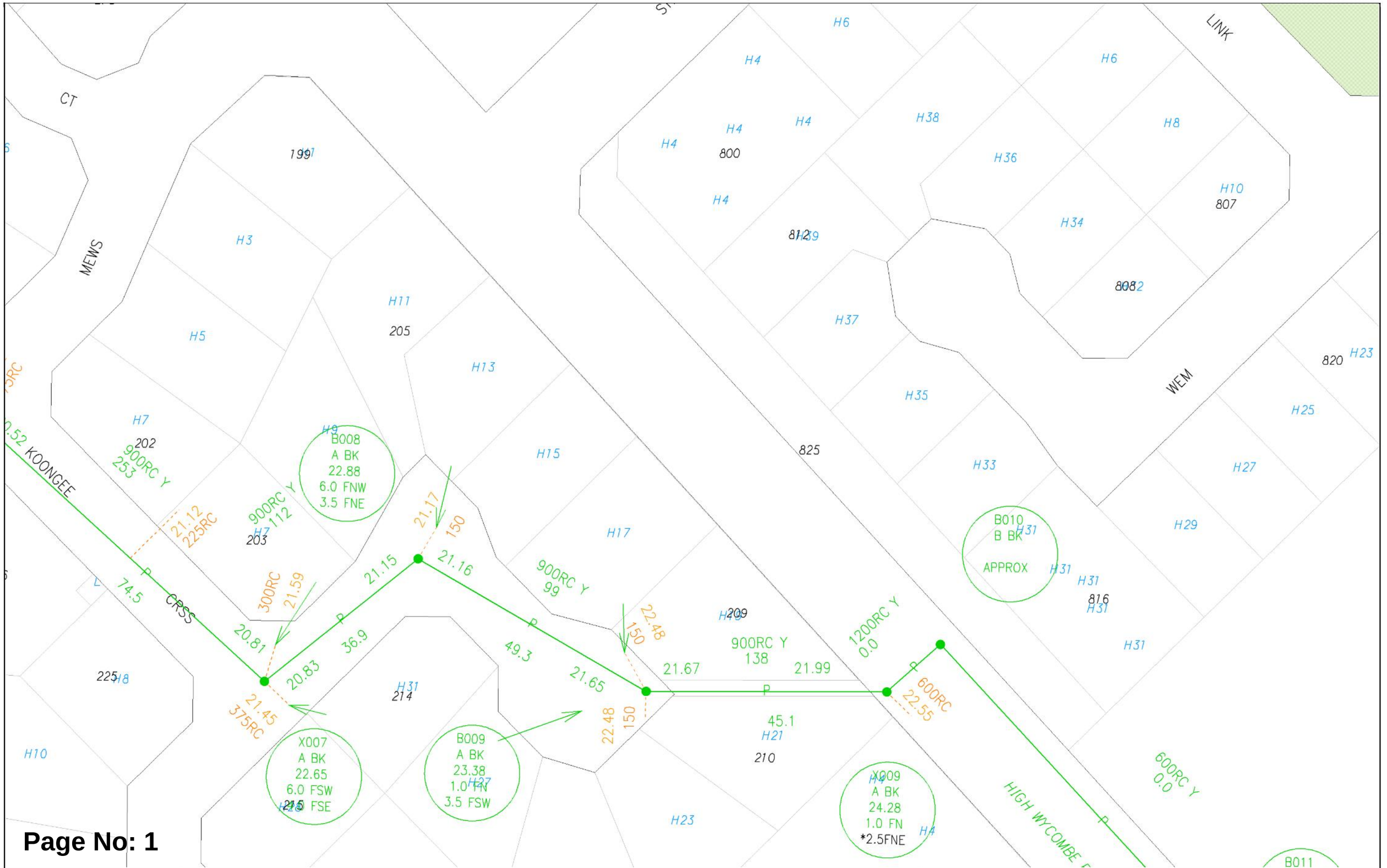
WATER CORPORATION

Scale: 1:4542
Job No.: 52425203
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Drainage

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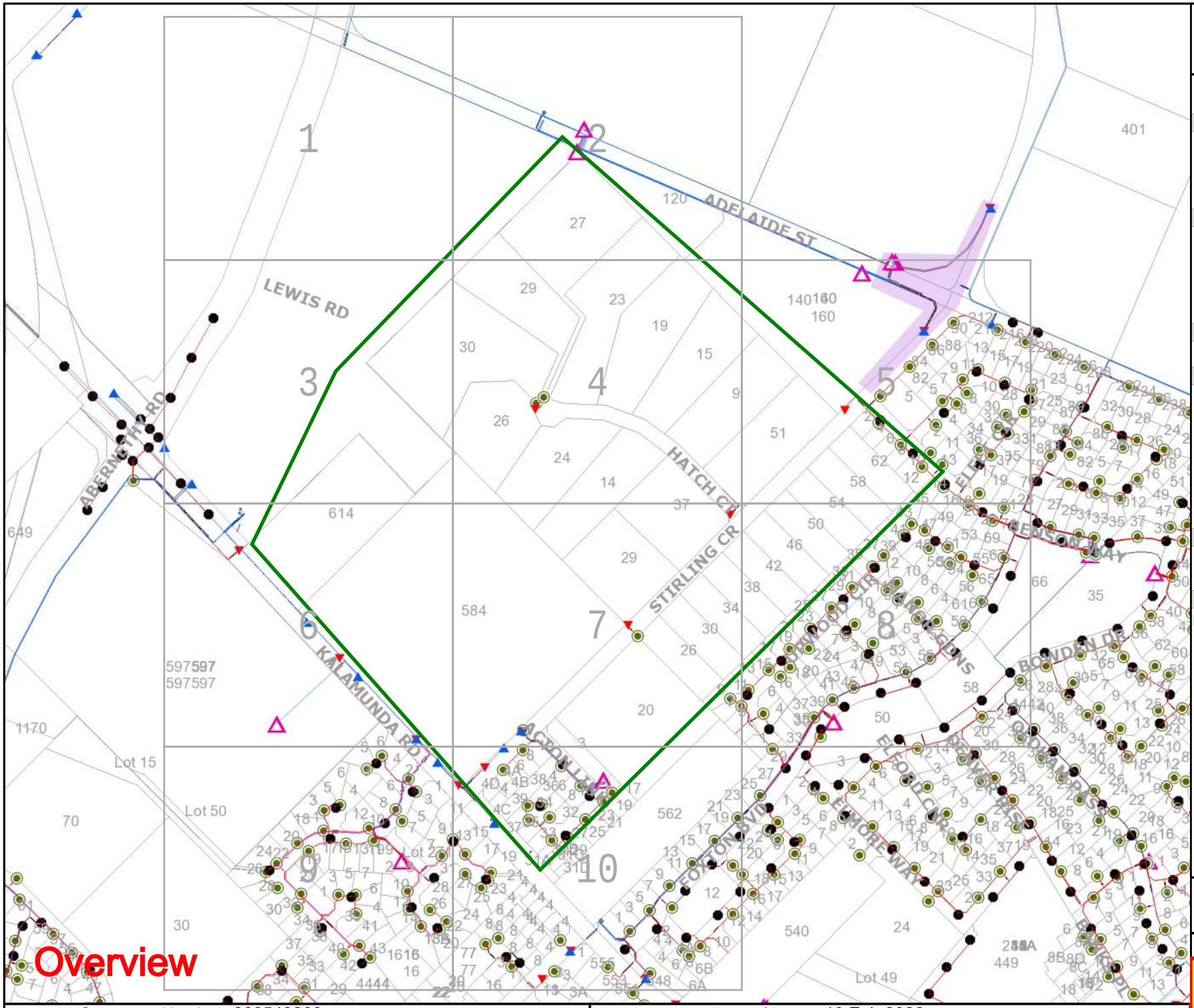
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WATER CORPORATION

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Drainage

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westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Hand exposure via pothole method is MANDATORY.

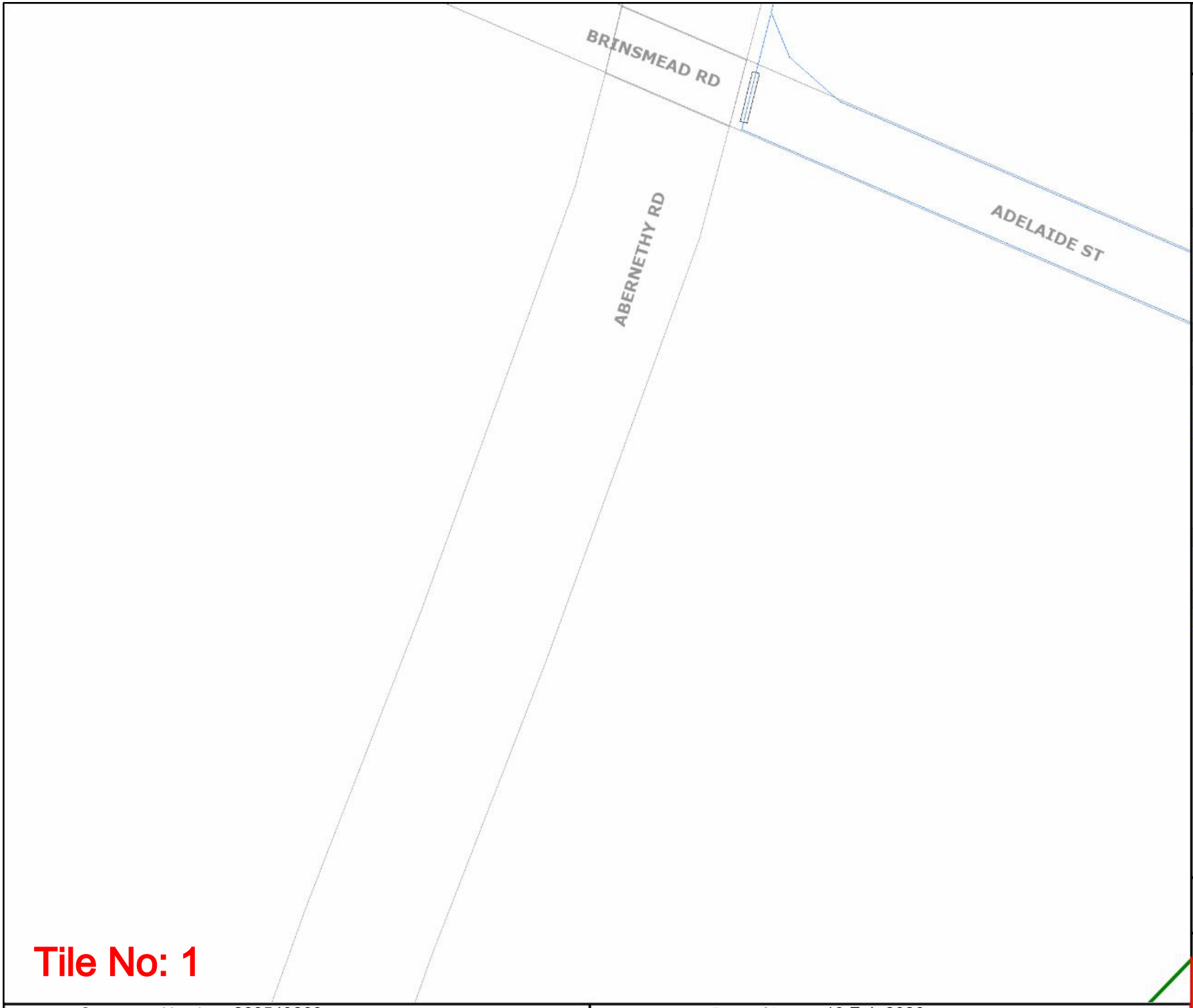
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Information valid for 30 days from date of issue

A4 | Scale : 1:6150

WARNING! Look out for overhead power lines

Sequence Number: 268549260 | Date of Issue: 19 Feb 2026



Tile No: 1

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- HV Termination
- Pillar
- LV Termination
- Transformer site

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

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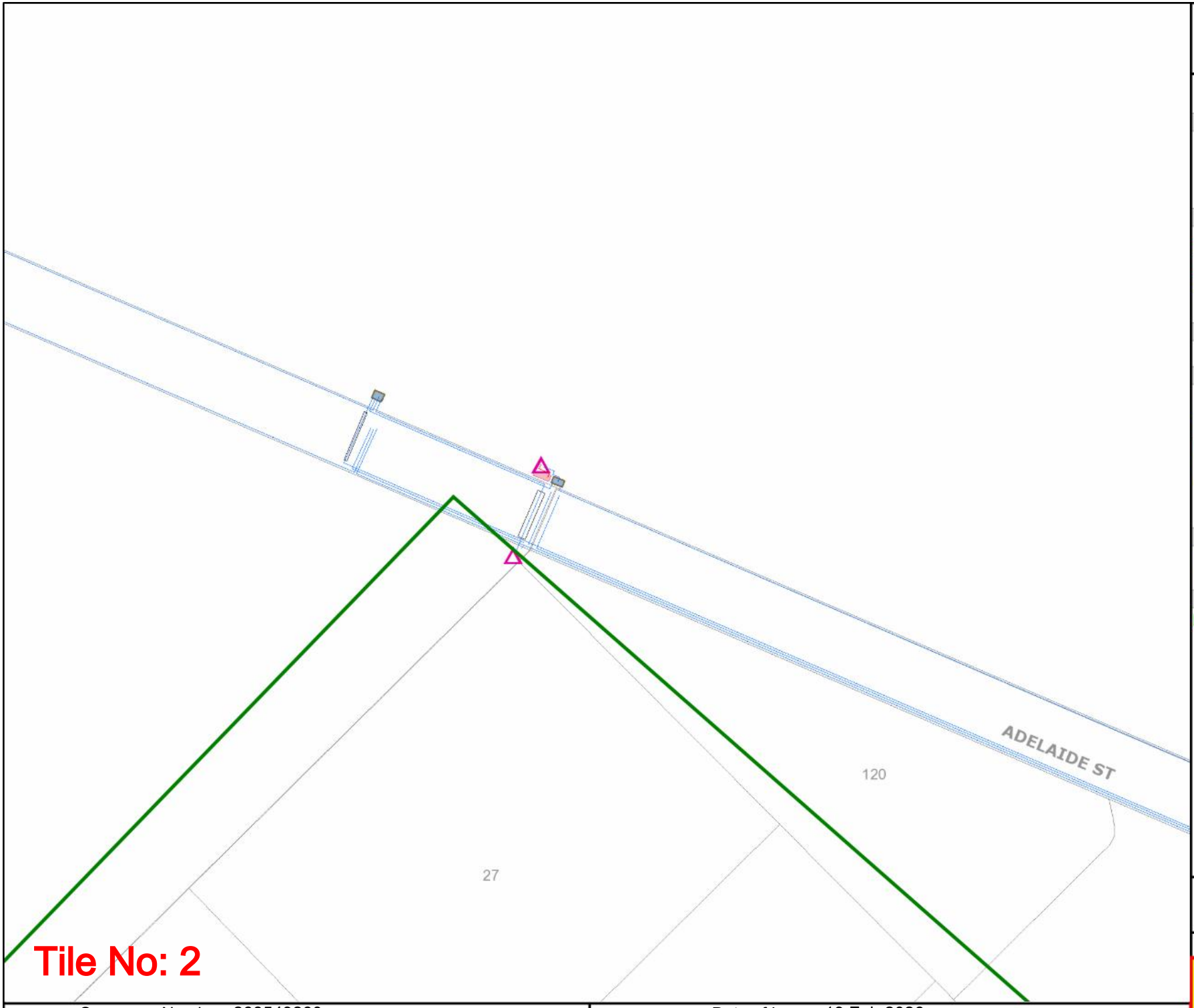
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A4 | Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260 | Date of Issue: 19 Feb 2026



Tile No: 2

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

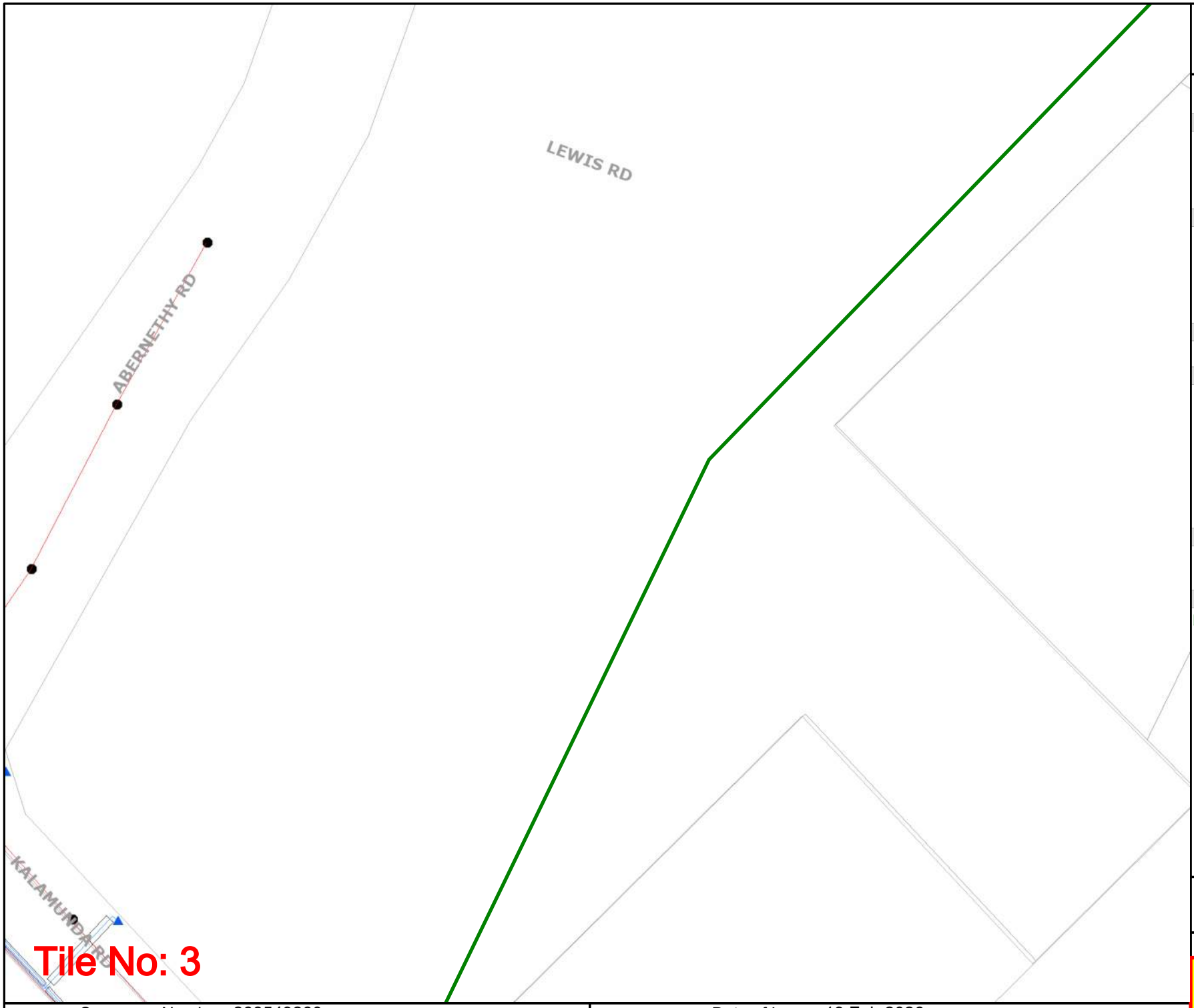
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Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



Tile No: 3

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

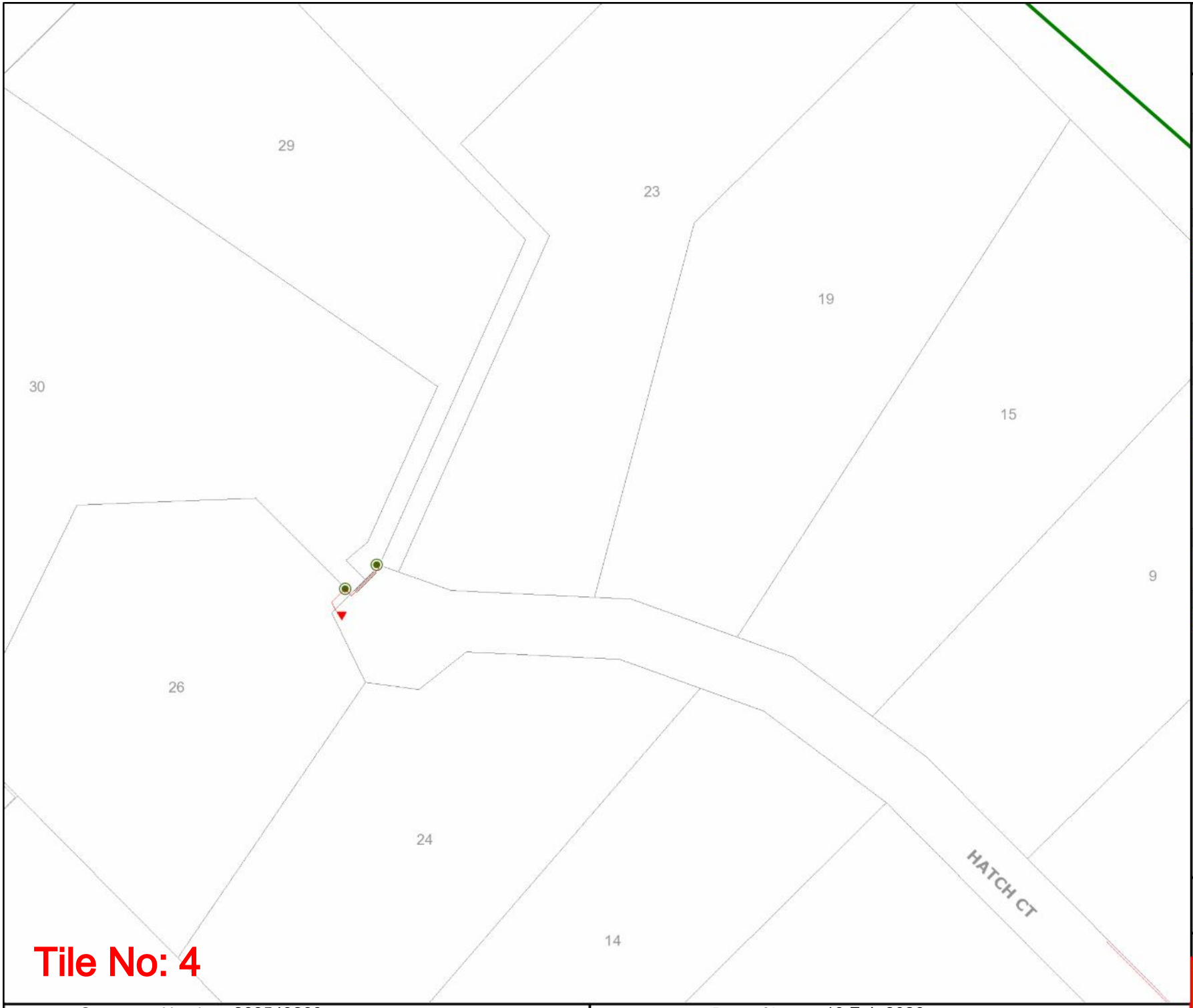
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Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



Tile No: 4

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

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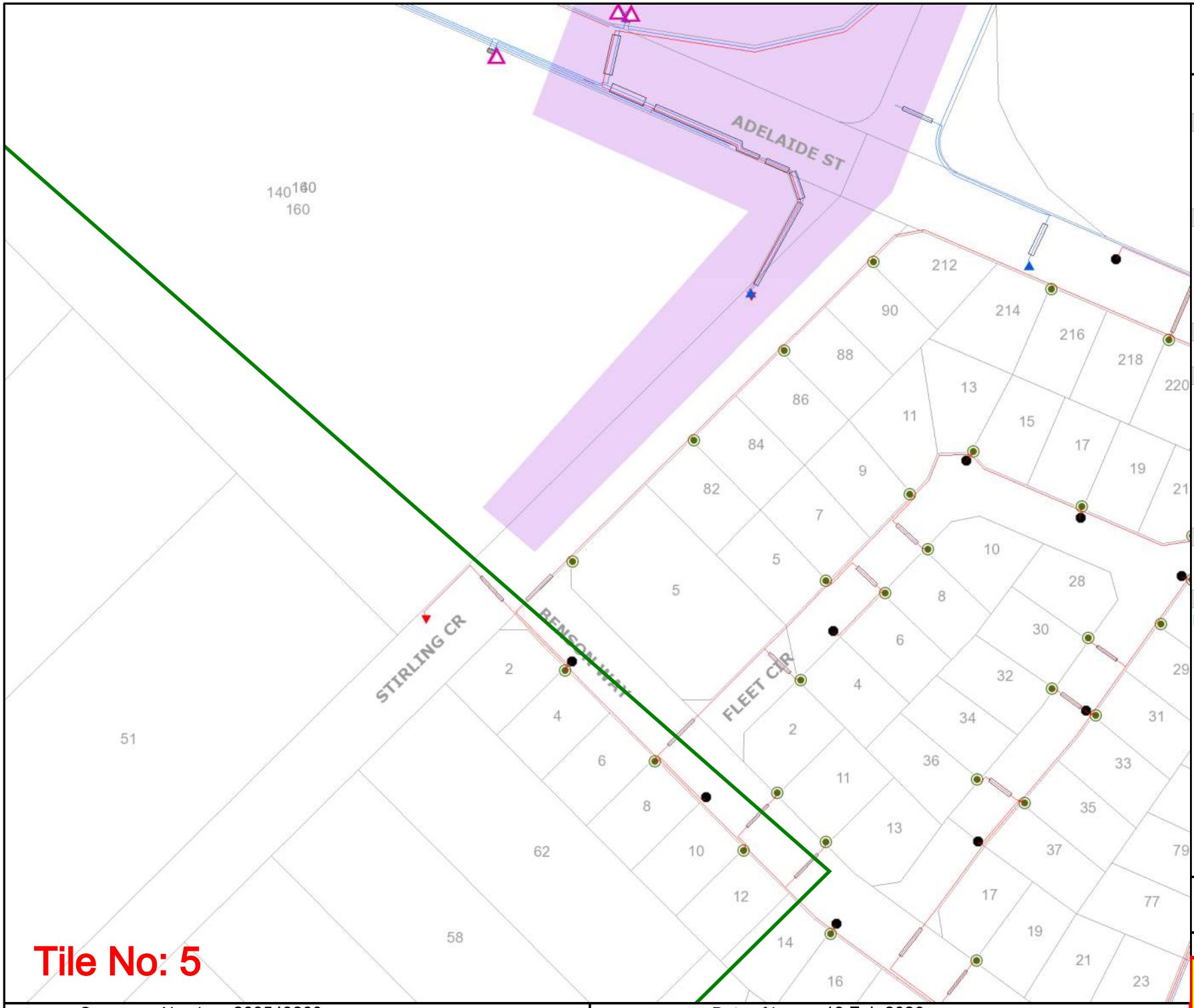
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

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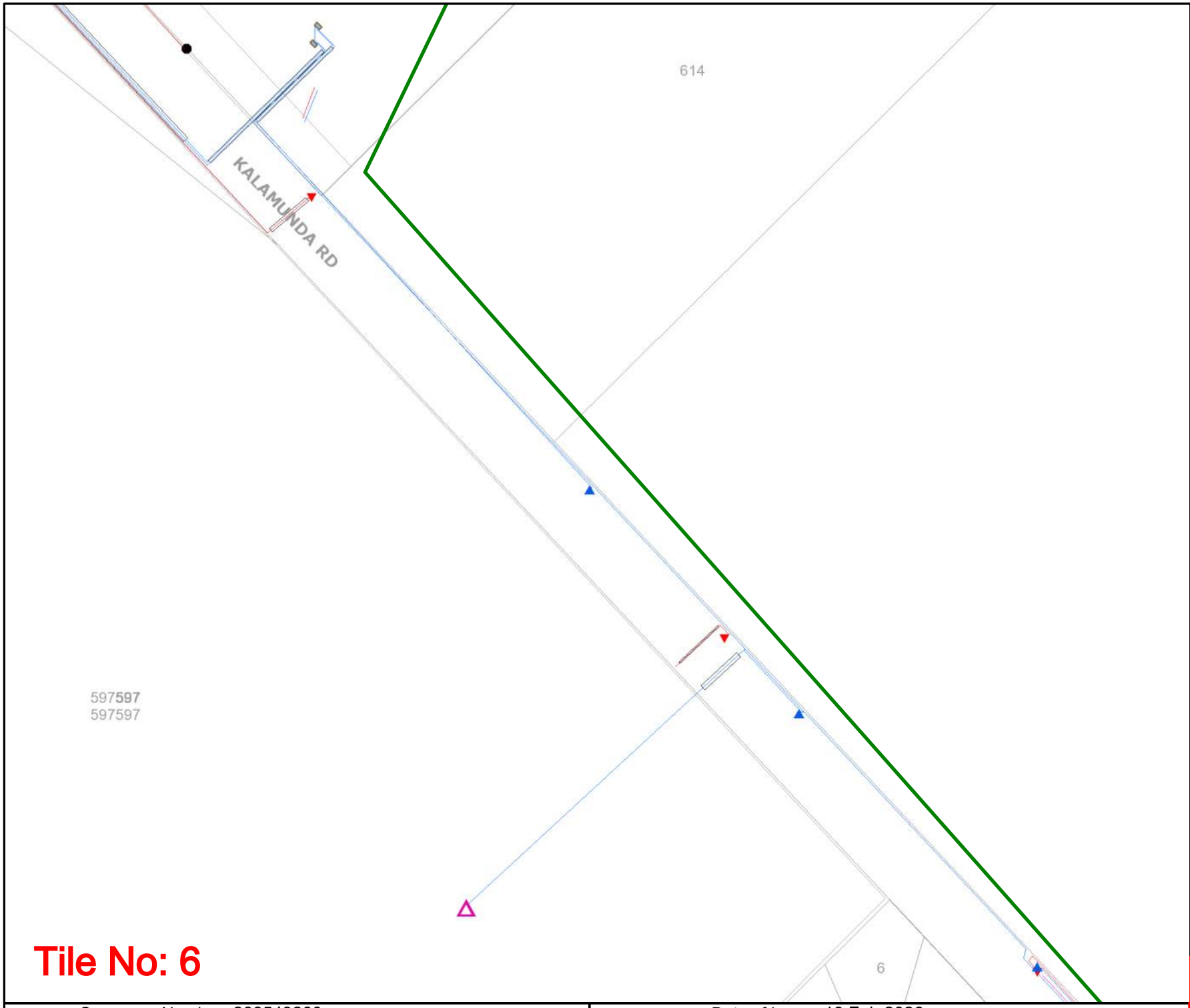
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A4	Scale : 1:1500

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Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 6

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

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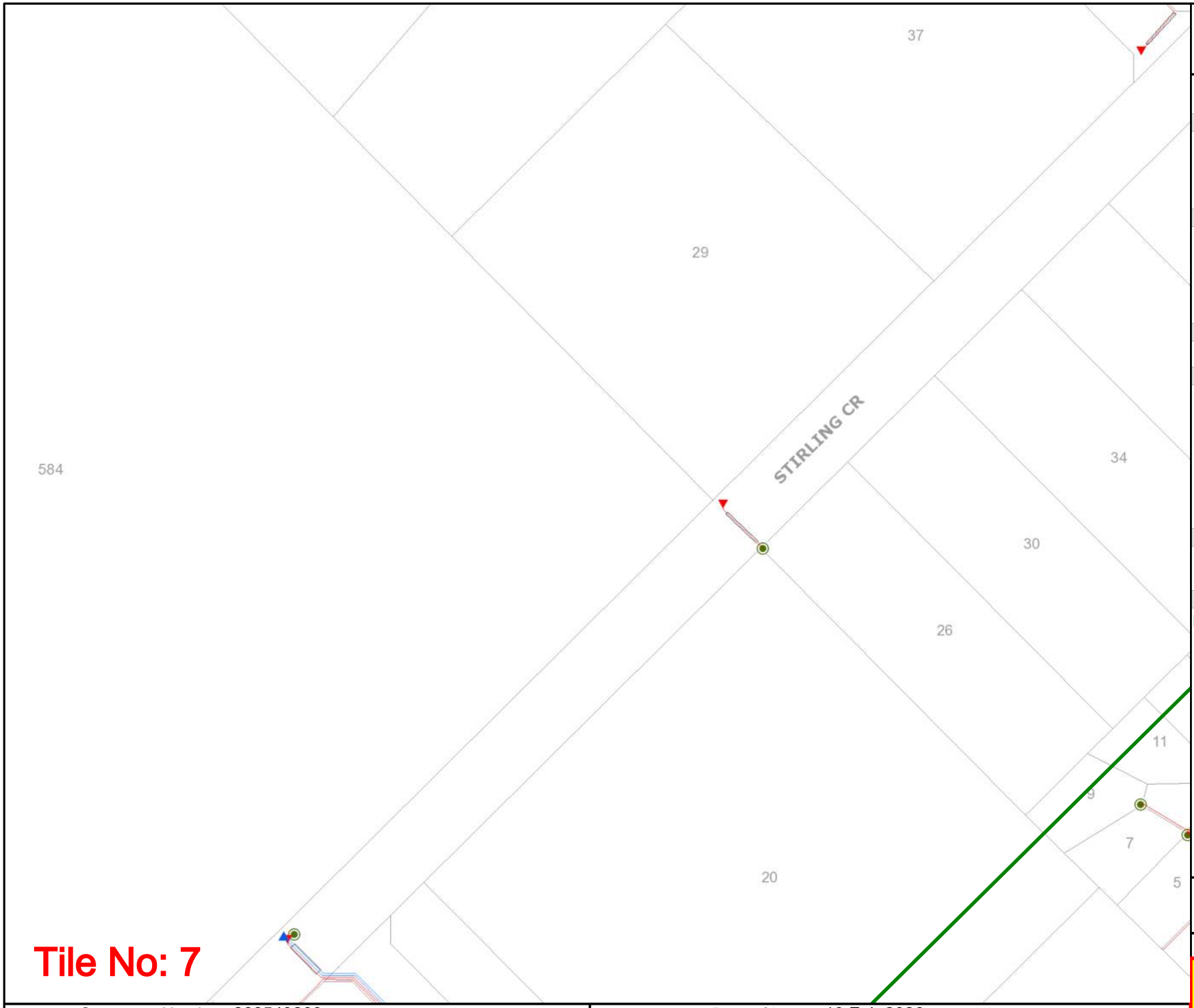
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 7

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

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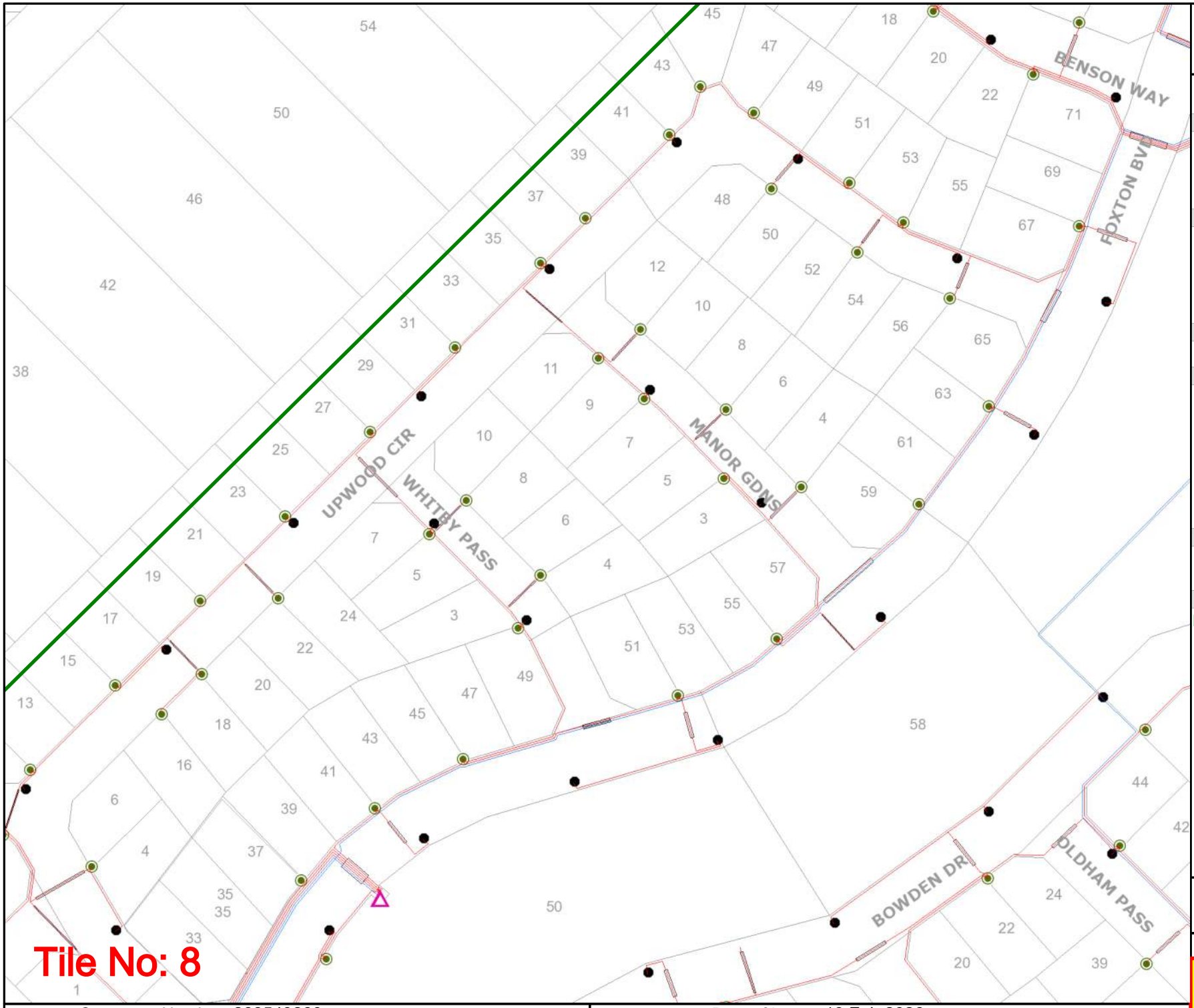
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 8

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

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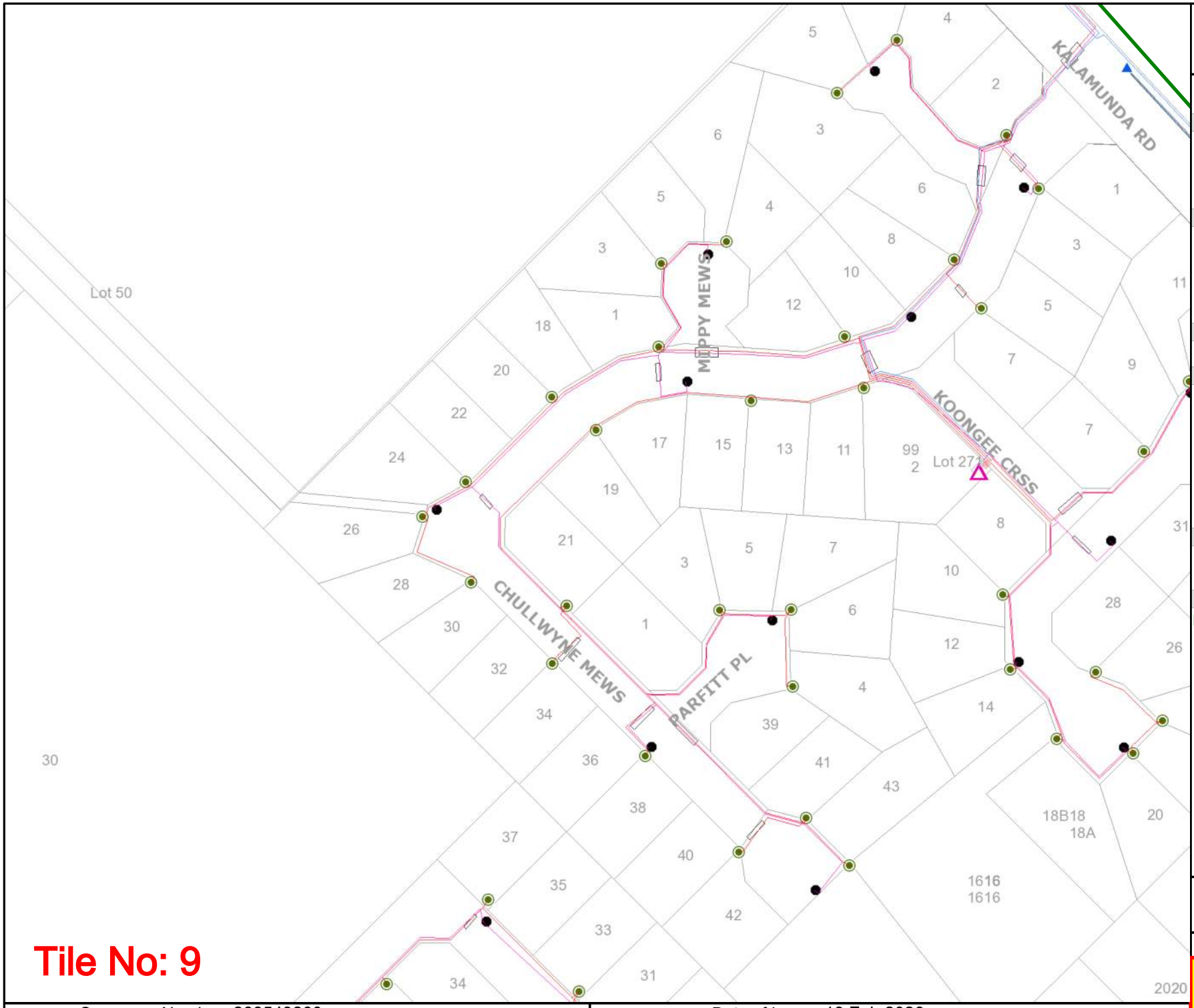
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Date of Issue: 19 Feb 2026



Tile No: 9

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

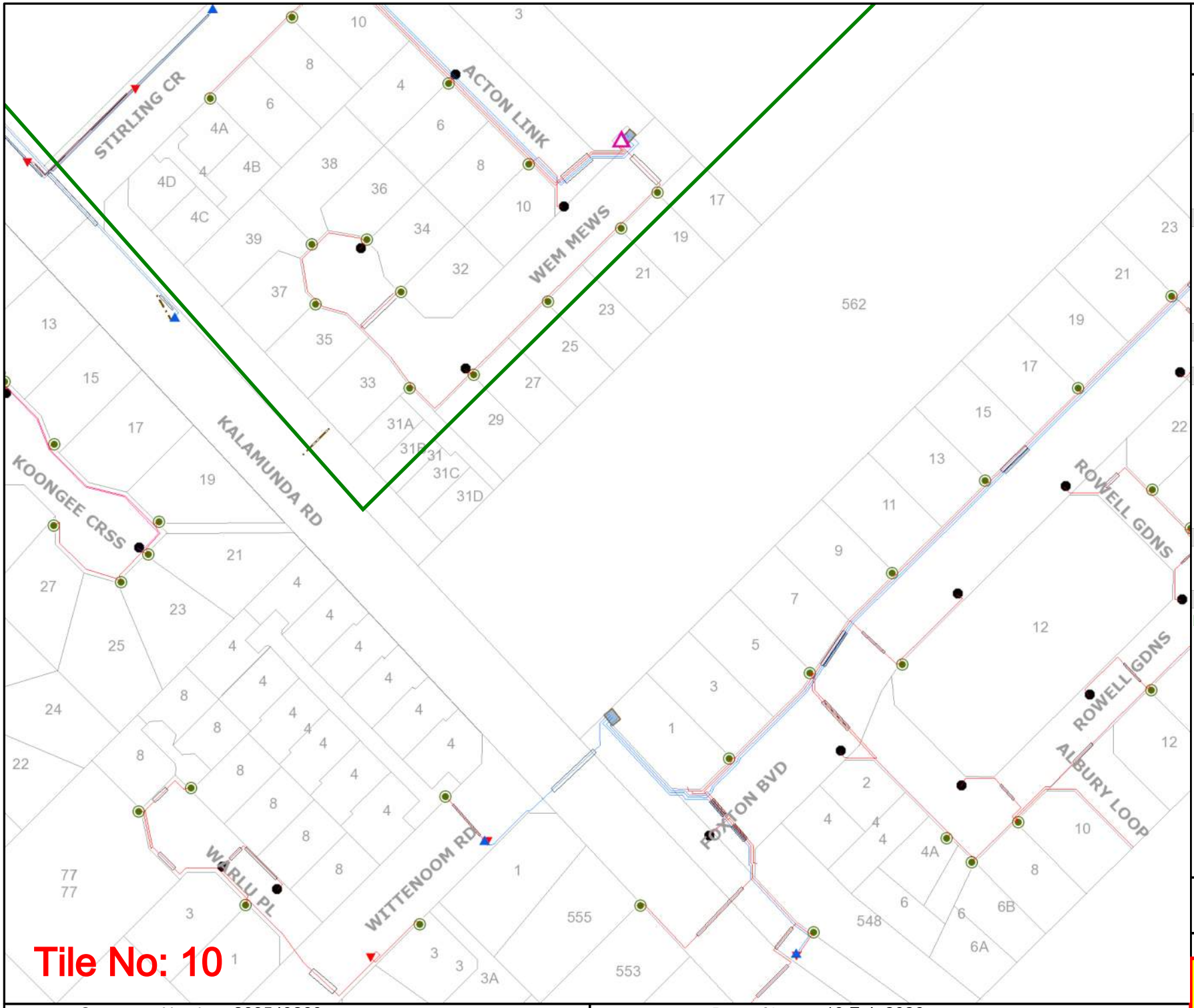
This map is INDICATIVE ONLY. Hand exposure via pothole method is MANDATORY.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



westernpower

UNDERGROUND LEGEND

Structures

- Pillar
- Metal Pole
- Transformer Site
- UG Crossing *
- Ring Main Unit
- LV Distribution Frame

Distribution Cables

- High Voltage Cable (1kV - 33kV)
- Low Voltage Cable (< 1kV)
- Street Light Circuit (< 1kV)
- Street Light Pilot (< 1kV)
- Earth Wire

Cable Pole Terminations

- HV Termination
- LV Termination

Proposed Construction Assets

- Design Area *
- High Voltage Underground Cable
- Low Voltage Underground Cable
- Metal Pole
- Pillar
- Transformer site
- HV Termination
- LV Termination

State Underground Power Project

- CURRENT Work Area *
- COMPLETED Area *

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

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Mon to Fri - 08:00 to 16:30

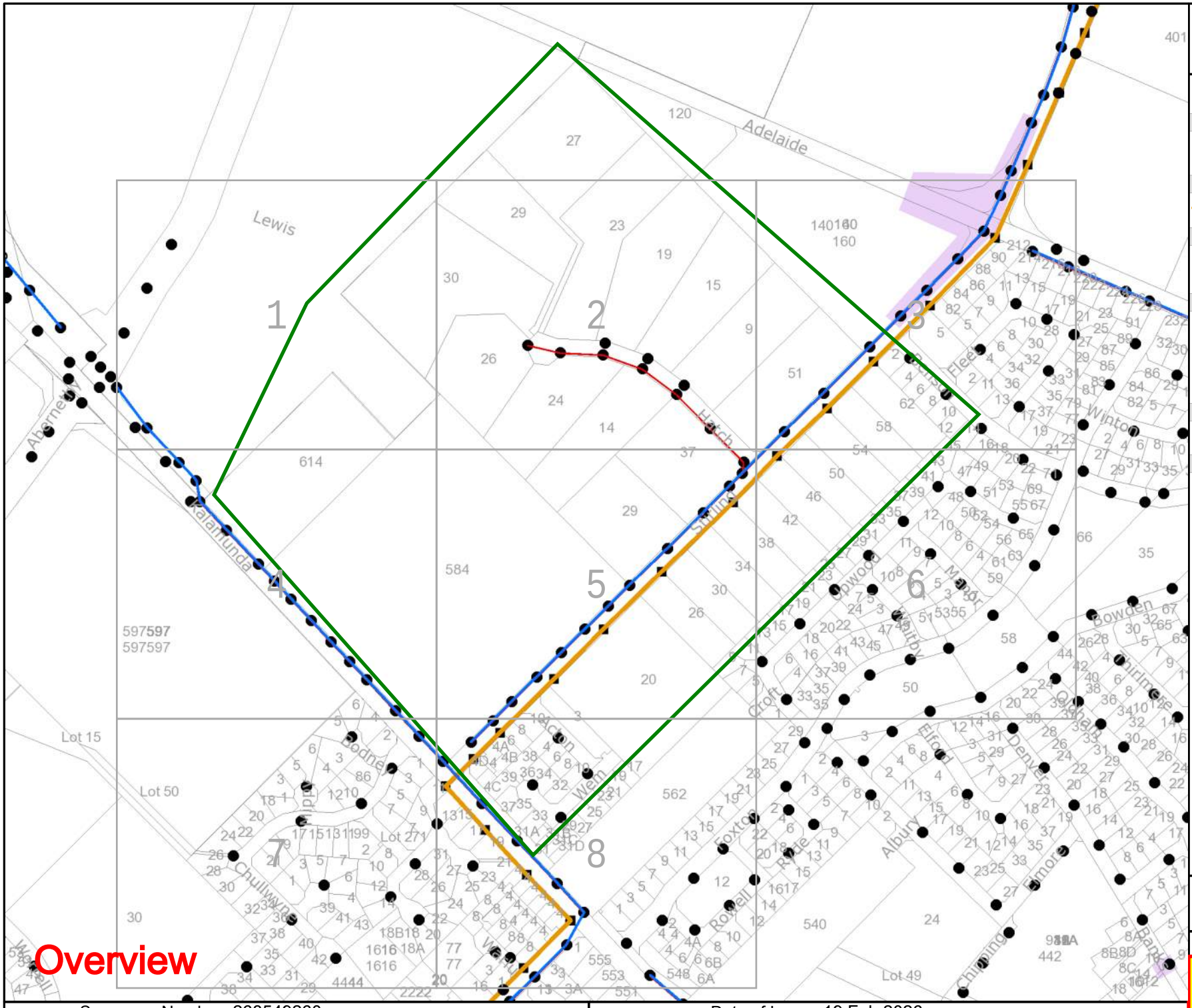
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

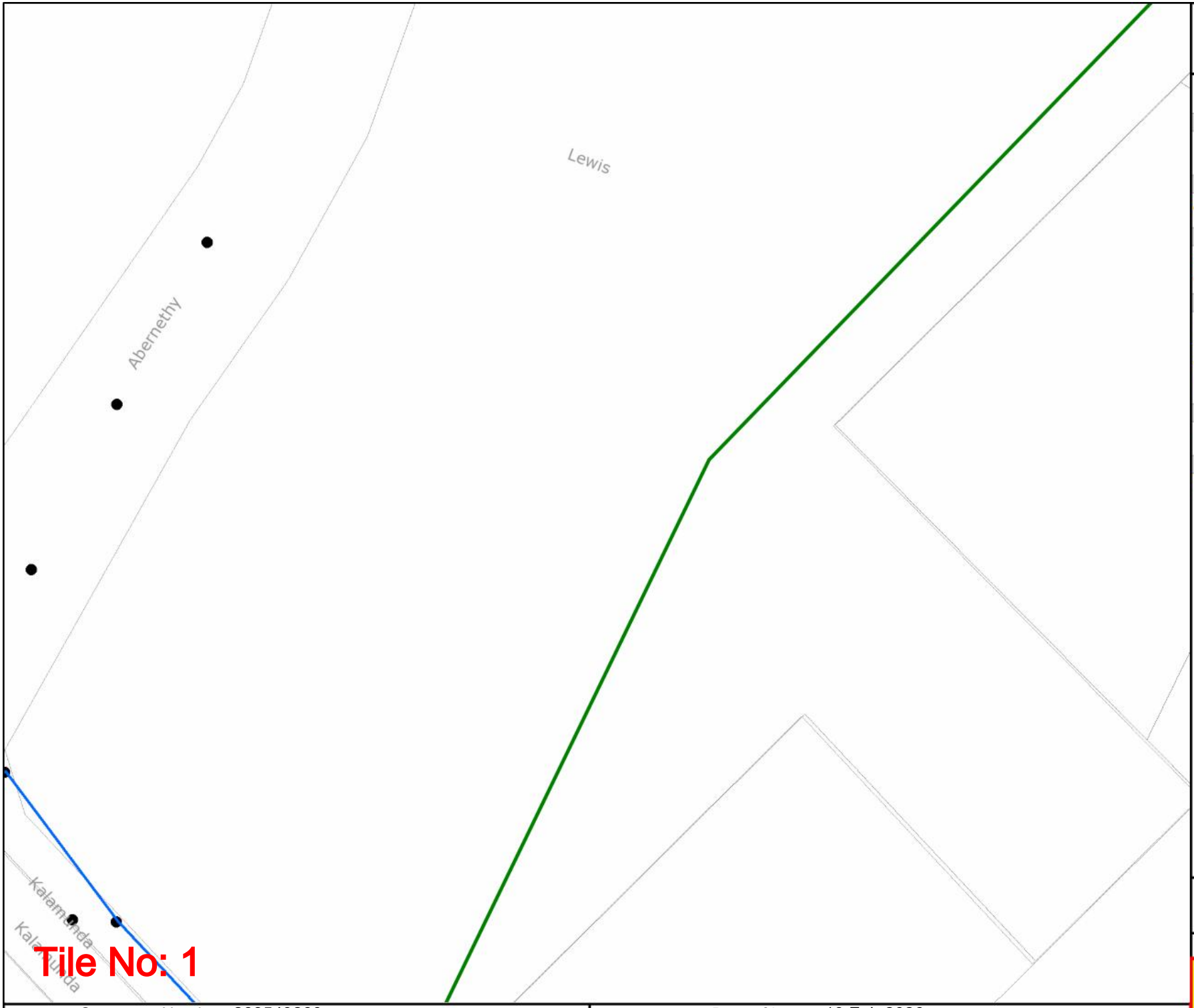
Information valid for 30 days from date of issue

A4 | Scale : 1:5546

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 1

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

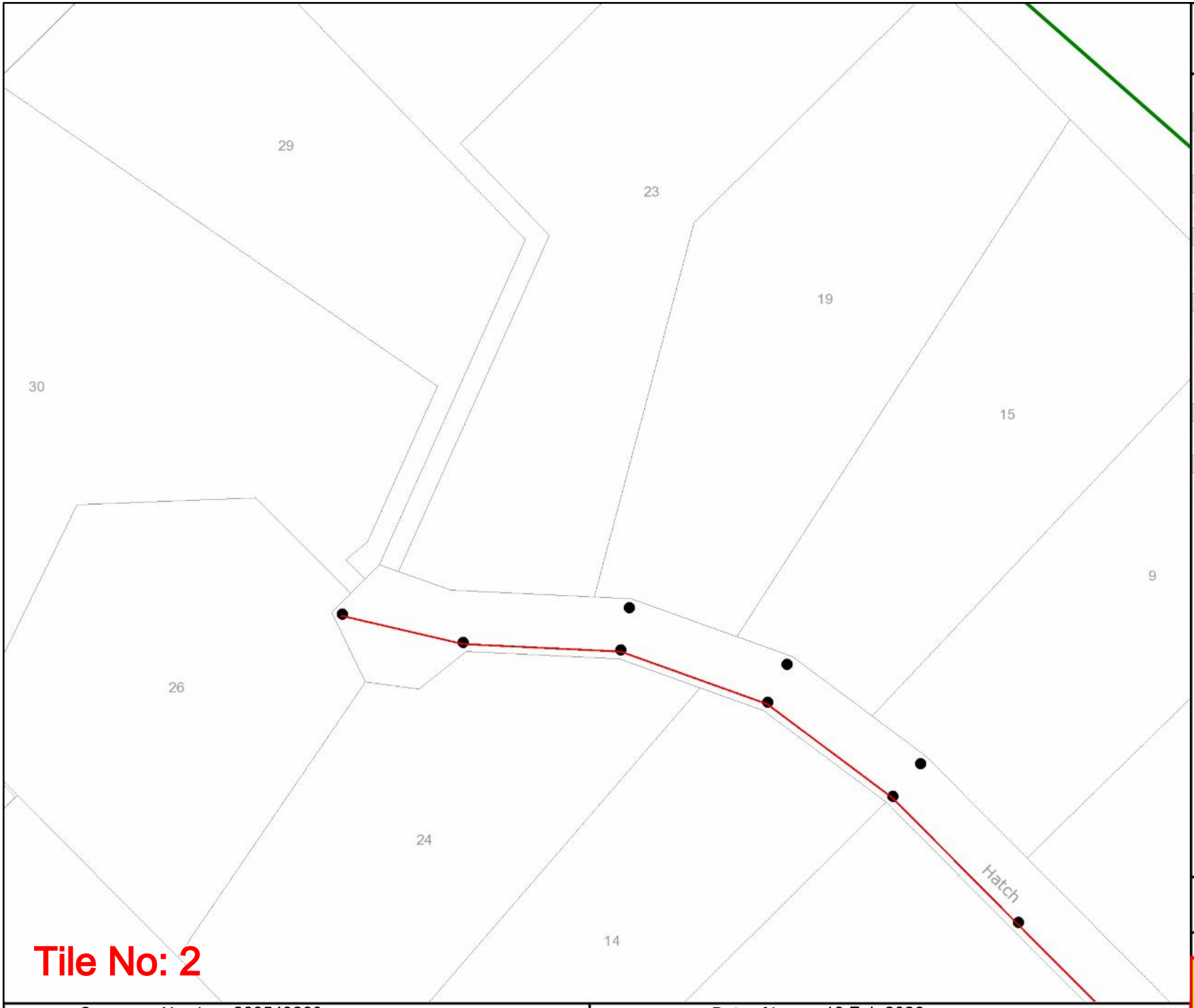
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 2

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
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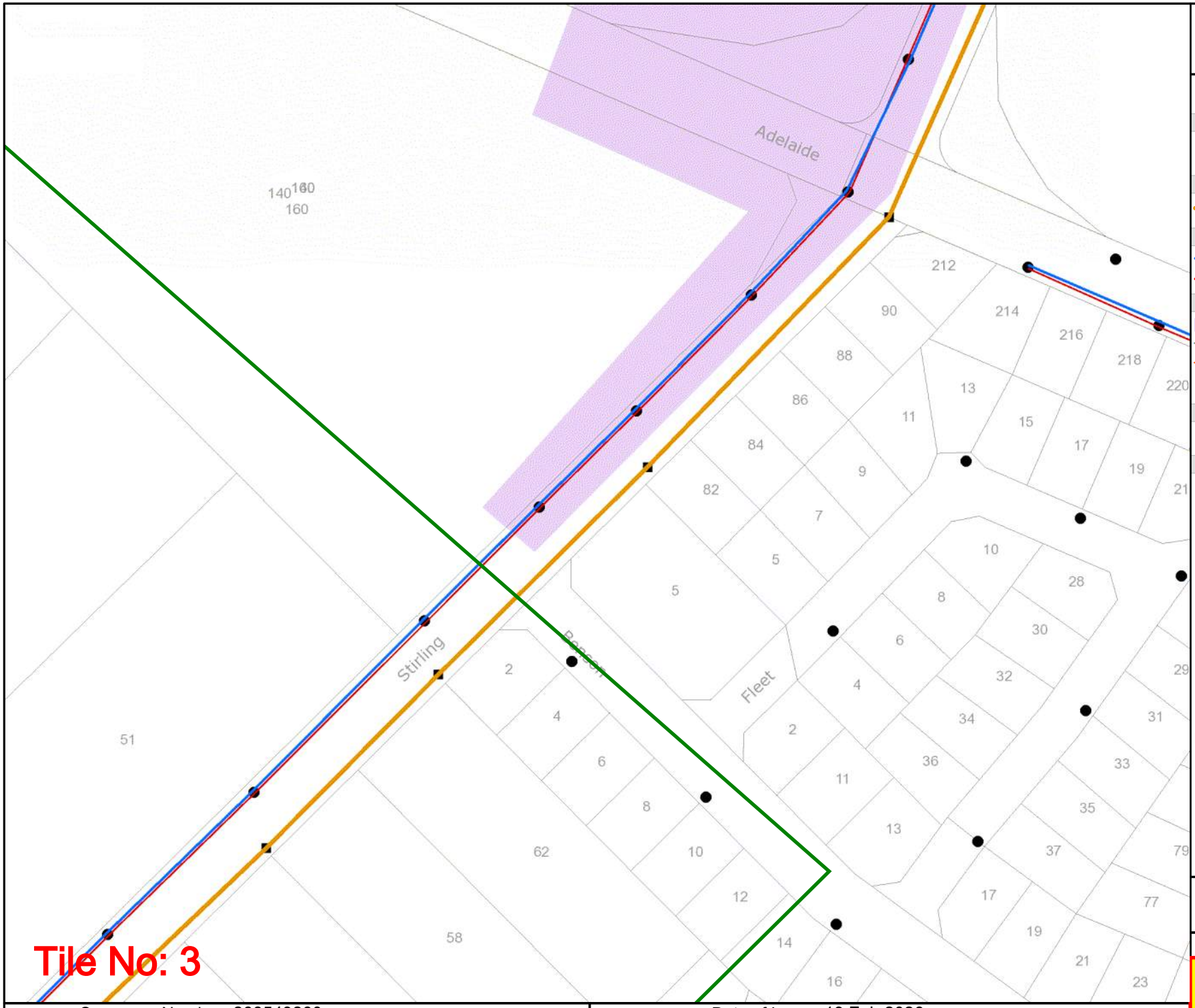
Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

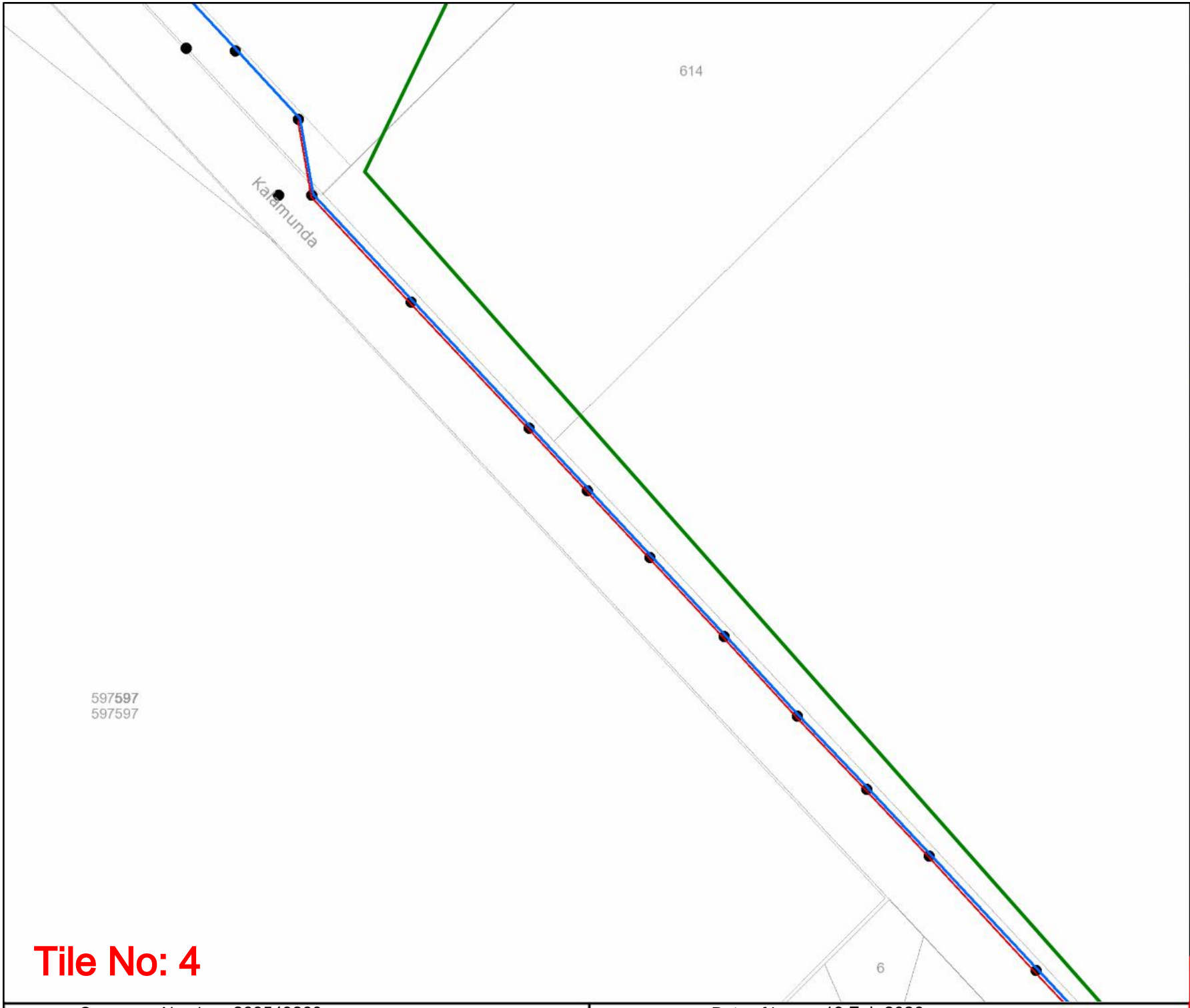
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 4

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

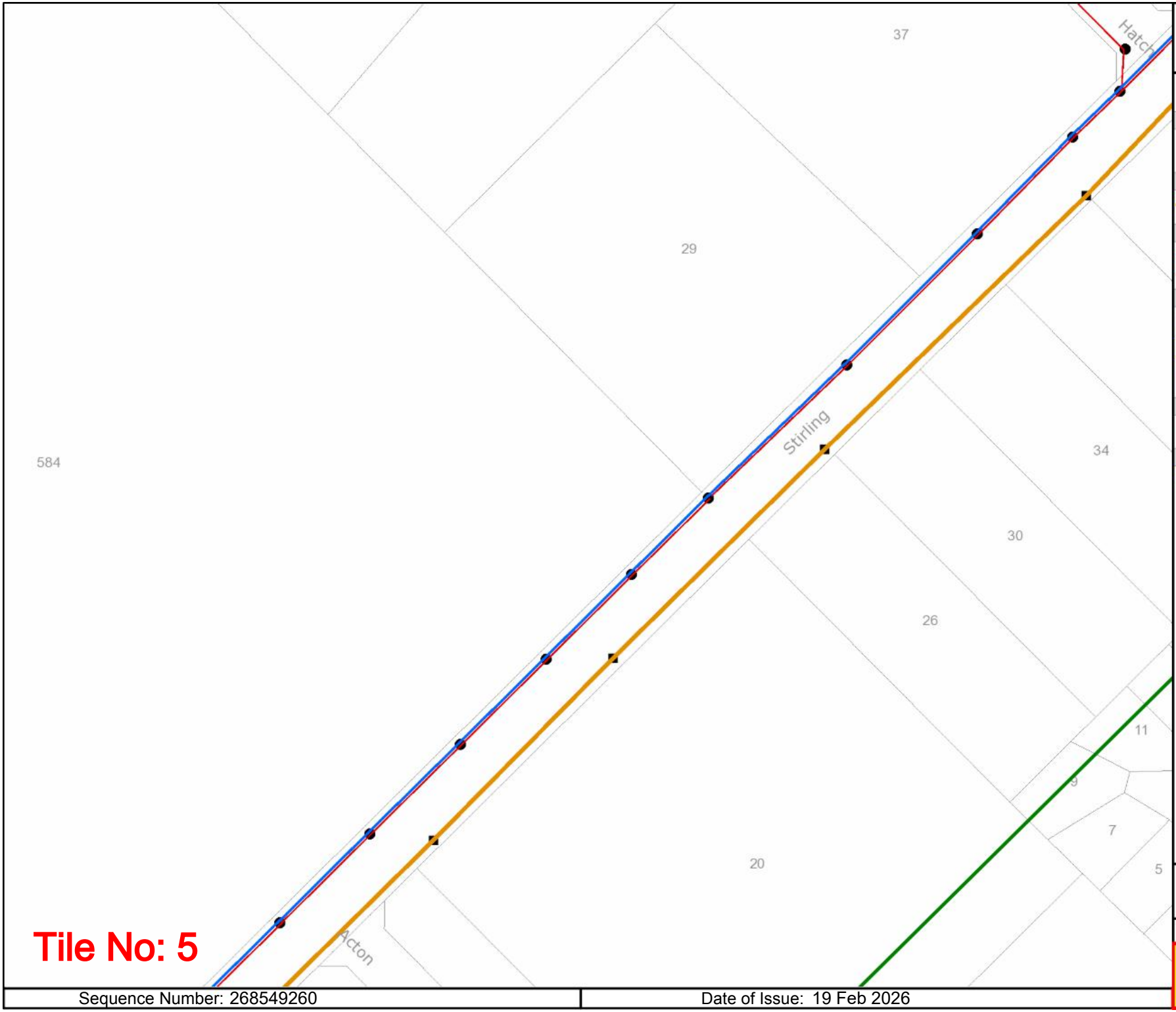
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
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Information valid for 30 days from date of issue

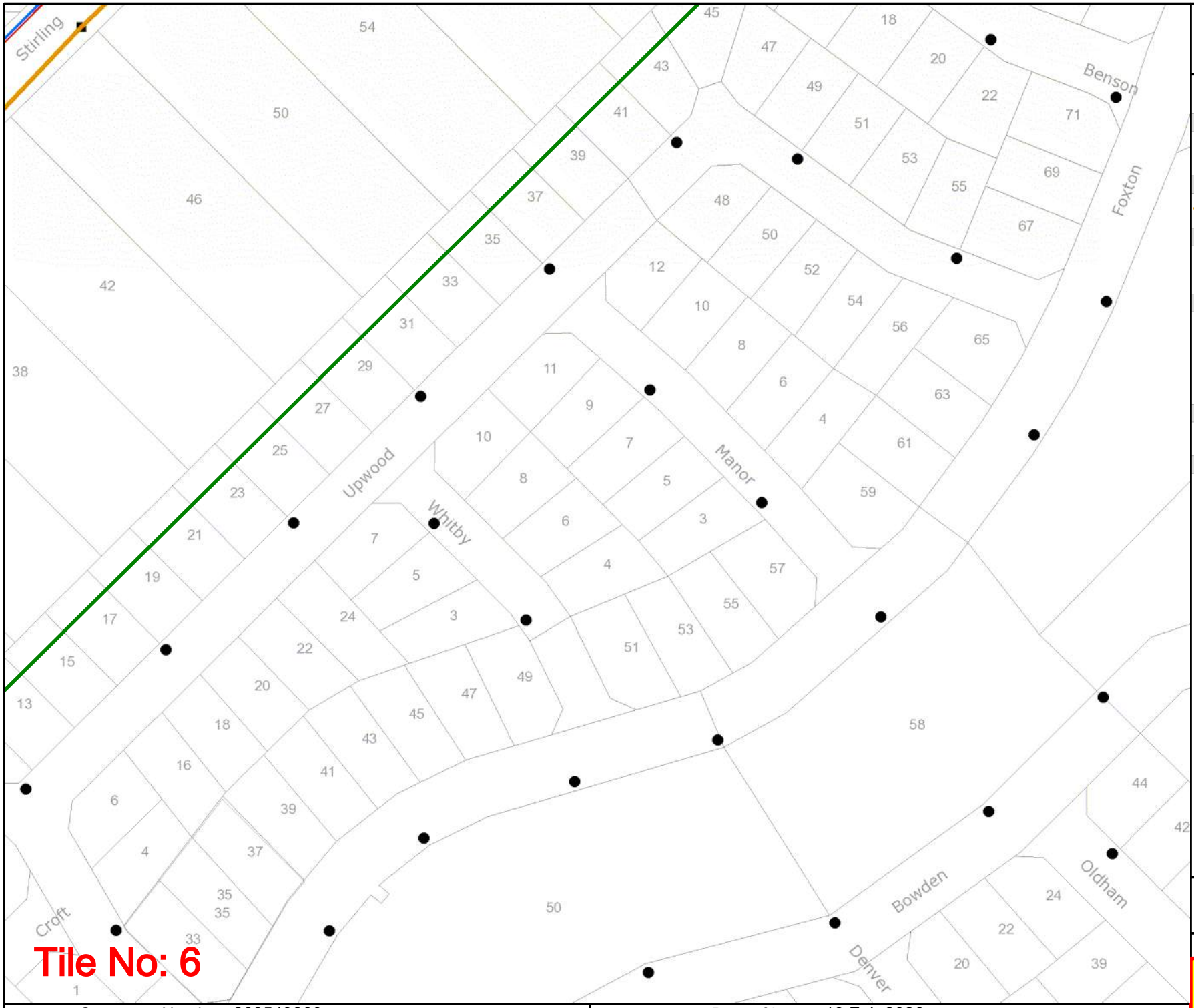
A4 | Scale : 1:1500

WARNING! Look out for overhead power lines

Tile No: 5

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 6

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

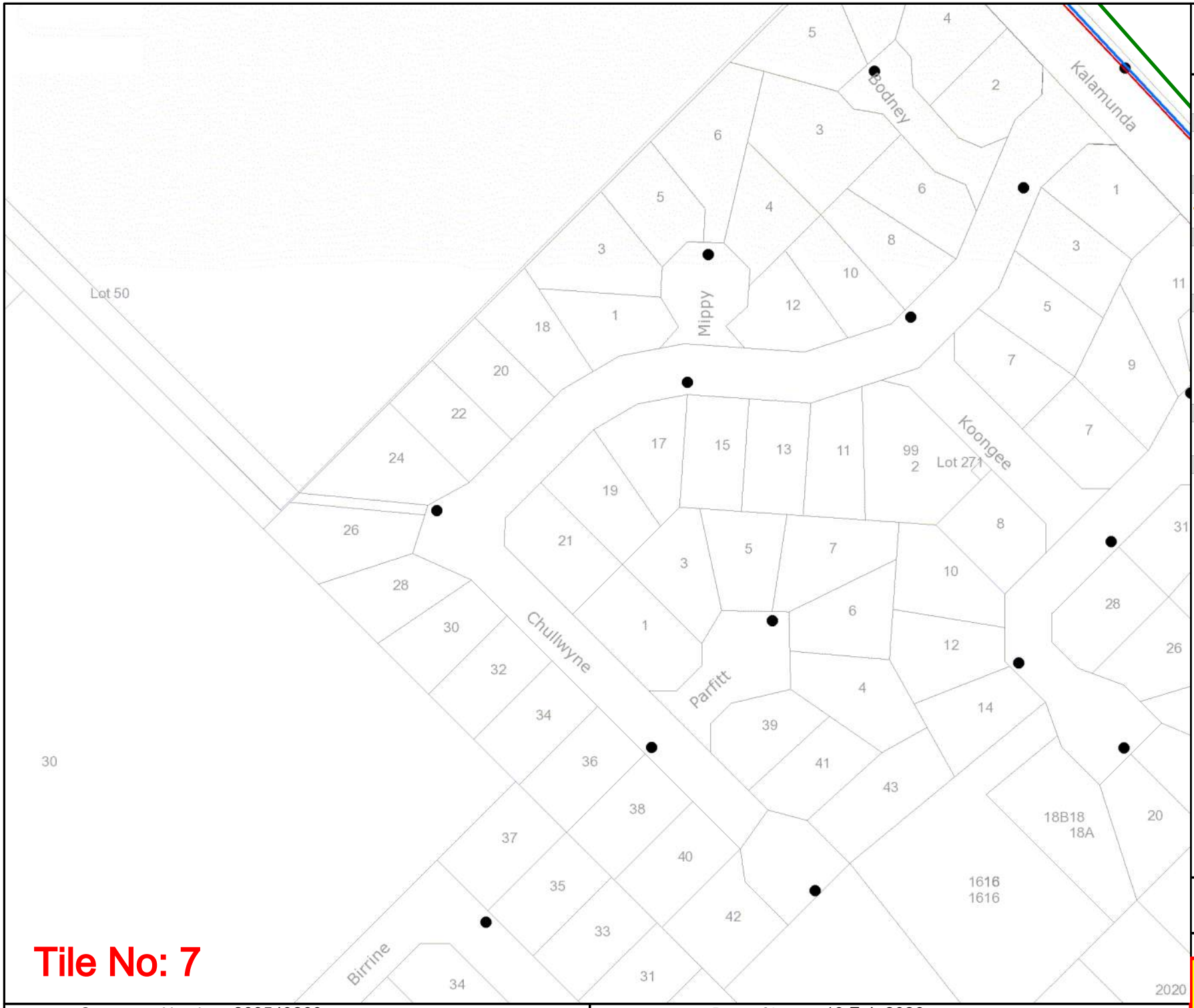
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A4	Scale : 1:1500

WARNING! Look out for overhead power lines

Sequence Number: 268549260

Date of Issue: 19 Feb 2026



Tile No: 7

Sequence Number: 268549260

Date of Issue: 19 Feb 2026

westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

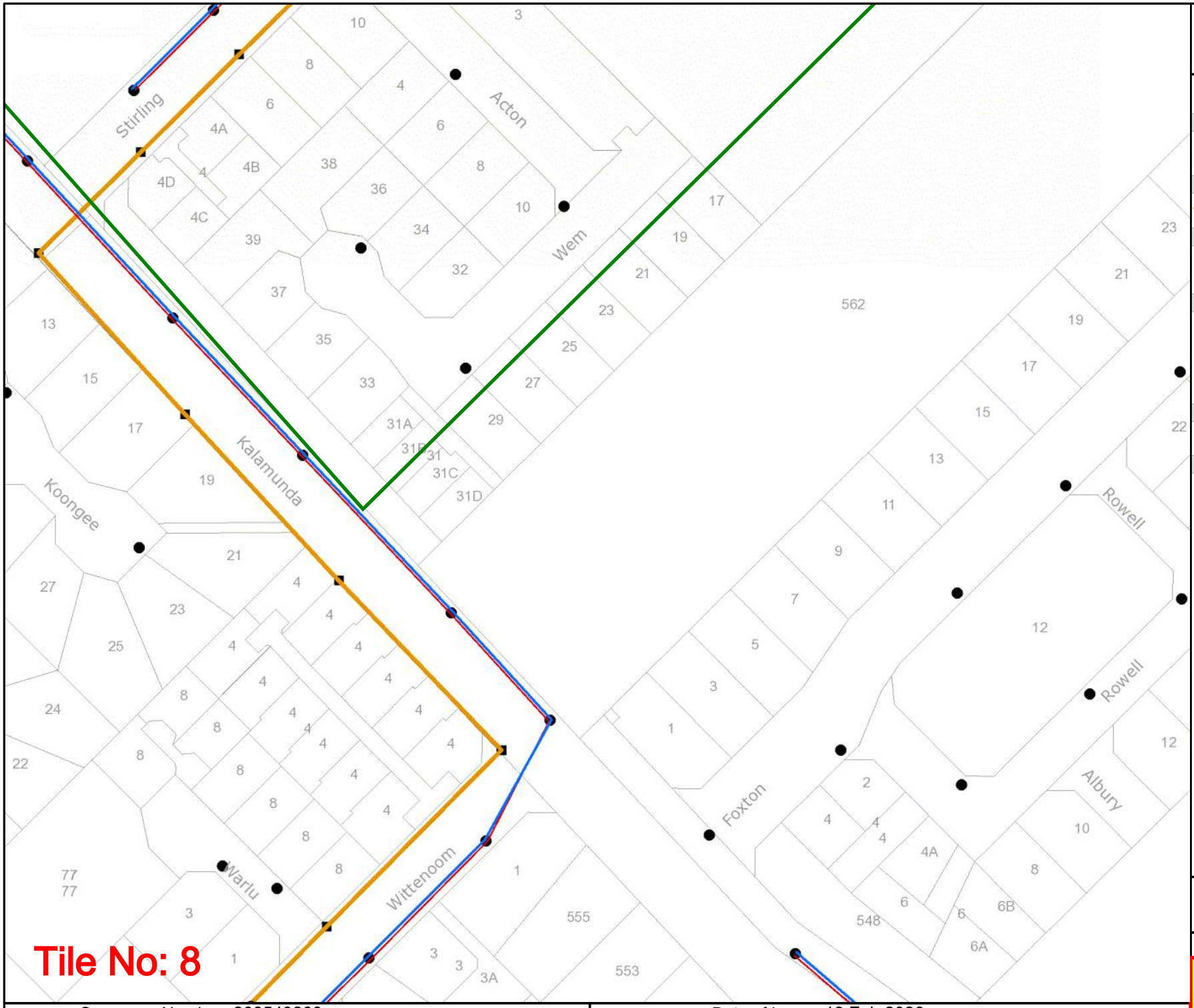
This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

A4 | Scale : 1:1500

WARNING! Look out for overhead power lines



westernpower

OVERHEAD LEGEND

Structures

- Power Pole
- Transmission Poles

Transmission Overhead Powerline

- Transmission (33kV - 330kV)

Distribution Overhead Powerline

- High Voltage (1kV - 33kV)
- Low Voltage (< 1kV)

Proposed Construction Assets

- Design Area *
- High Voltage Overhead Powerline
- Low Voltage Overhead Powerline
- Power Pole

Communications Assets

- Overhead Pilot Cable

Feature

- Area of Interest

*** Please refer to coversheet**

Privately owned cables NOT SHOWN (including house services)

This map is INDICATIVE ONLY. Check that you have enough clearance from the DANGER ZONES near overhead powerlines.

Telephone Support: 1300 769 345
Mon to Fri - 08:00 to 16:30

Information valid for 30 days from date of issue

A4	Scale : 1:1500

WARNING! Look out for overhead power lines

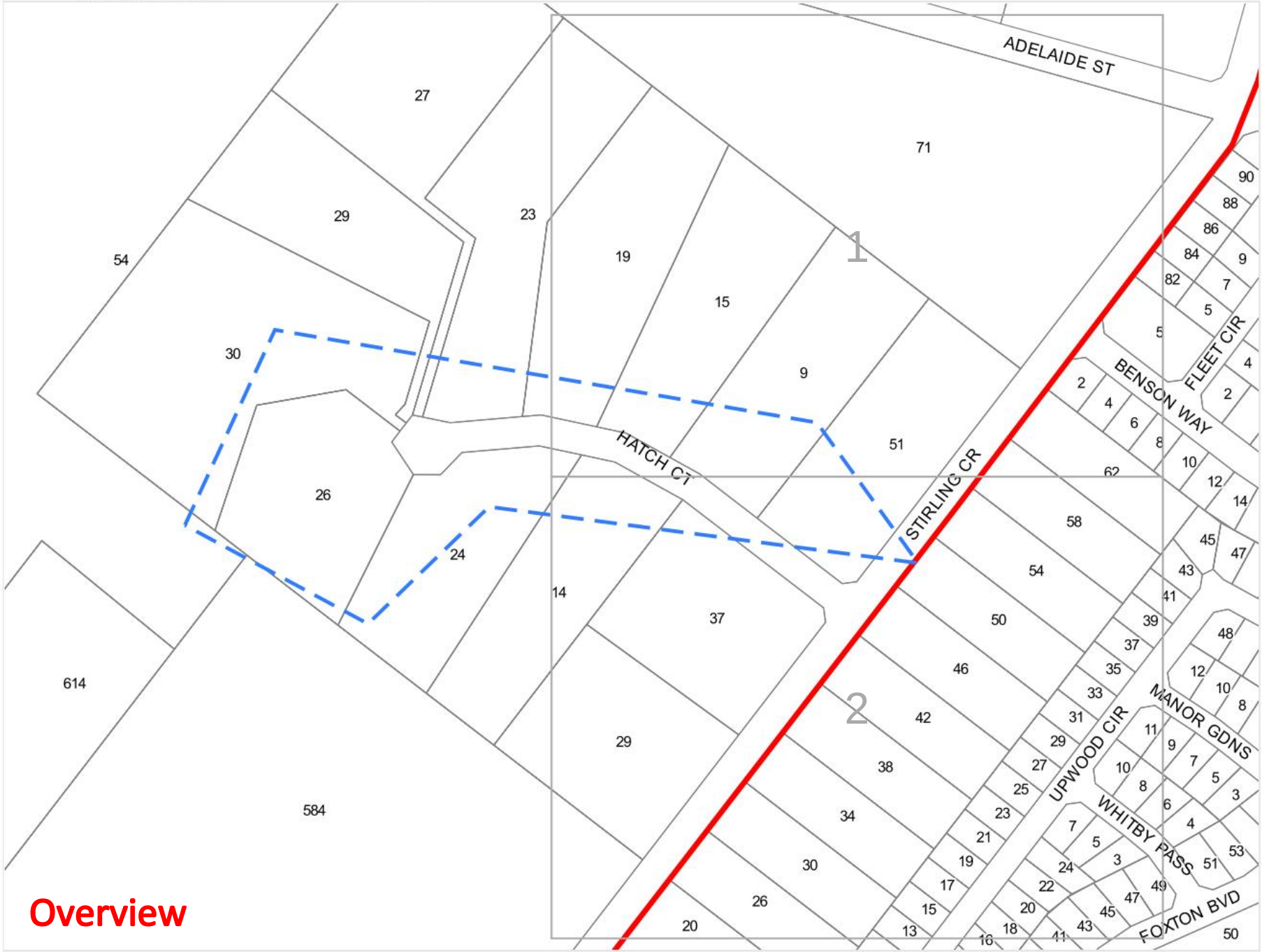
Sequence Number: 268549260

Date of Issue: 19 Feb 2026

aarnet
Australia's Academic and Research Network

Sequence No: 268596027
Job No: 52433030
Location: 24 Hatch Court, High Wycombe, WA 6057

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Legend

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

N

Scale: 1:3075
Expires: 20 Mar 2026

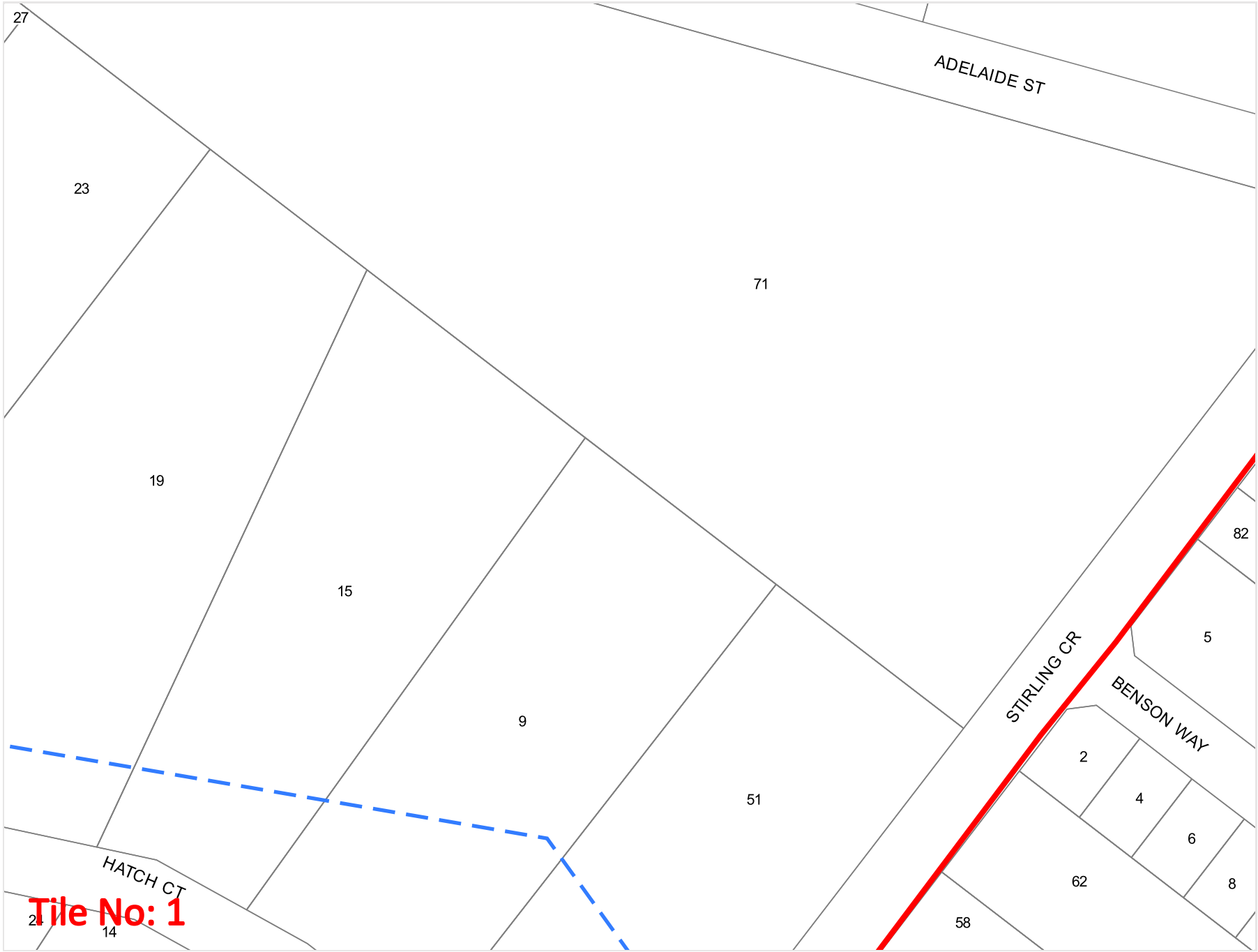
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Overview

aarnet
Australia's Academic and Research Network

Sequence No: 268596027
Job No: 52433030
Location: 24 Hatch Court, High Wycombe, WA 6057

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Legend

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

N

Scale: 1:1500
Expires: 20 Mar 2026

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

aarnet
Australia's Academic and Research Network

Sequence No: 268596027
Job No: 52433030
Location: 24 Hatch Court, High Wycombe, WA 6057

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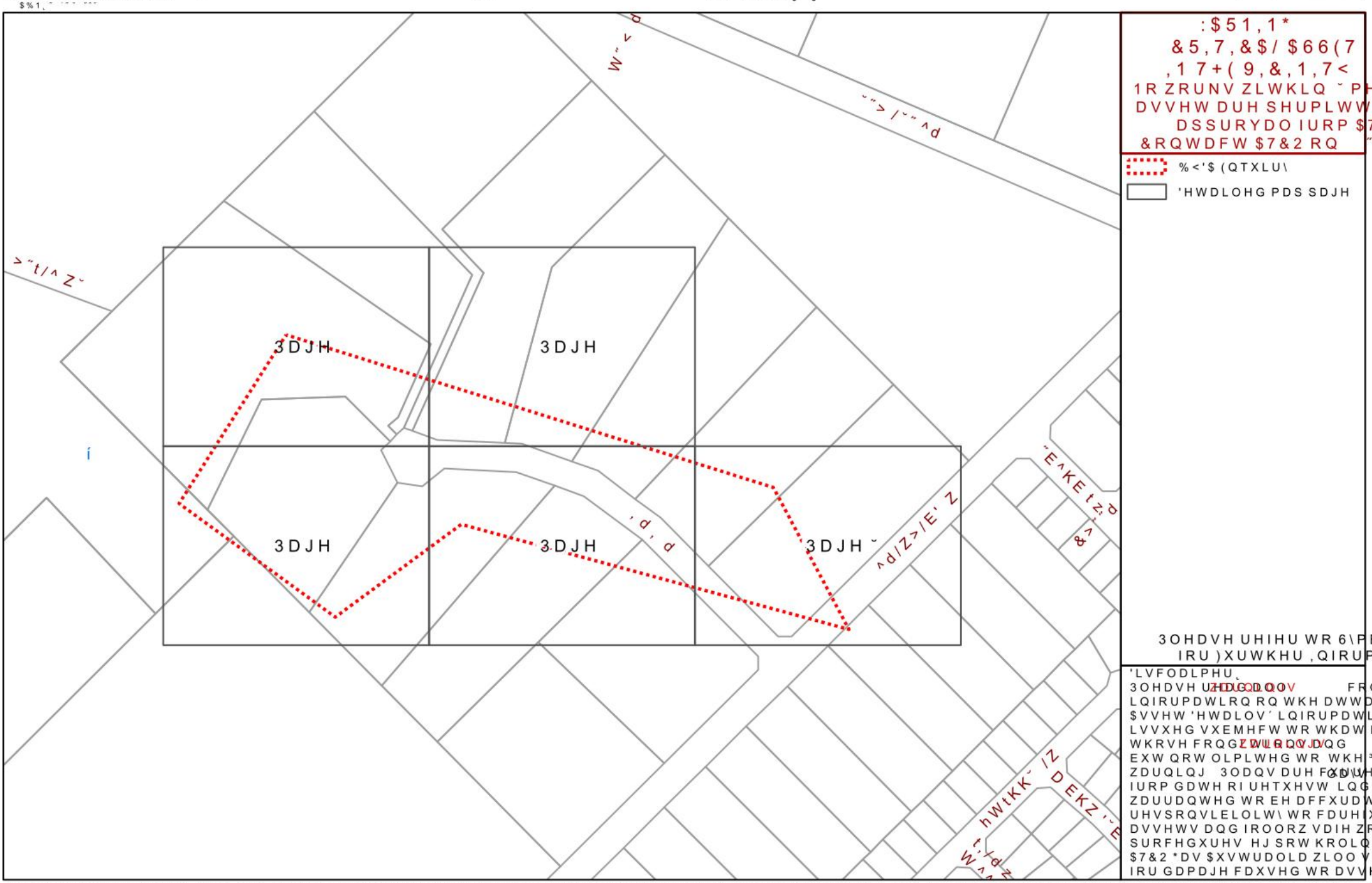
Legend

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

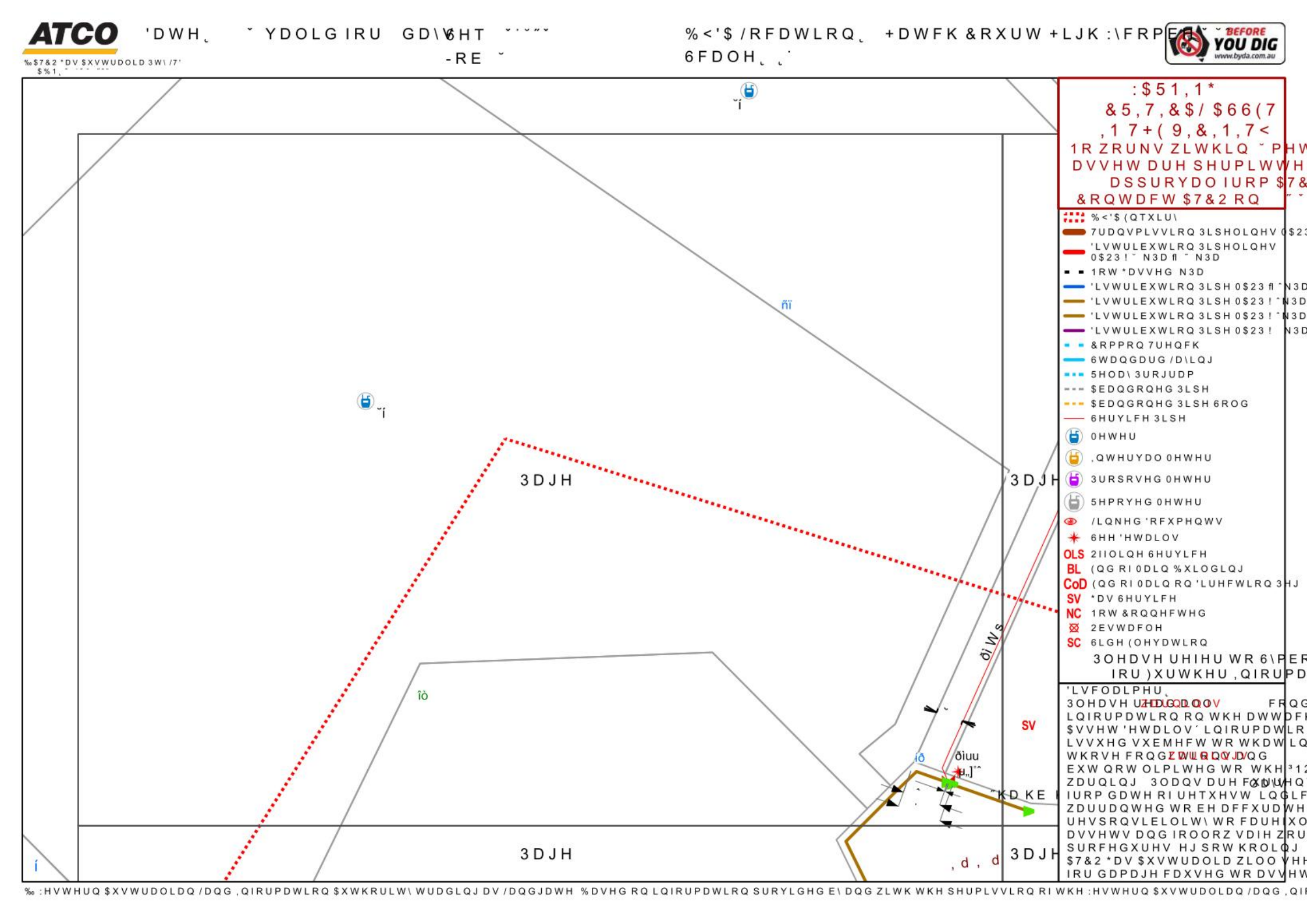
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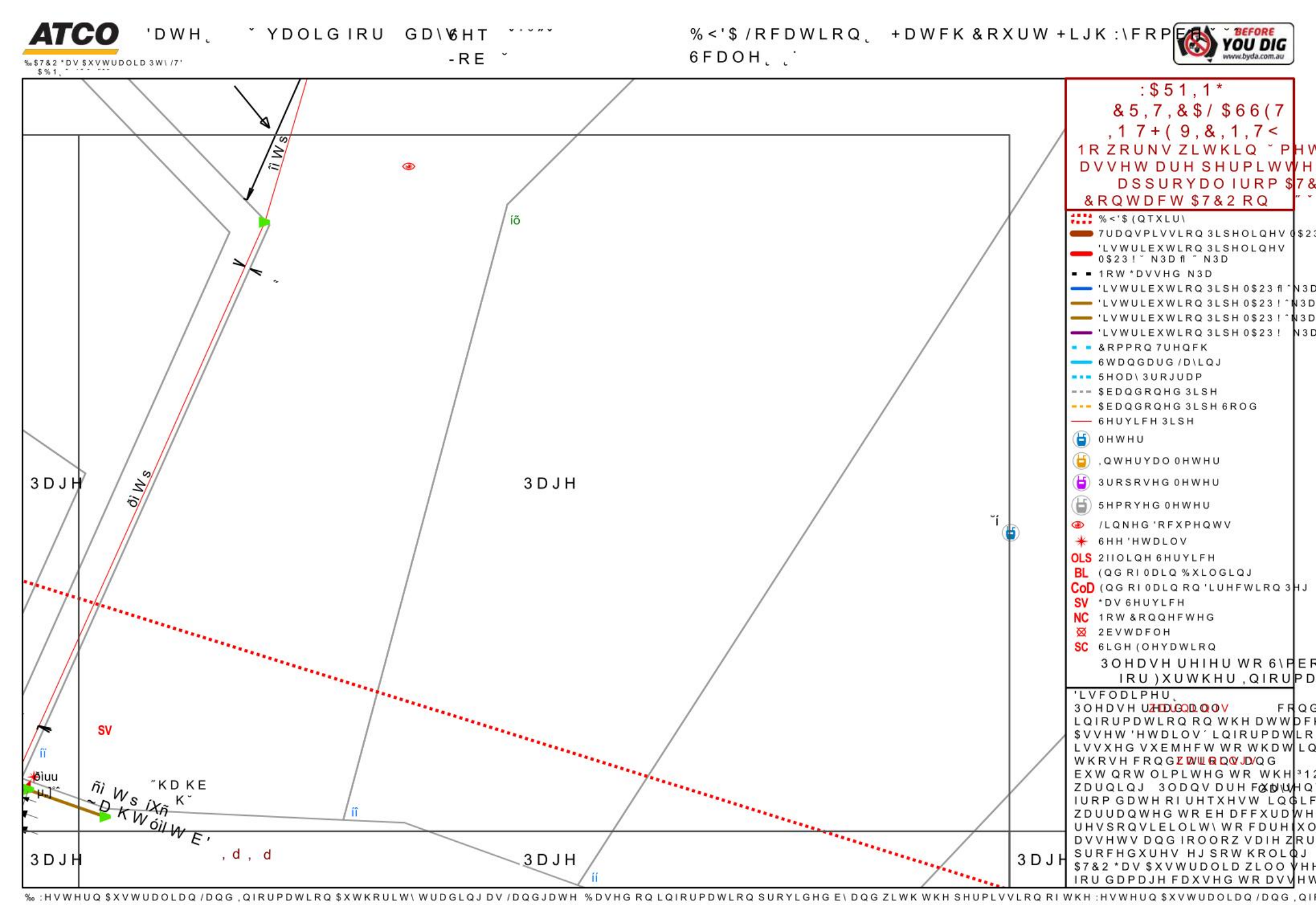
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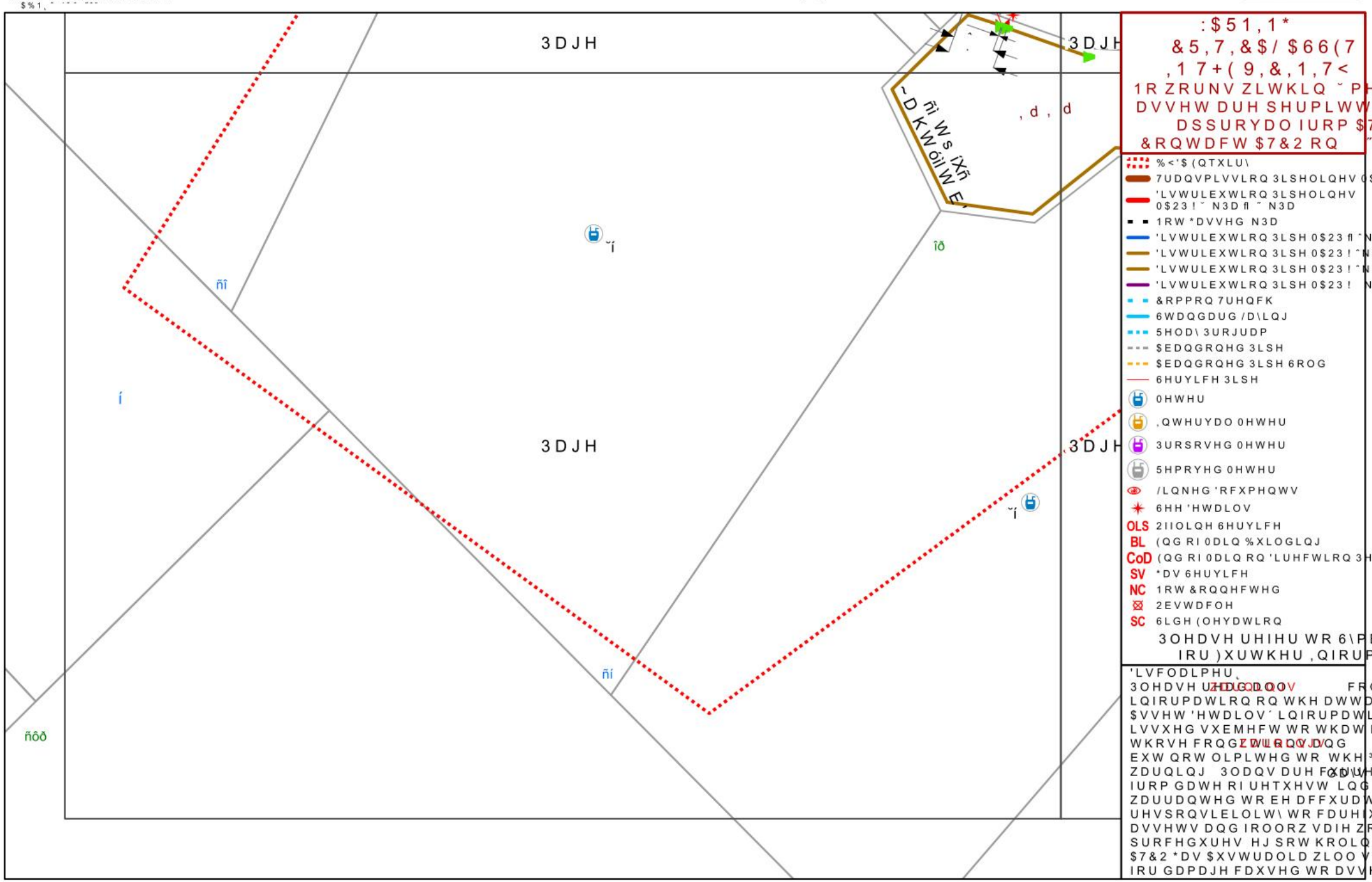
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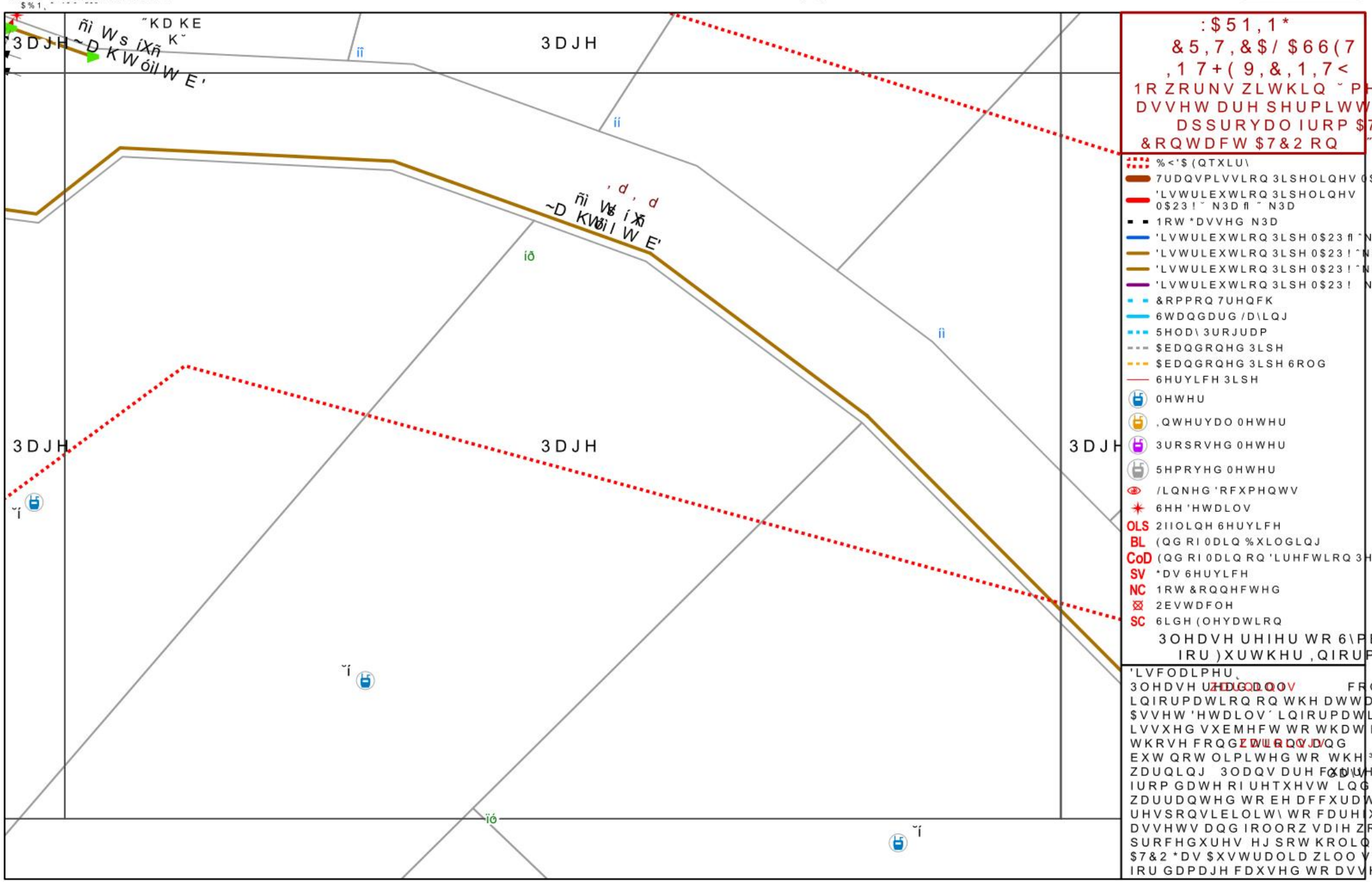
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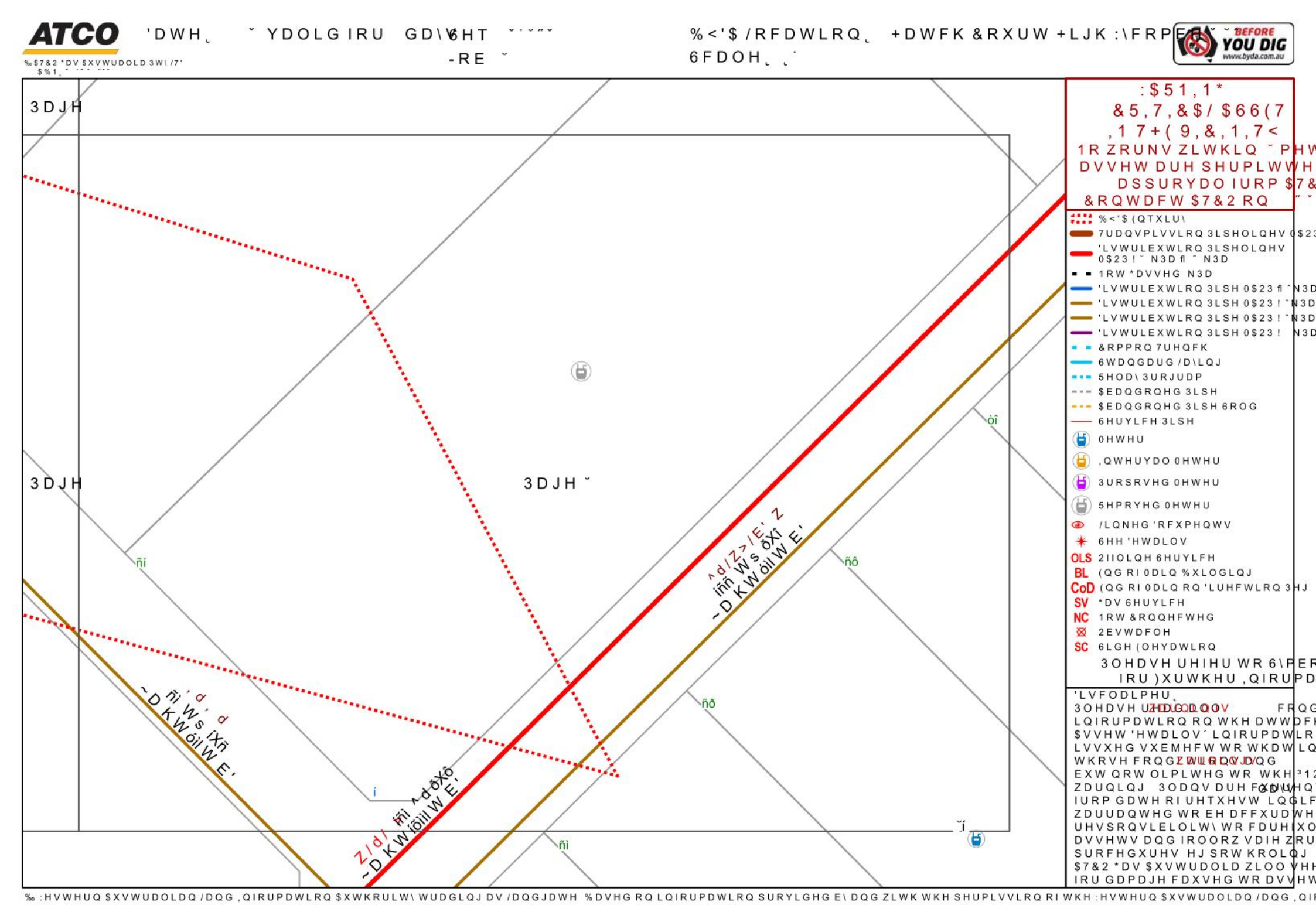

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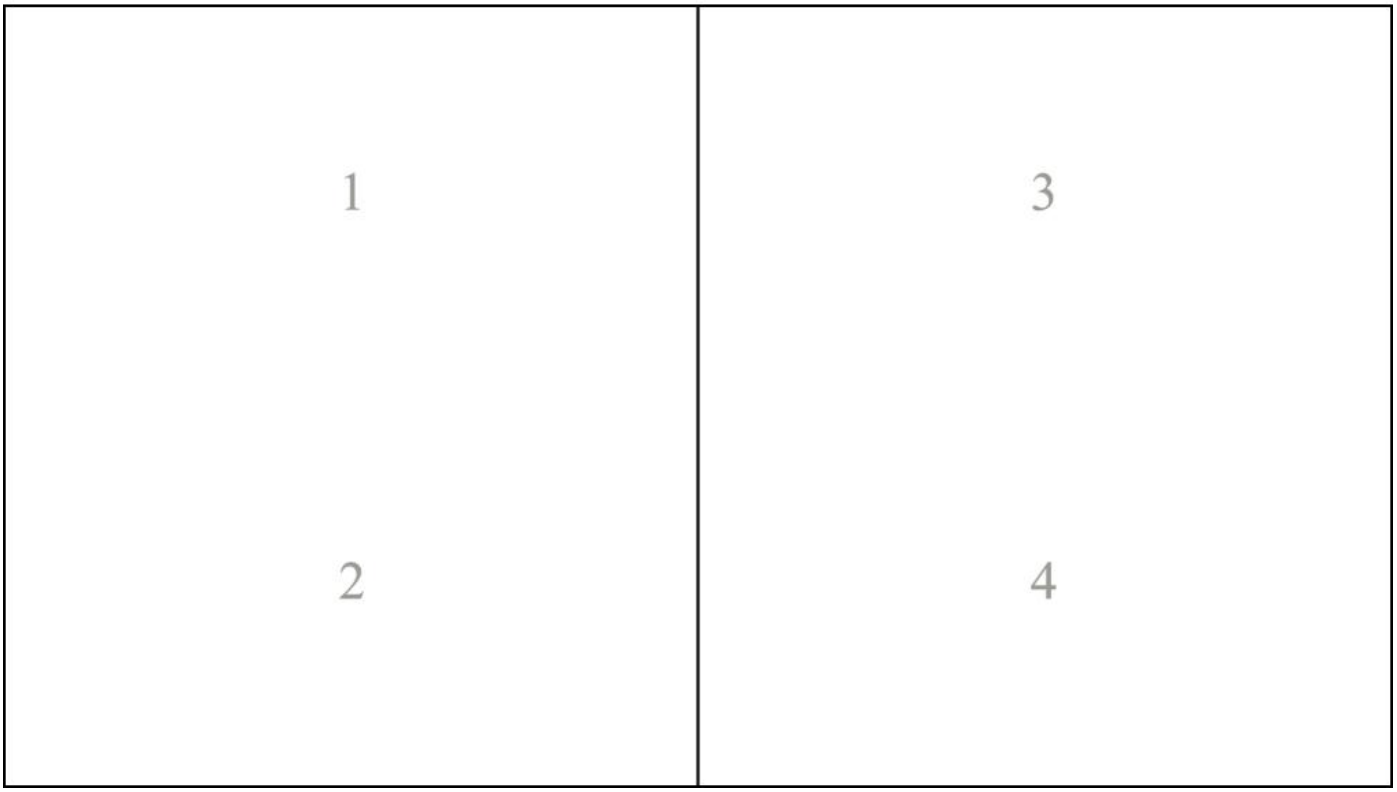

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6LGH (OHYDWLRQ
3OHDVH UHIHU WR 6\PER
IRU)XUWKHU ,QIRUPD
'LVFODLPHU
LQIRUPDWLRQ RQ WKH DWWDFH
$VVHW 'HWDLOV´ LQIRUPDWLOR
LVVXHG VXEMHFW WR WKDW LQ
WKRVH FRQGLWLRQV
EXW QRW OLPLWHG WR WKH ³1
ZDUQLQJ 3ODQV DUH FXUUHQ
IURP GDWH RI UHTXHVW LQGLF
ZDUUDQWHG WR EH DFFXUDWH
UHVSRQVLELOLW\ WR FDUHIXO
DVVHWV DQG IROORZ VDIH ZRU
SURFHGXUHV HJ SRW KROLQJ
$7&2 *DV $XWUDOLD ZLOO VHH
IRU GDPDJH FDXVHG WR DVVHW
%DVH RQ LQIRUPDWLRQ $XWKRULW\ WUDGLQJ DV /DQGJDWH %DVHG RQ LQIRUPDWLRQ SURYLGHG E\ DQG ZLWK WKH SHUPLVVLRQ RI WKH :HVWHUQ $XVWUDOLDQ /DQG ,QI


ATCO
'DWH
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-RE
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BEFORE YOU DIG
www.byda.com.au
3DJH
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7UDQVPLVVLRQ 3LSHOLQHV
'LVWULEXWLRQ 3LSHOLQHV
1RW *DVVHG N3D
&RPPRQ 7UHQFK
6WDQGDUG /D\LQJ
5HG\ 3URJUDP
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$EDQGRQHG 3LSH 6ROG
6HUYLFH 3LSH
0HWHU
,QWHUYDO 0HWHU
3URSRVHG 0HWHU
5HPRYHG 0HWHU
/LQNHG 'RFXPHQWV
6HH 'HWDLOV
OLS 2IIOLQH 6HUYLFH
BL (QG RI 0DLQ %XLOGLQJ
CoD (QG RI 0DLQ RQ 'LUHFWLRQ 3HJ
SV *DV 6HUYLFH
NC 1RW &RQQHFWHG
2EVWDFOH
SC 6LGH (OHYDWLRQ
3OHDVH UHIHU WR 6\PE
IRU)XUWKHU ,QIRUPD
'LVFODLPHU
FRQG
LQIRUPDWLRQ RQ WKH DWWDFK
$VVHW 'HWDLOV´ LQIRUPDWLR
LVVXHG VXEMHFW WR WKDW LQ
WKRVH FRQGLWLRQV
EXW QRW OLPLWHG WR WKH ³1
ZDUQLQJ 3ODQV DUH FXUUHQ
IURP GDWH RI UHTXHVW LQGLF
ZDUUDQWHG WR EH DFFXUDWH
UHVSRQVLELOLW\ WR FDUHIXO
DVVHWV DQG IROORZ VDIH ZRU
SURFHGXUHV HJ SRW KROLQJ
$7&2 *DV $XWUDOLD ZLOO VHH
IRU GDPDJH FDXVHG WR DVVHW
3OHDVH UHIHU WR 6\PEROV IRU)XUWKHU ,QIRUPDWLRQ
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^d/Z>/E' Z
íñî Ws ðXî
~D KW óil W E'
ñí ' d ' d
~D KW óil W E'
Z/d/ íñì ^d ðXô
~D KW óiil W E'
‰ :HVWHUQ $XVWUDOLDQ /DQG ,QIRUPDWLRQ $XWKRULW\ WUDGLQJ DV /DQGJDWH %DVHG RQ LQIRUPDWLRQ SURYLGHG E\ DQG ZLWK WKH SHUPLVVLRQ RI WKH :HVWHUQ $XVWUDOLDQ /DQG ,QI

To:	Dinura Ranatunga
Phone:	Not Supplied
Fax:	Not Supplied
Email:	dranatunga@peritas.au

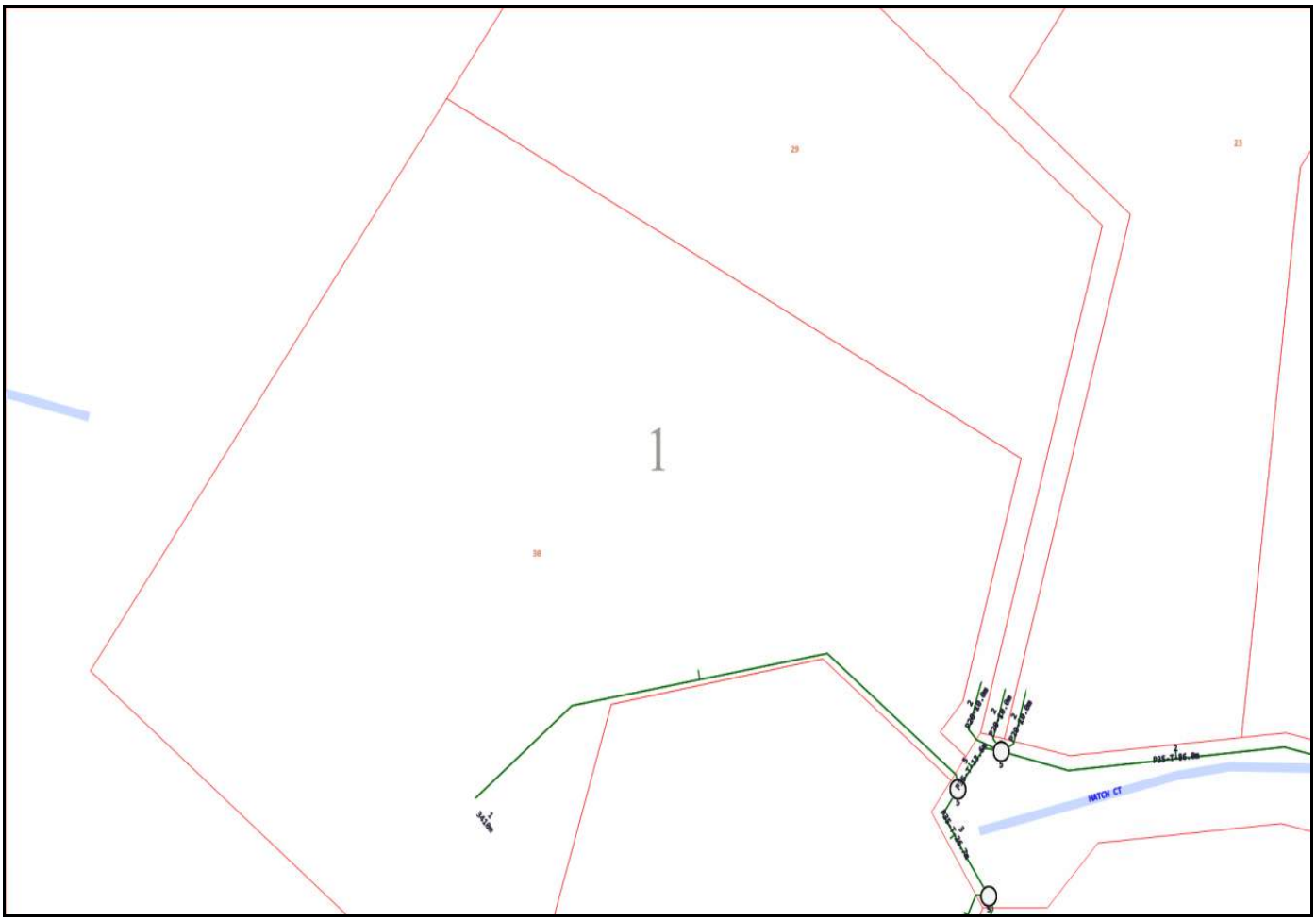
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Sequence #	268596021
Issue Date:	20/02/2026
Location:	24 Hatch Court , High Wycombe , WA , 6057

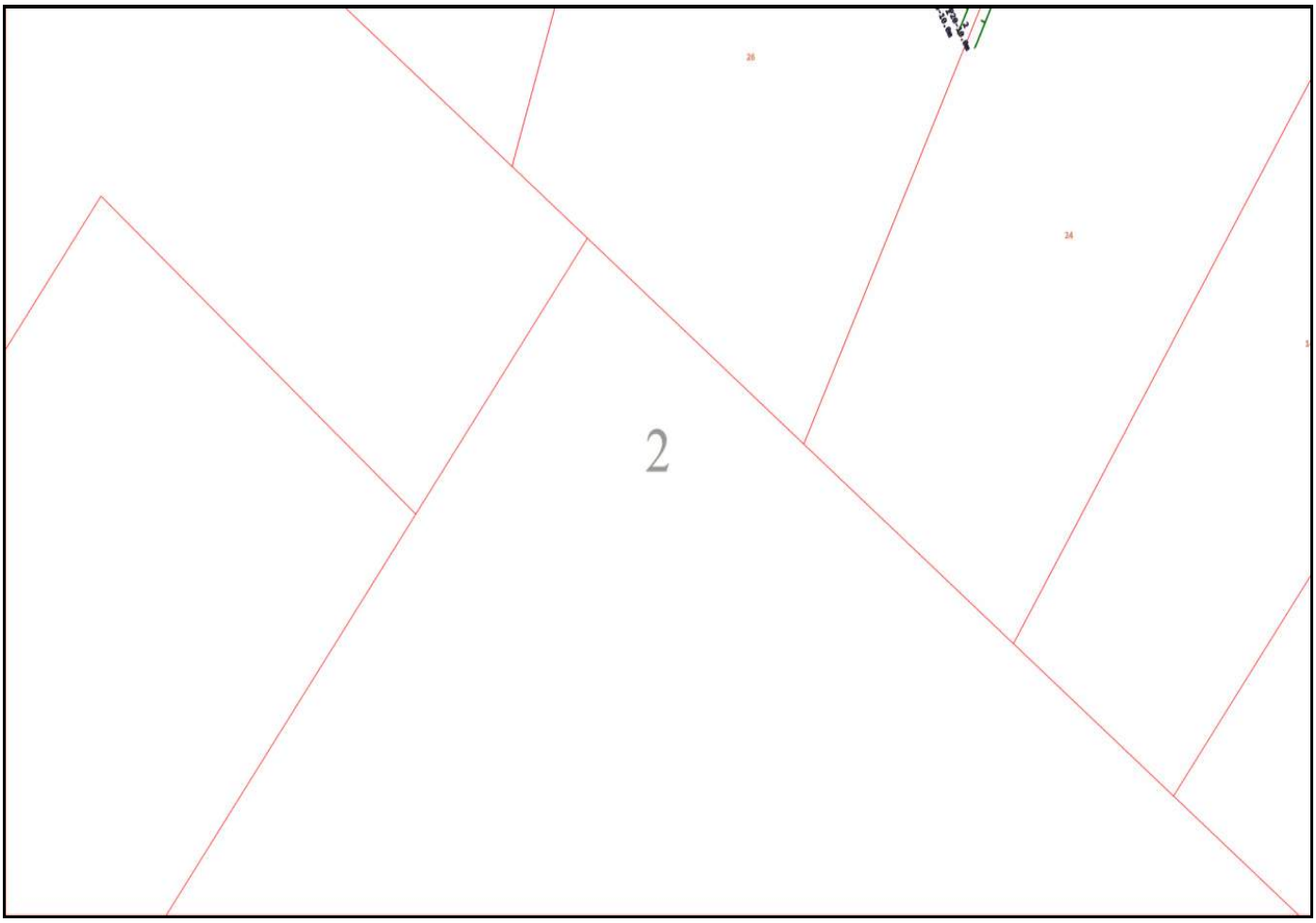
Indicative Plans are tiled below to demonstrate how to layout and read nbn asset plans

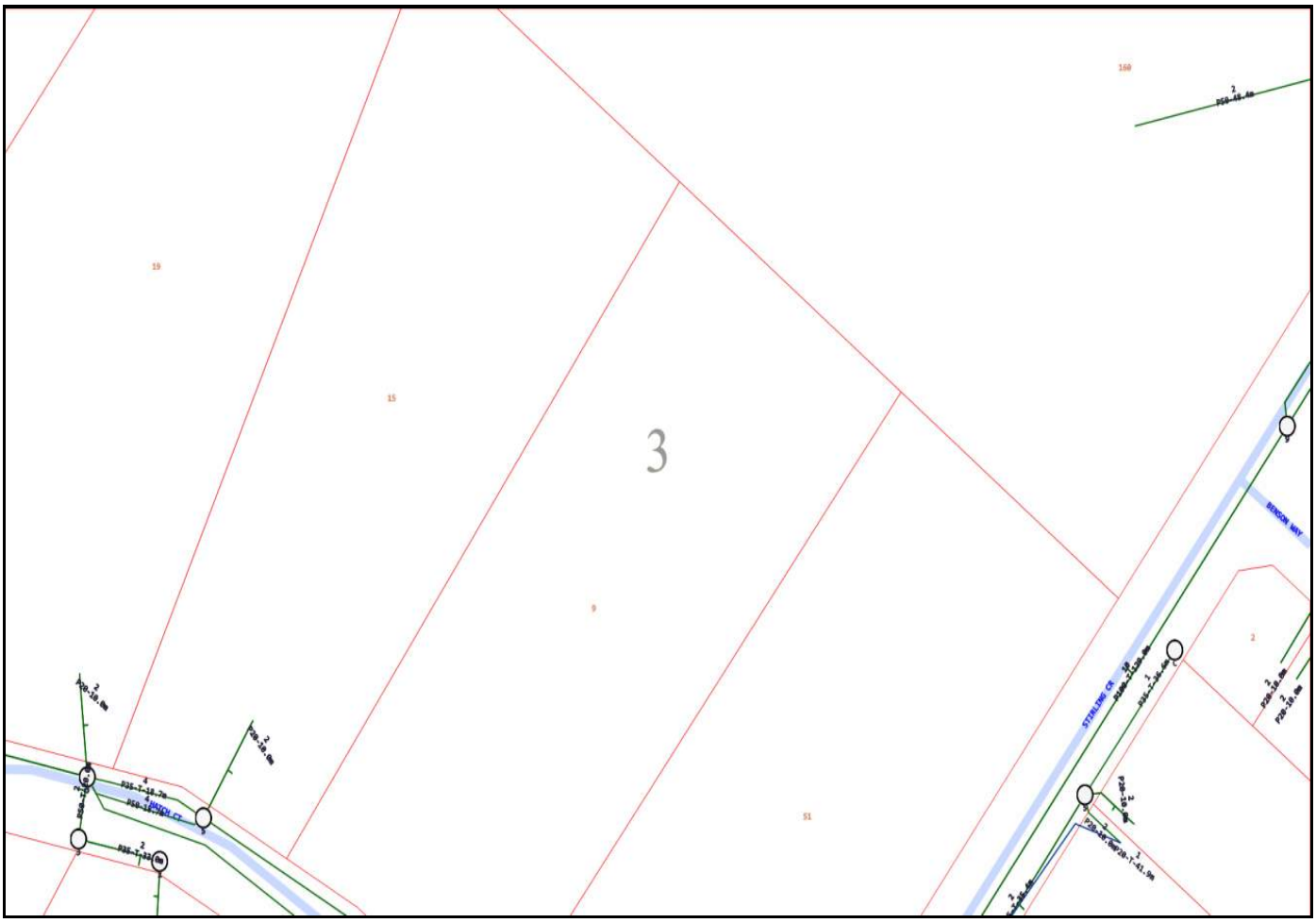


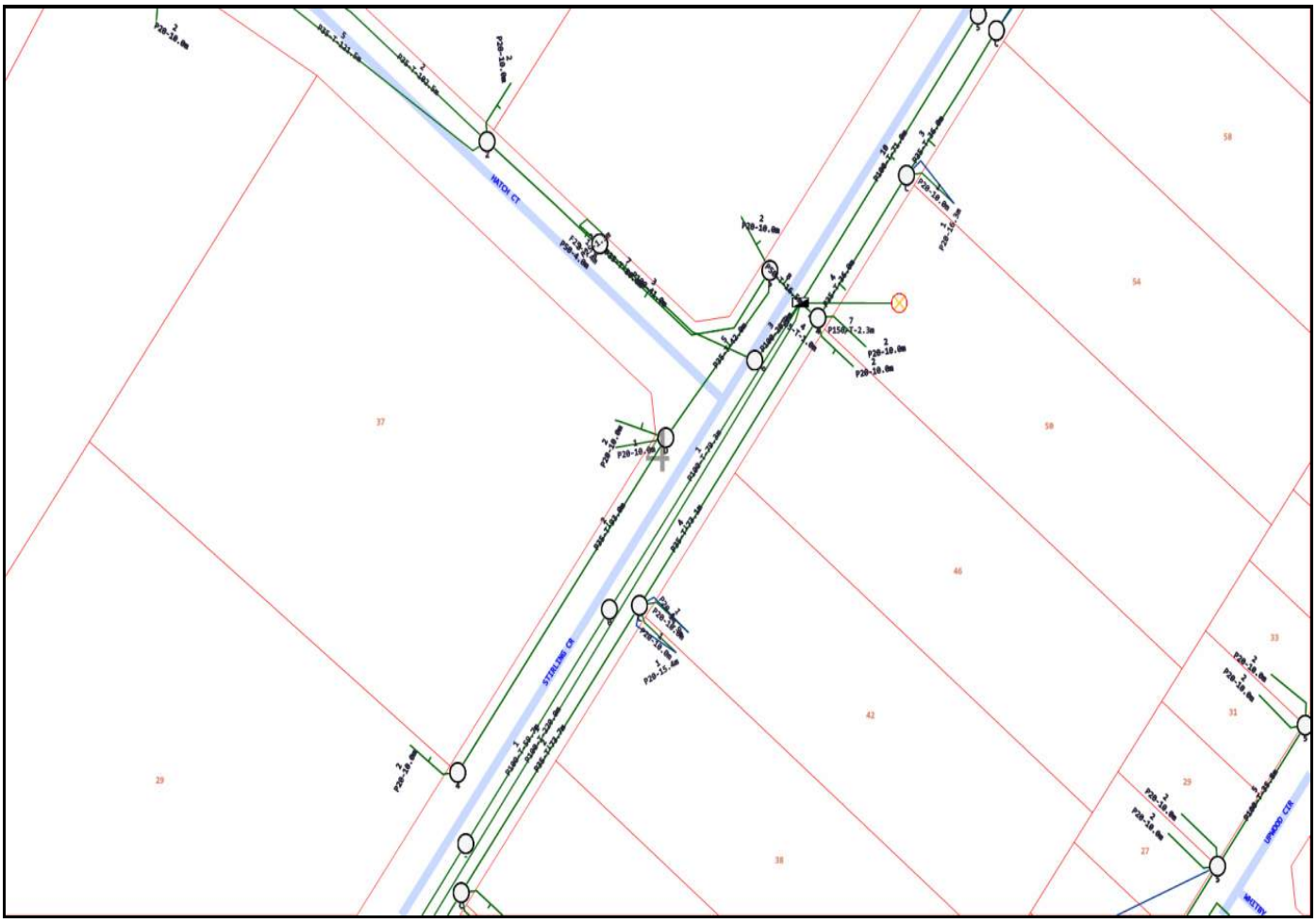
LEGEND

34	Parcel and the location
5	Pit with size "5"
2E	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
2 PO – T- 25.0m P40 – 20.0m 5 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
2 10.0m 5 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
5 9	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m


1
29
23
38
HATCH CT

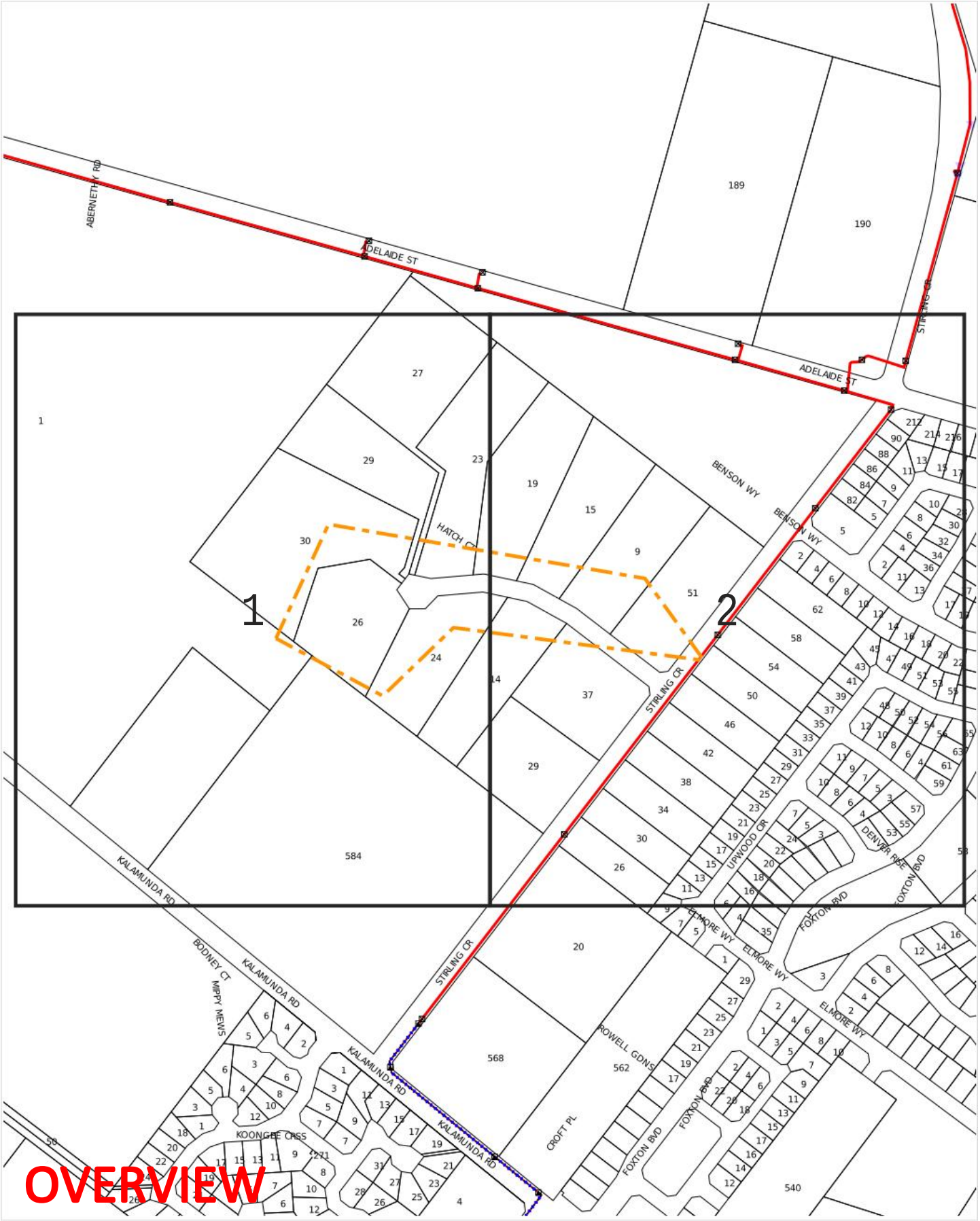

2


3
160
19
15
9
51
2
STERLING CR
BENSON WAY



Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.



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Sequence Number: 268596020

Date Generated: 20 Feb 2026

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208



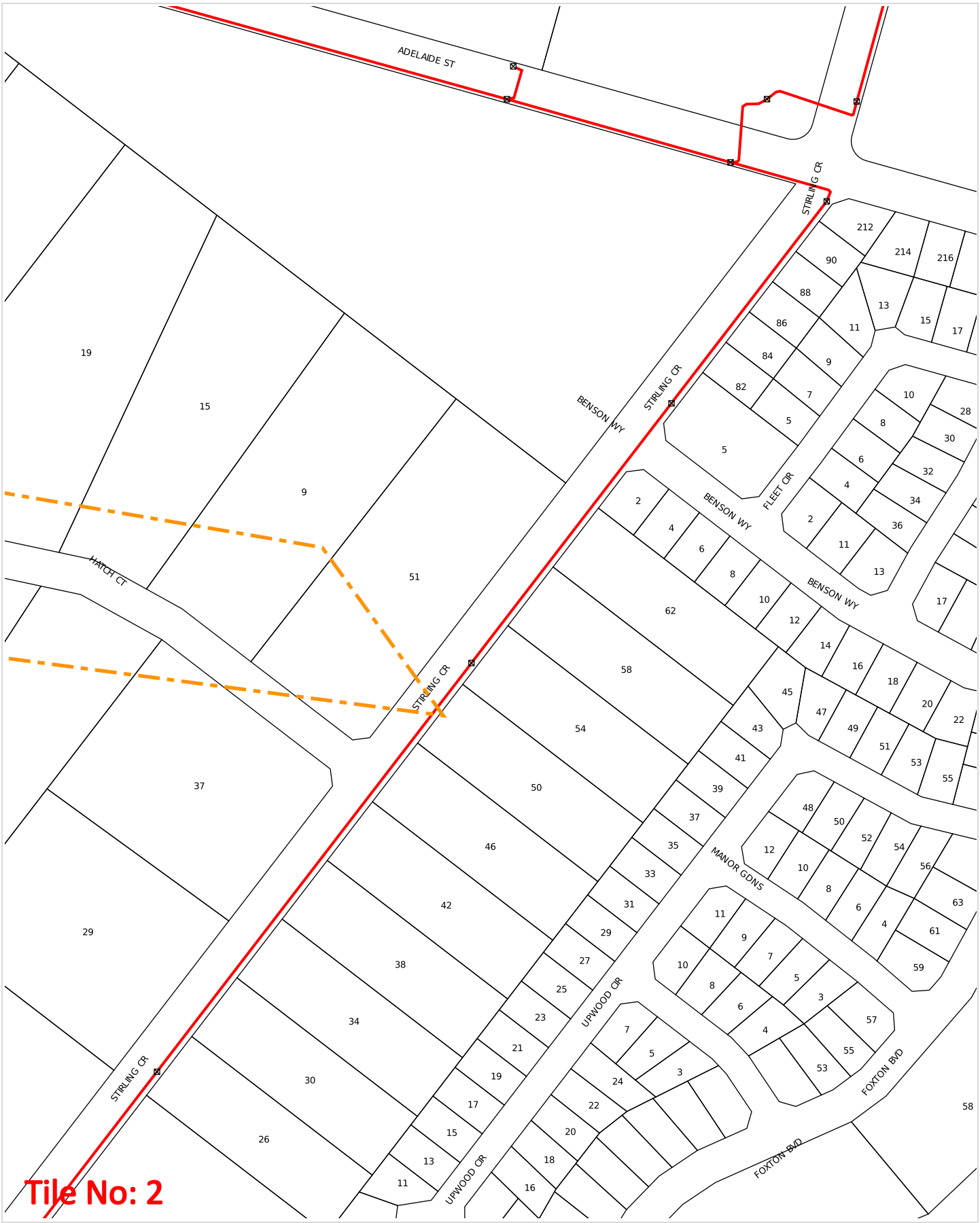
Tile No: 1

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Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

Cable Plan



Report Damage:https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

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Sequence Number: 268596029

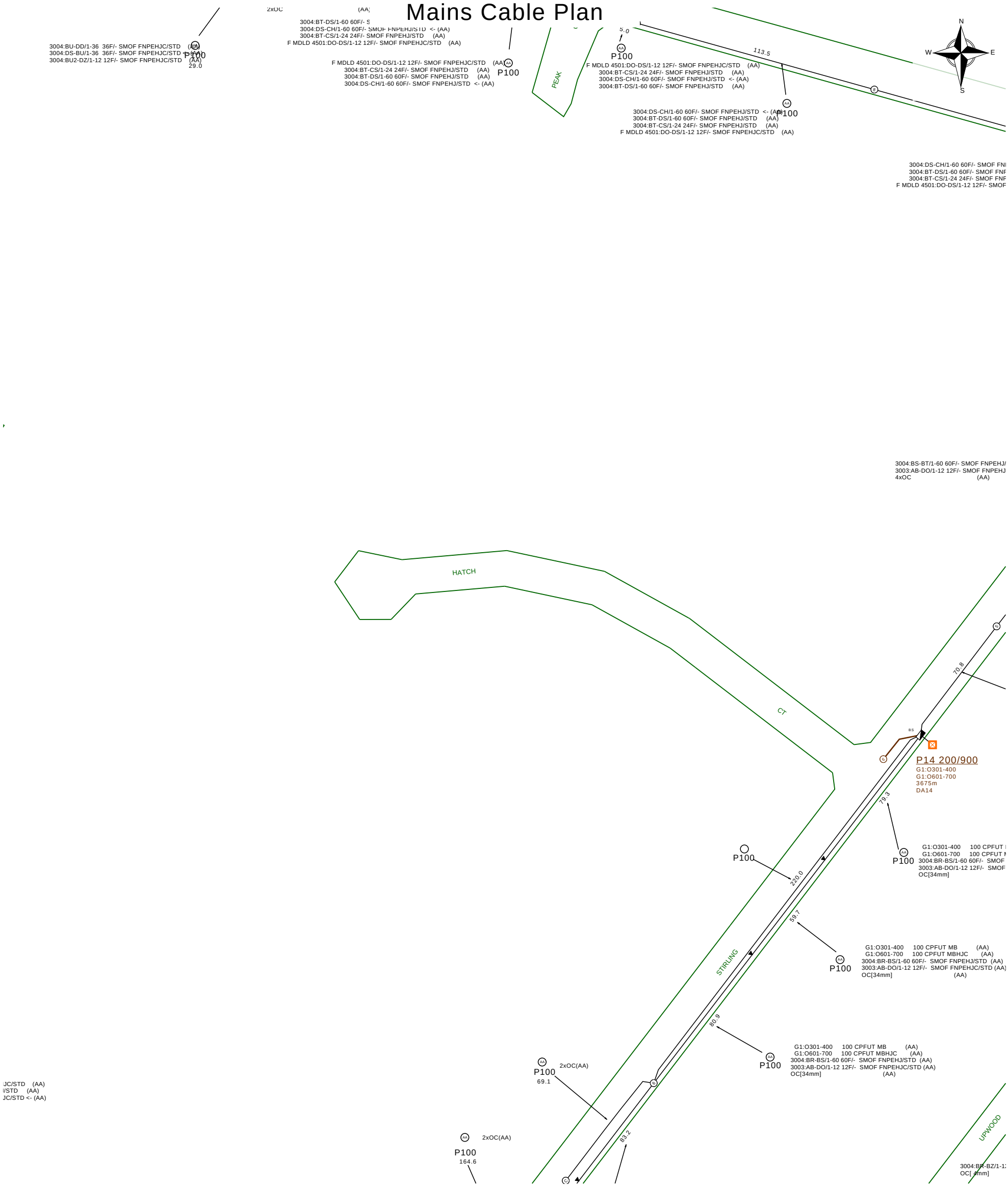
CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact InfraCo Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING
Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.
As such,Telstra supplied location information is indicative only.Spatial accuracy is not applicable to Quality Level D.
Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.
Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy.
Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work.
A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.

See the Steps- Telstra Duty of Care that was provided in the email response.

Mains Cable Plan



Report Damage:https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-
Ph - 13 22 03
Email - Telstra.Plans@team.telstra.com
Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

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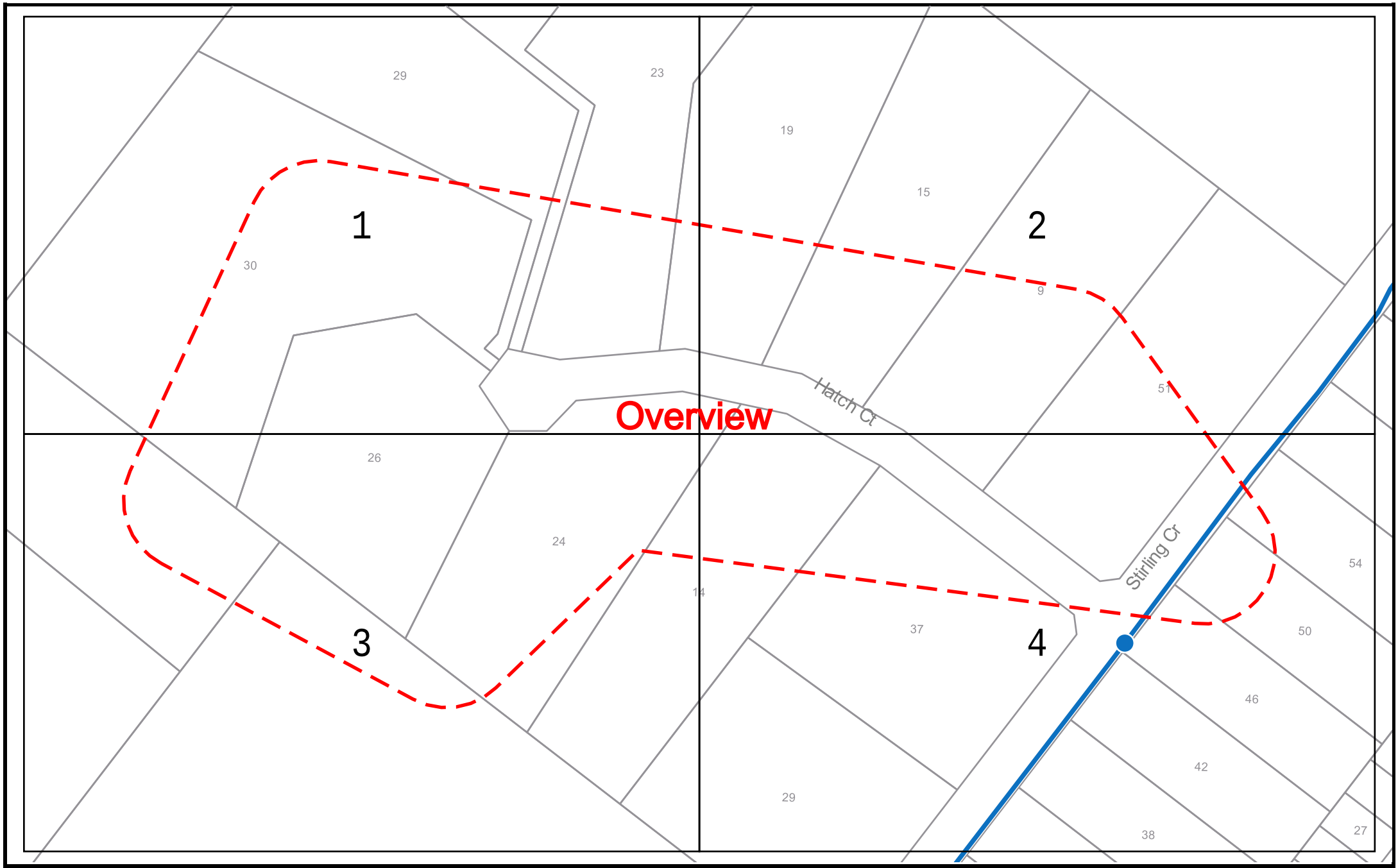
Sequence Number: 268596029

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact InfraCo Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING
Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.
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Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.
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See the Steps- Telstra Duty of Care that was provided in the email response.



VOCUS communications

SEQUENCE NUMBER: 268596028
JOB NUMBER: 52433030
ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:2050

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.



VOCUS communications

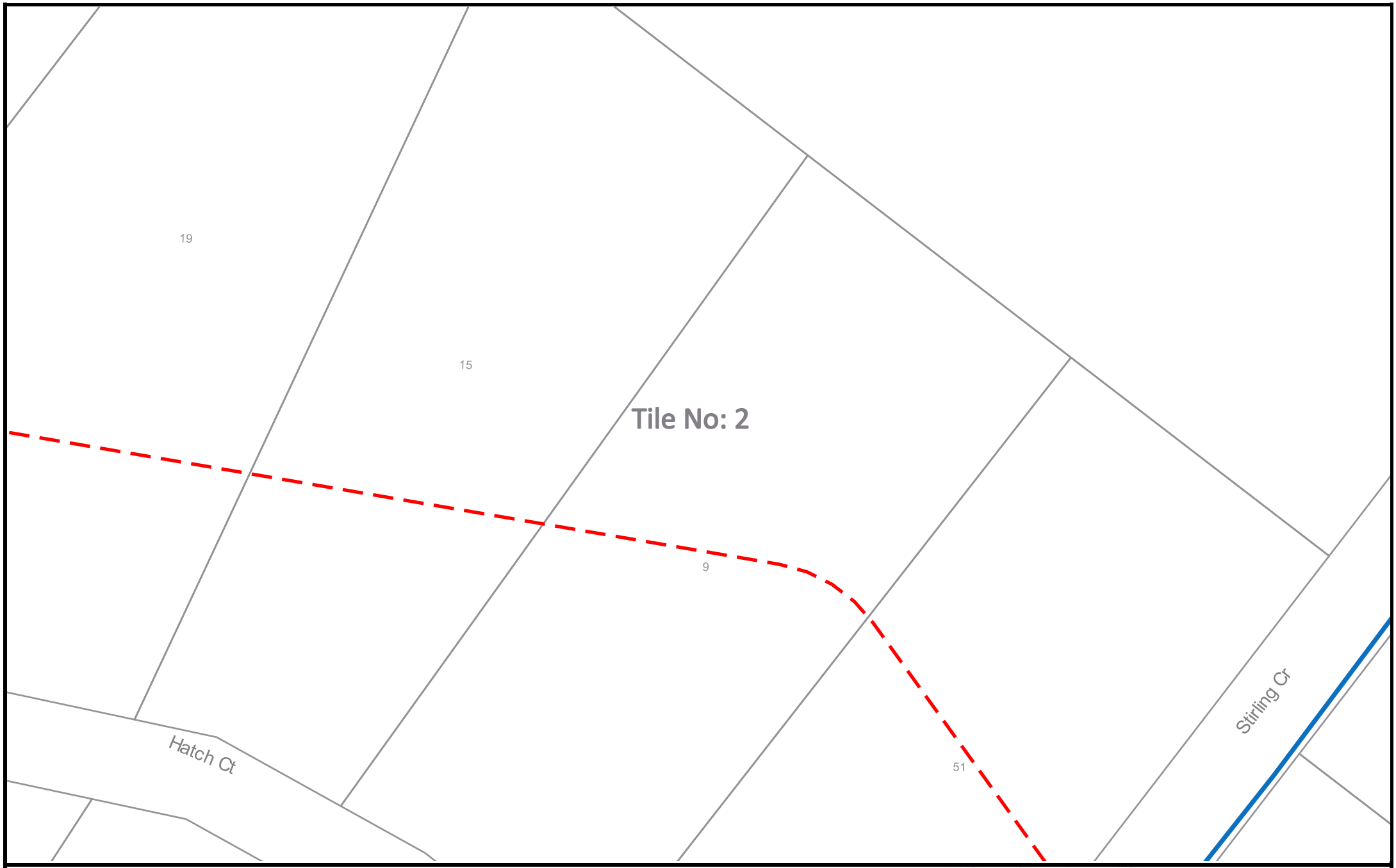
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SEQUENCE NUMBER: 268596028
JOB NUMBER: 52433030
ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

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VOCUS communications

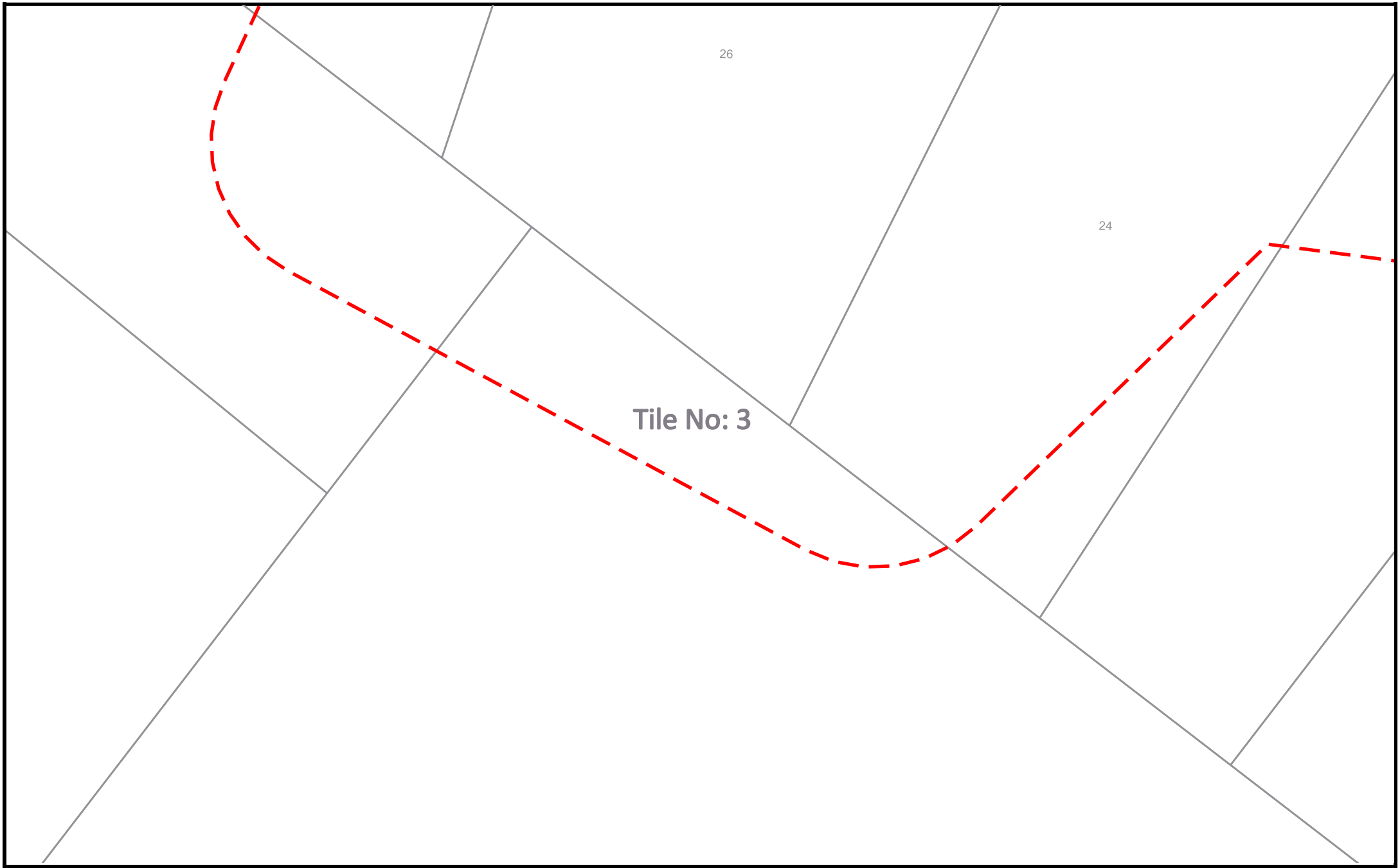
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SEQUENCE NUMBER: 268596028
JOB NUMBER: 52433030
ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

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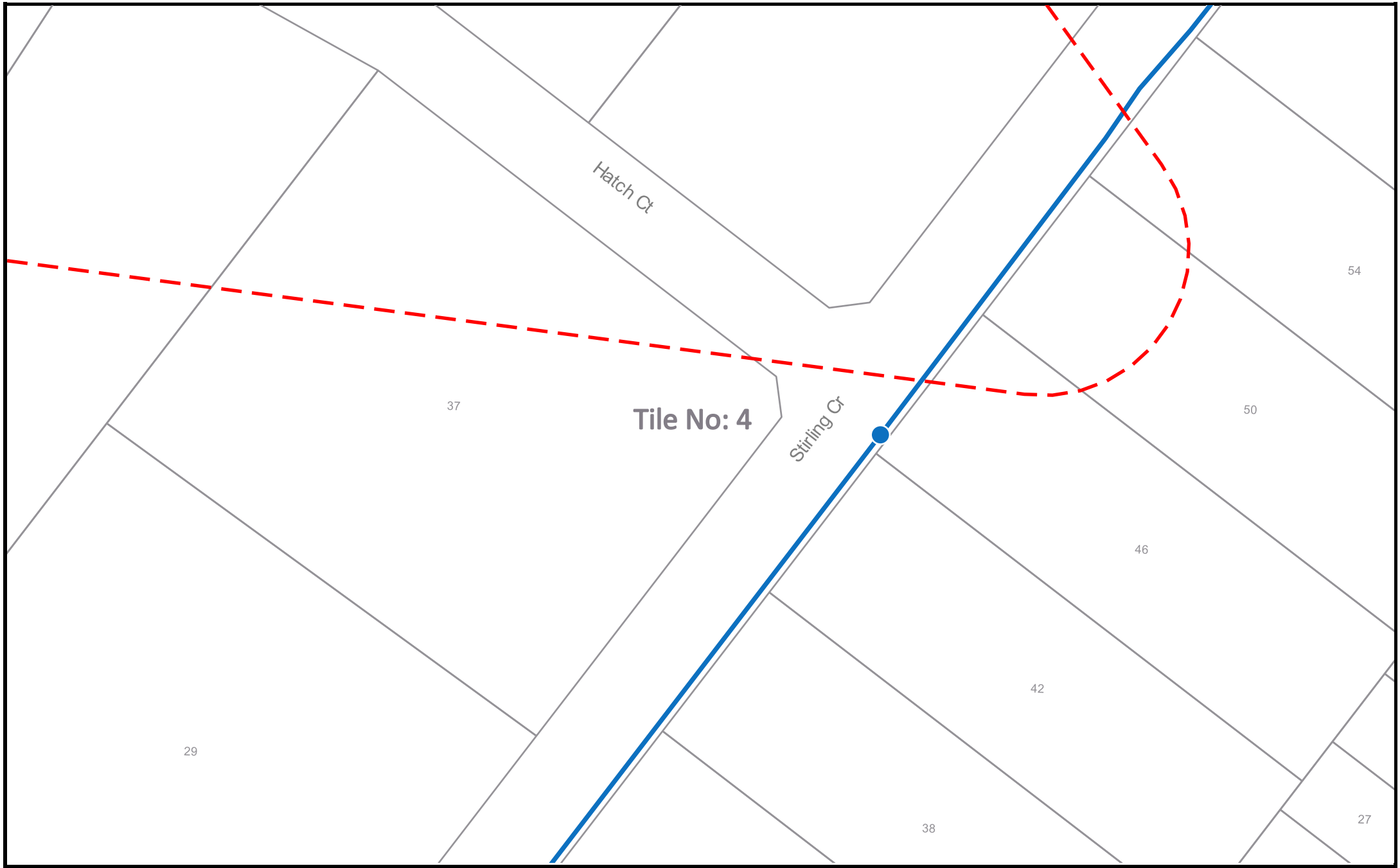


SEQUENCE NUMBER: 268596028
JOB NUMBER: 52433030
ADDRESS: 24 Hatch Court, High Wycombe, WA 6057

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.



VOCUS communications

N W E S

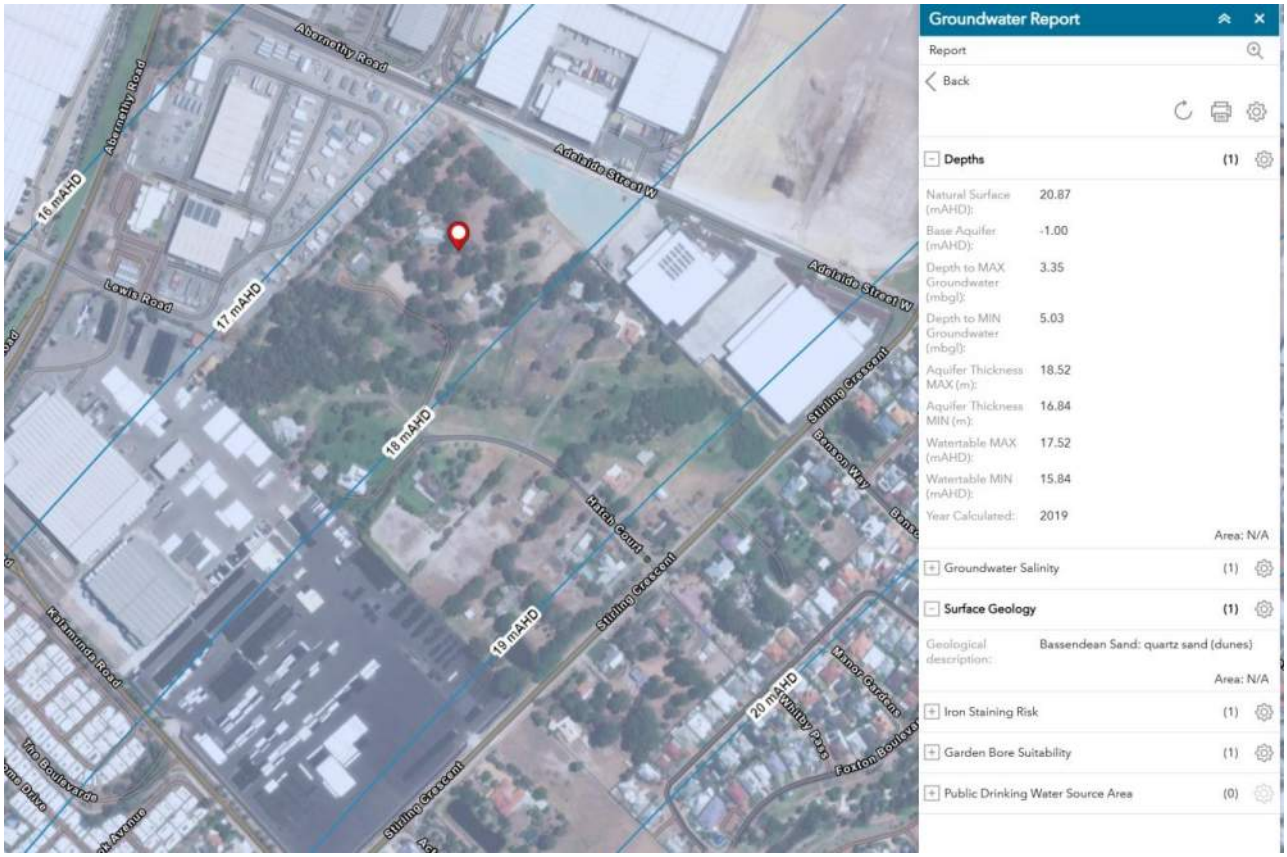
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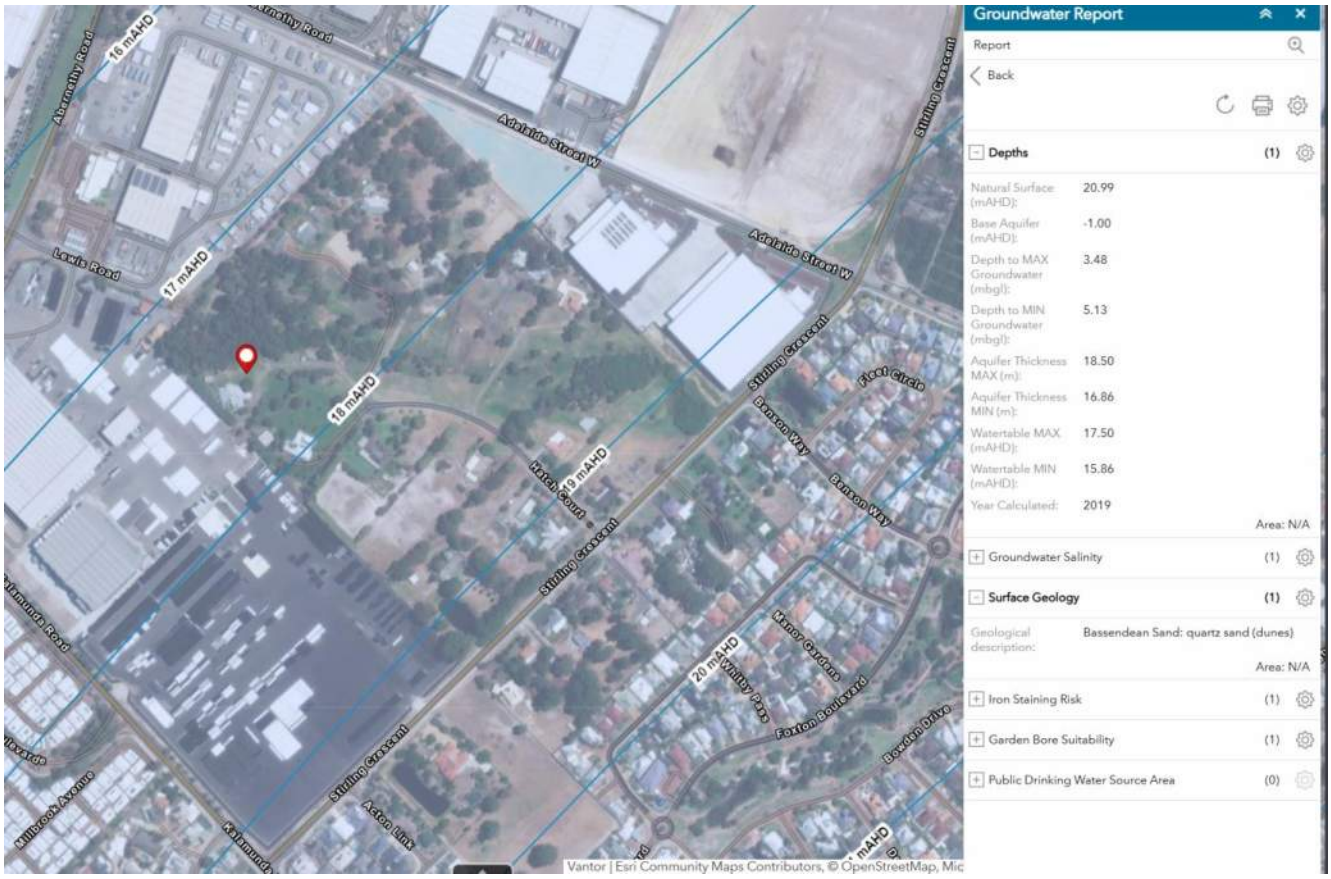
LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

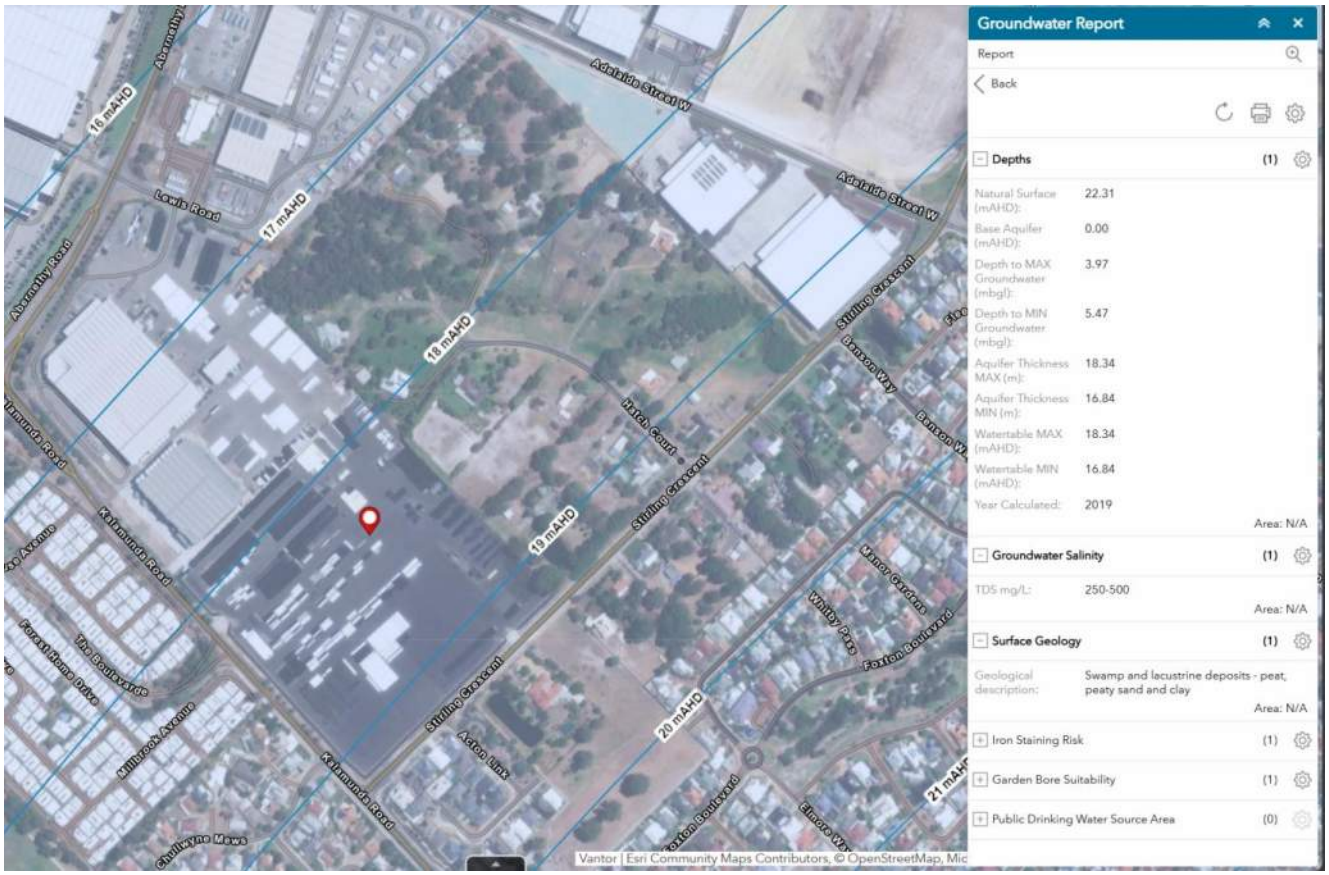
The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.

APPENDIX D – GROUNDWATER MAPPING


Abernethy Road
Adelaide Street W
Lewis Road
16 mAHD
17 mAHD
18 mAHD
19 mAHD
20 mAHD
Stirling Crescent
Benson Way
Hatch Court
Whitby Pass
Foxton Boulevard
Kalmunda Road
Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 20.87
Base Aquifer (mAHD): -1.00
Depth to MAX Groundwater (mbgl): 3.35
Depth to MIN Groundwater (mbgl): 5.03
Aquifer Thickness MAX (m): 18.52
Aquifer Thickness MIN (m): 16.84
Watertable MAX (mAHD): 17.52
Watertable MIN (mAHD): 15.84
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
Surface Geology (1)
Geological description: Bassendean Sand: quartz sand (dunes)
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)


Abernethy Road
Adelaide Street W
Lewis Road
16 mAHD
17 mAHD
18 mAHD
19 mAHD
20 mAHD
Stirling Crescent
Benson Way
Hatch Court
Whitby Pass
Foxton Boulevard
Kalmunda Road
Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 20.99
Base Aquifer (mAHD): -1.00
Depth to MAX Groundwater (mbgl): 3.48
Depth to MIN Groundwater (mbgl): 5.13
Aquifer Thickness MAX (m): 18.50
Aquifer Thickness MIN (m): 16.86
Watertable MAX (mAHD): 17.50
Watertable MIN (mAHD): 15.86
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
Surface Geology (1)
Geological description: Bassendean Sand: quartz sand (dunes)
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)
Vantor | Esri Community Maps Contributors, © OpenStreetMap, Mic


Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 23.98
Base Aquifer (mAHD): 0.00
Depth to MAX Groundwater (mbgl): 4.59
Depth to MIN Groundwater (mbgl): 5.98
Aquifer Thickness MAX (m): 19.39
Aquifer Thickness MIN (m): 18.00
Watertable MAX (mAHD): 19.39
Watertable MIN (mAHD): 18.00
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
TDS mg/L: 250-500
Area: N/A
Surface Geology (1)
Geological description: Swamp and lacustrine deposits - peat, peaty sand and clay
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)
Adelaide Street W
17 mAHD
18 mAHD
19 mAHD
20 mAHD
21 mAHD
Stirling Crescent
Benson Way
Manor Gardens
Whitby Pass
Forton Boulevard
Elmore Way
Kalmunda Road
Aston Link
Vantor | Esri Community Maps Contributors, © OpenStreetMap, Mic


Groundwater Report
Report
Back
Depths (1)
Natural Surface (mAHD): 22.31
Base Aquifer (mAHD): 0.00
Depth to MAX Groundwater (mbgl): 3.97
Depth to MIN Groundwater (mbgl): 5.47
Aquifer Thickness MAX (m): 18.34
Aquifer Thickness MIN (m): 16.84
Watertable MAX (mAHD): 18.34
Watertable MIN (mAHD): 16.84
Year Calculated: 2019
Area: N/A
Groundwater Salinity (1)
TDS mg/L: 250-500
Area: N/A
Surface Geology (1)
Geological description: Swamp and lacustrine deposits - peat, peaty sand and clay
Area: N/A
Iron Staining Risk (1)
Garden Bore Suitability (1)
Public Drinking Water Source Area (0)
Adelaide Street W
16 mAHD
17 mAHD
18 mAHD
19 mAHD
20 mAHD
21 mAHD
Lowis Road
Abernethy Road
Stirling Crescent
Benson Way
Manor Gardens
Whitby Pass
Forton Boulevard
Elmore Way
Kalmunda Road
Aston Link
Millbrook Avenue
Forest Home Drive
The Boulevarde
Chulkyne Mews
Vantor | Esri Community Maps Contributors, © OpenStreetMap, Mic

APPENDIX 6

Environmental Assessment Report

HATCH COURT LIGHT INDUSTRIAL AREA, HIGH WYCOMBE

ENVIRONMENTAL ASSESSMENT REPORT

Prepared for:	Dynamic Planning and Developments
Report Date:	14 July 2026
Version:	3
Report No.	2025-921

pgv ENVIRONMENTAL

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1 INTRODUCTION

1.1 Location

The Hatch Court Light Industrial Area ('the site') is located in the City of Kalamunda, approximately 13km east-north-east of the Perth Central Business District (Figure 1). The site is made up of 16 lots bounded by Perth Airport Land to the north-west, Kalamunda Road to the south-west, Stirling Crescent to the south-east and Adelaide Street to the north-east (Figure 2). The site is approximately 30ha in size.

1.2 Background

The site was originally intended for residential use by rezoning to 'Urban' under the Metropolitan Region Scheme (Amendment 1187/57) in 2010. In February 2017, Council supported a request to rezone the HCLIA under subject Scheme Amendment 80 from 'Urban Development' to 'Light Industry'. It was considered that the proposed amendment would generate the need to prepare a local structure plan given previous issues raised by residents concerning traffic, access and management of the surrounding residential interface.

In January 2018, the Minster approved Scheme Amendment 80. The approval included amendments requested by the Western Australian Planning Commission (WAPC) which introduced additional site and development requirements under Clause 5.23 to the City's Local Planning Scheme No.3 (LPS3) including a Local Structure Plan.

Dynamic Planning and Developments commissioned PGV Environmental to prepare an Environmental Assessment Report (EAR) to provide an assessment of the environmental attributes of the site to assess the proposed Structure Plan (Appendix 1) to ensure that any significant environmental features of the site are considered during planning.

1.3 Scope of Works

The Environmental Assessment Report includes:

- A description of the recent and present land use including:
  - Surrounding land uses;
  - Assessment of current and historical activities on the site and surrounding areas; and
  - A search of the Department of Water and Environmental Regulation Contaminated Sites and Water Information; and
  - Heritage features.
- A description of the physical characteristics including:
  - Geology and Soils;
  - Hydrology;
  - Acid Sulphate Soil Risk Mapping.
- A description of the flora, vegetation and fauna values from the site visit and previous studies undertaken on the site;

- A wetland/creekline assessment including a site visit, mapping of wetland vegetation and determining foreshore values as per guidance including:
    - Operation Policy 4.3: *Identifying and establishing waterways foreshore areas* (DoW 2012);
    - Guidance Note 6: *Identifying and establishing waterways foreshore areas* (DoW 2013); and
    - Water Note 23: *Determining foreshore reserves* (WRC 2001).
- Implications, if any, under Western Australian policies and legislation such as the Environmental Protection Act 1986 and *Biodiversity Conservation Act 2016* and the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*.

2 LEGISLATION, POLICY AND GUIDELINES

The environmental assessment of the site has taken into consideration the following legislation, policy and guidelines and these will guide the required and expected management outcomes from the Commonwealth, State and Local government agencies.

2.1 Commonwealth Legislation

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is the Australian Government's central piece of environmental legislation. It provides a legal framework to protect and manage nationally and internationally important heritage places, ecological communities, flora and fauna that are defined in the Act as Matters of National Environmental Significance (MNES).

The Environmental Assessment identifies any MNES that may be impacted by development on the site. There is some habitat for listed species of Black Cockatoos in the Structure Plan Area. Impacts on Black Cockatoo habitat will be quantified.

2.2 State Legislation

2.2.1 *Environmental Protection Act 1986*

The *Environmental Protection Act 1986* (EP Act) is administered by the Department of Water and Environment Regulation (DWER). The Act provides for conservation, preservation, protection, enhancement and management of the environment and for matters incidental to or connected with it. The Act establishes head powers to provide mechanisms for the development of Environmental Protection Policies (EPP), the referral and assessment of proposals, the control of pollution and enforcement.

The Act also provides for an Environmental Protection Authority (EPA) that is a statutory authority and is the primary provider of independent environmental advice to Government (Environmental Protection Authority, 2024). The EPA is assisted by the Office of the EPA that forms part of DWER.

The EP Act has several Parts that are particularly relevant to the proposed Light Industrial development.

Clearing Permit

The EP Act regulates the clearing of native vegetation under Part V, Division 2 (sections 51A–51T). Under the EP Act, clearing of native vegetation requires a permit from DWER unless there is an exemption under the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*. Proposals that have approval by means of a subdivision are exempt from requiring a clearing permit to clear native vegetation if implementing the subdivision in accordance with the subdivision conditions requires the clearing of native vegetation.

Works Approval

Works approvals in Western Australia are regulated under Part V, Division 3 of the Environmental Protection Act 1986 (EP Act). This section mandates that construction or modification of prescribed

premises, which have the potential to cause pollution or emissions, requires a works approval before work commences. Individual development may require approval under this party of the EP Act.

2.2.2 *Biodiversity Conservation Act 2016*

The *Biodiversity Conservation Act 2016* (BC Act) protects all native species and threatened ecological communities The BC Act recognises that activities involving the taking of flora or fauna (other than threatened species) and the disturbing of fauna (including threatened species) that are approved under the EP Act do not require further approval under the BC Act, if they are undertaken in accordance with any biodiversity conservation conditions that are applied to an authorisation. These activities include clearing of native vegetation done in accordance with an implementation decision under Part IV of the EP Act.

2.2.3 *Contaminated Sites Act 2003*

The *Contaminated Sites Act 2003* (WA) is legislation that establishes a framework for identifying, reporting, classifying, and remediating land contaminated by hazardous substances above background levels in Western Australia. It forces responsible parties (polluters or owners) to manage risks to human health and the environment.

2.2.4 *Aboriginal Heritage Act 1972*

The *Aboriginal Heritage Act 1972* (AH Act) protects all Aboriginal sites whether or not they are known and registered under the AH Act.

If any artefacts or other heritage values are discovered during preliminary searches consultation, clearing or construction works they will be required to be managed according to the AH Act.

2.3 State Policy and Guidance

2.3.1 State Planning Policy No. 2.8 Bushland Policy for the Perth Metropolitan Region

State Planning Policy No. 2.8 Bushland Policy for the Perth Metropolitan Region (SPP 2.8) (Government of Western Australia, 2010) in conjunction with Bush Forever (Government of Western Australia, 2000) seeks to ensure the protection of at least 10 per cent of the original extent of each vegetation complex within the Perth Metropolitan Region. SPP 2.8 was developed to ensure that bushland protection and management issues are appropriately addressed and integrated as a part of future land use. Bush Forever identified approximately 51,200 hectares of regionally significant vegetation for retention. The management of these areas include reservation and acquisition by the State government, negotiated planning solutions with owners who are seeking urban and/or industrial development and advice, assistance and incentive programs to support private conservation.

There is no vegetation on the site that has been identified for protection under Bush Forever and no Bush Forever sites adjacent to the site.

2.3.2 State Planning Policy No. 2.9 Water

State Planning Policy No. 2.9 *Water* (SPP 2.9) (Government of Western Australia, 2026) aims to ensure the protection and appropriate management of water resources in line with state guidelines as included within the planning framework. The broad objectives of this policy are to:

- Protect and improve the environmental and the social, cultural and economic values of the state's water resources.

- Protect public health and the long-term supply of good quality and affordable drinking water.
- Manage the risk of flooding to people, property and infrastructure.
- Ensure the secure and sustainable supply, use, disposal and re-use of water resources.
- Ensure future development is resilient to the water related impacts of climate change.
- Minimise future costs and protect public health by ensuring that appropriate wastewater infrastructure is provided.

As a part of implementing this policy, a framework guides how water resources should be considered at each stage of planning by identifying the various actions and investigations required with regard to regional and local planning strategies, town planning schemes, structure plans, subdivisions, strata subdivision and development applications as outlined in the Planning for Water Guidelines (WAPC, 2025).

2.3.3 Waterways Policy

Government policy and guidance relating to waterways foreshore areas is primarily administered by Department of Water and Environmental Regulation (DWER). A number of guidance documents assist with the determination of foreshore areas. These documents include:

- Operation Policy 4.3: *Identifying and establishing waterways foreshore areas* (DoW 2012);
- Guidance Note 6: *Identifying and establishing waterways foreshore areas* (DoW 2013); and
- Water Note 23: *Determining foreshore reserves* (WRC 2001).

2.3.4 Environmental Guidance for Planning and Development

The purpose of Environmental Protection Authority (EPA) Guidance Statement No. 33 *Environmental Guidance for Planning and Development* (EPA, 2008) is to outline the significance of environmental factors and to provide the key definitions associated with the environmental factors. Ensuring that environmental factors are considered in line with the EPA's principals and objectives and within the planning framework is what this EAR is primarily targeted at. In particular, EPA Guidance Statement No. 33 aims to:

- Provide an overview to environmental protection processes and information;
- Describe the referral and environmental impact assessment process under Part IV of the EP Act; and
- Provide the EPA's position and advice on a range of environmental factors, outlining how to protect, conserve and enhance the environmental values.

2.4 City of Kalamunda

The City of Kalamunda has a number of Local Planning Policies (LPPs) that detail the Shire's expectations with regard to managing the environment during planning and development as well as the factors that need to be considered throughout the planning process. Key LPPs and other guidelines that are applicable to the site and the environmental values within the site are outlined below:

- City of Kalamunda *Local Planning Scheme No.3* (WAPC, 2007) which requires Structure planning for the precinct to include:

1. *A structure plan is to be prepared and approved for the land pursuant to Part 4 of the deemed provisions and is to specifically address:*
   (a) Traffic management including:
      - *Provision of future vehicular access to be primarily via Adelaide Street;*
      - *Ensuring any vehicular access to Kalamunda Road does not reduce existing levels of access for adjacent properties; and*
      - *Access for lots with frontage to Stirling Crescent being provided via an internal road only.*
   (b) Appropriate interface with existing residential development along Stirling Crescent including setbacks, landscaping, fencing and façade treatment provisions;
   (c) The identification and protection of environmentally significant areas within the land through the provision of appropriate buffers; and
   (d) The identified bushfire risk in accordance with State Planning Policy 3.7 and Guidelines for Planning in Bushfire Prone Areas.
2. *Subdivision and / or development is to generally be in accordance with the approved structure plan.*

- City of Kalamunda *Local Biodiversity Strategy 2023-2030* (City of Kalamunda, 2023) which outlines the overarching management of Local Natural Areas and environmental assets in the City;
- City of Kalamunda Draft Local Planning Policy (LPP) 34 *Wetlands and Waterways* (City of Kalamunda, 2021) which outlines the planning considerations for wetlands and waterways. Relevant to the site the LPP requires the following;

3. *Waterway foreshore areas are determined by several biophysical characteristics that contribute to the health and function of the waterway ecosystem. The width of a waterway foreshore should therefore reflect the biophysical characteristics of the waterway.*
4. *Planning applications for proposals adjacent to waterways shall be accompanied by a biophysical assessment to determine an appropriate foreshore width, undertaken in accordance with the Department of Water's (now Department of Water and Environment Regulation) Operational Policy: Identifying and Establishing Waterway Foreshore Areas and the Water and Rivers Commission's (now Department of Water and Environment Regulation) Determining Foreshore Reserves.*
5. *The biophysical assessment shall be undertaken by a suitably qualified professional and shall include:*
   a) The extent, type and condition of the riparian and terrestrial native vegetation associated with or influencing the waterway.
   b) Flood prone land and areas subject to waterway channel changes, including the floodway and flood fringe.
   c) Riverine landform (topography and geomorphology).
   d) Landforms, soil types and soil characteristics that influence the extent of foreshore vegetation, erosion and the movement of nutrients and contaminants (including acid sulfate soils).
   e) Aquatic and riparian flora and fauna and their habitat.
   f) Land use compatibility.

g) *Heritage - archaeological and ethnographic sites.*

h) *Mapping of biophysical features and proposed foreshore boundary over recent aerial imagery.*

i) *Justification as to the location and extent of the proposed foreshore boundary.*

6. *In the absence of a biophysical assessment, the City may agree to a conservative foreshore width that adequately protects and enhances the hydrological, ecological, and social values of the waterway. In determining a conservative foreshore width, the City may rely on recent, high-quality aerial imagery, as well as a site visit to ensure waterway values will be adequately protected and enhanced.*

7. *The foreshore width to a waterway shall not be less than 15 m in width, measured each side of the waterway, extending outwards from the high water line.*

8. *Permissible activities or actions as part of, or as a result of, development proposals within the waterway foreshore include:*

a) *Rehabilitation of disturbed areas, including vegetation restoration, weed control and erosion control measures*

b) *Retention of all native vegetation*

c) *Passive recreation such as footpaths, where native vegetation is not adversely impacted*

d) *Conservation fencing and gates to controlled undesired access.*

Local Planning Policy 34 also provides a guideline for buffer distance to wetlands as outlined in Table 1.

Table 1: Buffer Distances as per Draft LPP 34

Category	**Wetland Management Category Objective (Hill *et al* 1996)**	**Buffer Distance (unless varied in accordance with Clause 6)**
Geomorphic Wetland-Conservation Category Wetland	To preserve wetland (natural) attributes and functions.	50 m
Geomorphic Wetland-Resource Enhancement Wetland	To restore wetlands through maintenance and enhancement of wetland functions and attributes.	30 m
Geomorphic Wetland-Multiple Use Wetland	To use, develop and manage wetlands in the context of water, town, and environmental planning.	No buffer requirement.

Source: Draft LPP 34 City of Kalamunda, 2021

- City of Kalamunda Draft Local Planning Policy (LPP) 35 *Hatch Court Light Industrial Precinct* (City of Kalamunda, 2022) which provides guidance for progressing the development potential of the site.

3 EXISTING ENVIRONMENT

3.1 Land Use

3.1.1 Historic Land Use

A review of historical aerial photography shows a mixture of dry and wet areas. The earliest aerial photography available is from 1953 (Landgate, 2025a) and shows the site has heavily cleared and disturbed probably for grazing at this early date (Plate 1). Some native vegetation remains.

Plate 1: Aerial Photograph from 1953 (Landgate, 2025a)



In aerial photography from 1985 a creekline is apparent, running from east to west through the middle of the site. A drainage channel has been constructed through the creekline (Plate 2). The 1985 photograph also show that development of the Stirling Precinct is underway as well as construction on Lot 200 Kalamunda Road.

The photograph from 1995 shows further development on the site (Plate 3). Lot 200 Kalamunda Road was fully developed for hardstand in 2023 to 2024 (Plate 4).

Plate 2: Aerial Photograph from 1985 (Landgate, 2025a)



Plate 3: Aerial Photograph from 1995 (Landgate, 2025a)



Plate 4: Aerial Photograph from 2000 (Landgate, 2025a)



The site is not a known or suspected contaminated site as listed under the *Contaminated Sites Act 2003* (DWER, 2025a). There may be small areas of contamination that may require investigation and possibly remediation prior to development.

3.1.2 Surrounding Land Use

To the north and west of the site is developed industrial land and to the south and east are residential areas and a retirement village. Ollie Worrel Reserve is approximately 300m to the south and contains breeding habitat for birds.

3.2 Heritage

3.2.1 European Heritage

Heritage sites can be listed under the following lists/registers:

- World Heritage Sites;
- National Heritage Sites;
- Commonwealth Heritage Sites;
- Sites on the register of the National Estate;
- Sites on the Western Australian Heritage Council Register; and
- Sites listed in the City of Kalamunda Municipal Heritage Inventory List.

There are no listed Heritage Sites or Interim Heritage Sites on the site (National Map, 2025; Heritage Council of Western Australia, 2025; DCCEEW, 2025).

3.2.2 Aboriginal Cultural Heritage

There is part of a listed Aboriginal Cultural Heritage Site mapped on the site, Site ID 3719 Munday Swamp (Appendix 2). There is also a lodged Aboriginal Cultural Heritage Site ID 30039, Stirling Crescent Swamp. Lodged Aboriginal Cultural Heritage Sites are mapped from information which has been received in relation to an Aboriginal cultural heritage place, but is yet to be assessed under Section 5 of the *Aboriginal Heritage Act 1972.*

3.3 Topography

The site is predominantly low lying and flat ranging from 21.15m Australian Height Datum (AHD) in the south-east, 24m AHD in the north and 22m AHD in the north-east corner (Figure 2). The site rises gently from the south-east to the north-west (Figure 2).

3.4 Geomorphology and Soils

3.4.1 Geology

The site is located on the eastern side of the Swan Coastal Plain. The Swan Coastal Plain is generally flat and is approximately 20 to 30 kilometres wide, consisting of a series of geomorphic entities running parallel to the coastline. The site is mapped as being part of the Pinjarra Plain System (DPIRD, 2025). The Pinjarra Plain has successive layering of soils formed from erosion of material from the scarp and east of the scarp (van Gool, 1999).

The Pinjarra Plain System consists of broad low relief plain west of the foothills, comprising predominantly Pleistocene fluvial sediments and some Holocene alluvium associated with major current drainage systems (Bolland, 1998). The major soils are naturally poorly drained and many swamps occur (DPIRD, 2025).

3.4.2 Soils

The soil phases mapped on the site are:

- Pinjarra, Ya2 Phase (213Pj_Ya2) is located on plain and swamp margins with deep, poorly drained, grey siliceous sand overlying clay.
- Pinjarra, Phase Gf7 (213Pj_Gf7) is located on minor rises with deep, rapidly drained brownish, siliceous or bleached sands underlain by mottled yellow clay (DPIRD, 2025).

3.4.3 Land Degradation Risks

The Land Degradation Risk Categories of the soil phases mapped on the site are outlined in Table 2.

Table 2: Land Degradation Risk Categories

Soil Type	Water Erosion	Wind Erosion	Waterlogging	Flooding	Salinity risk
Pinjarra, Ya2 Phase	<3% of map unit has a high to extreme water erosion risk	50-70% of map unit has a high to extreme wind erosion risk	>70% of map unit has a moderate to very high risk	<3% of the map unit has a moderate to high hazard	3-10% of the map unit has a moderate to high hazard

Soil Type	Water Erosion	Wind Erosion	Waterlogging	Flooding	Salinity risk
Pinjarra, Phase Gf7	<3% of map unit has a high to extreme water erosion risk	>70% of map unit has a high to extreme wind erosion risk	10-30% of map unit has a moderate to very high risk	<3% of the map unit has a moderate to high hazard	<3% of the map unit has a moderate to high hazard

In summary, all of the soils on the site have a risk of wind erosion. There is a low risk associated with the soils of water erosion or flooding and only the Pinjarra phase has a risk of waterlogging and salinity.

3.4.4 Acid Sulphate Soils

Acid sulphate soils (ASS) are wetland soils and unconsolidated sediments that contain iron sulphides which, when exposed to atmospheric oxygen in the presence of water, form sulphuric acid. ASS form in protected low energy environments such as barrier estuaries and coastal lakes and commonly occurs in low-lying coastal lands such as Holocene marine muds and sands. When disturbed, these soils are prone to produce sulphuric acid and mobilise iron, aluminium, manganese and other heavy metals. The release of these reaction products can be detrimental to biota, human health and built infrastructure.

The ASS Risk on the site has been mapped by the Department of Water and Environmental Regulation (DWER) (Landgate, 2025b) as being Moderate to Low (<3m from the surface) over most of the site (areas in orange on Plate 5). The areas associated with the wetter areas of the site are mapped as having a High to Moderate risk (<3m from the surface) (areas in red on Plate 5).

Plate 5: Acid Sulphate Soils Risk Mapping



3.5 Flora and Vegetation

3.5.1 Previous Studies

Previous studies undertaken on the site include:

- A flora and vegetation survey of Lot 200 Kalamunda Road was undertaken by ENV Australia (2009).
- A review of the flora, vegetation and wetland values of Lot 200 by Mattiske Consulting Pty Ltd (2010).
- Wetland assessment of the eastern part of the creekline (PGV Environmental, 2012);
- A vegetation appraisal for the northern section of the site in 2014 (PGV Environmental, 2014).

3.5.2 Desktop Searches

Searches of the following databases were undertaken prior to the site survey:

- DBCA Threatened and Priority Flora Databases including the WA Herbarium database (WAHerb) and Threatened (Declared Rare) and Priority Flora Species List (TFPL) (Appendix 3) (DBCA, 2025) for a radius of 10 km (Search Reference: 10-0925FL) that provides a list of Threatened and Priority species recorded in the area;
- Atlas of Living Australia (ALA, 2025) (Appendix 4) which shows all species that have been recorded within a 10km radius of the site.
- The EPBC Act Protected Matters Search Tool (DCCEEW, 2024) (Appendix 5) which identifies species that are listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) that could potentially have habitat within a 5km radius of the site.
- DBCA Threatened and Priority Ecological Community Database (Appendix 6) for a radius of 10km that provides a list of Threatened and Priority ecological communities recorded in the area (DBCA, 2025b) (Search Reference: 65-0825EC).

3.5.3 Survey Methodology

A Reconnaissance Flora and Vegetation Survey of the site was undertaken by PGV on 7 July 2025 in accordance with the Environmental Protection Authority Technical Guidance: *Flora and Vegetation Surveys for Environmental Impact Assessment* (2016). The survey included a review of previous studies and a thorough site walkover.

3.5.4 Flora Database Search Results

The results of the database searches and their likelihood to occur on the site is outlined in Table 3. Many of the species identified are from the Perth Hills or claypan habitats and do not have habitat on the site.

None of the species identified have been previously recorded on the site and there are no species expected to occur on the site as there is no suitable habitat due to previous clearing of the site.

Conservation codes are in Appendix 7.

Table 5: Identified Significant Flora Species and Likelihood of Occurring on the Site

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Caladenia huegelii	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	Critically Endangered	Endangered	The Grand Spider-orchid prefers deep grey-white sand usually associated with the Bassendean sand-dune system, however, rare plants have been known to extend into the Spearwood system (in which calcareous yellow sands dominate) in some areas (DEC, 2009a). This species generally does not survive in disturbed areas.	Highly Unlikely – the site is on the Pinjarra Plain
Calectasia cyanea	Blue Tinsel Lily	Critically Endangered	Critically Endangered	The Blue Tinsel Lily prefers white, grey or yellow sand or gravel. This species is restricted to Torndirrup National Park and Albany region of the South West Botanical Province (Barrett and Dixon, 2001).	No – species record in error – outside of species range
Calytrix breviseta subsp. *breviseta*	Swamp Starflower	Critically Endangered	Endangered	The Swamp Starflower occurs in sandy clay in swampy flats.	Highly Unlikely – not suitable habitat
Drakaea elastica	Glossy-leafed Hammer Orchid	Critically Endangered	Endangered	The Glossy-leafed Hammer Orchid prefers low-lying situations adjoining winter-wet swamps and grows on bare patches of sand within otherwise dense vegetation in low-lying areas alongside winter-wet swamps, typically in banksia (*Banksia menziesii*, *B. attenuata* and *B. ilicifolia*) woodland or spearwood (*Kunzea glabrescens*) thicket vegetation (DEC, 2009b).	Highly Unlikely – not suitable habitat
Eremophila nivea	Silky Eremophila	Critically Endangered	Endangered	Silky Eremophila occurs on sandy clay, clay loam on undulating plains, road verges.	No – species record in error – outside of species range
Eucalyptus x balanites	Cadda Road Mallee	Critically Endangered	Endangered	The Cadda Road Mallee prefers sandy soils with lateritic gravel.	Highly Unlikely – not lateritic habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Gastrolobium hamulosum	Hook-point Poison	Critically Endangered	Endangered	Hook-point Poison prefers sandy, often gravelly soils or clay and flats, slopes, ridges.	No – species record in error from 1844 – outside of species range
Grevillea maccutcheonii	McCutcheon's Grevillea	Critically Endangered	Endangered	McCutcheon's Grevillea prefers shallow soils over laterite, clay on seasonally inundated sites near Busselton.	No – species record in error – outside of species range
Grevillea thelemanniana	Spider Net Grevillea	Critically Endangered	Critically Endangered	Spider Net Grevillea occurs on sandy clay soil in flat seasonally wet damplands and limestone soils are associated with some of the sites (TSSC, 2018).	Highly Unlikely – not suitable habitat
Hemiandra rutilans	Sargents Snakebush, Colourful Snakebush	Critically Endangered	Endangered	Sargents Snakebush grows in yellow/grey sand and was originally collected at Sand Springs, south-west of York, which is now extinct. The most recent confirmed location was south of Dowerin where it grew in low Banksia prionotes woodland with *Eremaea pauciflora*, *Nuytsia floribunda* and *Verticordia densiflora* (DEC, 2008a).	No – species record in error from 1877 – outside of species range
Ptilotus pyramidatus	Pyramid Mulla-mulla	Critically Endangered	Critically Endangered	The Pyramid Mulla-mulla in known from one location and occurs on seasonally inundated flat (floodplain) with *Melaleuca acutifolia*, *Verticordia plumosa* var. *brachyphylla*, *Hypocalymma angustifolium*, *Meeboldii cana*, *Chorizandra enodis*, rushes, sedges and species-rich native annual herbs and geophytes (DPaW, 2016).	Highly Unlikely – not suitable habitat
Thelymitra dedmaniarum	Cinnamon Sun-orchid	Critically Endangered	Endangered	Cinnamon Sun-orchid is known from only two locations in the Gidgegannup area. It is confined to open wandoo woodland on red-brown sandy loam associated with dolerite and granite outcropping (DEC, 2012).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Thelymitra magnifica	Crystal Brook Star-orchid	Critically Endangered		The Crystal Brook Star-orchid occurs on stony ridges with granite outcrops (Brown et al., 2013)	Highly Unlikely – not suitable habitat
Thelymitra variegata	Queen of Sheba	Critically Endangered		The Queen of Sheba orchid grows on sandy clay, sand and laterite. The orchid is found in banksia and Jarrah woodland (Brown *et al*., 2013)	Highly Unlikely – not suitable habitat
Acacia denticulosa	Sandpaper Wattle	Endangered	Vulnerable	Sandpaper Wattle occurs in sand, loam, clay on granite outcrops, rarely on sandplains.	Highly Unlikely – not suitable habitat
Austrostipa bronweniae		Endangered	Endangered	*Austrostipa bronweniae* is recorded from wetlands seasonally waterlogged muddy sand with *Gahnia trifida*, *Actinostrobus pyramidalis*, *Grevillea thelemanniana*, *Melaleuca viminea* subsp. *viminea* (Australian National Herbarium, 2009).	Unlikely – not typical habitat
Byblis gigantea	Rainbow Plant	Endangered		The Rainbow Plant occurs in sandy-peat swamps in seasonally wet areas.	Highly Unlikely – not suitable habitat
Darwinia apiculata	Scarp Darwinia	Endangered	Endangered	The Scarp Darwinia grows in lateritic soils.	Highly Unlikely – not suitable habitat
Diplolaena andrewsii	Native Wild Rose	Endangered	Endangered	The Native Wild Rose occurs on loam, clay in association with granite outcrops and hillsides.	No – species record in error – outside of species range
Diuris drummondii	Tall Donkey Orchid	Endangered	Vulnerable	The Tall Donkey Orchid grows in low-lying depressions in peaty and sandy clay swamps (DEC, 2008), in areas that contain surface water well into summer (Brown *et al*., 2013).	Highly Unlikely – not suitable habitat
Diuris purdiei	Purdie's Donkey-orchid	Endangered	Endangered	Purdie's Donkey Orchid occurs in grey-black sand in moist winter-wet swamps with winter inundation in dense heath with scattered trees and amongst native sedges and dense heath with scattered emergent *Melaleuca preissiana*, *Corymbia calophylla*, *E. marginata* and *Nuytsia floribunda*.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Drakaea micrantha	Dwarf Hammer-orchid	Endangered	Vulnerable	Dwarf Hammer-orchid usually occurs on cleared fire breaks or open sandy patches in Banksia, Jarrah and Sheoak woodlands or forest and often found under Spearwood thickets.	Unlikely – not typical habitat
Eremophila glabra subsp. *chlorella*		Endangered	Endangered	*Eremophila glabra* subsp. *chlorella* occurs in sandy clay in winter-wet depressions associated with *Casuarina obesa*, *Viminaria juncea, Melaleuca lateritia, M. acutifolia, M. rhaphiophylla, M. viminea, M. teretifolia, M. brevifolia, Chorizandra enodis, Eucalyptus wandoo, E. loxophleba*, *Acacia saligna, A. microbotrya, Banksia telmatiaea, B. nivea* subsp. *nivea*, *Regelia ciliata, Petrophile seminuda, Verticordia densiflora* var. *densiflora* and *Calothamnus hirsutus* (DPaW, 2016).	Highly Unlikely – not suitable habitat
Grevillea curviloba	Narrow curved-leaf Grevillea	Endangered	Endangered	Narrow curved-leaf Grevillea prefers sand, sandy loam in winter-wet heath.	Highly Unlikely – not suitable habitat
Lepidosperma rostratum	Beaked Lepidosperma	Endangered	Endangered	Beaked Lepidosperma is found in peaty sand, clay associated with *Banksia telmatiaea* and *Calothamnus hirsutus*.	Highly Unlikely – not suitable habitat
Macarthuria keigheryi	Keighery's Macarthuria	Endangered	Endangered	Keighery's Macarthuria prefers white or grey sand on low-lying winter-wet damp sands growing among heathland, Jarrah and Sheoak/Banksia woodland and Banksia/Eucalypt Woodland (DEC, 2008b).	Highly Unlikely – not suitable habitat
Thelymitra stellata	Star Sun-orchid	Endangered	Endangered	The Star Sun-orchid grows in gravelly loam among low heath and scrub in *Eucalyptus marginata* (Jarrah) and *E. wandoo* (Wandoo) woodland, and in low heath on lateritic hill tops.	Highly Unlikely – not suitable habitat
Trithuria occidentalis	Swan Hydatella	Endangered	Endangered	Swan Hydatella grows partly submerged on the edge of shallow, winter-wet claypans in very open shrubland of Robin Redbreast Bush (*Melaleuca lateritica*) and numerous annual herbs.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Acacia anomala	Grass Wattle, Chittering Grass Wattle	Vulnerable	Vulnerable	The Grass Wattle prefers lateritic soils and slopes.	Highly Unlikely – not suitable habitat
Acacia aphylla	Leafless Rock Wattle	Vulnerable	Vulnerable	Leafless Rock Wattle occurs in sand, loam, clay loam on granite outcrops, hills.	Highly Unlikely – not suitable habitat
Andersonia gracilis	Slender Andersonia	Vulnerable	Endangered	Slender Andersonia occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps. Vegetation type is low open heath with shrubs over sedges (DEC, 2006).	Highly Unlikely – not suitable habitat
Anigozanthos viridis subsp. *terraspectans*	Dwarf Green Kangaroo Paw	Vulnerable	Vulnerable	The Dwarf Green Kangaroo Paw occurs on grey sand, clay loam in winter-wet depressions.	No – outside of species range
Anthocercis gracilis	Slender Tailflower	Vulnerable	Vulnerable	Slender Tailflower occurs in sandy or loamy soils near granite outcrops.	Highly Unlikely – not suitable habitat
Banksia mimica	Summer Honeypot	Vulnerable	Endangered	Summer Honeypot prefers white or grey sand over laterite, sandy loam.	Highly Unlikely – not suitable habitat
Boronia adamsiana	Barbalin Boronia	Vulnerable	Vulnerable	Barbalin Boronia occurs in yellow sand/loam over laterite on flats, road verges.	No – species record in error from 1889 – outside of species range
Chamelaucium lullfitzii	Gingin Wax	Vulnerable	Endangered	Gingin wax is restricted to a very small area associated with the Gingin scarp, south of Gingin where plants grow on white, grey, or yellow sands in low open banksia woodland (Marchant, 2019).	Highly Unlikely – not suitable habitat
Conospermum undulatum	Wavy-leaved Smokebush	Vulnerable	Vulnerable	Wavy-leaved Smokebush occurs on sand and sandy clay soils, often over laterite, on flat or gently sloping sites between the Swan and Canning Rivers with a few records from slightly swampy habitat (DEC, 2009c).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Diuris micrantha	Dwarf Bee-orchid	Vulnerable	Vulnerable	The Dwarf Bee-orchid is usually found on brown loamy clay in winter-wet swamps, in shallow water.	Highly Unlikely – not suitable habitat
Eleocharis keigheryi	Keighery's Eleocharis	Vulnerable	Vulnerable	Keighery's Eleocharis occurs in clay, sandy loam and is emergent in freshwater: creeks, claypans.	Highly Unlikely – not suitable habitat
Gastrolobium lehmannii	Cranbrook Pea	Vulnerable	Vulnerable	The Cranbrook Pea occurs in red clay, laterite on low hilltop of breakaway.	No – record in error – outside of species range
Grevillea flexuosa	Zig Zag Grevillea	Vulnerable	Vulnerable	Zig Zag Grevillea occurs in red-brown sand with laterite and gravel, sand over granite on ridgetop plateaus and associated breakaways.	Highly Unlikely – not suitable habitat
Morelotia australiensis (Listed as *Tetraria australiensis*)	Southern Tetraria	Vulnerable	Vulnerable	Southern Tetraria occurs in grey sand over clay; also described as yellow and sandy or clayey lateritic soils favouring winter-wet swampy depressions, drainage lines or rises surrounding swamps.	Unlikely – not typical habitat
Ptychosema pusillum	Dwarf Pea	Vulnerable	Vulnerable	Dwarf Pea occurs in sand on rises.	No – record in error – outside of species range
Ricinocarpos trichophorus	Barrens Wedding Bush	Vulnerable	Endangered	Barrens Wedding Bush grows in sandy clay, loam on breakaways, among sandstone rocks.	No – record in error – outside of species range
Amanita quenda	Quenda lepidella	Priority 1		Quenda lepidella are solitary or scattered, in moist sandy soil in wetland vegetation (Davidson *et al*., 2015).	Unlikely – not typical habitat
Bolboschoenus fluviatilis	River Bulrush	Priority 1		River Bulrush occurs on the margins of wetlands and rivers.	Unlikely – not typical habitat
Boronia humifusa		Priority 1		*Boronia humifusa* grows in gravelly clay loam over laterite in Jarrah-marri open forest.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Calandrinia sp. Bayswater (C. Andrews s.n. 11/1902)		Priority 1		*Calandrinia* sp. Bayswater is known from Bayswater growing in grey sand over sand.	Highly Unlikely – not suitable habitat
Drosera paleacea	Dwarf Sundew	Priority 1		Dwarf Sundew occurs in white sand, sandy clay.	No – record in error – occurs near Albany
Drosera patens		Priority 1		*Drosera patens* occurs in sandy soils on the margins of winter-wet depressions, swamps and lakes.	Unlikely – not typical habitat
Drosera x sidjamesii		Priority 1		*Drosera x sidjamesii* grows in peaty sand along lake margins, close to winter high-water line.	Highly Unlikely – not suitable habitat
Hydrocotyle striata		Priority 1		*Hydrocotyle striata* occurs in clay near springs.	Highly Unlikely – not suitable habitat
Korthalsella leucothrix	Jointed Mistletoe	Priority 1		Jointed Mistletoe occurs on *Acacia acuminata* and *A. craspedocarpa*.	No – record in error – outside of species range
Levenhookia preissii	Preiss's Stylewort	Priority 1		Preiss's Stylewort occurs in grey or black peaty sands in swamps.	Highly Unlikely – not suitable habitat
Senecio gilbertii		Priority 1		Senecio gilbertii grows in peaty sand near swamps on slopes.	Highly Unlikely – not suitable habitat
Acacia benthamii		Priority 2		*Acacia benthamii* grows on sand, typically on limestone breakaways	Highly Unlikely – not limestone habitat
Calectasia grandiflora	Blue Tinsel Lily	Priority 2		Blue Tinsel Lily occurs in white, grey or yellow sand, sandy clay, gravel, laterite and granite in swampy areas, rock outcrops, flats, slopes and ridges.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Calymperastrum latifolium		Priority 2		*Calymperastrum latifolium* is recorded from a shaded *Macrozamia* stem on a large rocky outcrop (Western Australian Herbarium, 1994).	No – no host plants on the site
Commersonia sp. Lesmurdie (A.A. Mitchell 11429)		Priority 2		*Commersonia* sp. Lesmurdie is recorded from sloping seepage with brown cracking clay soil on basalt sill (Western Australian Herbarium, 2022).	Highly Unlikely – not suitable habitat
Johnsonia pubescens subsp. *cygnorum*		Priority 2		Johnsonia pubescens subsp. cygnorum occurs on grey-white-yellow sand often overlying clays in Jarrah/Banksia woodland (Keighery, 2001) on flats on seasonally-wet sites	Highly Unlikely – not suitable habitat
Lepyrodia curvescens		Priority 2		*Lepyrodia curvescens* occurs in sand, laterite in seasonally inundated swampland.	Highly Unlikely – not suitable habitat
Leucopogon sp. Busselton (D. Cooper 243)		Priority 2		*Leucopogon* sp. Busselton is recorded from a seasonal dampland in seasonally wet, white sand (Western Australian Herbarium, 2011).	Highly Unlikely – not suitable habitat
Petrophile carduacea		Priority 2		Petrophile carduacea occurs in gravelly soils.	No – record in error – occurs in the Stirling Range
Poranthera moorokatta		Priority 2		*Poranthera moorokatta* grows in white silica sand and has been recorded in Banksia woodland and in a shallow dampland (Barrett, 2012).	Highly Unlikely – not suitable habitat
Scaevola paludosa		Priority 2		Scaevola paludosa prefers sandy soils.	No – record in error – occurs near Esperance
Stylidium falcatum	Slender Beaked Triggerplant	Priority 2		Slender Beaked Triggerplant occurs in sand, gravelly clay loam on plains, lateritic ridges.	No – record in error – occurs near Albany

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Thomasia brachystachys		Priority 2		*Thomasia brachystachys* occurs in littered, organic brown soil in high, open or dense forests.	No – record in error – occurs in the Stirling Range
Acacia drummondii subsp. *affinis*		Priority 3		*Acacia drummondii* subsp. *affinis* grows in lateritic gravelly soils.	Highly Unlikely – not suitable habitat
Acacia horridula		Priority 3		*Acacia horridula* grows in gravelly soils over granite, sand on rocky hillsides.	Highly Unlikely – not suitable habitat
Acacia oncinophylla subsp. *oncinophylla*		Priority 3		*Acacia oncinophylla* subsp. *oncinophylla* occurs in granitic soils	Highly Unlikely – not suitable habitat
Allocasuarina grevilleoides		Priority 3		*Allocasuarina grevilleoides* grows in sand over laterite, gravel.	Highly Unlikely – not suitable habitat
Amanita carneiphylla	Miller's Pink-Gilled Lepidella	Priority 3		Miller's Pink-Gilled Lepidella is a deeply rooting species and grows in sandy soil with *Eucalyptus*, *Banksia*, and *Allocasuarina* and at one site, Mediterranean *pine* (Pinus) was also found (Tulloss, 2022).	Highly Unlikely – not suitable habitat
Amanita drummondii	Drummond's Grisette	Priority 3		Drummond's Grisette is solitary to gregarious in leaf litter in association with *Agonis flexuosa, A. theiformis, Allocasuarina fraseriana, Corymbia calophylla, Eucalyptus marginata, E. patens, E. staeri, Jacksonia furcellata, Kunzea glabrescens, Melaleuca sp., Podocarpus drouynianus, Taxandria parviceps*. (Davidson *et al*., 2015) growing in sandy soil (Amanitaceae Org, 2015).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Amanita fibrillopes	Peach Amanita	Priority 3		Peach Amanita is recorded from sandy or gravelly soil in dry sclerophyll forest and Banksia woodland, or in humus rich soil in seasonally wet eucalypt and paperbark woodland, often associated with *Eucalyptus marginata, E. jacksonii, Allocasuarina fraseriana, Corymbia calophylla, Melaleuca preissiana* and *Agonis* sp. (Davison *et al*., 2013).	Highly Unlikely – not suitable habitat
Amanita kalamundae	Kalamunda Lepidella	Priority 3		Kalamunda Lepidella is found In deep litter under *Eucalyptus patens* and *Agonis eriofolia* (Amanitaceae Org, 2018).	Highly Unlikely – not suitable habitat
Amanita preissii	Cinnamon-ring Lepidella	Priority 3		Cinnamon-ring Lepidella is found under shrubs and Eucalyptus in West Australia (Amanitaceae Org, 2015) in sandy soil and lateritic gravel, associated with *Allocasuarina fraseriana, Acacia pulchella, Corymbia calophylla, Callitris sp., Eucalyptus gomphocephala, E. marginata, Macrozamia fraseri* and *Pinus pinaster* (Davidson *et al.,* 2017).	Highly Unlikely – not suitable habitat
Angianthus drummondii		Priority 3		*Angianthus drummondii* grows in grey or brown clay soils, ironstone on seasonally wet flats.	Highly Unlikely – not suitable habitat
Angianthus micropodioides		Priority 3		*Angianthus micropodioides* occurs in saline sandy soils on river edges, saline depressions, claypans.	Highly Unlikely – not suitable habitat
Asteridea gracilis		Priority 3		Asteridea gracilis prefers sand, clay, gravelly soils.	Highly Unlikely – not suitable habitat
Babingtonia urbana	Coastal Plain Babingtonia	Priority 3		Coastal Plain Babingtonia occurs in orange sand, brown loam, white sandy clay on low flats, winter-wet swamps.	Highly Unlikely – not suitable habitat
Banksia pteridifolia subsp. *vernalis*		Priority 3		*Banksia pteridifolia* subsp. *vernalis* occurs in white/grey sand over laterite.	Unlikely – not typical habitat
Beaufortia purpurea	Purple Beaufortia	Priority 3		Purple Beaufortia occurs in lateritic or granitic soils on rocky slopes.	Unlikely – not typical habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Carex tereticaulis		Priority 3		Carex tereticaulis prefers black peaty sand.	Highly Unlikely – not peaty habitat
Chamaescilla gibsonii		Priority 3		*Chamaescilla gibsonii* grows in clay to sandy clay on winter-wet flats, shallow water-filled claypans.	Highly Unlikely – not claypan habitat
Comesperma rhadinocarpum	Slender-fruited Comesperma	Priority 3		Slender-fruited Comesperma occurs in sandy soils	Unlikely – not typical habitat
Conostylis bracteata		Priority 3		Conostylis bracteata occurs in sand, limestone on consolidated sand dunes.	Highly Unlikely – not dune habitat
Cupaniopsis anacardioides	Tuckeroo	Priority 3		Tuckeroo occurs in vine thickets.	No – record in error – occurs in the Kimberley
Cyathochaeta teretifolia		Priority 3		*Cyathochaeta teretifolia* occurs in grey sand, sandy clay on swamps, creek edges.	Unlikely – not typical habitat
Dampiera sericantha		Priority 3		*Dampiera sericantha* occurs in sand, sometimes with gravel on plains.	No – record in error – occurs in on the south coast
Dampiera triloba		Priority 3		*Dampiera triloba* grows in loamy sand (Australian National Herbarium, 2009) in lower lying areas.	Unlikely – not typical habitat
Dillwynia dillwynioides		Priority 3		*Dillwynia dillwynioides* occurs in sandy soils in winter-wet depressions.	Highly Unlikely – not suitable habitat
Eryngium subdecumbens		Priority 3		*Eryngium subdecumbens* grows in clay, grey sand on seasonally wet flats, claypans, swamps.	Highly Unlikely – not claypan habitat
Grevillea dissectifolia		Priority 3		*Grevillea dissectifolia* occurs in gravelly loam in moist areas and on roadsides.	Highly Unlikely – not suitable habitat
Haemodorum loratum		Priority 3		*Haemodorum loratum* prefers grey or yellow sand, gravel.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Halgania corymbosa		Priority 3		*Halgania corymbosa* prefers gravelly soils, soils over granite.	Highly Unlikely – not suitable habitat
Isopogon autumnalis	Autumn Isopogon	Priority 3		Autumn Isopogon occurs in white, grey or yellow sand, often over laterite.	Unlikely – not typical habitat
Jacksonia gracillima		Priority 3		*Jacksonia gracillima* occurs in grey and brown well-drained sand.	Highly Unlikely – not suitable habitat
Lasiopetalum glutinosum subsp. *glutinosum*		Priority 3		*Lasiopetalum glutinosum* subsp. *glutinosum* occurs in lateritic and granitic soils.	Highly Unlikely – not suitable habitat
Lasiopetalum membranaceum		Priority 3		*Lasiopetalum membranaceum* grows in sand over limestone.	Highly Unlikely – not limestone habitat
Meionectes tenuifolia		Priority 3		*Meionectes tenuifolia* occurs on swamp margins on seasonally wet poorly drained flats or granite flats in shallow soils.	Highly Unlikely – not suitable habitat
Myriophyllum echinatum		Priority 3		*Myriophyllum echinatum* grows in clay on winter-wet flats.	Highly Unlikely – not clay habitat
Pimelea calcicola		Priority 3		Pimelea calcicola occurs in sand on coastal limestone ridges.	Highly Unlikely – not limestone habitat
Pithocarpa corymbulosa	Corymbose Pithocarpa	Priority 3		Corymbose Pithocarpa occurs in gravelly or sandy loam amongst granite outcrops.	Highly Unlikely – not clay habitat
Platysace ramosissima		Priority 3		*Platysace ramosissima* prefers sandy soils over limestone.	Highly Unlikely – not limestone habitat
Schoenus benthamii		Priority 3		*Schoenus benthamii* prefers white, grey sand, sandy clay in winter-wet flats, swamps.	Unlikely – not typical habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Schoenus capillifolius		Priority 3		*Schoenus capillifolius* grows in brown mud on claypans.	Highly Unlikely – not claypan habitat
Sporobolus blakei		Priority 3		*Sporobolus blakei* grows in red sandy clay, loam associated with creeks.	Unlikely – not typical habitat
Stackhousia sp. Red-blotched corolla (A. Markey 911)		Priority 3		*Stackhousia* sp. Red-blotched corolla is recorded from light brown yellow silty-gravel, with surface granite and lateritic gravel and cobbels, on a very steep slope (Western Australian Herbarium, 1996)	Highly Unlikely – not suitable habitat
Stylidium aceratum		Priority 3		*Stylidium aceratum* occurs in sandy soils in swamp heathland.	Highly Unlikely – not suitable habitat
Stylidium paludicola		Priority 3		*Stylidium paludicola* prefers peaty sand over clay in winter wet habitats in Marri and Melaleuca woodland, Melaleuca shrubland.	Highly Unlikely – not peaty habitat
Styphelia filifolia		Priority 3		*Styphelia filifolia* occurs in sandy soils of the coastal plain (with one known occurrence from the northern Darling Scarp), usually in Banksia or Jarrah woodland and in low-lying situations (Hislop and Lelièvre, 2017).	Unlikely – not typical habitat
Thysanotus anceps		Priority 3		*Thysanotus anceps* grows on white or grey sand, lateritic gravel, laterite.	Highly Unlikely – not lateritic habitat
Tricostularia drummondii	Drummond's Tricostularia	Priority 3		Drummond's Tricostularia grows in low woodland or mallee over sand or laterite, on flats, rises or sometimes in swampy areas (Barrett *et al*., 2021).	Unlikely – not typical habitat
Acacia oncinophylla subsp. *patulifolia*		Priority 4		*Acacia oncinophylla* subsp. *patulifolia* occurs on granitic soils, occasionally on laterite.	Highly Unlikely – not suitable habitat
Aponogeton hexatepalus	Stalked Water Ribbons	Priority 4		Stalked Water Ribbons grow in freshwater: ponds, rivers, claypans	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Calothamnus accedens		Priority 4		*Calothamnus accedens* occurs in sandy soils over laterite on road verges.	Highly Unlikely – not suitable habitat
Cyanothamnus tenuis	Blue Boronia	Priority 4		Blue Boronia prefers laterite, stony soils, granite.	Highly Unlikely – not suitable habitat
Darwinia pimelioides		Priority 4		*Darwinia pimelioides* prefers loam, sandy loam on granite outcrops.	Highly Unlikely – not suitable habitat
Dodonaea hackettiana	Hackett's Hopbush	Priority 4		Hackett's Hopbush occurs in sand with outcropping limestone.	Highly Unlikely – not limestone habitat
Drosera occidentalis	Western Sundew	Priority 4		The Western Sundew occurs in sandy and clayey soils in swamps and wet depressions.	Highly Unlikely – not suitable habitat
Grevillea pimeleoides		Priority 4		*Grevillea pimeleoides* grows in gravelly soils over granite on rocky hillsides.	Highly Unlikely – not suitable habitat
Hydrocotyle lemnoides	Aquatic Pennywort	Priority 4		Aquatic Pennywort occurs in swamps	Highly Unlikely – not suitable habitat
Jacksonia sericea	Waldjumi	Priority 4		Waldjumi grows in calcareous and sandy soils.	Highly Unlikely – not calcareous habitat
Lasiopetalum bracteatum	Helena Velvet Bush	Priority 4		Helena Velvet Bush occurs in sandy clay, clay, lateritic gravel along drainage lines, creeks, gullies, granite outcrops.	Highly Unlikely – not suitable habitat
Microtis quadrata	South Coast Mignonette Orchid	Priority 4		South Coast Mignonette Orchid occurs on clay based coastal flats (Brown *et al*., 2013).	Highly Unlikely – not suitable habitat
Ornduffia submersa		Priority 4		Ornduffia submersa grows in freshwater 0.05-0.6 m deep in pools, lakes, swamps, winter-wet depressions, claypans.	Highly Unlikely – not suitable habitat
Pimelea rara	Summer Pimelea	Priority 4		Summer Pimelea occurs in lateritic soils.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Schoenus griffinianus		Priority 4		*Schoenus griffinianus* grows in white sand in low heath (Wilson, 1997).	Highly Unlikely – not suitable habitat
Senecio leucoglossus		Priority 4		*Senecio leucoglossus* prefers gravelly lateritic or granitic soils with granite outcrops on slopes.	Highly Unlikely – not suitable habitat
Stylidium longitubum	Jumping Jacks	Priority 4		Jumping Jacks prefer sandy clay, clay in seasonal wetlands.	Highly Unlikely – not clay habitat
Thysanotus glaucus		Priority 4		*Thysanotus glaucus* occurs in white, grey or yellow sand, sandy gravel.	Unlikely – not typical habitat
Verticordia lindleyi subsp. *lindleyi*		Priority 4		*Verticordia lindleyi* subsp. *lindleyi* prefers sand, sandy clay in winter-wet depressions.	Highly Unlikely – not suitable habitat

* sourced from Florabase as well as the DBCA database searches unless otherwise denoted

3.5.5 TEC/PEC Database Search

A search of DBCA's Threatened (TEC) and Priority Ecological Communities (PEC) database identified six TECs and seven PECs (Appendix 5) as having been recorded within 10km of the site. Two of the PECs are part of a Federally listed TEC. The communities identified in the database searches are outlined in Table 4.

Table 4: TEC and PECs Identified in Database Search

Number	Description	Conservation Status in Western Australia	Status under the EPBC Act
SCP02	Southern wet shrublands, Swan Coastal Plain (floristic community type 2 as originally described in Gibson et al. 1994)	Critically Endangered	
SCP3a	*Corymbia calophylla - Kingia australis* woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	Critically Endangered	Endangered
SCP3b	*Corymbia calophylla - Eucalyptus marginata* woodlands on sandy clay soils of the southern Swan Coastal Plain (floristic community type 3b as originally described in Gibson et al. 1994)	Endangered	
SCP3c	*Corymbia calophylla - Xanthorrhoea preissii* woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	Endangered	Endangered
SCP20a	*Banksia attenuata* woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	Critically Endangered	Endangered as part of the Banksia WL SCP
SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	Critically Endangered	Endangered
SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	Endangered	Critically Endangered as part of the Herb Rich Saline Shrublands in Clay Pans
SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	Endangered	Critically Endangered as part of the Herb Rich Saline Shrublands in Clay Pans
SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	Endangered	Critically Endangered

Number	Description	Conservation Status in Western Australia	Status under the EPBC Act
Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	Endangered	Endangered
SCP21c	Low lying *Banksia attenuata* woodlands or shrublands	Priority 3	Endangered as part of the Banksia WL SCP
Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered
Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable
Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4	

The Banksia Woodland TEC is mapped on the site over an area that is mapped as *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily which is not representative of the TEC and therefore the mapping was not considered to be accurate.

3.5.6 Flora

No Threatened or Priority flora species have been recorded on the site and none were recorded during the Reconnaissance survey. A low number of native species were recorded on the site including:

- *Eucalyptus rudis* (Flooded Gum);
- *Melaleuca rhaphiophylla* (Paperbark);
- *Astartea fascicularis*;
- *Typha orientalis* (Bulrush);
- *Juncus pallidus* (Pale Rush);
- *Hypocalymma angustifolium* (Pink-flowered Myrtle);
- *Lepidosperma longitudinale* and
- *Dielsia stenostachya.*

Most of the trees on the site are planted exotic species.

Weed species recorded on the site included:

- *Arctotheca calendula* (Cape Weed);
- *Cenchrus clandestinus* (Kikuyu);
- *Conyza bonariensis* (Fleabane);
- *Cynodon dactylon* (Couch);
- *Eragrostis curvula* (African Lovegrass);
- *Holcus lanatus* (Yorkshire Fog grass);
- *Leptospermum laevigatum* (Victorian Teatree);

- *Moraea flaccida* (Cape Tulip);
- *Oxalis pes-caprae* (Soursob);
- *Paspalum dilatatum* (Paspalum);
- *Pelargonium capitatum* (Rose Pelargonium);
- *Rumex acetosella* (Sorrel);
- *Schinus terebinthifolia* (Brazilian Pepper trees);
- *Taraxacum officinale* (Dandelion);
- *Taraxacum officinale* (Dandelion);
- *Trifolium* sp. (Clover); and
- *Vicia sativa* (Common Vetch).

The creekline has a weedy understorey of:

- *Cenchrus clandestinus* (Kikuyu);
- *Zantedeschia aethiopica* (Arum Lily) – a Declared Pest and Weed of National Significance (WoNS);
- *Washingtonia filifera* (Cotton Palm);
- *Gomphocarpus fruticosus* (Cotton Bush), a Declared Pest; and
- *Arundo donax* (False Bamboo).

3.5.7 Vegetation Complex

Vegetation Complexes are a broad level of vegetation description which is based on the underlying geomorphology and rainfall (Heddle *et al*., 1980). The vegetation on the site is part of the Southern River Vegetation Complex (Heddle *et al.,* 1980). The Southern River Vegetation Complex is described as "open woodland of *Corymbia calophylla-Eucalyptus marginata-Banksia* species with fringing woodland of *Eucalyptus rudis-Melaleuca rhaphiophylla* along creek beds". This vegetation is too degraded to be a good example of this vegetation complex.

3.5.8 Vegetation Types

Five vegetation types have been described on the site in 2014 and the 2025. The vegetation previously recorded on Lot 200 Kalamunda Road, Lot 100 and Lot 9000 Adelaide Street has since been cleared from earlier observations. The remaining vegetation types are:

Cleared Areas that contain no, or very few, native plants and are vegetated by exotic species.

ErMr *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily.

Er *Eucalyptus rudis* Woodland to Low Forest over Pasture.

Mr *Melaleuca rhaphiophylla* Low Woodland over Typha and Arum Lily.

MrAf *Melaleuca rhaphiophylla/Astartea fascicularis* Thicket to Low Woodland (Figure 3).

3.5.9 Vegetation Condition

The condition of the vegetation was assessed according to the system devised by Keighery and described in Bush Forever (Government of Western Australia, 2000) (Table 5).

Table 5: Vegetation Condition Rating Scale

Condition	Description
Pristine	Pristine or nearly so, no obvious signs of disturbance.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
Very Good	Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Source: Government of Western Australia, 2000.

A large area of the site has been cleared for rural purposes or contains only introduced species and is Completely Degraded. The northern area is considered to be Degraded to Completely Degraded and consists of native trees over bare sand and weeds. The small eastern area of remnant vegetation associated with the RE wetland is considered to be in Degraded to Good Condition and consists of a native tree and sedge species with a number of weed species present. The western area of wetland vegetation is considered to be in Degraded Condition with native trees over weeds.

There is an abundance of the Declared Weed *Zantedeschia aethiopica* (Arum Lily) in the western area. In addition, the aggressive wetland species *Typha orientalis* (Bulrush) is abundant in the drainage line.

Vegetation condition is shown in Figure 4.

3.5.10 Conservation Significance of Flora and Vegetation

3.5.10.1 Flora

The were no conservation significant species that were deemed likely to be on the site. The overall poor condition of the vegetation suggests the potential for any of these species to occur is extremely low. All species identified are perennial species so would have been present during the reconnaissance survey.

3.5.10.2 Vegetation Association

The Southern River complex has 18.43% of its pre-European extent remaining, of which 1.37% is protected for conservation purposes (DBCA, 2018). The EPA considers that vegetation complexes with less than 10% remaining in constrained areas such as the Perth Metropolitan Region are regionally significant and that for these complexes there is a presumption that all areas of remnant native

vegetation where less than 10% remains will be retained and conserved. The 18.43% retention amount for the Southern River Complex is above the 10% target.

The vegetation on the site is too degraded to be a good representation of this vegetation complex.

3.5.10.3 Threatened and Priority Ecological Communities

There is no intact vegetation on the site and therefore no vegetation that is representative of a Threatened or Priority Ecological Community.

3.6 Fauna

3.6.1 Methodology

A Basic Fauna Survey was undertaken in accordance with EPA Technical Guidance *Fauna Surveys for Environmental Impact Assessment* (EPA, 2020). Desktop studies were undertaken to identify habitats and potential threatened species that may occur on the site.

Searches of the following databases were undertaken prior to the site survey:

- Atlas of Living Australia (ALA, 2025) which shows all species that have been recorded within a 10km radius of the site (Appendix 2).
- The EPBC Act Protected Matters Search Tool (DCCEEW, 2025) (Appendix 3) which identifies species that are listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) that could potentially have habitat within a 5km radius of the site.

A site reconnaissance was conducted by PGV Environmental on 7 July 2025 to describe the fauna habitats on the site. Desktop studies were undertaken to identify habitats and potential threatened species that may occur on the site. The likelihood of the site providing habitat to identified conservation significant fauna species was determined.

3.6.2 Fauna Habitats

There are four fauna habitats on the site as follows:

- Upland Banksia sp. and Eucalyptus todtiana scattered over cleared understorey;
- Wetland with Melaleuca rhaphiophylla and Eucalyptus rudis over weedy understorey;
- Wetland with weeds; and
- Cleared paddocks with scattered exotic trees.

The cleared hardstand area is not considered to have any fauna habitat value.

Fauna habitat can be assessed using a number of factors including, the size of the habitat, the level of habitat connectivity, availability of specific resources (e.g., tree hollows) and overall vegetation quality. The habitat was assessed according to the categories in Table 6.

Table 6: Fauna Habitat Value

Habitat Value	Description
High Quality Fauna Habitat	These areas closely approximate the vegetation mix and quality that would have been in the area prior to any disturbance. The habitat has connectivity with other habitats and is likely to contain the most natural vertebrate fauna assemblage.

Habitat Value	Description
Very Good Fauna Habitat	These areas show minimal signs of disturbance (e.g., grazing, clearing, fragmentation, weeds) and generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be minimally affected by disturbance.
Good Fauna Habitat	These areas showed signs of disturbance (e.g., grazing, clearing, fragmentation, weeds) but generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be affected by disturbance.
Disturbed Fauna Habitat	These areas showed signs of significant disturbance. Many of the trees, shrubs and undergrowth are cleared. These areas may be in the early succession and regeneration stages. Areas may show signs of significant grazing, contain weeds or have been damaged by vehicle or machinery. Habitats are fragmented or have limited connectivity with other fauna habitats. Fauna assemblages in these areas are likely to differ significantly from what might be expected in the area had the disturbance not occurred.
Highly Degraded Fauna Habitat	These areas often have a significant loss of vegetation, an abundance of weeds, and a large number of vehicle tracks or are completely cleared. Limited or no fauna habitat connectivity. Faunal assemblages in these areas are likely to be significantly different to what might have been in the area pre-disturbance.

From: Coffey Environments, 2009

The quality of the fauna habitat on the site is also limited due to it being fragmented from other areas of native vegetation, the closest being Munday Swamp approximately 1km to the south-west. The scattered parkland trees are considered to be Highly Degraded Fauna Habitat due to the cleared understorey.

The wetland areas on the site containing native trees are considered to be Disturbed Fauna Habitat. The understorey consists completely of weeds apart from a small section in the eastern area containing *Lepidosperma longitudinale*. The eastern section has been invaded by Brazilian Pepper trees and the western section contains an abundance of Arum Lily. The drainage line with weeds such as False Bamboo and Bulrushes is considered to be Highly Degraded Fauna Habitat due to the absence of any native flora species.

The cleared paddocks with scattered exotic trees on the site consist of Highly Degraded Fauna Habitat due to the significant loss of vegetation. The increased amounts of grass and weed species are likely to result in a high abundance of introduced fauna species such as House Mice and Black Rats. The drainage line is disturbed fauna habitat but provides habitat for some frog and waterbird species and there is anecdotal evidence that it supports a population of Oblong Turtles (*Chelodina oblonga*).

3.6.3 Conservation Significant Species

Outlined in Table 7 is a short description of the preferred habitat for each of the species that were identified in the database searches and their preferred habitats. The preferred habitat has been compared to the habitats on the site described above and the likelihood of each species to be present was determined. Species recorded in the database search results that live in the ocean or birds that are marine and pelagic have not been included in the assessment. No records are located on the site.

Table 7: Identified Significant Fauna Species and Likelihood of Occurring on the Site

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Bettongia penicillata ogilbyi	Woylie, Brush-tailed Bettong	Critically Endangered	Endangered	The Woylie habitat types ranged from forest to grassland, coastal and inland. During the day the Woylie shelters under patches of dense undergrowth, logs and rock-cavities and occasionally in burrows.	Highly Unlikely – not suitable habitat and the site is too disturbed
Calidris ferruginea	Curlew Sandpiper	Critically Endangered	Critically Endangered	Curlew Sandpipers mainly occur on intertidal mudflats in sheltered coastal areas, such as estuaries, bays, inlets and lagoons, and also around non-tidal swamps, lakes and lagoons near the coast, and ponds in saltworks and sewage farms.	Highly Unlikely – not suitable habitat and the site is too disturbed
Cherax tenuimanus	Margaret River Hairy Marron	Critically Endangered	Critically Endangered	The Margaret River Hairy Marron occurs in fresh water in the Margaret River Area.	No – no suitable habitat
Numenius madagascariensis	Eastern Curlew	Critically Endangered	Critically Endangered	The Eastern Curlew is most commonly associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass. Occasionally, the species occurs on ocean beaches (often near estuaries), and coral reefs, rock platforms, or rocky islets.	Highly Unlikely – not suitable habitat and the site is too disturbed
Pseudemydura umbrina	Western Swamp Tortoise	Critically Endangered	Critically Endangered	The Western Swamp Tortoise is restricted to very few wild populations. During winter and spring, the tortoises live in the water. This species is carnivorous feeding on insects, larvae and tadpoles (Burbidge and Kuchling, 1994). In the drier, hotter months they shelter under leaf litter and in holes and aestivate (sleep).	No – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Pseudocheirus occidentalis	Western Ringtail Possum, Ngwayir	Critically Endangered	Critically Endangered	The Western Ringtail Possum is a medium sized nocturnal marsupial. This species occurs in and near coastal Peppermint Tree (*Agonis flexuosa*) forest and Tuart (*Eucalyptus gomphocephala*) dominated forest with a Peppermint Tree understorey.	No – not suitable habitat
Botaurus poiciloptilus	Australasian bittern	Endangered	Endangered	The Australasian Bittern occurs mainly in densely vegetated freshwater wetlands and, rarely, in estuaries or tidal wetlands.	Highly Unlikely – not suitable habitat and the site is too disturbed
Leioproctus douglasiellus	A Short-tongued Bee	Endangered	Critically Endangered	The short-tongued bee species is only known from three locations within the Perth metropolitan area ranging from Cannington to Forrestdale. Specimens have been collected on two plant species, Goodenia filiformis and Anthotium junciforme (TSSC, 2013).	Highly Unlikely – no suitable host plants
Myrmecobius fasciatus	Numbat, Walpurti	Endangered	Endangered	Numbats occur in eucalypt forests and woodlands dominated by *Eucalyptus marginata*, *Corymbia calophylla* and *Eucalyptus wandoo*.	Highly Unlikely – not suitable habitat and the site is too disturbed
Rostratula australis	Australian Painted Snipe	Endangered	Endangered Marine/ Migratory	The Australian Painted Snipe has been recorded at wetlands in all states of Australia but is most common in eastern Australia. It generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. It also uses inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include a cover of vegetation, including grasses.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Zanda baudinii	Baudin's Black Cockatoo	Endangered	Endangered	Baudin's Black-Cockatoo mainly occurs in eucalypt forests, especially Jarrah (Eucalyptus marginata), Marri (Corymbia calophylla), also Karri (Eucalyptus diversicolor) forest, often feeding in the understorey on proteaceous trees and shrubs, especially banksias (DAWE, 2022).	Possible intermittent visitor– limited habitat occurs on the site
Zanda latirostris	Carnaby's Black Cockatoo	Endangered	Endangered	Carnaby's Cockatoo is found in the south-west of Australia from Kalbarri through to Ravensthorpe. It has a preference for feeding on the seeds of Banksia, Hakea, Eucalyptus, Grevillea, Pinus and Allocasuarina spp. It is nomadic often moving toward the coast after breeding. It breeds in tree hollows that are 2.5 - 12m above the ground and have an entrance 23-30cm with a depth of 1-2.5m. Nesting mostly occurs in smooth-barked trees (e.g. Salmon Gum, Wandoo, Red Morrell) (DAWE, 2022).	Possible intermittent visitor– limited habitat occurs on the site
Calyptorhynchus banksii naso	Forest Red-tailed Black-Cockatoo	Vulnerable	Vulnerable	Forest Red-tailed Black Cockatoos frequent the humid to sub-humid south-west of Western Australia from Gingin in the north, to Albany in the south and west to Cape Leeuwin and Bunbury (DAWE, 2022). It nests in tree hollows with a depth of 1-5m, that are predominately Marri (Corymbia calophylla), Jarrah (Eucalyptus marginata) and Karri (Eucalyptus diversicolor) and it feeds primarily on the seeds of Marri (DAWE, 2022).	Possible intermittent visitor– limited habitat occurs on the site
Charadrius leschenaultii	Greater Sand Plover	Vulnerable	Vulnerable/ Marine/ Migratory	In Australasia, the Greater Sand Plover is almost entirely coastal, inhabiting littoral and estuarine habitats. They mainly occur on sheltered sandy, shelly or muddy beaches with large intertidal mudflats or sandbanks, as well as sandy estuarine lagoons.	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Dasyurus geoffroii	Chuditch, Western Quoll	Vulnerable	Vulnerable	The Chuditch have been known to occupy a wide range of habitats including woodlands, dry sclerophyll forests, riparian vegetation, beaches and deserts. They are opportunistic feeders, and forage on the ground at night, feeding on invertebrates, small mammals, birds and reptiles.	Highly Unlikely –the site is too disturbed and surrounded by development
Leipoa ocellata	Mallee Fowl	Vulnerable	Vulnerable	Mallee fowl have been found in mallee regions of southern Australia from approximately the 26th parallel of latitude southwards in mallee bushland.	No – not mallee habitat
Macrotis lagotis	Bilby, Dalgyte, Ninu	Vulnerable	Vulnerable	The greater Bilby is a nocturnal omnivorous marsupial that shrub species, such as *Acacia kempeana* and *A. hilliana*, which have root-dwelling larvae that provide a constant food source for the Greater Bilby. They also utilise Spinifex hummocks which are quite uniform and discrete, providing runways between hummocks, enabling easier movement and foraging.	Highly Unlikely – species occurs in northern Australia
Setonix brachyurus	Quokka	Vulnerable	Vulnerable	Quokkas were originally very common on the Swan Coastal Plain, however, their distribution is now limited to Rottnest Island and a few isolated areas in the south-west of WA. On the mainland, they prefer densely vegetated areas around wetlands and streams, whereas on Rottnest Island they inhabit low scrubby coastal vegetation where water is not readily available year-round.	Highly Unlikely – not suitable habitat and the species is thought to be locally extinct
Sternula nereis nereis	Australian Fairy Tern	Vulnerable	Vulnerable	The Fairy Tern (Australian) nests on sheltered sandy beaches, spits and banks above the high tide line and below vegetation.	Highly Unlikely – not suitable
Westralunio carteri	Carter's Freshwater Mussel	Vulnerable	Vulnerable	Carter's Feshwater Mussel is South-West Western Australia's only freshwater mussel (Murdoch University & SERCUL, 2012). Carter's Freshwater Mussel occurs in freshwater streams, rivers, reservoirs and lakes (ICUN, 2015b) and is intolerant to dehydration for more than three days and salinity (Murdoch University & SERCUL, 2012).	No - not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Actitis hypoleucos	Common Sandpiper	Migratory	Marine/ Migratory	The Common Sandpiper is mostly found around muddy margins or rocky shores. Generally the species forages in shallow water and on bare soft mud at the edges of wetlands.	Highly Unlikely – not suitable habitat and the site is too disturbed
Apus pacificus	Fork-tailed Swift	Migratory	Marine/Migratory	The Fork-tailed Swift is almost exclusively aerial and is not known to breed in Australia. They are seen in inland plains but sometimes above foothills or in coastal areas. They often occur over cliffs and beaches and also over islands and sometimes well out to sea. They also occur over settled areas, including towns, urban areas and cities. Apus pacificus subsp. pacificus is the only subspecies to migrate to Australia.	Highly Unlikely – may fly overhead but unlikely to land
Arenaria interpres	Ruddy Turnstone	Migratory	Vulnerable/ Marine/ Migratory	The Ruddy Turnstone is mainly found on coastal regions with exposed rock coast lines or coral reefs. It also lives near platforms and shelves, often with shallow tidal pools and rocky, shingle or gravel beaches.	Highly Unlikely – not suitable habitat
Calidris acuminata	Sharp-tailed Sandpiper	Migratory	Vulnerable/ Marine/ Migratory	The Sharp-tailed Sandpiper prefers muddy edges of shallow fresh or brackish wetlands, with inundated or emergent sedges, grass, saltmarsh or other low vegetation.	Highly Unlikely – not suitable habitat and the site is too disturbed
Calidris melanotos	Pectoral Sandpiper	Migratory	Marine/ Migratory	The Pectoral Sandpiper prefers shallow fresh to saline wetlands and is found at coastal lagoons, estuaries, bays, swamps, lakes, inundated grasslands, saltmarshes, river pools, creeks, floodplains and artificial wetlands.	Highly Unlikely – not suitable habitat and the site is too disturbed

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Limosa lapponica	Bar-tailed Godwit	Migratory	Marine/ Migratory	The Bar-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays.	Highly Unlikely – not suitable habitat and the site is too disturbed
Limosa limosa	Black-tailed Godwit	Migratory	Endangered /Migratory/ Marine	The Black-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It is found often around beds of seagrass and, sometimes, in nearby saltmarsh.	Highly Unlikely – not suitable habitat and the site is too disturbed
Motacilla cinerea	Grey Wagtail	Migratory	Migratory/ Marine	The Grey Wagtail is mostly recorded in coastal areas in Western Australia (ALA, 2015) however is widespread. There is non-breeding habitat only in Australia and the species has a strong association with water, particularly rocky substrates along water courses but also lakes and marshes.	Highly Unlikely – the site is too disturbed
Pandion haliaetus	Osprey	Migratory	Marine/ Migratory	Ospreys occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They feed on fish, especially mullet where available, and rarely take molluscs, crustaceans, insects, reptiles, birds and mammals.	Highly Unlikely – not suitable habitat
Plegadis falcinellus	Glossy Ibis	Migratory	Marine/Mig ratory	The Glossy Ibis is the smallest ibis known in Australia. This species preferred habitat for foraging and breeding are fresh water marshes at the edges of lakes and rivers, lagoons, flood-plains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and cultivated areas under irrigation but do not breed in South-west Western Australia.	Highly Unlikely – not suitable habitat and the site is too disturbed

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Pluvialis fulva	Pacific Golden Plover	Migratory	Marine/ Migratory	Pacific Golden Plovers usually occur on beaches, mudflats and sandflats (sometimes in vegetation such as mangroves, low saltmarsh such as *Sarcocornia*, or beds of seagrass) in sheltered areas including harbours, estuaries and lagoons, and also in evaporation ponds in salt works.	Highly Unlikely – not suitable habitat and the site is too disturbed
Pluvialis squatarola	Grey Plover	Migratory	Vulnerable/ Marine/ Migratory	Grey Plovers occur almost entirely in coastal areas, where they usually inhabit sheltered embayments, estuaries and lagoons with mudflats and sandflats, and occasionally on rocky coasts with wave-cut platforms or reef-flats, or on reefs within muddy lagoons.	Highly Unlikely – not suitable habitat
Tringa nebularia	Common Greenshank	Migratory	Endangered /Marine/ Migratory	The Common Greenshank is a wader and does not breed in Australia. This species can be found in many types of wetlands and has the widest distribution of any shorebird in Australia. This species typically feeds on molluscs, crustaceans, insects, and occasionally fish and frogs.	Highly Unlikely –the site is too disturbed
Xenus cinereus	Terek Sandpiper	Migratory	Vulnerable/ Marine/ Migratory	The Terek Sandpiper mostly forages in the open, on soft wet intertidal mudflats or in sheltered estuaries, embayments, harbours or lagoons. The species has also been recorded on islets, mudbanks, sandbanks and spits, and near mangroves and occasionally in samphire (Halosarcia spp.).	Highly Unlikely – not suitable habitat and the site is too disturbed
Ardea alba	Great Egret, White Egret		Marine	The Eastern Great Egret has been reported in a wide range of wetland habitats and usually frequents shallow waters. This species feeds on fish, insects, crustaceans, molluscs, frogs, lizards, snakes and small birds and mammals.	Highly Unlikely –the site is too disturbed

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Bubulcus ibis	Cattle Egret		Marine	The Cattle Egret occurs in tropical and temperate grasslands, wooded lands and terrestrial wetlands with breeding in Western Australia recorded in the far north in Wyndham in colonies in wooded swamps such as mangrove forest. This species forages away from water on low lying grasslands, improved pastures and croplands generally in areas that have livestock eating insects, frog, lizards and small mammals.	Highly Unlikely – the site is too disturbed
Egretta sacra	Eastern Reef Egret, Eastern Reef Heron		Marine	The Eastern Reef Egret nests in trees in island woodlands, or on the ground under shrubs or rock ledges and feeds on small fish, crustaceans and insects (Birdlife Australia, 2014).	Highly Unlikely – not suitable habitat and the site is too disturbed
Haliaeetus leucogaster	White-bellied Sea-eagle		Marine	The White-bellied Sea-Eagle is found in coastal habitats with large areas of open water, especially those close to the sea-shore. This species feeds opportunistically on a variety of fish, birds, reptiles, mammals and crustaceans, and on carrion and offal.	Highly Unlikely – not suitable habitat
Himantopus himantopus	Black-winged Stilt		Marine	The Black-winged Stilt is found near coastal lagoons and shallow freshwater or brackish pools with extensive areas of mudflats, salt meadows, saltpans, coastal marshes and swamps (Birdlife International, 2014a).	Highly Unlikely – not suitable habitat
Merops ornatus	Rainbow Bee-eater		Marine	Populations of the Rainbow Bee-eater that breed in northern Australia are considered to be resident, and in many northern localities the Rainbow Bee-eater is present throughout the year. The Rainbow Bee-eater nests in a burrow dug in the ground. It is found across the better-watered parts of WA including islands preferring lightly wooded, sandy country near water.	Possible intermittent visitor to the site but unlikely to rely on the site for survival

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Recurvirostra novaehollandiae	Red-necked Avocet		Marine/ Migratory	The Red-necked Avocet occurs in wetland areas including bogs, marshes, swamps and permanent saline, brackish or alkaline lakes generally preferring saline habitats (BirdsSA, 2025).	Highly Unlikely – not suitable habitat
Glossurocolletes bilobatus	A Short-tongued Bee (southwest)	Priority 2		The *Glossurocolletes bilobatus* bee species is known to utilise the yellow flowering pea, *Gompholobium aristatum* (Phoenix, 2010).	Highly Unlikely – no host plants occur on the site
Acanthophis antarcticus	Southern Death Adder	Priority 3		Southern Death Adders inhabit a range of habitats, including rainforest, scrubland, semi arid zones and rocky outcrops. Typically during the day they remain mostly buried beneath sand, soil or debris, with just the tail and top of the head exposed. They do not actively hunt their prey but are cryptic snakes which sit motionlessly, sometimes for months on end, constantly watching for any animal which unwittingly comes within striking distance (Pilbara Pythons, 2014).	Highly Unlikely – not suitable habitat and the site is too disturbed
Ctenotus ora	Coastal Plains Skink	Priority 3		The Coastal Plains Skink has been identified on coastal plains in dune habitats (AROD, 2012).	Possible – may occur in sandier areas of the site
Euoplos inornatus	Inornate Trapdoor Spider (northern Jarrah Forest)	Priority 3		The Inornate Trapdoor Spider is recorded from clay creek banks (ALA, 2019).	Highly Unlikely – not suitable habitat
Geotria australis	Pouched Lamprey	Priority 3		The Pouched Lamprey is spawned in freshwater systems and then migrate to sea before returning to freshwater to spawn and die (OzFishNet, 2014).	No – no suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Idiosoma sigillatum	Swan Coastal Plain shield-backed trapdoor spider	Priority 3		The Swan Coastal Plain Shield-backed Trapdoor Spider arranges fallen twigs from the sheoak tree around the rim of its burrow entrance, enabling it to feel the vibrations of unsuspecting prey that wander by (Curtin, 2018).	Highly Unlikely – not suitable habitat
Lerista lineata	Perth Slider, Lined Skink	Priority 3		The Lined Skink is a burrowing species that occurs in pale sandy soils with coastal heath and shrubland areas in isolated populations in the south-west and mid-west coast of Western Australia. It feeds on termites and other small insects (AROD, 2014).	Unlikely – the site is too disturbed
Botaurus dubius	Australian Little Bittern	Priority 4		The Australian Little Bittern is mainly found in freshwater wetlands, where they inhabit dense emergent vegetation of reeds and sedges, and inundated shrub thickets. They are also occasionally found in brackish and saline wetlands such as mangrove swamps, Juncus-dominated salt marsh and the wooded margins of coastal lagoons (Naturewatch NZ, 2014).	Highly Unlikely – not suitable habitat and the site is too disturbed
Ctenotus delli	Dell's Ctenotus, Darling Range Heath Ctenotus	Priority 4		Dell's Ctenotus is found in the north Darling Range of south-western WA in dry sclerophyll forests on stony hills and ranges (Cogger, 2014).	Highly Unlikely – not suitable habitat
Elanus scriptus	Letter-winged Kite	Priority 4		The Letter-winged Kite is found in open or sparsely wooded country (Johnstone and Storr, 1998).	Highly Unlikely – not suitable habitat and the site is too disturbed
Falsistrellus mackenziei	Western False Pipistrelle	Priority 4		The Western False Pipistrelle occurs in high rainfall Jarrah, Karri and Tuart forests and coastal woodlands. They roost in hollows of trees, branches and stumps, and are insectivorous, feeding at night between the canopy and understorey of tall forest trees (Environment Australia, 1999).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Hydromys chrysogaster	Water-rat, Rakali	Priority 4		The Water Rat generally prefers wetland habitats characterised by dense, low-lying vegetation (0–30 cm from ground), low-density canopy cover and shallow, narrow water bodies (Speldewinde *et al*., 2013).	Possible – habitat may occur on the site
Isoodon fusciventer	Southern Brown Bandicoot, Quenda	Priority 4		Southern Brown Bandicoots are small grey marsupials that prefer dense scrub (up to one metre high). Their diet includes invertebrates (including earthworms, adult beetles and their larvae), underground fungi, subterranean plant material, and very occasionally, small vertebrates (DEC, 2012).	Unlikely – not suitable habitat and the site is too disturbed
Notamacropus irma	Western Brush Wallaby	Priority 4		The Western Brush Wallaby is a medium sized marsupial and its optimum habitat is open forest or woodland, particularly favouring open, seasonally wet flats with low grasses and open scrubby thickets (DEC, 2012).	Highly Unlikely –the site is too disturbed
Oxyura australis	Blue-billed Duck	Priority 4		The Blue-billed Duck is found on terrestrial wetlands in temperate regions, that are freshwater to saline, and may be natural or artificial. It nests in rushes, sedges, Lignum Muehlenbeckia cunninghamii and paperbark Melaleuca (Birdlife International, 2015). The species is almost completely aquatic, and is seldom seen on land. Non-breeding flocks, often with several hundred individuals, congregate on large, deep open freshwater dams and lakes in autumn. The daylight hours are spent alone in small concealed bays within vegetation or communally in large exposed rafts far from the shore (Birds in Backyards, 2015).	Highly Unlikely – not suitable habitat

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act	Habitat*	Likelihood to occur on the site
Synemon gratiosa	Graceful Sun-moth	Priority 4		The Graceful Sun-moth is a diurnal moth with dull coloured brown to black forewings and brightly coloured orange hind wings. The larvae burrow into the rhizomes of Lomandra maritima and Lomandra hermaphrodita exclusively and therefore require the presence of one or both of these species to be present in an area (Bishop et al., 2011).	No - no host plant species occur on the site
Charadrius cucullatus (Listed under the EPBC Act as *Thinornis rubricollis*)	Hooded Plover	Priority 4	Marine	The Hooded Plover primarily inhabits sandy, ocean beaches, with the highest densities on beaches with large amounts of beach-washed seaweed that are backed by extensive open dunes. In Western Australia the species also inhabits inland and coastal salt lakes (Birdlife International, 2014b).	Highly Unlikely – not suitable habitat

* Sourced from the SPRAT Database (DoEE, 2018) unless otherwise indicated

In summary, there was habitat on for the following species:

- Baudin's Black Cockatoo (*Zanda baudinii*), Endangered;
- Carnaby's Black Cockatoo (*Zanda latirostris*), Endangered;
- Forest Red-tailed Black-Cockatoo (*Calyptorhynchus banksii naso*), Vulnerable;
- Coastal Plains Skink (*Ctenotus ora*), Priority 3; and
- Rakal or Water Rati (*Hydromys chrysogaster*), Priority 4

The Rainbow Bee-eater (*Merops ornatus*), listed as Marine, may also be an intermittent visitor to the site but is unlikely to rely on the vegetation for survival.

3.6.4 Impact on Conservation Significant Species

The site has very limited habitat for Baudin's Black Cockatoo, Carnaby's Black Cockatoo and Forest Red-tailed Black-Cockatoo. There is 0.6ha of foraging habitat and limited roosting or potential breeding habitat on the site.

The Referral guideline for 3 WA threatened black cockatoo species indicate that the clearing of 1ha of foraging habitat or one potential breeding habitat tree is to be cleared then the clearing may have a significant impact. If there is to be a significant impact, then referral is required. To determine if there is a significant impact the Department of Climate Change, Energy, the Environment and Water (DCCEEW) require proponents to utilise the *Significant Impact Guidelines 1.1 - Matters of National Environmental Significance* (Significant Impact Guidelines) to undertake a self-assessment of the impact.

The criteria for a significant impact on Critically Endangered and Endangered species are if there is a real chance or possibility that it will:

- Lead to a long-term decrease in the size of a population
- Reduce the area of occupancy of the species
- Fragment an existing population into two or more populations
- Adversely affect habitat critical to the survival of a species
- Disrupt the breeding cycle of a population
- Modify, destroy, remove, isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline
- Result in invasive species that are harmful to a critically endangered or endangered species becoming established in the endangered or critically endangered species' habitat
- Introduce disease that may cause the species to decline, or
- Interfere with the recovery of the species.

The criteria for Vulnerable species are slightly different and are if there is a real chance or possibility that it will:

- Lead to a long-term decrease in the size of an important population of a species
- Reduce the area of occupancy of an important population
- Fragment an existing important population into two or more populations
- Adversely affect habitat critical to the survival of a species
- Disrupt the breeding cycle of an important population

- Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline
- Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat
- Introduce disease that may cause the species to decline, or
- Interfere substantially with the recovery of the species.

Avoidance and mitigation measures decrease the impact on these species.

Due to the very small area of foraging habitat available to support breeding and low number of potential breeding trees on the site if the entire site was to be cleared it is likely that the self-assessment would conclude that a referral under the EPBC Act is not likely to be required.

The Marine species Rainbow Bee-eater may also be an intermittent visitor to the site but is unlikely to rely on the site for survival and would not be impacted by development.

3.6.5 Pest Fauna

There are several pest species that are likely to be present on the site outlined in Table 8.

Table 8: Pest Species Likely to Occur on the Site

Taxa	Family	Species Name	Common Name
Mammalia	Canidae	Vulpes vulpes	Red fox
	Felidae	Felis catus	Feral cat
	Leporidae	Oryctolagus cuniculus	European Rabbit
	Muridae	Mus musculus	House Mouse
		Rattus rattus	Black Rat

3.6.6 Biodiversity Value

The EPA's (2002) *Terrestrial Biological Surveys as an Element of Biodiversity Protection Position Statement No. 3* indicated an ecological assessment of a site must consider its biodiversity value at the genetic, species and ecosystem levels; and its ecological functional value at the ecosystem level. The vegetation on the site is fragmented with little to no ecological linkage and is disturbed, with the likely presence of feral species such as foxes, cats and rabbits which would have highly modified the fauna assemblage from pre-European settlement.

3.7 Hydrology

3.7.1 Groundwater

The hydrogeology of the area is mapped as fractured rock which comprises a large variety of metamorphic and igneous rocks ranging from the sedimentary rocks to granite-greenstone terrain. At this stage no major aquifers are defined in the fractured rocks (DoW, 2009).

A 12 month groundwater monitoring program was completed for the site as part of the District Water Management Strategy investigations (ENV, 2009). Based on the 12 months monitoring of bores MW1, MW2, MW3, MW4 and DoW Bore 4849 to the east of site the average annual maximum groundwater level (AAMGL) was calculated across the site as shown in Table 9.

Table 9: Maximum Groundwater Levels at Site Bores and DoW Bore 4849 (ENV, 2009)

Bore	Maximum Recorded Groundwater Level (mAHD)	Depth to maximum Recorded Groundwater Level (m)	AAMGL (mAHD)	Depth to AAMGL (m)
MW1	22.273	1.020	22.136	1.157
MW2	21.484	0.248	21.320	0.412
MW3	21.451	1.555	21.314	1.692
MW4	21.173	0.695	21.016	0.852
DoW 4849	14.937	-	14.720	-

Groundwater flow is in a northerly direction towards Adelaide Street.

Groundwater quality sampling was undertaken for bores MW1 to 4 and DoW 4849 on the site and analysed for physical parameters in the field by ENV (ENV, 2009) and analysed by a NATA approved laboratory for nutrients. In summary:

- Groundwater within the site is generally fresh;
- Groundwater is slightly acidic with typical pH values less than 6.25;
- Total Nitrogen (TN) exceeds the ANZECC (2000) guideline of 1.2 mg/L and the Swan Canning Cleanup Program Long Term Target of 1 mg/L ranging from 1.5 mg/L to 3.2 mg/L;
- Total Phosphorus (TP) is below the ANZECC (2000) guideline of 0.065 mg/L in all bores except MW4 where it is 2.75mg/L; and
- The TP is above the Swan Canning Cleanup Program Long Term Target of 0.1 mg/L in all bores on the site (ENV, 2009; Hyd2o, 2012).

The site is not within a Public Drinking Water Source Area (PDWSA) (DWER, 2026). Detailed information on the hydrology of the site is in the Local Water Management Report (LWMR) (Oversby Consulting, 2026).

3.7.2 Surface Water

The site is generally flat to gently sloping. The majority of surface water flows locally towards the creekline that runs through the centre of the site and the lower lying areas on Lot 200. Water flow in the creekline is in a north-westerly direction and feeds into the Perth Airport Northern Drain Catchment. Perth Airport North catchment is monitored in the Swan Canning Water Quality Improvement Plan (Swan River Trust, 2009).

The surface water from the southern corner of the site flows locally towards a lower lying area to the south-west off-site as diffuse overland flow. The surface water flow from the site drains away from Munday Swamp, located to the south-west, and therefore does not impact on the water levels within the swamp.

ENV (2009) undertook surface water monitoring through the central drain bi-monthly for a period of 12 months from July 2008 to May 2009. The maximum recorded level was 21.385m AHD. Detailed information on the hydrology of the site is in the Local Water Management Report (LWMR) (Oversby

Consulting, 2026). There has been no surface water quality sampling undertaken (Oversby Consulting, 2026).

3.8 Wetlands

The site contains eight wetlands (two Resource Enhancement and six Multiple Use) and is adjacent to one wetland as shown in the *Geomorphic Wetlands of the Swan Coastal Plain* Database (Figure 5) (Landgate, 2024b). There is also a creekline through the central part of the site that ultimately flows into Helena River that is also part of the two Resource Enhancement wetlands and one of the Multiple Use wetlands. The wetlands are described in Table 10 and definitions of the management categories are in Table 11.

Table 10: Wetlands Located on the Site

Wetland Classification	Wetland Type	UFI Number	Location
Resource Enhancement	Sumpland	16226	Western part of the creekline drainage line.
Resource Enhancement	Sumpland	15940	Eastern part of the creekline drainage line.
Multiple Use	Sumpland	16225	To the north of the western REW
Multiple Use	Sumpland	15898	Traverses the centre of the northern part site from east to west along the creekline.
Multiple Use	Dampland	15267	South of the creekline.
Multiple Use	Sumpland	15777	Northern part of Lot 200
Multiple Use	Dampland	15779	Central part of Lot 200
Multiple Use	Sumpland	15780	The southern part of Lot 200.

Table 11: Management Categories and Objective for Wetlands

Management Category	General Description	Management Objectives	EPA Management Objectives (EPA, 2008)
Conservation Category Wetland (CCW)	Wetlands which support high levels of attributes and functions.	To preserve wetland attributes and functions through reservation in national parks, crown reserves, state owned land and protection under environmental protection policies.	Highest priority wetlands. Objective is to preserve and protect the existing conservation values of the wetlands through various mechanisms including: • reservation in national parks, • crown reserves and State-owned land, • protection under Environmental Protection Policies, and • wetland covenanting by landowners. No development or clearing is considered appropriate. These are the most valuable wetlands and any activity that may lead to further loss or degradation is inappropriate.

Management Category	General Description	Management Objectives	EPA Management Objectives (EPA, 2008)
Resource Enhancement Wetland (REW)	Wetlands which may have been partially modified but still support substantial ecological attributes and functions.	Priority wetlands. Ultimate objective is for management, restoration and protection towards improving their conservation value. These wetlands have the potential to be restored to conservation category. This can be achieved by restoring wetland structure, function and biodiversity. Protection is recommended through a number of mechanisms.	Priority wetlands. Ultimate objective is to manage, restore and protect towards improving their conservation value. These wetlands have the potential to be restored to Conservation category. This can be achieved by restoring wetland function, structure and biodiversity. Protection is recommended through a number of mechanisms.
Multiple Use Wetland (MUW)	Wetlands with few attributes which still provide important wetland functions	Use development and management should be considered in the context of water (catchment/strategic drainage planning), town (land use) and environmental planning through landcare.	Use, development and management should be considered in the context of ecologically sustainable development and best management practice catchment planning through landcare.

Source: Wetlands of the Swan Coastal Plan Volume 2b (Hill *et al*., 1996) unless otherwise referenced

The two Resource Enhancement wetlands currently mapped on the site were previously identified as a single wetland, Resource Enhancement Wetland (UFI 15898). This earlier mapping extended from the western to the eastern boundary of the site and included the central creekline as well as the wetland areas at either end.

A wetland assessment undertaken by PGV Environmental in 2014 found that the central portion of the previously mapped wetland, associated with the creekline, had significantly reduced ecological values and attributes due to altered geomorphology, historical land use, and the dominance of introduced flora species. Vegetation within this central area was assessed as being in Completely Degraded condition, with no native flora species present and a high abundance of weed species.

The eastern and western sections of the former Resource Enhancement Wetland (UFI 15898) supported vegetation in slightly better condition, with some native species present. However, the understorey in both areas was also assessed as Completely Degraded, with no native vegetation recorded apart from a single sedge species, and a high abundance of weeds. Notably, the Declared Weed *Zantedeschia aethiopica* (Arum Lily) was widespread, and Brazilian Pepper (*Schinus terebinthifolia*) was abundant within the eastern vegetated section.

DBCA reviewed the findings of the assessment and subsequently updated the wetland mapping. This resulted in the delineation of two smaller Resource Enhancement Sumplands—UFI 16226 and UFI 15940—as shown in the current mapping (Figure 5).

Under the *A Methodology for the Evaluation of Wetlands on the Swan Coastal Plain, Western Australia* (Department of Biodiversity, Conservation and Attractions, 2017), the wetlands are unlikely to be reclassified either upward to Conservation or downward to Multiple Use for the following reasons.

For the wetlands to be ungraded to Conservation Category the methodology requires a high degree of naturalness, ecological integrity, and minimal disturbance. In this case:

- Vegetation condition has been impacted by weed invasion.
- The western vegetated portion, while retaining mature *Eucalyptus rudis* and *Melaleuca rhaphiophylla*, shows clear disturbance.
- The eastern vegetated portion supports a dense canopy of *Melaleuca rhaphiophylla* over *Astartea fascicularis* and *Lepidosperma longitudinale*, but overall condition was assessed as Good at best.
- There has been modification to hydrology through excavation works and alteration of the creekline connecting the two wetlands.
- The degree of naturalness, as defined in the methodology, is considered Low.

Given these factors, the wetlands do not meet the higher ecological integrity thresholds typically required for Conservation status.

Conversely, a downgrade to Multiple Use is also unlikely as:

- Wetlands within the Mungala suite and the Southern River complex have been significantly impacted and reduced due to historic and ongoing land use pressures.
- As a result, the subject wetlands score highly for representativeness of geomorphology and vegetation complexes within the regional context.
- The vegetation, while impacted does retain a natural overstorey and therefore has Moderate values as defined under the methodology (DBCA, 2017).
- The wetlands provide habitat supporting fauna during vulnerable life stages (e.g., turtle nesting, tadpole development), indicating functional ecological value.

Given these factors, the wetlands meet higher ecological integrity thresholds than those required for Multiple Use status.

Based on the criteria set out by the 2017 DBCA methodology, the wetlands are appropriately classified as Resource Enhancement Wetlands. Their ecological values, while modified, remain significant within the broader landscape context. It is therefore unlikely that a reassessment under current site conditions would support a change in classification.

The two resource Enhancement wetlands are proposed to be retained with a buffer. Proposed buffer widths are examined and assessed in Section 3.9.

The part of the Creekline that is now mapped as UFI 15898 is categorised as Multiple Use. The functions of this wetland are best described in the context of a watercourse. The management of a watercourse is centred around ensuring water quality and quantity are managed as well as determining an appropriate foreshore. The determination of the foreshore is outlined in Section 3.10.

3.9 Wetland Buffers

3.9.1 Buffer Definitions

3.9.1.1 Separation Distance

EPA Guidance Statement 33 (EPA, 2008) states that wetlands that are to be protected require a minimum 50m buffer distance. This advice applies to Conservation Category wetlands as well as Resource Enhancement wetlands if they are to be retained in a development. There is no scientific rationale to justify why 50m is the minimum setback distance.

The Guidance Statement also says that an alternative to applying the minimum 50m setback is to undertake a site-specific buffer assessment. In determining a setback using site-specific studies the overall setback should be determined by:

- The wetland's values;
- The activities, land uses or development near the wetland, existing and proposed; and
- The threats posed by the adjacent activities, land uses or development.

The WAPC (2005) developed guidelines state that site-specific buffer requirements may be determined and notes that buffering may involve a combination of a setback distance and a physical barrier.

3.9.1.2 Wetland Function Area

The Wetland Function Area is defined in the *Guideline for Development of Wetland Buffer Requirements* (WAPC, 2005) as "*the spatial boundary of the wetland. It normally would include the wetland itself and the wetland vegetation*".

The wetland function area is defined by the wetland values (obligate wetland vegetation, surface saturation or inundation and/or hydric soils). The wetland function area for both wetlands has been delineated in wetland assessments (PGV Environmental, 2012). The wetland function areas are defined by the wetland boundaries mapped in the *Geomorphic Wetlands of the Swan Coastal Plain* dataset, as shown in Figure 5.

3.9.1.3 Role of the Buffer

Wetland buffers are defined as the transition zone between the wetland and the surrounding land use. Buffers are measured from the wetland boundary as mapped in the Geomorphic dataset, confirmed by DBCA.

The role of the wetland buffer is to maintain the ecological processes, values and functions of the wetland and to protect the wetland from potential adverse impacts (EPA, 2008).

Fringing vegetation in buffers may fulfil the following habitat functions:

- Breeding and roosting habitat for birds inhabiting the wetland;
- Dryland habitat during inundation periods for terrestrial species; and
- Cover, feeding and breeding habitat for native fauna.

Because of the completely cleared nature of the buffer, and the existence of fill material the buffer does not currently fulfill any of these functions.

3.9.2 Potential Threats to the Wetland

3.9.2.1 Impact of Clearing on Groundwater Levels

Clearing for development typically gives rise to an increase in groundwater recharge and a decrease in evapotranspiration, leading to a rise in groundwater levels. The magnitude of this rise depends on local factors including the area and type of vegetation cleared. In new residential areas the rise is normally temporary, as progressive establishment of domestic and municipal bores increases groundwater abstraction.

The groundwater catchment for the wetlands has been cleared for many decades, and any groundwater rise attributable to that clearing is likely to have already occurred.

3.9.2.2 Direct Impacts on Vegetation

Potential direct impacts on the REW vegetation include people walking through the wetland vegetation from the Light Industrial development. This is considered highly unlikely as the Paperbark and Bulrush vegetation in the eastern wetland (UFI 15940) wetland is very thick, likely to contain Tiger Snakes as a deterrent to access, and people would need to cross the drain which is inundated for many months of the year. The western wetland (UFI 16226) has a more cleared understorey and therefore could have a higher level of access.

Wetland vegetation in both wetlands can also be inadvertently impacted during construction works resulting in damage to the existing vegetation.

3.9.2.3 Hydrology

Drainage of stormwater can pose a hazard to wetland values by changing the hydrological regime of a wetland, impacting on vegetation and wetland function.

Light Industrial development has the potential to add nutrients and contaminants to surface water in the wetland and groundwater due to activities on the Light Industrial sites and off roads.

3.9.2.4 Weeds

The REWs and associated buffers are currently infested with a number of invasive weeds. Weeds can be spread by wind, animals, humans (on footwear etc.), vehicles and by vegetative growth. Light industrial development is highly unlikely to increase the potential for weeds to spread further in the REW.

3.9.2.5 Fire

Fire can increase with additional human access, however the part of the wetland is already in an exposed site and fire does not appear to have been an issue previously. It is unlikely that the proposed development would increase the fire risk to the wetland vegetation.

3.9.2.6 Rubbish

Edge effects from Light Industrial development on adjacent bushland may include litter (windblown, casual littering and illegal dumping) impacting on wetland vegetation. With the installation of appropriate fencing and the implementation of waste management plans rubbish impacts can be mitigated.

3.9.2.7 Feral Animals

The wetland vegetation is highly likely to already be home to rabbits, mice, rats, feral cats and foxes.

Light Industrial development is unlikely to increase the number of mice, rats, cats and foxes as formal fencing will be provided to the development and each development will have controlled waste management in place.

3.9.2.8 Domestic Pets

Domestic pets are not likely to increase as a result of the light industrial development and therefore will not likely pose an increase threat to the wetland's fauna.

3.9.2.9 Edge Effects

Edge effects on wetlands and other bushland areas in the Perth region have traditionally been managed primarily by separation through the provision of buffers. However, protection against many edge effects can also be provided by other means such as hard edges such as roads, barriers (fences, swales etc.) and surveillance. The most effective protection from edge effects is considered to be a combination of separation and barrier.

3.9.3 Mitigation of Threats to Wetlands

Given that both Resource Enhancement Wetlands have the same threatening processes, similar environmental values, similar Completely Degraded buffers and are linked by the creekline it is considered to be appropriate to apply the same mitigation measures to protect the wetland values to each wetland.

3.9.3.1 Direct Impacts on Vegetation

To prevent people walking through the wetland, a fence should be installed between the development and the wetland buffer.

During construction and removal of fill from the wetland buffer all plans should show the extent of the wetland vegetation as being retained and not to be cleared. The wetland vegetation should be fenced temporarily during construction works to avoid inadvertent damage to the vegetation. Appropriate inductions and plans will ensure that the threat of inadvertent damage to the existing wetland vegetation will be mitigated.

The implementation of a reduced buffer does not increase the impacts of these threats to the wetlands and therefore a 15m buffer is considered appropriate to protect the existing wetland vegetation from direct impacts.

3.9.3.2 Hydrology

The hydrology of the wetland will be maintained using the drainage design system contained in the Local Water Management Strategy. The design will require stormwater is managed to maintain groundwater quality and quantity as well as managing overland flows to ensure that pollutants, both chemical and gross pollutants, are trapped and appropriately managed within the development area.

Drainage design for the development will be undertaken in in accordance with State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026). Industrial lots are to use biogardens or similar vegetated treatment systems (according to the City) for their stormwater runoff. The industrial roads will also utilise bioretention gardens and be required to incorporate best practice strategies

within their lot boundary to treat stormwater including sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities.

Runoff from storms up to 1% Annual Exceedance Probability Event (100 year) attenuated back to allowable discharge rates specified by Perth Airport based on downstream system capacity (Oversby Consulting, 2026).

All drainage from the development will be managed under the Stormwater Management Plan (Oversby Consulting, 2026) with appropriate controls to manage stormwater and ensure there is no adverse impact on the surface water and groundwater quality.

The stormwater controls will be in accordance with:

- Perth Airport systems requirements;
- City of Kalamunda *Stormwater Design Guidelines* (2022);
- State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026); and
- Principles of Water Sensitive Urban Design (DWER, 2011) (Oversby Consulting, 2026).

Groundwater will be managed to similar levels, so that there is a similar groundwater level within the wetlands, as well as existing inverts of control structures within the wetlands remaining essentially the same, effectively controlling groundwater levels through the wetland and waterway system.

The stormwater controls can be adequately managed within a 15m buffer with stormwater controls outside of the buffer.

3.9.3.3 Weeds

The proposed separation of the wetlands to the development using a hard barrier such as a road or limestone firebreak and 15m of native planting in the buffer will remove the threat of future weed vectors entering the REWs from the current site conditions.

3.9.3.4 Fire

The proposed treatment of the wetland buffer with native sedges will be undertaken in accordance with the Bushfire Management Plan to ensure that risks to wetland vegetation are appropriately mitigated. In addition, the use of planting in conjunction with the installation of a road or fire track along the perimeter of the wetland will provide supplementary fire control infrastructure. No additional buffers are required for the management of fire risks to the wetlands.

3.9.3.5 Rubbish

As part of Development Applications (DA) it is expected that a waste management plan will be required to ensure rubbish from the development is secured and fencing prevents any windblown rubbish from being blown into the wetland areas. The proposed wetland buffer and fence provide more protection from windblown rubbish than is the current situation.

Waste management measures and the fence will provide adequate protection to the wetland with no additional buffer required to mitigate the risk of impacts to the wetland function area from rubbish.

3.9.3.6 Feral Animals

The setback distance would not have any impact on cats, foxes or rabbits impacting on the wetland as these animals can roam over large distances. Appropriate waste disposal will need to be part of the

design of the Light Industrial development to ensure there is not a proliferation of rats and mice. This can be managed by the use of self-closing bins and ensuring that any food waste is managed appropriately. The proposed buffers to the wetland do not require additional distance to mitigate potential impacts from feral animals.

3.9.3.7 Edge Effects

Currently the wetland is not protected by any buffer and is impacted by a number of invasive weeds. The proposed Light Industrial development will include a buffer of 15m of planted vegetation, appropriate fencing to prevent access and a hard edge to reduce weed vectors. The Light Industrial development will also provide a higher level of public surveillance, which will minimise the opportunities for illegal dumping, vehicular access and arson.

It is expected that a 15m buffer and these additional protections to the wetland will effectively protect the wetland from edge effects.

3.9.4 Proposed Wetland Buffer

DBCA typically recommends a default 50 m buffer to wetlands in the absence of site-specific studies. However, where site conditions have been appropriately assessed, buffer requirements may be determined based on environmental values, and buffering may comprise a combination of setback distance and physical barriers.

Analysis of both of the Resource Enhancement wetlands' environmental values and the integrity of the wetlands' core, despite limited existing buffering in the surrounding landscape, indicates that a reduced buffer of 15 m would provide adequate protection of wetland values (Figure 6). The reduced wetland buffer will result in the following outcomes:

- Reinstatement of natural soils by the removal of fill in the wetland buffers;
- Protection from pollutants to the wetland by retaining the 15mm rainfall event in biogardens and sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities;
- Provision of controlled surface water flows to the wetland to maintain the hydrological regime;
- Reinstatement of native vegetation within the wetland buffer, improving the condition of the wetland;
- Improved fauna habitat values providing a sedgeland for birds, reptiles and amphibians;
- Management of deleterious impacts such as uncontrolled access, rubbish and feral animals; and
- Reduced weed vectors to the wetland.

The proposed main road through the centre of the Structure Plan Area (Appendix 1) incurs slightly into the 15m buffer in Wetland UFI 16226. The road has been aligned to be consistent with an existing driveway and crossover of the creekline and therefore minimises further disturbance to the waterway. The small decrease in buffer is unlikely to impact on the outcomes for the wetland.

3.10 Creekline Foreshore Assessment

3.10.1 Methodology

The section of the creekline located within Multiple Use Wetland UFI 15898 (Figure 5) exhibits functionality that is more accurately characterised as a watercourse. To determine appropriate setbacks that maintain the values of the watercourse and enhance its environmental attributes, a foreshore assessment was undertaken for this feature within the Structure Plan area.

The foreshore assessment includes database searches to obtain information about the creekline. The following were investigated:

- Review of flora and vegetation studies previously undertaken;
- Site specific field assessment of the creekline and foreshore;
- Historical aerial photographs were examined for evidence of any modifications to the banks or floodway for the creekline (Landgate, 2025a);
- Cultural heritage values from the Department of Planning Lands and Heritage (DPLH) Aboriginal Cultural Heritage Inquiry System specific to the creehline (DPLH, 2025);
- Soil mapping by the Department of Primary Industries and Resource Development (DPIRD) NRMInfo (DPIRD, 2025); and
- Groundwater attributes as undertaken for the LWMR (Oversby Consulting, 2024).

The field assessment was undertaken by PGV Environmental on 7 July 2025. The site survey included a thorough examination of the site.

3.10.2 Historic Creekline Condition

The Creekline on the site originates from drainage on the eastern boundary and flows from east to west at 22mAHD, flowing to the west to an elevation of 20mAHD (Figure 2). The Creekline has been highly modified for more than 60 years. In the aerial photograph from 1965 most of the creekline has been cleared (Plate 5).

A review of historical photography and anthropogenic remains on the site show the wetland areas have been highly disturbed. The flatter wetland areas have been used for grazing. The drainage line of the mapped wetland has been modified extensively.

The earliest aerial photography available is from 1953 (Landgate, 2014a) and shows the wetland has been partially cleared at this early date (Plate 6).

Plate 6: Aerial Photograph of Creekline from 1953 (Landgate, 2025a)



In aerial photography from 1985 the creekline appears to be modified further with the drainage line being deepened through excavation (Plate 7).

Plate 7: Aerial Photograph of Creekline from 1985 (Landgate, 2025a)



The drainage line has been significantly modified by excavation and fill has been added to the site over areas of the wetland (Plate 8). There are areas of fill along the creekline (Plate 9).

Plate 8: Excavated Area



Plate 9: Anthropogenic Fill



The incorporation of fill over much of the wetland area has altered the topography and drainage over the mapped wetland area.

3.10.3 Vegetation

The vegetation in the creekline is in mostly Degraded to Completely Degraded condition with a small area at the eastern end rated as Degraded to Good and the fringing areas are generally Completely Degraded and Degraded (Figure 4).

3.10.4 Watercourse Hierarchy

The creekline flows westward to the boundary of the Structure Plan area and water is then piped underground. The creekline is rated as a first order tributary as there are no other smaller tributaries flowing into the creekline downstream from the site (DPE, 2022).

3.10.5 Cross Sections

The bed and banks of the creekline have been highly modified and as such the grade of the banks, distance between the top of banks and width of the creekline is variable. The cross sections of the creekline are described in Table 12. The locations are shown on Plate 10.

Plate 10: Locations for Foreshore Assessment



Table 12: Creekline and Foreshore Assessment

Location	Bed	Banks	Landform Condition	Vegetation	Photographs
1	Shallow bed approximately 5-10m wide	Banks are modified due to excavation	Sandy soil and impacted by grazing. No slumping evident	MrAf - *Melaleuca rhaphiophylla/Astartea fascicularis* Thicket to Low Woodland. Area of foreshore cleared with some native sedges	

Location	Bed	Banks	Landform Condition	Vegetation	Photographs
2	Narrow bed approximately 5m wide	Banks narrowly incised due to excavation	Banks impacted by grazing but no obvious slumping or erosion	Creekbed contains some *Melaleuca rhaphiophylla* with weeds and is Degraded. Foreshore cleared and Completely Degraded	
3	The channel in this area has a bed approximately 10m wide	This area is more shallowly incised.	Banks impacted by grazing but no obvious slumping or erosion	ErMr *Eucalyptus rudis* Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily and is Degraded. Foreshore cleared and Completely Degraded	

The creekline is highly modified by excavation, clearing and fill and shows the impact of grazing. The vegetation in the creekline is Degraded to Completely Degraded (Figure 4). The fringing vegetation is mostly Completely Degraded with areas of fill and very little vegetation.

The stability of the banks of the creekline is assessed as being Moderate:

> *Some localised erosion, slumping and sediment deposits; native vegetation cover on verges may be patchy and interspersed with patches of exposed soil* (WRC, 1999).

The rating is mainly due to the presence of fringing vegetation along most of the banks with only a few occurrences of erosion impacting on the vegetation. The vegetation in the creekline and foreshore is considered to be Poor, defined as:

> *Modified vegetation structure with native plants comprising only (2 points) 20 - 50% of the total species composition. Trees remain with only scattered shrubs and an understorey dominated by weeds; prevalent disturbance* (WRC, 1999).

3.10.6 Living Stream

The degraded condition of the existing creekline provides an opportunity to modify sections of the watercourse and realign flows into a proposed living stream. The design builds on the current hydrological function of the site, where both the wetland areas and the open drain convey flows, while also providing storage and water treatment.

The degraded open drain will be partially rerouted to improve the overall site layout and to facilitate the establishment of a more naturalised drainage corridor that supports both stormwater management and ecological enhancement. Earthworks associated with the proposed living stream will create a relatively weed-free channel that can be revegetated with appropriate riparian species, while maintaining hydraulic capacity.

3.10.7 Floodplain Mapping

Floodplain mapping undertaken for the LWMR shows the 10% AEP is 11m wide for the length of the creekline (Oversby Consulting, 2026). The 1% AEP is 13m wide, due to the flattening of the banks (Oversby Consulting, 2026) (Appendix 8).

3.10.8 Foreshore Setback

The creekline is considered to be a waterway, rather than a basin type of wetland and, as such, management of the waterway is administered by DWER rather than DBCA. Waterways do not have a minimum setback such as the 50m setback that exists with basin type wetlands. Waterways require a foreshore area between a proposed development and the waterway primarily to protect the creekline ecology but also to protect any fringing vegetation and habitat that is important to the waterway and to prevent flooding of adjoining areas. A foreshore area can also provide public recreational amenity and potentially have a stormwater drainage function. The foreshore to the creekline is largely devoid of any vegetation, planted or native past the immediate area to the creekline.

There are several guidance documents to assist with determining an appropriate setback as follows:

- *Planning and Management Foreshore condition assessment in urban and semi-rural areas of south-west Western Australia* (WRC, 1999);
- Operation Policy 4.3: *Identifying and establishing waterways foreshore areas* (DoW 2012);
- Guidance Note 6: *Identifying and establishing waterways foreshore areas* (DoW 2013); and
- Water Note 23: *Determining foreshore reserves* (WRC 2001).

First order streams are generally recommended to have a total width of 20m plus the channel. The channel width is approximately 1.4m at the base of the channel and then has a main with of 11m. This would result in a total foreshore width of 41m (Figure 6). This generic width can then be considered in the context of multiple factors such as the biophysical conditions of the streamline, and the nature of the management requirements.

The biophysical criteria used to determine an appropriate setback are assessed in Table 13 for consideration when identifying a foreshore area (WRC 2001).

Table 13: Biophysical Criteria and Assessment

Biophysical Factor	Assessment of Factor	Spatial Implications for Setback
Vegetation	The wetland vegetation is mainly along the creekline made up of planted and native species that is all Degraded to Completely Degraded. There is no native vegetation on the remainder of the site away from the creek.	All wetland vegetation to be retained. No dryland vegetation needs to be retained due to its absence on the site. Therefore, setback not determined by site vegetation characteristics.
Hydrology	The creekline is mainly a narrow, shallowly incised central creek and a flat, broad floodplain that is partially waterlogged and inundated in winter/spring.	The setback width to the waterway will not affect the hydrological function of the creekline and floodplain.
Topography	The land adjoining the creekline is flat to moderately sloping and impacts on the foreshore area.	The foreshore setback should maintain the current topography. It is recommended that a reserve containing the 1%AEP would be adequate.
Soil Type	The soils are Pinjarra, Ya2 Phase (213Pj_Ya2) is located on plain and swamp margins with deep, poorly drained, grey siliceous sand overlying clay.	No spatial implications
Erosion	The narrow, shallowly incised central creekline have potential for erosion to occur so all existing vegetation should be retained	No spatial implications
Function	Function is flood conveyance to the Perth Airport Northern Drain Catchment	Water conveyance function not impacted by foreshore setback width
Habitat	Habitat is highly impacted and the current foreshore does not provide significant habitat values	No fringing dryland vegetation present that needs to be retained in a foreshore reserve. Therefore setback width not impacted.

Biophysical Factor	Assessment of Factor	Spatial Implications for Setback
Land Use	The creekline and foreshore previously used for agriculture but this will be ceased when the surrounding land use is changed is not used and dryland area not used	The future function of the foreshore area will likely include some passive recreational value such as a pathway parallel with the creekline.

The primary factor in determining a suitable setback from the creekline/stream is the generally Completely Degraded condition of the foreshore and lack of native vegetation. Management of stormwater in accordance with State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026) will maintain water quality by retaining and treating first flush events while ensuring that the hydrological regime and overland flows to replenish the creekline are maintained. There are no factors identified that would warrant increasing the proposed foreshore so the total stream and foreshore width of 41m is considered to be adequate to protect and enhance the creekline environmental values.

4 ENVIRONMENTAL ASSESSMENT

4.1 Proposed Development

The proposal is to develop the site for Light Industrial purposes. The site is likely to be largely cleared with the exception of the vegetation associated with the creekline. The creekline may be rehabilitated to improve the ecological linkage it provides. Additionally formalising stormwater controls to manage runoff into the creekline will occur with the implementation of the Local Water Management Strategy in accordance with State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026) and . Mature trees should be retained where possible.

4.2 Land Use

The site has historically been mostly cleared and is not listed as a Contaminated Site. The past and present land use on the site is not considered a constraint to development.

4.3 Geology and Soils

The Pinjarra Plain System soils are not a constraint for development. There are similar developments on these land units in the surrounding area.

The soils mapped on the site have a high risk of being susceptible to wind erosion and therefore dust controls will be required during construction. Wind erosion risk will be minimised once the site is fully developed as the ground disturbing activities have been completed.

There is an acid sulphate soil risk as mapped over the site. WAPC *Acid Sulphate Soils Planning Guidelines* (WAPC, 2009) indicate that "*acid sulphate soils are technically manageable in the majority of cases*" which would be applicable to the site. ASS Investigation and, if required, Management Plans should be prepared once the detailed design of soil disturbance on the site is finalised. This should be undertaken in accordance with the *Acid Sulphate Soils Guideline Series: Identification and Investigation of Acid Sulphate Soils and Acidic Landscapes* (DER, 2015a) and *Treatment and Management of Soils and Water in Acid Sulphate Soil Landscapes* (DER, 2015b).

The soils on the site do not provide an environmental impediment to the development of the site.

4.4 Hydrology

Groundwater will be managed to similar levels, so that there is a similar groundwater level within the wetlands, as well as existing inverts of control structures within the wetlands remaining essentially the same, effectively controlling groundwater levels through the wetland and waterway system.

Stormwater management will be required to be addressed in accordance with State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026). An Urban Water Management Plan will be required at the subdivision stage. All lots will be required to use biogardens or similar vegetated treatment systems (according to the City) for their stormwater runoff as well as best practice strategies within their lot boundary to treat stormwater including sediment forebays, oil separators, Gross Pollutant Traps and separated washdown facilities.

Water management will be guided by the Local Water Management Report (Oversby Consulting, 2026). Management measures as per the LWMR are outlined below:

Water Conservation and Servicing

- *All lots are to be connected to a potable reticulated water main to provide security of supply.*
- *All residential lots are to be connect to mains sewerage.*
- *All residential lots are to utilise suitable on site effluent management.*
- *The Living Stream landscaping is to be primarily irrigated via stormwater and the shallow natural groundwater.*
- *The residential POS areas may receive irrigation*

Stormwater management

- *All new residential lots will detain and infiltrate the 5% AEP on site, as per the City of Kalamunda's guidelines.*
- *All new industrial lots will detain and infiltrate stormwater so that there 1% AEP runoff is in keeping with the requirements of the downstream Perth Airport drainage network.*
- *Bioretention systems and/or soakwells assist with treatment of stormwater with the new road networks.*
- *The Living Stream and retained Wetlands assist with treatment and detention of stormwater from the subject land and upstream catchments.*
- *The Southern POS basin will retain and infiltrate stormwater discharged into it.*
- *The lot detention, POS basins and Living Stream/ Wetland network detain all peak flows to at/below pre development rates as well as meeting the Perth Airport discharge rate.*

Flood management

- *All lot levels will be designed to maintain a minimum separation clearance of 300mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels generated on site.*
- *All lot levels will be designed to maintain a minimum separation clearance of 500mm between the habitable floor levels and the 1% Annual Exceedance Probability (AEP) flood levels of the Living Stream and main POS detention basin.*
- *The Living Stream and wetland network allows for 1% AEP flood flows to traverse the subject land site as well as providing safe storage.*

Groundwater Management

- *Inflow to the groundwater is to be treated in bioretention gardens and Living Stream/wetland network.*
- *Where necessary the subject land is to be lifted using clean fill to maintain necessary separation to the groundwater.*
- *Subsoil systems are to be installed to control groundwater rise in areas with groundwater less than 1.5m from the surface.*
- *Mains sewerage will remove potential pollutants from the residential lots for treatment off site.*

- *Removal of stock and large gardens is likely to reduce nutrient loads to the groundwater.*

Ecosystem Protection and Enhancement

- *The stormwater system will assist with capturing sediments, large debris, nutrients and other pollutants from all stormwater runoff, protecting the subject land wetlands.*
- *New riparian ecosystems creation will be undertaken through converting the current degraded drainage line into a Living Stream.*
- *Bioretention systems will provide some limited habitat to fauna throughout the subject land.*
- *The wetlands are to be enhanced through weed control and revegetation as well as being protected in reserves with appropriate buffers* (Oversby Consulting, 2026).

The management of stormwater is not considered a constraint to development.

4.5 Flora and Vegetation

The flora and vegetation on the site has been significantly impacted by historical clearing. The proposed development would not result in conservation significant flora and vegetation being impacted. The vegetation on the site is mostly Degraded and therefore the proposed development will not impact on locally or regionally significant vegetation and there is no impact on any Threatened or Priority Ecological Community.

4.6 Fauna

The fauna habitat values have been impacted by the extensive historical clearing on the site and as such the proposed development would have very little impact on native fauna habitat. Impacts to Black Cockatoos are likely to not be significant however the retention of trees within the proposed development would mitigate some of the habitat loss.

A Fauna Management Plan should be prepared prior to clearing, including the trapping and relocation of both common and potential conservation significant species present on the site.

4.7 Heritage

There is an Aboriginal Cultural Heritage Site mapped on the site. Advice should be sought to determine obligations under the *Aboriginal Heritage Act 1972.* The sites are mapped over a large area and there are numerous developments, recent and ongoing in the area so the heritage site is not likely to be a constraint to development.

The identification of materials that may constitute an archaeological site, if identified during earthworks, would be required to comply with the *Aboriginal Heritage Act, 1972* regarding such sites.

4.8 Wetlands

4.8.1 Wetland Development/Retention

The management of wetlands within the Structure Plan area will be undertaken in accordance with the Local Water Management Report (LWMR), as outlined in Section 4.4. Several scenarios were explored during the Structure Plan design process.

A review was undertaken to determine whether the wetland values and attributes were commensurate with the existing mapping and classification on the site, or whether the wetlands were so degraded that they were no longer viable and could be included within the developable envelope.

Five of the Multiple Use Wetlands on the site were classified as being commensurate with Multiple Use values and were considered to have development capabilities. These wetlands are:

- Multiple Use Sumpland (UFI 16225);
- Multiple Use Dampland (UFI 15267);
- Multiple Use Sumpland (UFI 15777);
- Multiple Use Dampland (UFI 15779); and
- Multiple Use Sumpland (UFI 15780).

Multiple Use Sumpland (UFI 15898) is classified as Completely Degraded and was considered to be appropriately classified, except where the wetland forms part of the creekline that traverses the property and ultimately drains to the Helena River (ENV Australia, 2009). The creekline retains hydrological value and ecological function; however, this does not warrant an upgrade to the wetland management category.

The two Resource Enhancement wetlands have recently been assessed by the Department of Biodiversity, Conservation and Attractions (DBCA) and are considered to be accurately mapped and categorised. Accordingly, it is unlikely that the management category of these wetlands would be downgraded, and development within these wetlands is not considered appropriate.

As the classification of all wetlands on the site is considered accurate, it is not expected that any wetland management category would be upgraded in their current condition. The buffers and foreshore setbacks to the wetlands and creekline are classified as Completely Degraded and are characterised by anthropogenic fill, invasive weeds, and cleared paddock areas.

Management of the wetlands, creekline, buffers, and foreshore areas will include the removal of Declared Pests, management of invasive weeds, rehabilitation of disturbed areas, and improvements to water quality through the management of first-flush stormwater events. Over time, these measures may result in the wetland values becoming more commensurate with Conservation Category Wetlands.

The improvement in wetland values is considered to mitigate the impact of development within the Multiple Use wetlands elsewhere on the site. As the preservation and management of the wetlands provides mitigation for the onsite impacts it would not be considered an appropriate offset for projects undertaken in surrounding areas.

4.8.2 Wetland Buffers

The wetland buffers are Completely Degraded and have been significantly altered. Management of the threats to the wetland should be undertaken using a number of measures including:

- Management during civil works such as erosion control, soil stockpile management, protection of the creekline to prevent erosion, slumping and sedimentation;
- Access control using fencing and paths;
- Reinstation natural landform in areas that have fill.

- Management of the hydrology of the wetlands using the drainage design system contained in an approved Urban Water Management Plan including:
  - Hardstand runoff from the first 15mm of rainfall will be managed via biofiltration systems to provide water quality treatment of small events prior to off-site discharge.
  - Runoff from storms up to 1% Annual Exceedance Probability Event (100 year) will be detained within lots;
  - Maintenance of the predevelopment catchments and discharge locations to maintain the existing hydrological interface with the adjacent REW.
  - The stormwater controls should be in accordance with, but not limited to:
    - Perth Airport systems requirements;
    - City of Kalamunda *Stormwater Design Guidelines* (2022);
    - State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026); and
    - Principles of Water Sensitive Urban Design (DWER, 2011).
- Weed control programs in the wetlands to management invasive weeds and Declared pests
- Provide adequate fire breaks to development; and
- Appropriate waste disposal/waste management plans as part of the design of the Light Industrial development to ensure there is not a proliferation of rats and mice, including self-closing bins and ensuring that any food waste is managed appropriately.

The proposed Structure Plan provides for 15m buffers surrounded by defined hard edges to protect the wetlands. There is a small area in which the buffer is proposed to be lightly reduced to utilise an existing road and crossover of the creekline for a main road through the Structure Plan area (Appendix 1).

The assessment demonstrates that the proposed removal of fill and revegetation within the proposed buffer as shown on Figure 6 will not only suitably protect the wetland's ecological functions but will also result in improved protection and enhanced ecological values. This outcome will be further supported by appropriate stormwater management measures designed to improve water quality, the installation of fencing to restrict access and function as a gross pollutant trap, and the provision of a defined hard edge to the wetland (such as a road or limestone fire track). Collectively, these measures provide an integrated approach to wetland protection.

Overall, the assessment concludes that the proposed 15 m buffer, together with the management measures incorporated into the Structure Plan, will suitably protect the wetland's ecological functions.

4.8.3 Wetland Treatment

In summary the wetlands as mapped on the site have the following recommendations as outlined in Table 14.

Table 14: Proposed Treatment of Wetlands in Structure Plan

Wetland Classification	Wetland Type	UFI Number	Location	Relevant Values	Retain (Yes/No)	Buffer/ Foreshore and Management Recommendation
Resource Enhancement	Sumpland	16226	Western side of the site.	Vegetation in Good condition and is also part of the creekline	Yes	15m buffer and then fencing and a hard edge to provide integrated management measures with weed management, rehabilitation and stormwater management
Resource Enhancement	Sumpland	15940	Eastern part of the creekline drainage line.	Vegetation in Good condition and is also part of the creekline	Yes	
Multiple Use	Sumpland	16225	To the north of the western REW	Vegetation is Completely Degraded	Yes – in buffer	Forms part of the 15m buffer to REW 16226
Multiple Use	Sumpland	15898	Traverses the centre of the northern part site from east to west along the creekline.	Vegetation is completely Degraded but is part of the creekline that ultimately flow to Helena River so needs to be managed to ensure there are no downstream impacts	Yes – in part along the creekline	To be treated as a watercourse with a 15m buffer to the 11m main channel for a total width of 41m that contains the 10% AEP with integrated management measures of fencing, a hard edge, rehabilitation and stormwater management consistent with the Resource Enhancement wetlands
Multiple Use	Dampland	15267	South of the creekline.	Cleared and filled in parts. Completely Degraded	No	NA
Multiple Use	Sumpland	15777	Northern part of Lot 200	Already cleared and filled	No	NA
Multiple Use	Dampland	15779	Central part of Lot 200	Already cleared and filled	No	NA
Multiple Use	Sumpland	15780	The southern part of Lot 200.	Already cleared and filled	No	NA

4.8.4 Living Stream

The creekline through the site has been degraded over many years, with sections of the channel highly modified and only limited riparian vegetation remaining. The proposed living stream has been designed to maintain hydraulic connectivity between the wetlands and ultimately convey flows to the Perth Airport Northern Drain catchment, while consolidating the existing drainage function and ensuring sufficient capacity to accommodate stormwater flows.

The design also incorporates measures to enhance both hydraulic performance and ecological value, including the establishment of riparian vegetation and the introduction of features such as minor meanders, rock boulders, pools and riffles.

4.8.5 Foreshore Reserve

The combined width of the channel of the living stream and proposed foreshore, totalling 41m of POS as shown on Figure 6, aligns with the proposed 15m wetland buffer widths, thereby providing continuity of environmental setbacks across the proposed development. The 41m corridor incorporates the 1% Annual Exceedance Probability (AEP) flood extent, together with an additional 9m on either side of the 1% AEP level.

The foreshore will be enhanced through native planting on the banks of the channel to improve bank stabilisation and provide additional protection to the waterway. Consistent with the wetland treatment, the creekline is expected to be fenced and bounded by a defined hard edge, such as a road or fire track. These measures will mitigate potential impacts associated with uncontrolled access, rubbish dumping, weed spread and edge effects.

In addition, the measures previously outlined and incorporated into the LWMR will ensure that both water quality and water quantity are appropriately managed, resulting in a positive downstream outcome.

5 SUMMARY AND CONCLUSIONS

5.1 Summary

The Environmental Assessment of the proposed Light Industrial Development of the Hatch Court Precinct has found the following:

- The historic and current land-uses on the site are not a constraint to develop the site in accordance with the Structure Plan;
- There are no Aboriginal Heritage sites or sites of other heritage values on the site;
- The soils mapped on the site are not a constraint to development. Soil types with a high to extreme wind erosion risk can be managed for dust control during construction through the preparation and implementation of a Dust Management Plan;
- Acid Sulphate Soil investigation and Management may be required;
- There are no Threatened or Priority flora species occurring on the site and therefore flora is not a constraint to development;
- The vegetation on the site is mostly Degraded and is not representative of a Threatened or Priority Ecological Community and the vegetation is not considered to be a constraint to the proposed development;
- The site contains some trees which provide foraging habitat and potential breeding habitat for Baudin's, Carnaby's and Forest Red-tailed Black Cockatoos. Clearing is unlikely to have a significant impact and a referral under the EPBC is not likely to be required;
- The development will maintain ecological linkage through the east-west creekline;
- Development will provide additional protection from potential contaminants from first flush event by installing appropriate stormwater controls in accordance with the LWMS while maintaining the hydrological regime of overland flow to the creekline in higher rainfall events;
- The Resource Enhancement wetlands and creekline have been individually assessed to determine appropriate buffers and foreshore setbacks;
- A 15m buffer to the wetlands combined with fencing around the buffers and a hard edge such as a road or fire track, supported by appropriate stormwater management measures designed to improve water quality, collectively provide an integrated approach to wetland protection which will result in the enhancement of the wetland values;
- Rehabilitation and ongoing weed control may result in improvements to wetland condition such that the wetlands develop attributes more representative of Conservation Category Wetlands.;
- The foreshore reserve width of 15m foreshore on each side of the 11m channel width as determined by the 10% AEP to a total of 41m provide adequate protection to the creekline and maintains the continuity of management of wetlands and the waterway across the development;
- The creekline and foreshore are in Degraded to Completely Degraded condition, so the degraded creekline will be partially reconfigured to a living stream to ensure the creekline has enhanced water capacity for stormwater and improved environmental values and ecological function; and

- Implementation of foreshore management and rehabilitation measures within the foreshore to the creekline/living stream will improve the environmental function of the watercourse.

The considerations for the design of the development include rehabilitation of the Resource Enhancement Wetlands, living stream and associated buffers and foreshore to improve the ecological linkage it provides. Additionally formalising stormwater controls to manage runoff into the creekline in accordance with State Planning Policy No. 2.9 *Water* (Government of Western Australia, 2026). Mature trees should be retained where possible.

5.2 Conclusion

The Environmental Assessment of the Hatch Court Light Industrial Precinct concludes that development of the site is not constrained by any environmental factor.

Additional management and detailed management plans to address the following factors will be required in future stages:

- Rehabilitation and management of the creekline and wetlands;
- Tree retention strategy;
- Urban Water Management Plans in accordance with *SPP2.9* ;
- If required further investigation and possibly management for Acid Sulphate Soils;
- Fauna management and relocation plans; and
- Dust Management Plans.

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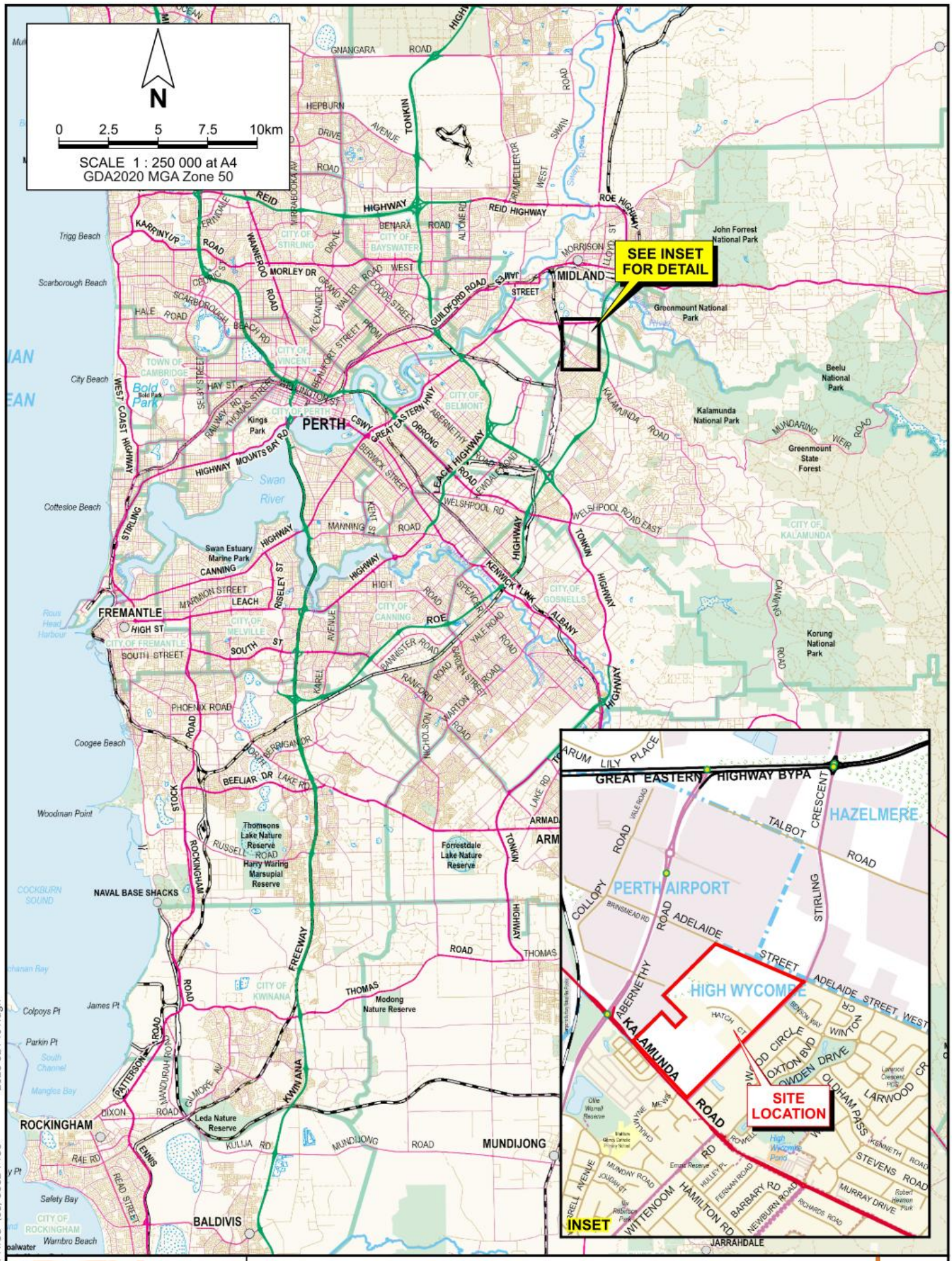
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FIGURES



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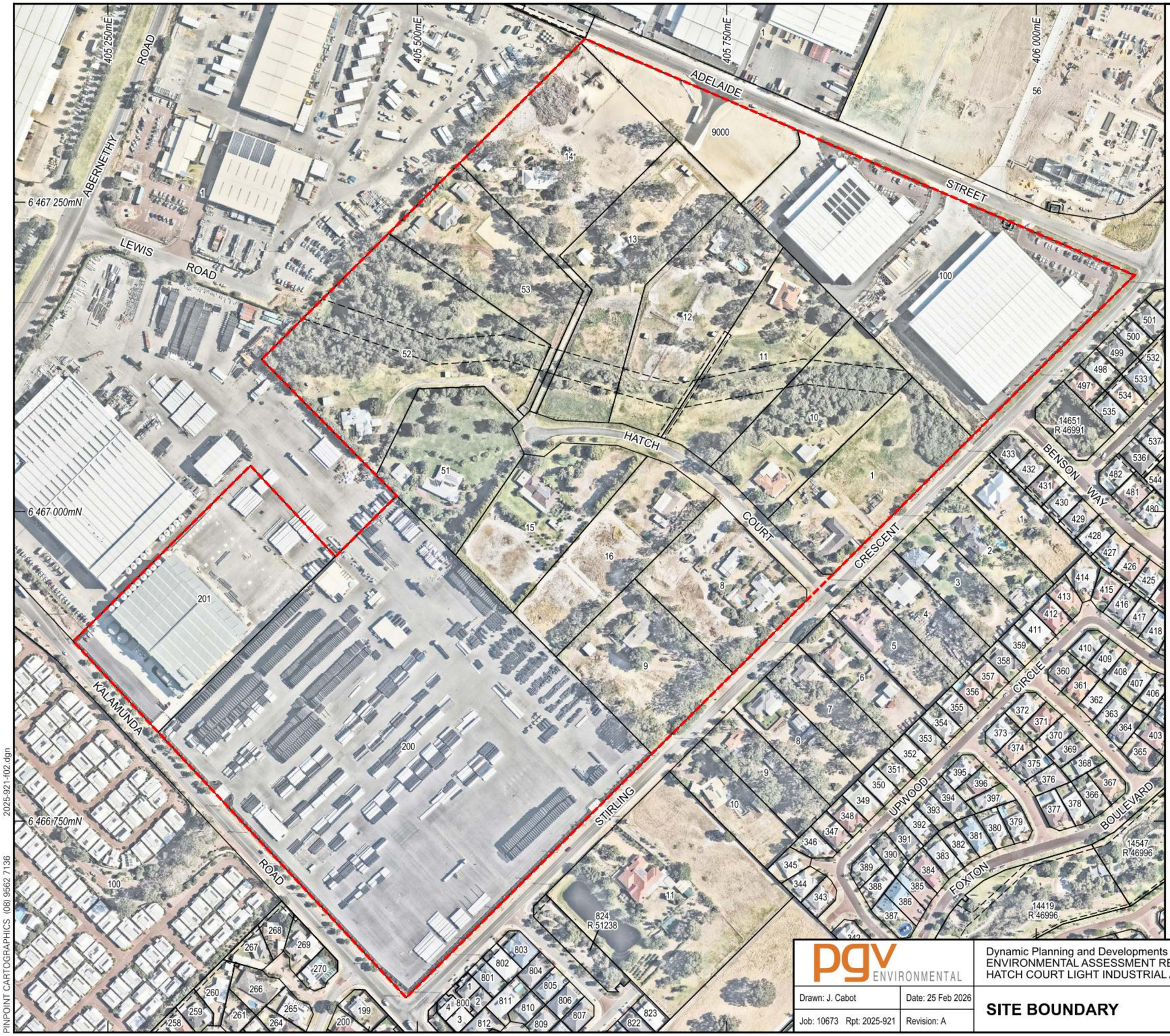
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Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot	Date: 25 Feb 2026
Job: 10673 Rpt: 2025-921	Revision: A

SITE LOCATION

Figure 1



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

2025-921-f02.dgn

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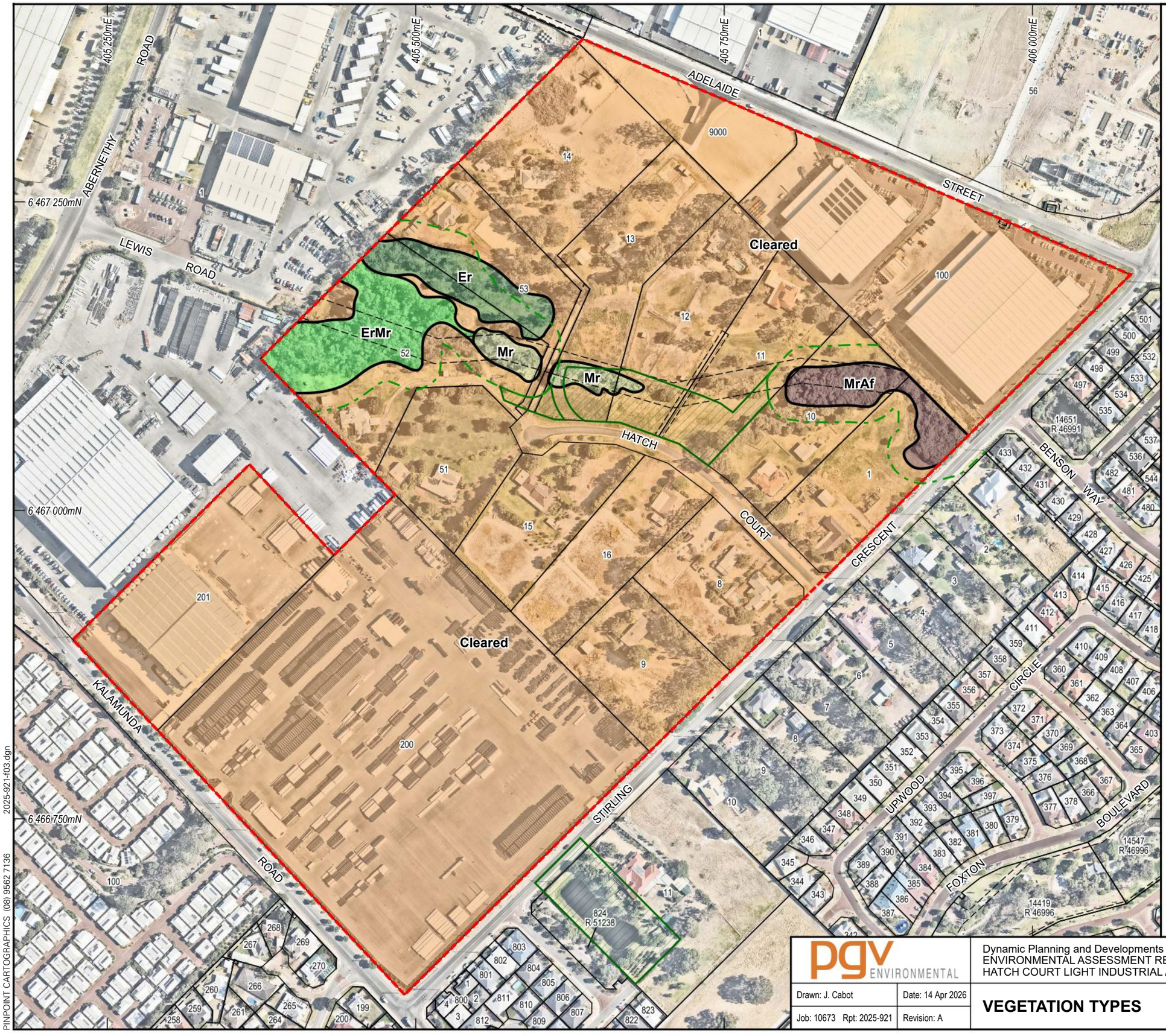
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Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot | Date: 25 Feb 2026
Job: 10673 Rpt: 2025-921 | Revision: A

SITE BOUNDARY

Figure 2



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Vegetation Type Boundary
- Er Vegetation Type
- POS
- 15m Wetland Buffer

Vegetation Types

ErMr
Eucalyptus rudis Woodland to Low Forest over *Melaleuca rhaphiophylla* Low Forest over Arum Lily

Er
Eucalyptus rudis Woodland to Low Forest over Pasture

Mr
Melaleuca rhaphiophylla Low Woodland over Typha and Arum Lily

MrAf
Melaleuca rhaphiophylla/Astartea fascicularis Thicket to Low Woodland

Cleared
Areas that contain no, or very few, native plants and are vegetated by exotic species

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

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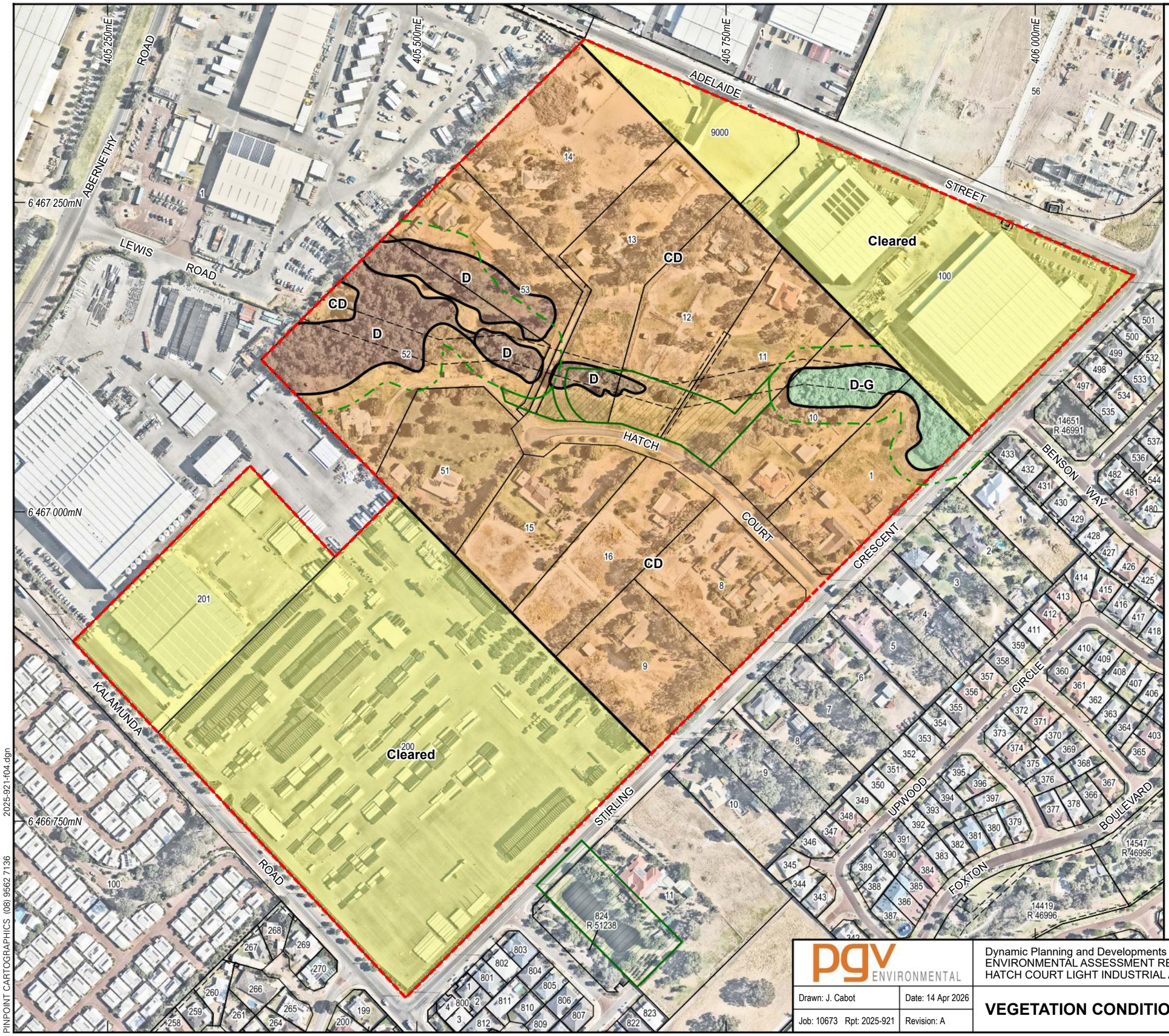
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ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

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Job: 10673 Rpt: 2025-921 | Revision: A

VEGETATION TYPES

Figure 3

2025-921-f03.dgn
PINPOINT CARTOGRAPHICS (08) 9562 7136



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Fence
- Vegetation Condition Boundary
- VG Vegetation Condition
- POS
- 15m Wetland Buffer

Vegetation Condition

- Degraded to Good
- Degraded
- Completely Degraded
- Cleared

Vegetation Condition
(SOURCE: Bush Forever, Govt. of W.A., 2000)

P - Pristine
Pristine or nearly so, no obvious signs of disturbance.

Ex - Excellent
Vegetation structure intact, disturbance affecting individual species and weeds are non aggressive species.

VG - Very Good
Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.

G - Good
Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.

D - Degraded
Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.

CD - Completely Degraded
The structure of the vegetation is no longer intact and the areas is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora composing weed or crop species with isolated native trees or shrubs.

Cl - Cleared
No native vegetation remaining.

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2025-921-f04.dgn

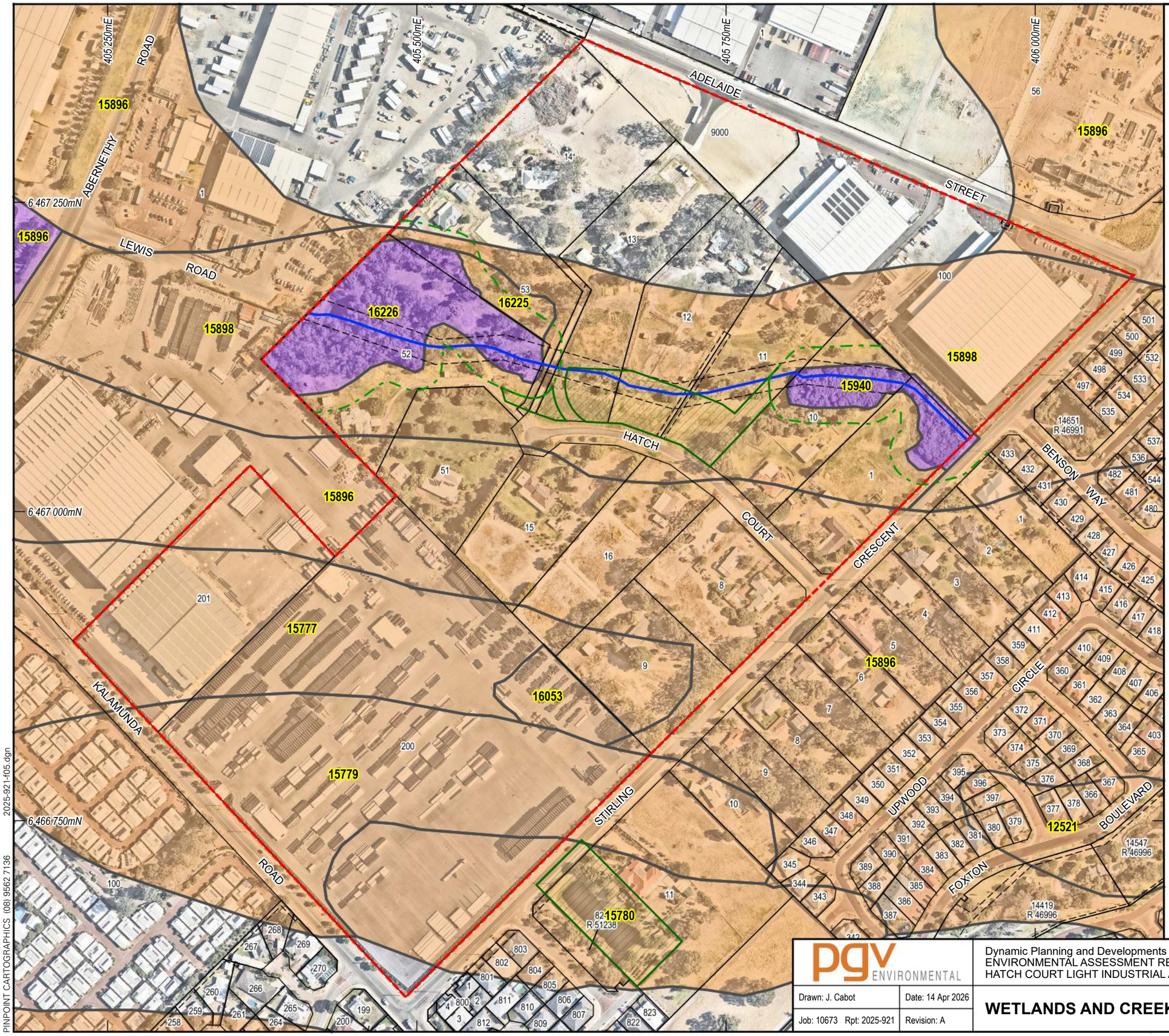
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Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot | Date: 14 Apr 2026
Job: 10673 Rpt: 2025-921 | Revision: A

VEGETATION CONDITION

Figure 4



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Creekline
- POS
- 15m Wetland Buffer

Geomorphic Wetlands

- Resource Enhancement
- Multiple Use
- 15940 Wetland UFI Number

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.

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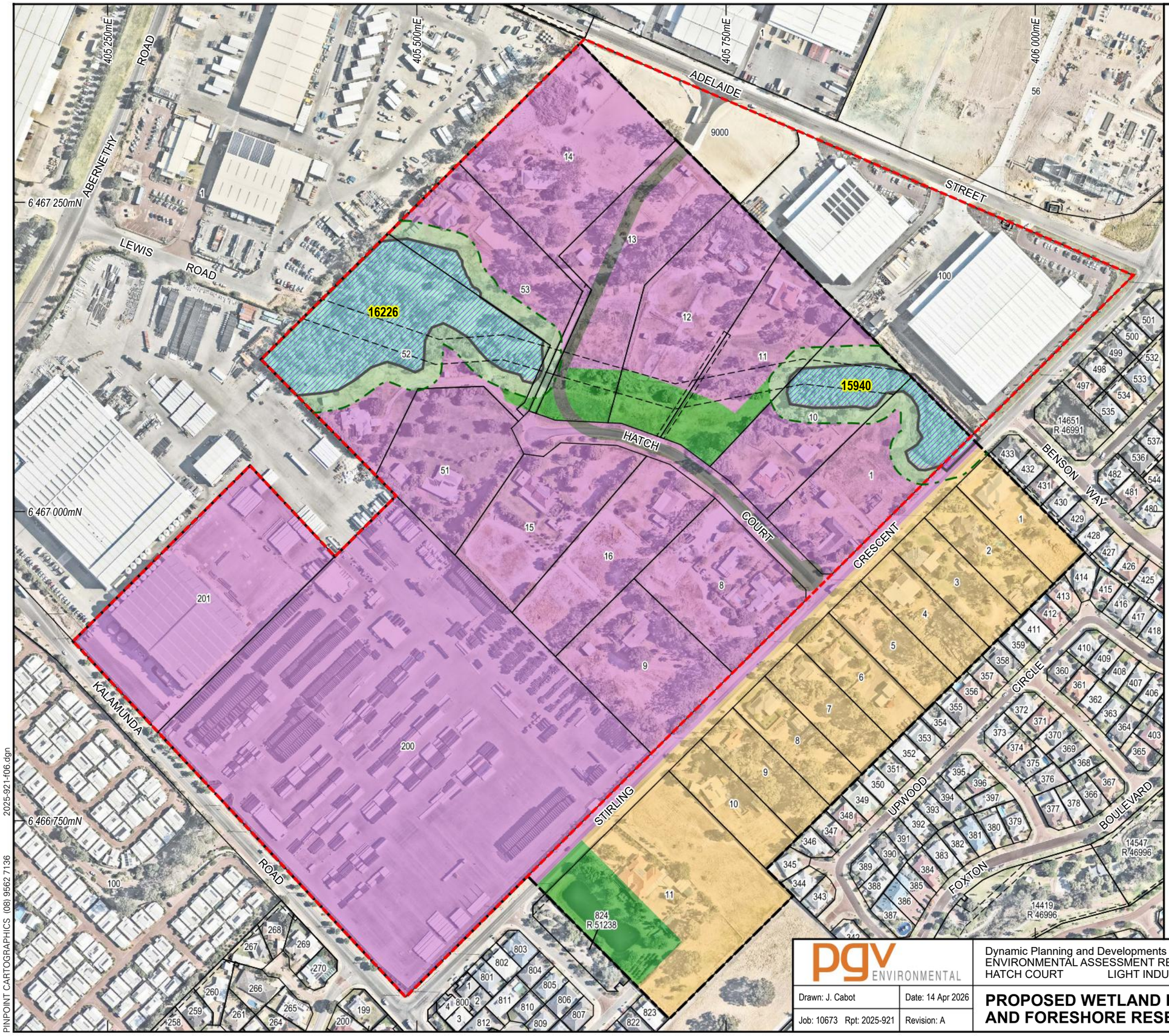
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HATCH COURT LIGHT INDUSTRIAL AREA

Drawn: J. Cabot	Date: 14 Apr 2026
Job: 10673 Rpt: 2025-921	Revision: A

WETLANDS AND CREEKLINE

Figure 5

PINPOINT CARTOGRAPHICS (08) 9562 7136 2025-921-f05.dgn



N

0 20 40 60 80 100m

SCALE 1 : 3 000 at A3
GDA2020 MGA Zone 50

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary

Geomorphic Wetlands

- Resource Enhancement
- 15m Wetland Buffer
- 15940 Wetland UFI Number

Structure Plan

- Structure Plan Boundary
- Industry
- Residential
- Roads
- Wetland
- Foreshore POS

CADASTRAL SOURCE: Landgate, September 2025.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown January 2026.
SUBDIVISION SOURCE: Dynamic Planning, Dwg No. 2490-2-001i, Rev 4, 17/03/26.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2025-921-f06.dgn

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Dynamic Planning and Developments
ENVIRONMENTAL ASSESSMENT REPORT
HATCH COURT LIGHT INDUSTRIAL AREA

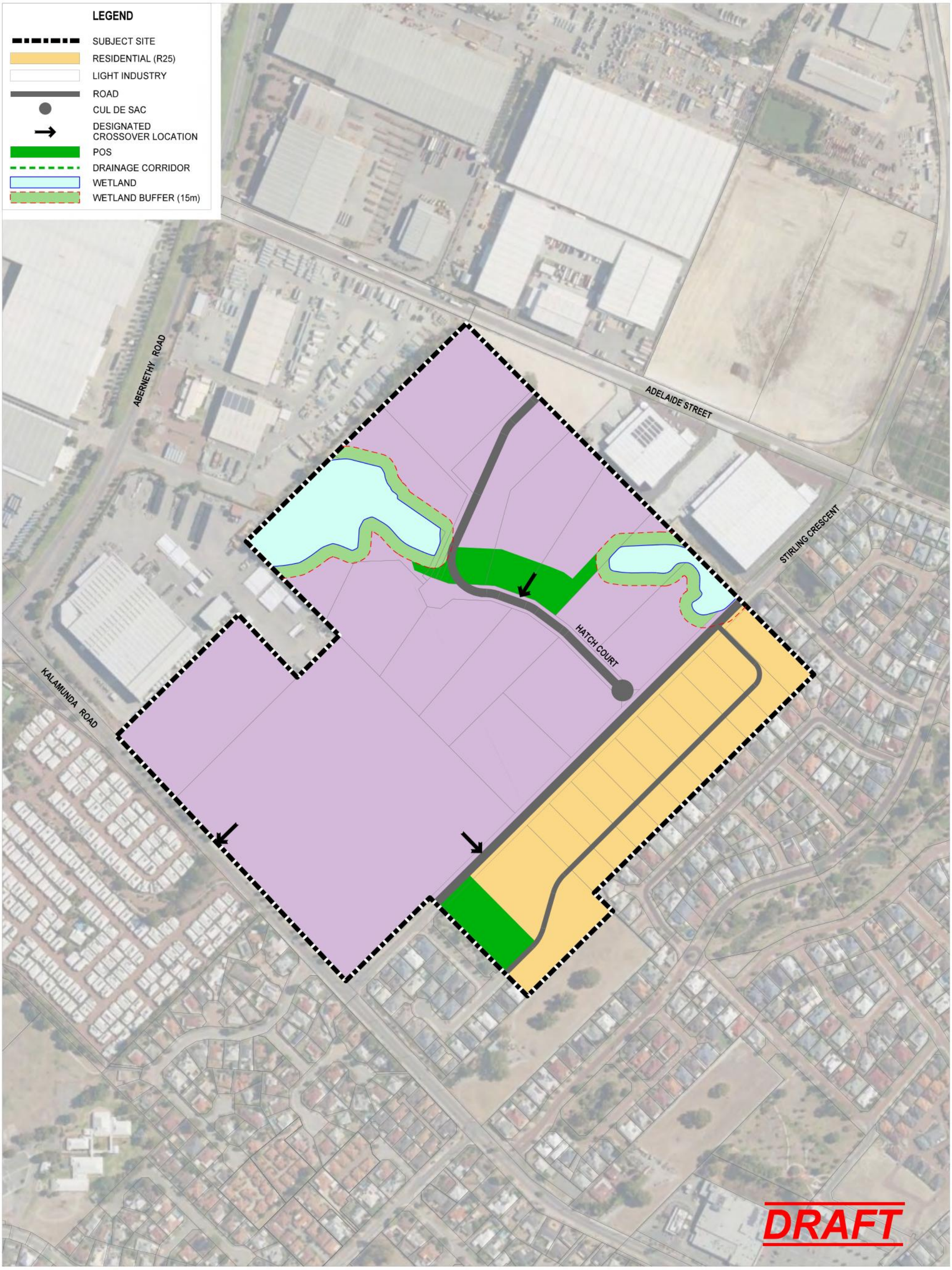
Drawn: J. Cabot | Date: 14 Apr 2026
Job: 10673 Rpt: 2025-921 | Revision: A

PROPOSED WETLAND BUFFERS AND FORESHORE RESERVE

Figure 6

APPENDIX 1

Structure Plan



0 50 100 150 200
metres

COPYRIGHT RESERVED BASE PLAN COURTESY OF LANDGATE

LOCAL STRUCTURE PLAN

CITY OF KALAMUNDA

VARIOUS LOTS - STIRLING CRESCENT / HATCH COURT

SCALE: 1:4,000 @ A3

DATE: 17 March 2026

FILE: 2490-2-001i

DRAW: - BL

CHECKED: -

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APPENDIX 2

Aboriginal Cultural Heritage Inquiry System Reports

Aboriginal Cultural Heritage Inquiry System

List of Aboriginal Cultural Heritage (ACH) Register

For further important information on using this information please see the WA.gov.au website's Terms of Use at https://www.wa.gov.au/terms-of-use

Search Criteria

1 Aboriginal Cultural Heritage (ACH) Register in Custom search area - Polygon - 115.998059711699°E, 31.9305438329691°S (GDA94) : 116.000205478911°E, 31.928813780358°S (GDA94) : 115.999025306945°E, 31.9278303675207°S (GDA94) : 116.001771888976°E, 31.9254810609465°S (GDA94) : 116.005290947204°E, 31.9284131319531°S (GDA94) : 116.000355682616°E, 31.9325652216221°S (GDA94) : 116.000377140288°E, 31.9325470111118°S (GDA94) : 115.998059711699°E, 31.9305438329691°S (GDA94)

Disclaimer

Aboriginal heritage holds significant value to Aboriginal people for their social, spiritual, historical, scientific, or aesthetic importance within Aboriginal traditions, and provides an essential link for Aboriginal people to their past, present and future. In Western Australia Aboriginal heritage is protected under the *Aboriginal Heritage Act 1972*.

All Aboriginal cultural heritage in Western Australia is protected, whether or not the ACH has been reported or exists on the Register.

The information provided is made available in good faith and is predominately based on the information provided to the Department of Planning, Lands and Heritage by third parties. The information is provided solely on the basis that readers will be responsible for making their own assessment as to the accuracy of the information. If you find any errors or omissions in our records, including our maps, it would be appreciated if you provide the details to the Department via https://achknowledge.dplh.wa.gov.au/ach-enquiry-form and we will make every effort to rectify it as soon as possible.

South West Settlement ILUA Disclaimer

Your heritage enquiry is on land **within or adjacent to** the following Indigenous Land Use Agreement(s): Whadjuk People Indigenous Land Use Agreement.

On 8 June 2015, six identical Indigenous Land Use Agreements (ILUAs) were executed across the South West by the Western Australian Government and, respectively, the Yued, Whadjuk People, Gnaala Karla Booja, Ballardong People, South West Boojarah #2 and Wagyl Kaip & Southern Noongar groups, and the South West Aboriginal Land and Sea Council (SWALSC).

The ILUAs bind the parties (including 'the State', which encompasses all State Government Departments and certain State Government agencies) to enter into a Noongar Standard Heritage Agreement (NSHA) when conducting Aboriginal Heritage Surveys in the ILUA areas, unless they have an existing heritage agreement. It is also intended that other State agencies and instrumentalities enter into the NSHA when conducting Aboriginal Heritage Surveys in the ILUA areas. It is recommended a NSHA is entered into, and an 'Activity Notice' issued under the NSHA, if there is a risk that an activity will ‘impact’ (i.e. by excavating, damaging, destroying or altering in any way) an Aboriginal heritage site. The Aboriginal Heritage Due Diligence Guidelines, which are referenced by the NSHA, provide guidance on how to assess the potential risk to Aboriginal heritage.

Likewise, from 8 June 2015 the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) in granting Mineral, Petroleum and related Access Authority tenures within the South West Settlement ILUA areas, will place a condition on these tenures requiring a heritage agreement or a NSHA before any rights can be exercised.

If you are a State Government Department, Agency or Instrumentality, or have a heritage condition placed on your mineral or petroleum title by DEMIRS, you should seek advice as to the requirement to use the NSHA for your proposed activity. The full ILUA documents, maps of the ILUA areas and the NSHA template can be found at https://www.wa.gov.au/organisation/department-of-the-premier-and-cabinet/south-west-native-title-settlement.

Further advice can also be sought from the Department of Planning, Lands and Heritage via https://achknowledge.dplh.wa.gov.au/ach-enquiry-form.

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Terminology

ID: ACH on the Register is assigned a unique ID by the Department of Planning, Lands and Heritage using the format: ACH-00000001. For ACH on the former Register the ID numbers remain unchanged and use the new format. For example the ACH ID of the place Swan River was previously '3536' and is now 'ACH-00003536'.

Access and Restrictions:

- **Boundary Reliable (Yes/No):** Indicates whether to the best knowledge of the Department, the location and extent of the ACH boundary is considered reliable.
- **Boundary Restricted = No:** Represents the actual location of the ACH as understood by the Department..
- **Boundary Restricted = Yes:** To preserve confidentiality the exact location and extent of the place is not displayed on the map. However, the shaded region (generally with an area of at least 4km²) provides a general indication of where the ACH is located. If you are a landowner and wish to find out more about the exact location of the place, please contact the Department of Planning, Lands and Heritage.
- **Culturally Sensitive = No:** Availability of information that the Department of Planning, Lands and Heritage holds in relation to the ACH is not restricted in any way.
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List of Aboriginal Cultural Heritage (ACH) Register

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ID	Name	Boundary Restricted	Boundary Reliable	Culturally Sensitive	Culturally Sensitive Nature	Status	Place Type	Knowledge Holders	Legacy ID
3719	MUNDAY SWAMP.	Yes	Yes	Yes	No Gender / Initiation Restrictions	Register	Artefacts / Scatter; Camp; Ritual / Ceremonial; Creation / Dreaming Narrative; Hunting Place; Other; Plant Resource	*Registered Knowledge Holder names available from DPLH	S02219

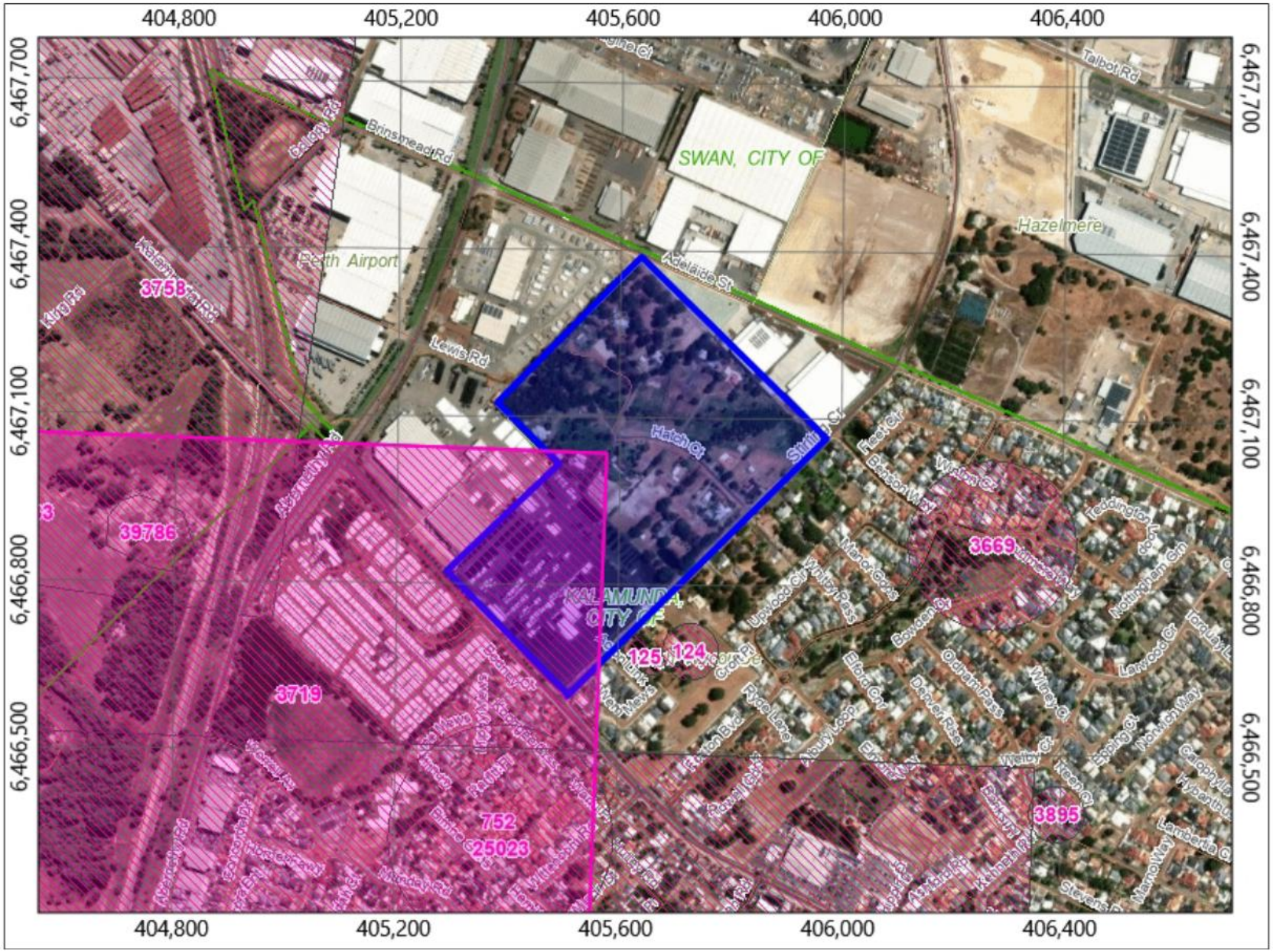
Department of Planning, Lands and Heritage

GOVERNMENT OF WESTERN AUSTRALIA

Aboriginal Cultural Heritage Inquiry System

Map of Aboriginal Cultural Heritage (ACH) Register

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Legend

- Aboriginal Cultural Heritage (ACH) Register
- Search Area
- Aboriginal Community
  - *Permanent*
  - *Seasonal*
  - *Town Based*
- Town
- Road
- River
- Local Government Authority

0.40 kilometres

Map Scale 1 : 12,300

MGA Zone 50 (GDA2020)

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Aboriginal Cultural Heritage Inquiry System

List of Aboriginal Cultural Heritage (ACH) Lodged

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Search Criteria

1 Aboriginal Cultural Heritage (ACH) Lodged in Custom search area - Polygon - 115.998059711699°E, 31.9305438329691°S (GDA94) : 116.000205478911°E, 31.928813780358°S (GDA94) : 115.999025306945°E, 31.9278303675207°S (GDA94) : 116.001771888976°E, 31.9254810609465°S (GDA94) : 116.005290947204°E, 31.9284131319531°S (GDA94) : 116.000355682616°E, 31.9325652216221°S (GDA94) : 116.000377140288°E, 31.9325470111118°S (GDA94) : 115.998059711699°E, 31.9305438329691°S (GDA94)

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South West Settlement ILUA Disclaimer

Your heritage enquiry is on land **within or adjacent to** the following Indigenous Land Use Agreement(s): Whadjuk People Indigenous Land Use Agreement.

On 8 June 2015, six identical Indigenous Land Use Agreements (ILUAs) were executed across the South West by the Western Australian Government and, respectively, the Yued, Whadjuk People, Gnaala Karla Booja, Ballardong People, South West Boojarah #2 and Wagyl Kaip & Southern Noongar groups, and the South West Aboriginal Land and Sea Council (SWALSC).

The ILUAs bind the parties (including 'the State', which encompasses all State Government Departments and certain State Government agencies) to enter into a Noongar Standard Heritage Agreement (NSHA) when conducting Aboriginal Heritage Surveys in the ILUA areas, unless they have an existing heritage agreement. It is also intended that other State agencies and instrumentalities enter into the NSHA when conducting Aboriginal Heritage Surveys in the ILUA areas. It is recommended a NSHA is entered into, and an 'Activity Notice' issued under the NSHA, if there is a risk that an activity will ‘impact’ (i.e. by excavating, damaging, destroying or altering in any way) an Aboriginal heritage site. The Aboriginal Heritage Due Diligence Guidelines, which are referenced by the NSHA, provide guidance on how to assess the potential risk to Aboriginal heritage.

Likewise, from 8 June 2015 the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) in granting Mineral, Petroleum and related Access Authority tenures within the South West Settlement ILUA areas, will place a condition on these tenures requiring a heritage agreement or a NSHA before any rights can be exercised.

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Terminology

ID: ACH on the Register is assigned a unique ID by the Department of Planning, Lands and Heritage using the format: ACH-00000001. For ACH on the former Register the ID numbers remain unchanged and use the new format. For example the ACH ID of the place Swan River was previously '3536' and is now 'ACH-00003536'.

Access and Restrictions:

- **Boundary Reliable (Yes/No):** Indicates whether to the best knowledge of the Department, the location and extent of the ACH boundary is considered reliable.
- **Boundary Restricted = No:** Represents the actual location of the ACH as understood by the Department..
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Aboriginal Cultural Heritage Inquiry System

List of Aboriginal Cultural Heritage (ACH) Lodged

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30039	Stirling Crescent Swamp	No	Yes	No	No Gender / Initiation Restrictions	Lodged	Historical; Hunting Place; Landscape / Seascape Feature; Water Source	*Registered Knowledge Holder names available from DPLH	

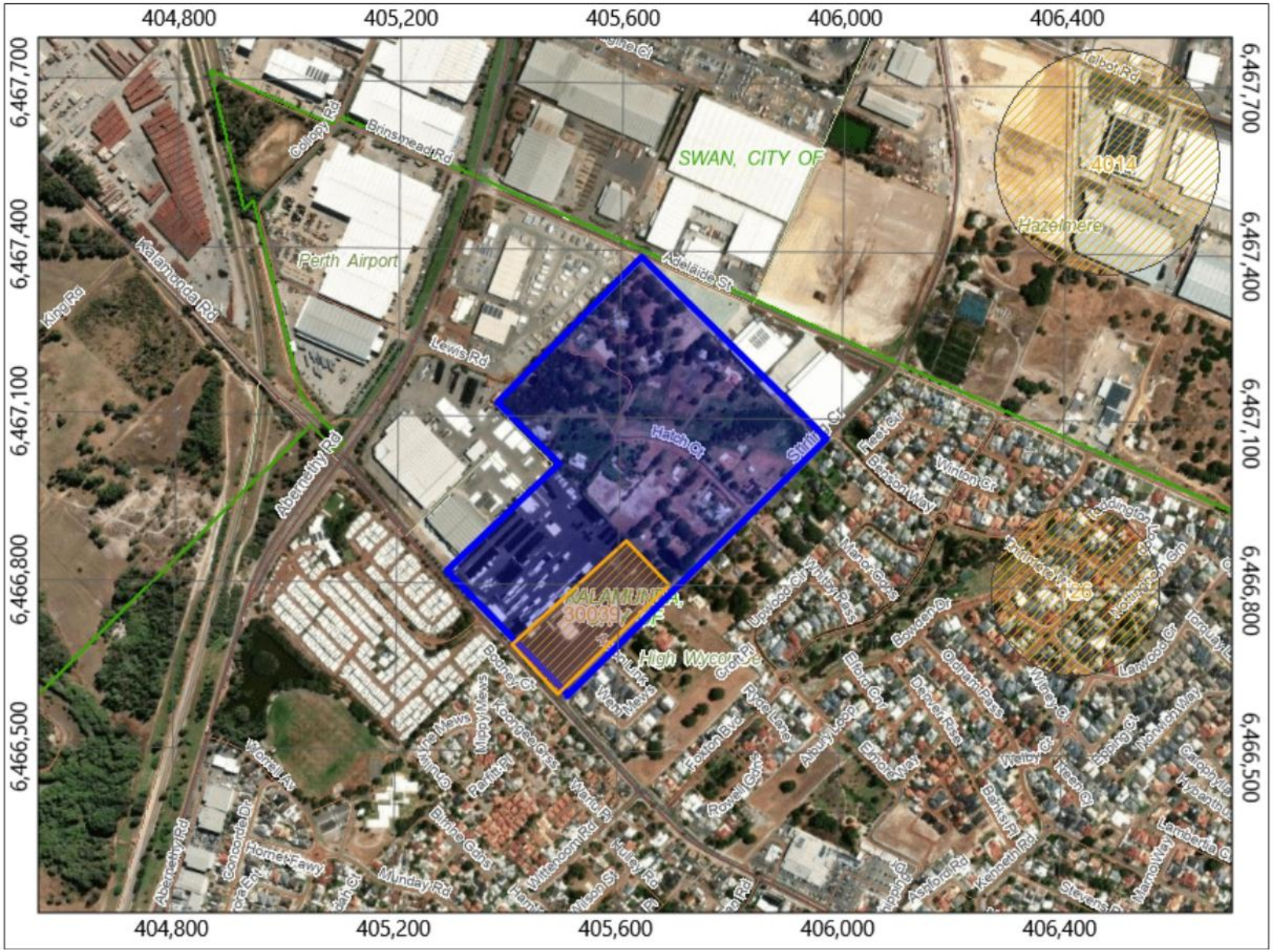
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0.40 kilometres

Map Scale 1 : 12,300

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Department of Planning, Lands and Heritage

Aboriginal Cultural Heritage Inquiry System

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APPENDIX 3

DBCA Flora Database Searches

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
514217	3219	Acacia anomala	T	Flowers yellow.	In laterite.			Common name `Chittering Grass Wattle'.	10/09/1985
2239671	3219	Acacia anomala	T	Rhizomatous shrub to 0.5 m.	Gravelly loam, steep slope.	Eucalyptus marginata - E. calophylla woodland.			11/09/1991
804967	3219	Acacia anomala	T	Slender form full flower and a grasslike shrub to 40 cms.	Steep slope SSE aspect near crest. Loam over gravel.	In Eucalyptus marginata 10 m, Euc. calophylla -12 m woodland with scattered Casuarina fraserana to 50 m, Xanthorrhea preissii -3 m, over Low Scrub of Hakea undulata, Hakes amplexicaulis and Dense Low Heath.			2/09/1982
737089	3219	Acacia anomala	T	Slender form, full flower, grasslike shrub to 40 cm.	Steep slope, SSE aspect, crest of N side of gully. Brown sandy loam.	Growing in E. marginata, E. calophylla, Casuarina fraserana over low shrub over dense low heath.			2/09/1982
9669183	3220	Acacia aphylla	T	Shrub to 2 m.	S facing slope. Soil: brown sandy loam with gravel.	Jarrah/marri forest with shrub understorey.	2 plants.		17/11/2023
920894	3220	Acacia aphylla	T						/06/1974
116351	3220	Acacia aphylla	T	Sturdy shrub to 1.5 m, flowers yellow, single, globular leafless, dichotomously branched.	Granite.				5/08/1970
5880491	3220	Acacia aphylla	T		Slope. Moist - dry, brown clay loam. Granite - boulder.	Muir's: scattered marri on road verge. Hakea incrassata, H. erinacea, H. petiolaris, Dryandra armata, D. lindleyana, Nemcia sp., Xanthorrhoea preissii.	6 mature plants, 8 seedlings.		11/07/2001
1189018	3220	Acacia aphylla	T		Growing on road verge.				30/12/1987
9784055	3220	Acacia aphylla	T	Erect shrub 1.7 m high with yellow flowers. Flower in bud and early flowering stage.	On north and south verges.	Eucalyptus marginata and Corymbia calophylla open woodland 10-30 m, 0.25-20% on south side, grading to granite heathland to the north.	4 plants.		7/07/2020
9784233	3220	Acacia aphylla	T	Erect shrub 1.7 m high with yellow flowers. Flower in bud and early flowering stage.	On north and south verges.	Eucalyptus marginata and Corymbia calophylla open woodland 10-30 m, 0.25-20% on south side, grading to granite heathland to the north.	4 plants.		7/07/2020
8273553	3237	Acacia benthamii	2	Slender erect open shrub 70 cm high x 50 cm wide. In bud.	Slope above creek. Grey sand.	Degraded Tuart open woodland over Banksia low woodland.	scattered shrubs.		8/07/2007

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7485263	11229	Acacia drummondii subsp. affinis	3	Erect, perennial shrub up to 1 m high. Flowers yellow.	Hillside. Clay, rocky. In disturbed soil on road verge.	Medium trees, Marri.	21-50 plants.	Adult population. Percentage of plants flowering 90%.	25/06/2006
126209	3373	Acacia horridula	3	Flowers pale lemon. Height 1 - 2 ft.	Gravel.				5/06/1977
607509	14129	Acacia oncinophylla subsp. oncinophylla	3	Flowers yellow.					/09/1919
607592	14129	Acacia oncinophylla subsp. oncinophylla	3						30/09/1901
607614	14129	Acacia oncinophylla subsp. oncinophylla	3						/09/1916
607495	14129	Acacia oncinophylla subsp. oncinophylla	3	Shrub 4 - 6 ft.					/10/1939
607576	14129	Acacia oncinophylla subsp. oncinophylla	3						/01/1979
607541	14129	Acacia oncinophylla subsp. oncinophylla	3	Shrub to 1 m with many more or less erect branches; flowers yellow.	Near granite.				8/09/1961
5082846	14129	Acacia oncinophylla subsp. oncinophylla	3		Grey-brown gritty loam, with lateritic gravel and cobbels on surface, on a gentle-steep midslope.	Grevillea endilcheriana Low Scrub, over Trymalium lidifolium, Baeckea camphorosmae Dwarf Scrub, over Borya sphaerocephala Dense Herbs.			18/09/1996
7373856	14129	Acacia oncinophylla subsp. oncinophylla	3	Prostrate.	Numerous outcrops. Lower slope. Granite. Sandy loam with quartz.	Open heath.	2 plants.	Healthy population low disturbance.	4/10/2005
6921965	14129	Acacia oncinophylla subsp. oncinophylla	3	Shrub.	S facing slope. Brown loam and granite. Burnt 1989.	Open woodland of Marri and Wandoo over heath to 1 m. Darwinia pimelioides, Daviesia horrida, Trymalium ledifolium, Hakea cristata, Diplolaena sp., Phyllantus calycinus. Area weedy.			17/08/1992
607584	14129	Acacia oncinophylla subsp. oncinophylla	3	3 ft high. Flowers yellow.	Granite.	Heath.	scarce.		26/09/1977
607649	14131	Acacia oncinophylla subsp. patulifolia	4						/08/1971
4570502	14131	Acacia oncinophylla subsp. patulifolia	4	Shrub 2-3 ft (0.6-0.9 m).	Open position, heavy soil, base of Darling Scarp.				21/09/1946

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5097444	14131	Acacia oncinophylla subsp. patulifolia	4		Dark brown gritty loam, with surface gravel and cobbels on a very steep southern upper slope.	Grevillea endlicheriana, Hakea undulata Open Low Scrub, over Trymalium ledifolium, Hakea undulata mixed Dense Low Heath, over Amphipogon turbinata Low Grass, over Gonocarpus cordiger Very Open Herbs.			24/09/1996
8256136	18195	Amanita carneiphylla	3	Pileus up to 165 mm diameter, white, hemispheric when young applanate when mature, non-strate appendiculate margin, slightly viscid, no odour, context white, unchanging. Universal veil on the pileus: white, adnate, initially covering the whole pileus the	On Karrakatta sand. Emerging from deep sand.	Degraded Banksias woodland. Species of plants nearby: Jacksonia furcellata.	3 collected.	Microscopic character details housed with specimen. Gill piece taken for sequencing 27.1.13. - E. Davison.	15/06/2002
2224283	46334	Amanita kalamundae	3		In deep litter.	Under Eucalyptus patens and Agonis eriafolia.		MU89/110. Sporeprint.	18/06/1989
8774773	48332	Amanita preissii	3	Pileus to 48, 60 mm diameter, 4, 5 mm thick, white, plane with slightly depressed centre, margin appendiculate, context white, yellowing beneath pellis. Universal veil on pileus of thin layer over whole disc, breaking into small warts in centre of disc,		Garden of WA plants. Nearby woody plants: Eucalyptus spp., Calitris sp., Actinostrobus sp, Hemiandra sp.	single specimen.	Sequences for GenBank: ITS, nuLSU, BTUB, EF, RPB2.	22/05/2005
9327231	6309	Andersonia gracilis	T	Scraggly shrub with blue-green leaves and pink flowers.	Plain, brown sandy clay loam.	Tall open shrubland of Callitris pyramidalis over mid sparse shrubland of Beaufortia squarrosa and Petrophile seminuda over low sparse shrubland of Hypocalymma angustifolium subsp. Swan Coastal Plain (G.J. Keighery 16777). Some minor weeds present.	c. 15 plants seen at this location.		22/10/2019

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7129238	6946	Anthocercis gracilis	T		Slope - outcrop. Moist brown loam-clay, granite boulder. Burnt by wildfire in Summer 1996/97 and Summer 2003/04.	Marri and Wandoo open woodland. Macrozamia riedlii, Xanthorrhoea preissii, Hakea cristata, Acacia pulchella, Pimelea ciliata, Trymalium ledifolium, Rulingia cygnorum, Hibbertia hypericoides, Dryandra lindleyana, Darwinia citriodora, Caladenia sp., Diuris	1500+ mature plants.	Substantial weed invasion following a wildfire in the summer of 2003.	21/07/2005
9590692	6946	Anthocercis gracilis	T	Slender, sprawling shrub to 1.5 m tall. When flowering, petals pale yellow with a purple stripe down middle, purple at base.	SE facing slope. Uphill from creekline. Soil: Dark brown sandy loam.	Eucalyptus woodland with mid-dense shrubs to 1.5 m, with Banksia (Dryandra) sp., Macrozamia sp., Pimelea sp., Acacia sp., Xanthorrhoea preissii, Orthrosanthus laxus, Hakea lissocarpha, Eucalyptus wandoo, Corymbia calophylla, Trymalium [odoratissimum].	>100 plants.		16/12/2022
1059238	6946	Anthocercis gracilis	T			Growing in understorey.			15/08/1984
1059211	6946	Anthocercis gracilis	T	Straggling herb to 60 cm tall.					19/05/1984
5208963	6946	Anthocercis gracilis	T		Red-brown clayey loam, with dolerite cobbels and boulders, on a very steep south-eastern lower slope.	Eucalyptus laeliae, E. calophylla, E. wandoo Low Woodland, over Trymalium floribundum, Xanthorrhoea preissii Dense Heath, over Macrozamia reidlii, Phyllanthus calycinus Low Heath, over Loxocarya flexuosa Tall Sedges.			8/10/1996
5462096	6946	Anthocercis gracilis	T		Aspect S. Slope/outcrop/drainage line. Moist/dry red/brown/yellow loam/clay. Granite sheet/boulder. At times plants can be seen beside the walk trail W and growing to within 10 m of the water.	(Muir's) Regrowth marri and wandoo open woodland. Associated species: Acacia pulchella, Pimelea ciliata, Darwinia citriodora, Grevillea manglesii sp., G. bipinnatifida, Zamia, Hovea pungens, Daviesia horrida, Hakea cristata, Calothamnus sp.		Condition of population: healthy/moderate/ poor.	21/10/1999
7185308	6946	Anthocercis gracilis	T		Outcrop, slope, gully with granite sheet and boulders, granitic sand and dry brown loam. Burnt in summer of 2004/2005.	Scattered marri with Hakea crystata, Xanthorrhoea preissi, Acacia pulchella, Diplopeltis huegelii, Grevillea manglesii, Goodenia fasciculata and Hibbertia hypericoides. Massive infestation of Watsonia weeds.	30 mature plants over 10 m NS x 5 m EW.		29/08/2005

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9689222	6946	Anthocercis gracilis	T	Slender, multi-branched, low spreading shrub to 45 cm high, 80 cm wide. Cream-green and purple, pendulous flowers.	South facing gentle slope leading to Jane Brook with small granite outcrops.	Open Eucalyptus wandoo and Eucalyptus marginata woodland over Trymalium odoratissimum, Xanthorrhoea preissii, Hibbertia hypericoides shrubland.		Last burnt in October 2018 prescribed burn (ca. 4.5 YSLF).	7/07/2023
8738378	6946	Anthocercis gracilis	T	Slender, inconspicuous, intricately branched shrub. Fairly short-lived, growing and flourishing after fire. Flowers delicate hanging yellow bells.	Granitic loam, among granite boulders.	Under Rock Sheoak, with Balga, Warrine, Zamia and Forest Rice-grass.		Flowers in spring. Fire response - seeder.	23/09/1995
493376	7849	Asteridea gracilis	3		Rocky.				26/09/1977
9487999	50979	Austrostipa bronweniae	T	Clumped perennial grass to 0.8 m.	Seasonally inundated dampland, flat with sandy clay soil.	Very Open to Closed Tall Heath of Viminaria juncea, Melaleuca acutifolia, M. osullivanii, M. viminea, Callitris pyramidalis, Banksia telmatiaea, Grevillea thelemanniana subsp. thelemanniana, Hypocalymma angustifolium, Acacia lasiocarpa over Very Open to	278 mature and 1 juvenile.	Some plants occur on a walk track. Plants were in poor to moderate condition, looking very brown and dry (natural over-summer senescence?). The population is within a known Muchea Limestone TEC.	9/01/2015

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8133077	50979	Austrostipa bronweniae	T	Perennial grass, 0.6 m high x 0.3 m wide. Flowers green. Reproductive method: seeds, caespitose.	Wetland. Seasonally waterlogged muddy sand. Burnt ca 3 years ago.	Low trees. With Gahnia trifida, Actinostrobus pyramidalis, Grevillea thelemanniana, Melaleuca viminea subsp. viminea.		Aliens <5% cover. Other alien species: few (1-3). Population structure: immature seedlings and mature plants, 100% flowering. Two other small populations next door at Lot 28 Brook Road.	18/09/2009
8133069	50979	Austrostipa bronweniae	T	Perennial grass, 0.6 m high x 0.3 m wide. Flowers green. Reproductive method: seeds, caespitose.	Wetland. Seasonally waterlogged muddy sand. Burnt ca 3 years ago.	Low trees. With Gahnia trifida, Actinostrobus pyramidalis, Grevillea thelemanniana, Melaleuca viminea subsp. viminea.		Aliens <5% cover. Other alien species: few (1-3). Population structure: immature seedlings and mature plants, 100% flowering. Two other small populations next door at Lot 28 Brook Road.	18/09/2009
8816484	50979	Austrostipa bronweniae	T	Clumping, perennial grass. 0.6 m (in spike to 1.1.m) x to 0.5 m wide.	Dampland. Dry at time of collection. Seasonally wet. Brown to grey sandy clay.	Callitris pyramidalis and Viminaria juncea Tall Open Shrubland over Hypocalymma angustifolium, Grevillea thelemanniana var. thelemanniana, Acacia lasiocarpa, Boronia crenulata, Open Low Heath and Sedgeland/Herbland dominated by Chaetanthus aristatus, Cen	188 mature clumps and 45 juveniles.	Some clumps were in dense heath on the dampland and others were in relatively open sections.	29/10/2013
2474123	32211	Banksia mimica	T	Prostrate dwarf shrub to 15 cm.	In grey sand on slight rise next to flat.	Recently burnt. In heath with emergent Kingia australis, Nuytsia floribunda, Adenanthos cygnorum, Banksia menziesii, Dryandra nivea.		Abundance: occasional	21/03/1990
2474115	32211	Banksia mimica	T	Prostrate dwarf shrub to 25 cm high.	White sand on flat ground.	In very open woodland with heath understory. Banksia attenuata, B. menziesii, Adenanthos cygnorum, Nuytsia floribunda, Casuarina fraseriana, Xanthorrhoea.		Abundance: 20 plants.	4/04/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9327169	32211	Banksia mimica	T	Prostrate, spreading lignotuberous shrub to 25 cm with yellow flowers.	Flat, grey sand.	Mid sparse shrubland of Allocasuarina humilis and Lambertia multiflora var. darlingensis over low sparse shrubland of Eremaea pauciflora var. pauciflora over mid sparse sedgeland of Cyathochaeta equitans.	4 plants at this location.		18/12/2019
9704744	32211	Banksia mimica	T	Rhizomatous, clumping shrub to 0.40 m high. Upright entire, toothed leaves up to 8 mm wide and yellow/brown flowers at ground level.	Flat palusplain, grey sand.	Occasional Eucalyptus patens and Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Kingia australis, Eremaea pauciflora, Jacksonia floribunda, Banksia nivea, Bossiaea eriocarpa, Stirlingia latifolia, P	5 plants.	Plant 1. Flower collection taken from Population 15A. Partial survey.	23/01/2024
9704736	32211	Banksia mimica	T	Rhizomatous, clumping shrub to 0.40 m high. Upright entire, toothed leaves up to 8 mm wide and yellow/brown flowers at ground level.	Flat palusplain, grey sand.	Occasional Eucalyptus patens and Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Kingia australis, Eremaea pauciflora, Jacksonia floribunda, Banksia nivea, Bossiaea eriocarpa, Stirlingia latifolia, P	5 plants.	Plant 2. Flower collection taken from Population 15A. Partial survey.	23/01/2024
4634861	32138	Banksia pteridifolia subsp. vernalis	3						26/09/1989
3358666	32138	Banksia pteridifolia subsp. vernalis	3	Prostrate shrub 40 cm tall x 50 cm wide. New growth pink/brown. No buds, flowers or fruits.	Flat, sandy soils over loamy sands 0.4 m deep.		one group of 5 plants near Casuarina Road.		27/10/1992
3358674	32138	Banksia pteridifolia subsp. vernalis	3	Prostrate shrub to 0.4 m tall by 0.8 m wide.	Flat, grey sand.	Jarrah/Banksia over mixed heath natives.			14/01/1993
6166857	32138	Banksia pteridifolia subsp. vernalis	3		Flat. Dry grey sand. Previously a bridle trail.	Banksia attenuata - Eucalyptus marginata woodland. Lambertia multiflora subsp. darlingensis, Isopogon drummondii, Conospermum undulatum, Hakea ruscifolia, Hypolaena exsulca.	ca 10 plants.		8/08/1998
6038328	32138	Banksia pteridifolia subsp. vernalis	3	Stems underground, resprouting after fire; leaves somewhat glaucous when young; perianth and style pale gold.	On sandy flat.	With low shrubs and occasional Casuarina fraseriana and Eucalyptus marginata.			18/08/1998

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6038336	32138	Banksia pteridifolia subsp. vernalis	3	Stems underground, resprouting after fire; leaves somewhat glaucous when young; perianth and style pale gold.	On sandy flat.	With low shrubs and occasional Casuarina fraseriana and Eucalyptus marginata.			18/08/1998
2290235	5390	Beaufortia purpurea	3						/12/1900
2290278	5390	Beaufortia purpurea	3						6/11/1958
2290200	5390	Beaufortia purpurea	3						6/11/1958
2290499	5390	Beaufortia purpurea	3						21/11/1949
2290227	5390	Beaufortia purpurea	3						28/11/1903
2290219	5390	Beaufortia purpurea	3						10/01/1954
2290480	5390	Beaufortia purpurea	3		Subseral (granite) area.				26/09/1931
2290464	5390	Beaufortia purpurea	3						//
2290324	5390	Beaufortia purpurea	3						/12/1898
2290308	5390	Beaufortia purpurea	3						6/11/1958
2290383	5390	Beaufortia purpurea	3	8 inches high.	In gravel-clay.				24/01/1965
2290189	5390	Beaufortia purpurea	3						11/10/1906
2290391	5390	Beaufortia purpurea	3						/10/1923
2290448	5390	Beaufortia purpurea	3						/12/1933
2290286	5390	Beaufortia purpurea	3	Flowers purpureis.					/12/1923
2290332	5390	Beaufortia purpurea	3		On scarp face, among rocks and gravel.				27/10/1964
2290251	5390	Beaufortia purpurea	3						21/11/1961
1749943	5390	Beaufortia purpurea	3	Height 2 ft to 3 ft. Flowers scarlet.	Granite.	Heath.			12/11/1977
2239841	5390	Beaufortia purpurea	3						8/12/1990
2290405	5390	Beaufortia purpurea	3	Low shrub of spreading habit, flowers rich ruby red.	On laterite of roadside banks.	In Jarrah-Marri forest.			17/12/1971
2290375	5390	Beaufortia purpurea	3						23/12/1903
5102871	5390	Beaufortia purpurea	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.			19/09/1996
3369706	5390	Beaufortia purpurea	3	Dense low shrub, to 1.5 m. Flowers carmine red - purple. In full flower.	Gentle slope. Lateritic sandy clay over laterite.	Eucalyptus wandoo low open woodland over heath.			6/11/1990
9049355	5390	Beaufortia purpurea	3	Shrub.	White/yellow clay.	Open Low Woodland A (marri, wandoo) over Dense Thicket.			13/12/1983

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9049436	5390	Beaufortia purpurea	3	Shrub to 1.5 m.	Clay among granite. Road verge.	Heath B.	200+ plants.		3/11/1982
9033904	48689	Bolboschoenus fluviatilis	1	Perennial sedge, 1.7 m high.	Littoral zone, Swan River. Wet dark brown silt.	Flooded gum open woodland. Characteristic species: Melaleuca rhaphiophylla and Typha orientalis.	dense stand.		13/03/2018
8210187	48689	Bolboschoenus fluviatilis	1	Perennial herb 2.0 m high x 0.6 m wide. Brown flowers.	Flood plain. Collection site: reserve.	Tall trees. With Eucalyptus rudis, Juncus pallidus, Baumea articulata.	over 50 plants. Area: 101-1000 m squared.	Population structure: 70% flowering.	20/11/2008
2434393	48689	Bolboschoenus fluviatilis	1		On bank of river in mud.				20/01/1954
8210179	48689	Bolboschoenus fluviatilis	1	Perennial erect rhizomatous herb 2.0 m high x 0.6 m wide. Brown flowers.	Hillside/seep. Grey wet sand. Collection site: reserve.	Tall trees. With Lantana sp., Eucalyptus rudis.	6-20 plants. Area: 1-10 m squared.		20/11/2008
6255930	16618	Boronia humifusa	1	Small open spreading shrub to 0.15 m high. Multi-branching from base with viscid leaves and pink flowers.	Dry hilltop laterite with surface boulders.	Jarrah and Marri open woodland with Dryandra sessilis, D. lindleyana, Grevillea wilsonii.	scattered ca 20 plants.		17/07/2002
9497382	3178	Byblis gigantea	T	Insectivous [insectivorous] plant, large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils, on winter wet swamp flat.	Between low shrubs and heathland.			28/12/1996
7577869	3178	Byblis gigantea	T	Erect plant, multi-branching from the base, to c. 25 cm high. Blue/purple flowers.	Flat. Dry grey/brown sand.	Scattered Eucalyptus todtiana and Nuytsia floribunda with Kingia australis, Stirlingia latifolia, Verticordia densiflora, sedges.	2 plants.		7/12/2006
1487663	3178	Byblis gigantea	T		Sandy places.				3/11/1901
1488678	3178	Byblis gigantea	T						/12/1901
6439810	3178	Byblis gigantea	T	Insectivous plant. Large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils.	Low shrubs on winter wet swamp flat heathland.			28/12/1996
6439829	3178	Byblis gigantea	T	Insectivous plant. Large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils.	Low shrubs on winter wet swamp flat heathland.			11/12/2001
6512437	3178	Byblis gigantea	T	Erect perennial herb; flowers purple.	Palusplain; grey sand over ? clay.	Shrubland.	very common, fire the year before.		7/12/1994

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1488686	3178	Byblis gigantea	T	Perennial 18 in. high, nearly finished flowering; flowers pale pink.	In grey swampy sand.				23/01/1972
1488139	3178	Byblis gigantea	T	Flowers purplish pink.				Checked in W.E. Blackall's collecting book. - M.A. Lewington 06.05.2016. Not recorded.	/01/1939
9260013	3178	Byblis gigantea	T	Fls. violet.		Low scrubby swampy heath. Assoc. taxa: Lembertia [Lambertia].			23/10/1967
6053297	1596	Caladenia huegelii	T	Orchid 0.6 m high x 0.1 m wide.	Plain. Organic litter, grey sand over sand.	Low Forest A. Banksia menziesii, B. attenuata.	occasional.		4/09/2000
9312358	51048	Calandrinia sp. Bayswater (C. Andrews s.n. 11/1902)	1						/11/1902
2326221	5396	Calothamnus accedens	4	Height to 3 ft. Flowers scarlet-crimson.		Open wandoo forest.			28/11/1978
8110514	5396	Calothamnus accedens	4				rare.		/11/1977
8155089	5396	Calothamnus accedens	4	Shrub to 1 m, with lignotuber.	In gravelly clay.	In Marri - Wandoo woodland.			21/11/2006
1163183	13653	Calytrix breviseta subsp. breviseta	T	Flowers purple-blue.	Swampy clay flats.				5/10/1901
1163175	13653	Calytrix breviseta subsp. breviseta	T		Swampy ground.				/10/1901
3119033	13653	Calytrix breviseta subsp. breviseta	T		Swampy ground.				5/10/1901
8436975	13653	Calytrix breviseta subsp. breviseta	T	Spreading low shrub 0.2-0.4 m high x 0.2-0.6 m wide. Purple-blue flowers. Small angular leaves to 6 mm. Twiggy shrubs.	Edge of seasonal clay base open depression. Moist, grey-brown sand to fine sandy loam over clay.	Tall Open shrubland of Callitris pyramidalus, Viminaria juncea and Melaleuca acutifolia over Open Heath of Hypocalymma angustifolia and Acacia lasiocarpa over Open Sedgeland of Schoenus rigens, Chaetanthus aristatus over Herbland of Centrolepis aristata,	4 plants.		13/09/2012
2074516	759	Carex tereticaulis	3						/10/1903
5392977	759	Carex tereticaulis	3	Grass like herb 1 m high x 0.1 m wide.	Watercourse, wet. Organic litter. Grey Bassendean Sand over sand.	Dense Forest. Eucalyptus rudis, Melaleuca rhaphiophylla.	occasional.		17/05/1999

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9553371	51734	Commersonia sp. Lesmurdie (A.A. Mitchell 11429)	2	Semi scrambling shrub with white flowers growing up to 1.3 m tall.	Sloping seepage with brown cracking clay soil on basalt sill.	Melaleuca woodland with an understorey of 3 m tall tussocking sedges.	infrequent.		13/11/2022
9553339	51734	Commersonia sp. Lesmurdie (A.A. Mitchell 11429)	2	Erect shrub to 1.5 m tall. Flowers whitish/cream calyx and petals. Early fruiting.	On a hillside of brown cracking clay soil on a basalt sill/dyke.	Occurs in tall Melaleuca woodland with 3 m tall tussocking sedges and Lasiopetalum bracteatum.			/12/2023
2159597	13999	Conospermum undulatum	T	Shrub to 2 m. Leaf margins undulate. Inflorescences emergent above branches.	Low rise, grey sand.	In Banksia open low woodland A over Low scrub A and Low heath D.			24/10/1990
2159627	13999	Conospermum undulatum	T		Clayey sand over gravel.	Open woodland of Eucalyptus marginata, E. calophylla over open low scrub A of Hakea sp., over dense low heath c.		Abundance: 500 + plants.	/09/1990
2159570	13999	Conospermum undulatum	T	Erect shrub. Several plants with less undulate leaves intermixed with norma; undulate type.	Grey sand over yellow sand.	Dense low heat C of Pericalymma ellipticum.			12/11/1990
1409395	13999	Conospermum undulatum	T	Small compact shrub to 1.5 m.					20/10/1977
3136973	13999	Conospermum undulatum	T	1.00 m height.	Grey sandy soils, bottom of Darling Scarp.	0.5 -1.0 m open heathland not burnt. Banksia sp.		Abundance: frequent.	25/08/1993
1409379	13999	Conospermum undulatum	T						/06/1901
2159619	13999	Conospermum undulatum	T		Yellow-orange clayey sand over gravel.	With Banksia menziesii, B. attenuata, Eucalyptus marginata, Isopogon drummondii, Hakea conchifolia.		Abundance: 50 + plant in flower.	6/10/1990
2159783	13999	Conospermum undulatum	T		Yellow sand over laterite.	With Allocasuarina fraserina, A. humilis, Eucalyptus marginata, Banksia grandis, B. menziesii, Lambertia multiflora, Hakea conchifolia, Isopogon drummondii, B. incana.		Abundance: 50 plants	6/10/1990
1409387	13999	Conospermum undulatum	T	Multistemmed shrub, 4 ft tall.	On gravel at base of scarp.				/08/1971
2159732	13999	Conospermum undulatum	T		Yellow-grey sand, flat.	Banksia attenuata - B. menziesii Low Woodland A over open Low Scrub B.		Abundance: 400 + plants	14/10/1990
4612698	13999	Conospermum undulatum	T						20/10/1992

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2160013	13999	Conospermum undulatum	T	Narrow, erect shrub. Leaves distinctly undulate. Inflorescences emergent above branches.	Grey-white sand over laterite. Flat to gradual slope.	Banksia attenuata, B. menziesii Low Woodland over dwarf scrub and low heath.		Abundance: c. 1000-1500 plants	19/10/1990
5314054	13999	Conospermum undulatum	T	Sprawling shrub 1 m tall.	Low plain/swamp. White-grey sand. Bassendean-Southern River complex. Seasonal dampland. Probably burnt within last 5 years.	Heath B/Open low sedges/Open herbs with Melaleuca preissiana, Stirlingia latifolia, Anigozanthos manglesii, A. viridis, Mesomelaena tetragona, Dasypogon bromeliifolius.	1 plant.		21/01/1999
2159589	13999	Conospermum undulatum	T		Yellow sand over laterite.	Open low woodland of Allocasuaring fraserina and Eucalyptus marginata over dense low heath C of Lambertia multiflora with some Banksia incana.		Abundance: 800 + plants	6/10/1990
2159643	13999	Conospermum undulatum	T		Grey sand over yellow sand.	Open low woodland of Allocasuarina fraseriana, Banksia attenuata over heath B over low heath C. Lambertia multiflora, Hakea conchifolia, Adenanthos cygnorum, Isopogon drummondii.		Abundance: 50 + flowering plants	14/10/1990
2159694	13999	Conospermum undulatum	T		White-grey sand over yellow sand.	Low woodland A over dense low heath C. With Banksia menziesii, B. attenuata, Eucalyptus todtiana, Lambertia multiflora, Isopogon drummondii, Eremaea paucilfora.		Abundance: 500 + plants in flower.	6/10/1990
2159651	13999	Conospermum undulatum	T		Yellow clayey sand over gravel.	Surrounded by dense low heath.		Abundance: 50 + plants	14/10/1990
2159724	13999	Conospermum undulatum	T		Sand and gravel, flat.	In Banksia - Eucalyptus low forest B over open low scrub A over dense low heath C. Lambertia multiflora and Isopogon drummondii.		Abundance: 100 + plants	7/10/1990
2159791	13999	Conospermum undulatum	T	Shrub to 0.75 m, leaves undulate. Inflorescences erect above braches. Full flower.	Grey sand, flat.	Regenerating Eucalyptus marginata, Banksia menziesii, B. attenuata woodland over heath B.		Abundance: 50-60 plants	7/11/1990
2159678	13999	Conospermum undulatum	T		Grey sand.	In low forest A over low heath C. Associated species, Banksia menziesiim Eucalyptus marginata, Allocasuarina fraseriana, Lambertia multiflora, Isopogon drummondii.		Abundance: 15 flowering plants.	7/10/1990
2159600	13999	Conospermum undulatum	T		Flat, sand with gravel.	Low forest A of Banksia attenuata, B. menziesii and Allocasuarina fraseriana. In association with Lambertia multiflora and Isopogon drummondii.			12/11/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2159635	13999	Conospermum undulatum	T		Flat land on orange-yellow clayey sand over laterite.	In open low woodland of Eucalyptus marginata, E. calophylla over dense low heath.		Abundance: 2000 + plants.	/09/1990
1814214	13999	Conospermum undulatum	T	Erect woody shrub, to 1.5 m. Flowers white-grey, in full flower.	Deep yellow sand.	Low open Banksia woodland.			15/09/1984
2160005	13999	Conospermum undulatum	T	Erect shrub, leaves with undulate margins. Inflorescences emergent above branches.	Brown-grey sand, flat to gentle slope.	Banksia attenauta, B. menziesii low forest over low heath.			12/11/1990
1409298	13999	Conospermum undulatum	T	"Smoke Bush".				"Smoke Bush".	11/10/1918
2161478	13999	Conospermum undulatum	T	Low shrub to 0.6 m. Leaves onl slightly undulate.	Low lying flat, brown sand.	Regenerating Pericalymma ellipticum Dense Heath A.		Abundance: 2 plants	7/11/1990
1409344	13999	Conospermum undulatum	T		On sand.	Jarrah-sheoak association.			22/08/1961
5057493	13999	Conospermum undulatum	T		Red gravelly clay, with lateritic gravel, on a gentle northern lower slope.	Eucalyptus marginata, E. calophylla Open Low Woodland, over Hakea lissocarpha, Acacia pulchella, Xanthorrhoea preissii Dense Low Heath, over Conostylis setigera, Mesomelaena tetragona Open Tall Sedges.			20/09/1996
5299535	13999	Conospermum undulatum	T		NNW aspect. Slope. Dry yellow/grey sand.	(Muir's) Jarrah, marri and Allocasuarina fraseriana woodland. Hakea trifurcata, H. conchifolia, H. ruscifolia, H. lissocarpha, H. stenocarpa, Isopogon dubius, I. drummondii, Xanthorrhoea preissii, X. gracilis, Lambertia multiflorus, Hibbertia hypericoide			23/09/1998
5299527	13999	Conospermum undulatum	T		N-W aspect. Slope. Dry brown/yellow/grey sand/loam/clay/gravel.	(Muir's) Jarrah, Marri open woodland. Xanthorrhoea preissii, X. gracilis, Acacia pulchella, Dryandra lindleyana, Hakea ruscifolia, H. undulata, H. lissocarpha, Zamia, Hibbertia hypericoides, Daviesia decurrens, Leschenaultia biloba, Sedge sp., Hypocalymm			23/09/1998
6393799	13999	Conospermum undulatum	T						20/10/1992
6393802	13999	Conospermum undulatum	T						20/10/1992
4072324	13999	Conospermum undulatum	T	Shrub to 1.5 m, seed.	Light grey sandy soil, slight rise.	Banksia woodland, closed understory, not burnt.		Locally common.	14/12/1994

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6936768	13999	Conospermum undulatum	T	Perennial, spreading, open shrub, 1 m x 1 m, with white flowers.	Gentle slope at foot of Darling Scarp in reserve which was once a gravel pit, on lateritic gravel. Burnt March 2004.	Regrowth open Jarrah-Marri woodland with Hakea trifurcata, Xanthorrhoea preissii, Calothamnus sanguineus, Hibbertia hypericoides and fringing Dryandra sessilis thicket.	several plants in one area only.	Leaves only collected. Older plants are just beyond the limit of the fire but there seem to be regrowths in burnt area.	31/10/2004
2159759	13999	Conospermum undulatum	T		Grey sand over yellow sand.	Low woodland A of Eucalyptus marginata, Allocasuarina fraserina, Banksia menziesii, over open low scrub of Lambertia multiflora with Isopogon drummondii over dense low heath C		Abundance: 100 + plants in flower.	14/10/1990
2159686	13999	Conospermum undulatum	T		Grey sand over yellow sand.	Low woodland A (Banksia menziesii, Eucalyptus marginata, Allo- casuarina fraseriana over dense low heath.	300+ plants in flower.		14/10/1990
1409360	13999	Conospermum undulatum	T	Shrub 1 - 1.5 m high with grey flowers.	Sandy soil. Melaleauca flats often swampy.	Restionaceae, Cyperaceae, Acacia, Hakea, etc occurring.			6/09/1976
1409336	13999	Conospermum undulatum	T	Erect shrub 1 m. Flowers grey.					5/10/1978
1409328	13999	Conospermum undulatum	T	Shrub 1 - 1.5 m high with greyish flowers.	White sandy soils.	Among tall Banksias, with Gompholobium, Hibbertia, Acacia, etc.			6/09/1976
2159740	13999	Conospermum undulatum	T		Yellow clayey sand over gravel.	Low Woodland A of Eucalyptus marginata and E. calophylla over heath B of Lambertia multiflora over low heath C.		Abundance: Less than 10 flowering plants.	14/10/1990
2161451	13999	Conospermum undulatum	T		Grey sand over laterite, flat.	Open low woodland A of Eucalyptus marginata, E. calophylla, Banksia menziesii and B. attenuata over dense heath B.		Abundance: 100-150 plants.	23/04/1990
4219309	13999	Conospermum undulatum	T	Erect shrub to 1.5 m.	Grey sand.	Open woodland, Eucalyptus marginata, Banksia attenuata, Banksia menziesii, Stirlingia latifolia, Hibbertia hypericoides.		Abundance: c. 50 plants	8/11/1994
4221419	13999	Conospermum undulatum	T	Shrub to 1.5 m. Flowers smokey-white, in full flower.	Yellow sand, colluvial.	Banksia menziesii/attenuata low forest.	scattered in area.		20/08/1991
5132525	13999	Conospermum undulatum	T	Woody, open, few stemmed shrub to 1m high, perianth segments black, leaves basal.	On small unfenced suburban block. Grey sandy soil.	With Eucalyptus marginata and shrub understorey including Casuarina, Lambertia, Dasypogon, Hibbertia spp.			3/10/1996

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6797083	13999	Conospermum undulatum	T		Small rise at base of Darling Scarp. Dry, yellow-grey sand.	Woodland over shrubland. Associated species: Alexgeorgea nitens, Daviesia nudiflora, Dryandra lindleyana, Pityrodia bartlingii, Hakea ruscifolia, Hibbertia hypericoides, Jarrah, Marri, Bossiaea eriocarpa.	177 mature plants in area 165 x 30 m.	Condition of population: healthy.	9/03/2005
7892853	13999	Conospermum undulatum	T	Straggling, multi-stemmed shrub to 1.4 m; leaves crowded at ends of bare branches. Inflorescences and flowers white-woolly, the perianth black inside.	Sandplain - Bassendean Sand.	Jarrah-Marri-Banksia attenuata-Adenanthos cygnorum heathy woodland.	frequent but localised.		11/08/2007
7274459	13999	Conospermum undulatum	T	Multi-stemmed erect shrub 1-1.5 m high. Flowers silvery-white; in flower.	Edges of and shallow sandy rises. Grey sand over clay.	Disturbed ? Banksia low woodland.	only 2-5 plants in area.		15/10/2005
6234747	13999	Conospermum undulatum	T	Erect shrub.	Plain. Grey sand.		scattered with a range of maturity. 37 plants including 4 very small ones.	Plants in very healthy habitat.	7/10/2003
6234755	13999	Conospermum undulatum	T	Erect shrub. Plants flowering but many have lost buds.	Watercourse. Grey sand.		locally common.		7/10/2003
6723624	13999	Conospermum undulatum	T		Sandy soil. Not burnt.	Banksia woodland.			//
6723632	13999	Conospermum undulatum	T			Burnt and regenerating.			//
6723705	13999	Conospermum undulatum	T			Regrowth.			//
6723713	13999	Conospermum undulatum	T						//
6112919	13999	Conospermum undulatum	T	Shrub to 1.5 m tall. Undulate leaves.	Flat. White sand.	Banksia woodland. Associated species: Allocasuarina huegeliana, A. fraseri, Banksia attenuata, Hibbertia sp., Daviesia sp., Adenanthos sp., Lambertia multiflora var. darlingensis.	100+.		1/11/2001

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5586712	13999	Conospermum undulatum	T		Low lying plain, swamp-like in winter. Moist white-grey sand-clay over laterite. Plants begin ca 500 m N of Tonkin Highway intersection along road verge and into private property behind verge into bush.	Associated vegetation: Eucalyptus todtiana, Melaleuca, Allocasuarina, Banksia.		Condition of population: moderate.	14/01/1999
5815762	13999	Conospermum undulatum	T		Flat. Dry grey sand.	Associated species: Banksia sp., Allocasuarina humilis, sedges, Daviesia sp., Dryandra lindleyana, Xanthorrhoea preissii.		Condition of population: healthy.	9/04/2001
6511473	13999	Conospermum undulatum	T	Flowers white.	Dune Ridge; flat ground. Brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.			10/11/1995
6950906	13999	Conospermum undulatum	T		Gently sloping dune with grey over yellow sand.	Woodland over shrubland with Allocasuarina fraseriana, Banksia attenuata, Banksia menziesii, Xanthorrhoea preissii, Dryandra lindleyana, Lambertia multiflora var. darlingensis, Isopogon drummondii, Caustis dioica, Hakea prostrata and Daviesia nudiflora.	39 mature plants over ca 300 m x 50 m in area.	Central population in very good condition, remainder in degraded condition with weeds.	27/01/2005
7193920	13999	Conospermum undulatum	T		Sand over laterite.	With Stirlingia latifolia, Allocasuarina fraseriana, Corymbia calophylla, Dryandra sessilis, Grevillea wilsonii, Hakea stenocarpa, Petrophile striata, Hibbertia hypericoides, Hypocalymma robustum, Philotheca spicata, Haemodorum paniculatum, Conostylis ca			9/09/2005
7373821	13999	Conospermum undulatum	T		Sand dune. Grey sand.	Open Banksia woodland with Eucalyptus marginata, Corymbia calophylla, Banksia attenuata, B. menziesii, B. grandis, Stirlingia latifolia.			26/11/2002
2159996	13999	Conospermum undulatum	T	Erect, narrow shrub 1.2 m high.	Grey sand over laterite on flat terrain.	Woodland and heath with Banksia attenuata, B. menziesii, Allo- casuarina fraseriana, Isopogon drummondii.	frequent-occasional.		23/04/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8134162	13999	Conospermum undulatum	T	Perennial shrub, 0.80 m high x 0.20 m wide. Flowers white.	Plain. Dry grey soil. Old soil disturbance.	Medium trees. With Banksia menziesii, Allocasuarina fraseriana, Xanthorrhoea preissii, Conostylis aculeata, Anigozanthos manglesii, Adenanthos cygnorum.	6-20 plants, 10 mature plants.	Population structure: adult, 100% in bud, 50% flowering. Other alien species: many (4 or more). Total weed cover: up to 25% of site.	24/07/2009
8863830	13999	Conospermum undulatum	T	Erect compact shrub, 0.8 m high with old flowering scapes, leaves narrowly linear to 10 mm wide, tapering to base, distinctly undulating leaf margins.	In grey sand on flat, well-drained site. Frequent slashing between bushland remnants.	Woodland of Eucalyptus marginata over Low Closed Forest of Banksia menziesii, Allocasuarina fraseriana, Agonis flexuosa (naturalised from planting) over Shrubland of Adenanthos cygnorum, Lambertia multiflora, Daviesia divaricata over Low Shrubland of All	2 plants only.		7/12/2016
7684088	13999	Conospermum undulatum	T		Slope. Brown sand.	Low Woodland of mixed species including Bossiaea eriocarpa, Banksia menziesii, Eucalyptus marginata over Open Low Heath of mixed species dominated by Eremaea pauciflora, Allocasuarina humilis, Xanthorrhoea preissii and Lambertia multiflora var. darlingen		Healthy population.	22/09/2004
7888198	13999	Conospermum undulatum	T	Shrub.	Flat. Grey sand.	Low woodland (Disturbed). Banksia attenuata, Banksia menziesii, Banksia ilicifolia, Hibbertia subvaginata, Dasypogon bromeliifolius, Melaleuca seriata, Lyginia barbata, Patersonia occidentalis.			21/08/2002
7888201	13999	Conospermum undulatum	T	Shrub.	Flat. Grey sand.	Woodland. Corymbia calophylla, Banksia attenuata, Banksia menziesii, Melaleuca preissiana, Xanthorrhoea preissii, Hypocalymma angustifolium, Adenanthos obovatus, Regelia ciliata, Jacksonia furcellata.			3/09/2002
7746903	13999	Conospermum undulatum	T	Erect shrub with grey-white flowers 120 cm high. Flowers grey/white.	Grey sand. + 3 years since fire. Disturbed.	Acacia pulchella var. pulchella, Stirlingia latifolia, Desmocladus flexuosus, Corymbia citriodora, Persoonia saccata, Synaphea gracillima, Banksia menziesii, B. attenuata, Chamaecytisus palmensis, Eucalyptus todtiana, Melaleuca sericata and Jacksonia flo	2-5 plants.		21/08/2002

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8863849	13999	Conospermum undulatum	T	Low compact shrub, 0.5 m high, with old flowering scapes, leaves linear/narrowly elliptic to 20 mm wide tapering to base, undulating margins.	In grey sand on flat, well-drained site. Frequent slashing between bushland remnants.	Disturbed small remnants of Open Woodland of Eucalyptus marginata, Banksia menziesii, Allocasuarina fraseriana over Shrubland of Daviesia divaricata, Xanthorrhoea preissii, Eremaea pauciflora, Hibbertia hypericoides and Very Open Sedgeland of Mesomelaena	1 plant only.		7/12/2016
9006184	13999	Conospermum undulatum	T	Shrub, 1.5 m high x 0.7 m wide. Old flowers.	Flat, with dry grey/brown sandy loam.	Degraded site. Open Jarrah woodland with Banksia sessilis understorey. Associated species: Allocasuarina fraseriana and Grevillea wilsonii.	one plant only.	Not the usual habitat for this species.	15/05/2018
6714595	13999	Conospermum undulatum	T		Slope. Dry brown sand, laterite.	(Muir's) Jarrah and Marri open woodland. Isopogon sp., Grevillea trifurcata, Jacksonia sp., Anigozanthos manglesii, Conostylis sp., Leucopogon pulchellus.	3 plants over 15 m x 15 m.		2/10/2003
950548	50708	Cyanothamnus tenuis	4		Red stony soil.				22/08/1953
950025	50708	Cyanothamnus tenuis	4					Collected in August, no year given.	//
950521	50708	Cyanothamnus tenuis	4						21/08/1954
950513	50708	Cyanothamnus tenuis	4		Wooded hillside.				28/09/1955
1180460	50708	Cyanothamnus tenuis	4	Very spindly and open small shrub to 0.3 m. Flowers pink.	On edge of brook. Slope.	With Eucalyptus overstorey and many introduced weeds - Watsonia etc.		Abundance: occasional.	23/09/1990
5846080	16245	Cyathochaeta teretifolia	3	Clumped rhizomatous herb 1 m high, 10 cm wide.	Tumulus Spring, black peaty sand.	Closed sedgeland ((adjacent). With Melaleuca preissiana, Agonis linearifolia, Astartea aff. fascicularis.		Plants in cleared track, regrowth from rhizome unburnt plants to 1.8 m by 0.5 m; occasional plants flowering.	18/09/1999
4096711	16245	Cyathochaeta teretifolia	3						6/12/1902
1030507	16245	Cyathochaeta teretifolia	3		Swamp.	Habitat of Gahnia.			/12/1901
2554658	7485	Dampiera triloba	3						/10/1900
2554631	7485	Dampiera triloba	3						06/12/1899

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9517618	5505	Darwinia apiculata	T	Low spreading woody shrubs, c. 0.6 m x 2 m surface area from above. c. 25 cm tall. Leaves linear and apiculate. 3-6 fl. per infl., bracts orange-red-brown-green. Inflorescence sideways to pendulous.	Corymbia woodland, leaf litter over lateritic gravel. Flat undulating landscape.	Corymbia calophylla canopy, Xanthorrhoea procera, X. gracilis, Hibbertia, Banksia sessilis, Conostylis, Burchardia, Acacia, Drosera pallida.	20-40 plants.	Darwinia phylogenomics 2022 sample ID: Dapi_2.	8/09/2022
5962803	5505	Darwinia apiculata	T	Sprawling herb, 5 cm high by 50 cm wide. Flowering; immature fruit.	Gentle slope. Organic litter over brown/yellow clay. Underlying rock granite.	Forest over Open Low Woodland A with Dense Thicket. Characteristic species: Eucalyptus calophylla, E. marginata, Xanthorrhoea preissii and Darwinia citriodora.	common.		10/11/1999
5962811	5505	Darwinia apiculata	T	Sprawling herb, 5 cm high by 50 cm wide. Flowering; immature fruit.	Gentle slope. Organic litter over brown/yellow clay. Underlying rock granite.	Forest over Open Low Woodland A with Dense Thicket. Characteristic species: Eucalyptus calophylla, E. marginata, Xanthorrhoea preissii and Darwinia citriodora.	common.		10/11/1999
7439849	5505	Darwinia apiculata	T		Private land. Hilltop of moist concretionary gravel and laterite.	Open low woodland with associated vegetation: Marri - Jarrah, Dryandra sessilis, Dryandra sp., Conostylis sp, Hardenbergia comptoniana, numerous Orchiaceae spp.	160 mature plants 6 seedlings and 2 dead in area 0.28 acres.	Healthy population with a range of ages. General vegetation in excellent condition. Difficult in many areas to ascertain exactly how many plants are in the larger clumps.	25/07/2006
8439176	5505	Darwinia apiculata	T	Densely branched, low, spreading shrub. 20 cm high x 80 cm wide.	Flat with laterite and brown loam.	Open Eucalyptus woodland, Eucalyptus marginata and Corymbia calophylla over Allocasuarina fraseriana, Banksia sessilis, Xanthorrhoea preissii shrubland. Many weedy and introduced species including Briza maxima, Ursinia anthemoides, Chamaecytisus palmensi	2 plants in a small pocket of 425 sq m.	Isolated from more extensive bushland and a large population by gravel tracks.	10/11/2011

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8397198	5505	Darwinia apiculata	T	Small compact shrub to 40 cm tall.	SE facing slope around granite boulders. Brown-grey sandy loam.	Dense Low heath to 0.5 m. Corymbia calophylla, Darwinia citriodora, Hakea sp., Hibbertia sp., Hypocalymma sp., Trymalium sp.	>100 plants.		9/12/2011
6796451	5505	Darwinia apiculata	T		Uncleared area.				17/10/1982
1026704	5523	Darwinia pimelioides	4						30/08/1930
3200892	5523	Darwinia pimelioides	4		Brown loam with granite boulders.	Open woodland of Eucalyptus calophylla and E. wandoo with open heath to 1 m, with Xanthorrhoea sp., Daviesia horrida, Trymalium ledifolium, Diplolaena sp., Phyllanthus calycinus, Sowerbaea laxiflora, Hakea cristata.		Estimated 50+ mature, in bud and flower, burnt autumn 1989.	17/09/1992
9517634	5523	Darwinia pimelioides	4	Low shrubs, 20 cm high, spreading to upright. Ovate leaves, margins curled down. Downturned inflorescences in bud, bracts light green flushing pink at base and midrib. 4 flowers per infl.	Decomposed granite, W of granitic outcroppings. Partial to full shade.	Open Corymbia woodland. Hibbertia, Cassuarina, Lechenaultia, Banksia.	ca. 25 plants.	Darwinia phylogenomics 2022 sample ID: Dpim_1.	9/09/2022
1026720	5523	Darwinia pimelioides	4						/12/1925
1027190	5523	Darwinia pimelioides	4	Flowers and bracts small; low sub-shrub 8" - 10" tall.	Red loam.				1/10/1960
1026712	5523	Darwinia pimelioides	4						//
1054333	5523	Darwinia pimelioides	4						17/09/1984
1026747	5523	Darwinia pimelioides	4	Small shrub; spreading 8" - 12" tall; bracts pale green, uniform in colour.					23/10/1959
1232533	5523	Darwinia pimelioides	4	Erect shrub to 0.4 m, outer bracts reddish, others green.	Undulating, brown loam over dolorite.	Woodland with E. wandoo, Blackboy, Trymalium.			10/09/1990
1026755	5523	Darwinia pimelioides	4	Low rounded shrub to ca 40 cm. Flowers green and pink.	Soil red brown loam amongst granite boulders. Steep slope, aspect WNW.	Open woodland of Euc. calophylla with scrub to 1.5 m beneath, with Hakea cristata, Calothamnus sp., Xanthorrhoea sp., Acacia pulchella, Trymalium ledfolium.	frequent.		8/10/1986

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5125308	5523	Darwinia pimelioides	4		Red-white gritty clay, with surface gravel, cobbels and granite boulders, on a steep south-eastern upper slope.	Hakea trifurcata, Calothamnus quadrifidus, Xanthorrhoea preissii Heath, over Trymalium ledifolium, Acacia pulchella Dwarf Scrub.			5/12/1996
5400341	5523	Darwinia pimelioides	4		Variable aspect. Slope/outcrop/ridge. Moist/dry red/brown/yellow loam/clay. Granite sheet/boulder.	(Muir's) Scattered marri and wandoo. Hakea undulata, H. trifurcata, H. erinacea, Microcorys longifolia, Acacia pulchella, Allocasuarina humilis, Grevillea pilulifera, G. bipinnatifida, Tetratheca sp. Granite, Hemigenia sericea, Petrophile biloba, Leucopo		Condition of population: healthy.	31/08/1999
5406226	5523	Darwinia pimelioides	4		W-N variable aspect. Slope/outcrop. Moist/dry red/brown loam/clay. Granite boulder.	(Muir's) Wandoo open woodland. Associated species: Acacia pulchella, Hibbertia subvaginata, H. hypericoides, Dryandra lindleyana, Hypocalymma angustifolium, Hakea lissocarpha, H. cristata, H. myrtoides, Synaphea pinnata, Xanthorrhoea preissii, Darwinia c		Condition of population: healthy/moderate.	29/09/1999
5113717	5523	Darwinia pimelioides	4		Red-white gritty clay, with surface gravel, cobbels and granite boulders, on a steep south-eastern upper slope.	Hakea trifurcata, Calothamnus quadrifidus, Xanthorrhoea preissii Heath, over Trymalium ledifolium, Acacia pulchella Dwarf Scrub.			13/09/1996
9357572	5523	Darwinia pimelioides	4	Low shrub to 30 cm. Green bracts around flowers which turn red with age.	N facing slope. Soil: red brown sandy loam with granite rocks.	Mid dense heath to 1.5 m. Associated species: Acacia pulchella, Eucalyptus wandoo, Gompholobium sp., Hakea sp., Hibbertia sp., Trymalium sp., Xanthorrhoea preissii.	100s of plants.		17/11/2020
1065793	5523	Darwinia pimelioides	4						5/10/1918
6796494	5523	Darwinia pimelioides	4	Involucres yellowish green and red.					5/10/1918
1026771	5523	Darwinia pimelioides	4	Low dense rounded shrub to ca 40 cm. Flowers green and pink/maroon.	Soil red brown loam amongst granite boulders. Steep slope, aspect S.	Open Euc. calophylla woodland with scrub to 2 m beneath, with Grevillea endlicherana Trymalium ledifolium, Acacia pulchella, Pimelea sylvestris, Hakea cristata.		Frequent.	23/09/1986
9669264	4452	Diplolaena andrewsii	T	Shrub to 1 m.	W facing slope surrounding granite outcrop. Soil: brown sandy loam.	Eucalypt woodland with dense understorey.	>= 89 plants.		17/11/2023

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9689176	4452	Diplolaena andrewsii	T	Small shrub to 50 cm high and 30 cm wide.	Dolerite outcrop and slope with northern aspect.	Eucalyptus wandoo and Corymbia calophylla open woodland over Trymalium odoratissimum dense shrubland with Xanthorrhoea preissii, Macrozamia riedlei, Hakea lissocarpha, Bossiaea eriocarpa and Hibbertia hypericoides.			7/08/2023
9685731	4452	Diplolaena andrewsii	T	Erect shrub to 75 cm high and 50 cm wide.	Dolerite outcrop and slope with northern aspect.	Eucalyptus wandoo open woodland over Trymalium odoratissimum dense shrubland with Xanthorrhoea preissii, Hakea cristata, Macrozamia riedlei, Hovea pungens, Bossiaea eriocarpa and Hibbertia hypericoides.			7/08/2023
1070517	4452	Diplolaena andrewsii	T						/10/1901
1070525	4452	Diplolaena andrewsii	T						/10/1901
8471916	4452	Diplolaena andrewsii	T	Small shrub 0.5 m high x 0.5 m wide. Old flowers.	Creekline. Brown loam, granite.	Riparian vegetation, Trymalium ledifolium.	8 plants.		1/12/2012
8514151	4452	Diplolaena andrewsii	T	Shrub to 1 m x 80 cm.	Brown sandy loam amongst granite outcrops. SW aspect.	Open Woodland over open shrubland. With Corymbia calophylla, Eucalyptus wandoo, Banksia spp., Trymalium spp., Drosera spp., Stylidium spp., Xanthorroeae sp.		New population in John Forrest National Park - POP 2G.	30/08/2013
912697	4452	Diplolaena andrewsii	T						/07/1963
3489973	4452	Diplolaena andrewsii	T	Upright shrub 1 m high.	S facing slopes. Brown loam over granite.				12/10/1992
1201263	4452	Diplolaena andrewsii	T		Hillside, around granite rocks, clay soil.	Wandoo woodland with Darwinia pimelioides.			22/11/1990
913138	4452	Diplolaena andrewsii	T	Shrub 2 - 3 ft high, flowers red.	Amongst granite rocks.				/09/1927
912689	4452	Diplolaena andrewsii	T	Shrub to 50 cm. Outer bracts green, inner paler with reddish tinge, stamens reddish-cream.	Red loam over granite.	Wandoo.			17/08/1964
7433913	4452	Diplolaena andrewsii	T		Slope outcrop. Dry brown loam clay with granite boulder.	Scattered Marri and wandoo. Associated vegetation: Hakea cristata, Hypocalymma angustifolium, Trymalium ledifolium, Acacia pulchella.	16 mature plants in an area 25 m x 25 m.	Healthy population, potential threat - weeds. Plants growing around the large granite boulders.	23/07/2006

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8099723	4452	Diplolaena andrewsii	T	Small shrub to 50 cm tall. Red flowers.	SE facing hillside. Red/brown loam over granite. Near granite outcrop.	Open Eucalyptus woodland with dense shrubs to 1 m. With Acacia sp., Eucalyptus wandoo, Hibbertia sp., Phyllanthus calycinus, Trymalium ledifolium, Trymalium odoratissimum.	50+.		14/11/2008
8118108	4452	Diplolaena andrewsii	T		Outcrop. Brown loam over boulders - granite.	Marri open woodland, Dense - open shrubs with Trymalium ledifolium, Acacia pulchella, Dioscorea hastifolia, Zamia, Grevillea manglesii, Xanthorrhoea preissii, bulbous weeds.	164 mature plants.		20/07/2008
8145970	4452	Diplolaena andrewsii	T	Small shrub to 50 cm tall. Red flowers.	SE facing hillside. Red/brown loam over granite.	Open Eucalypts woodland with dense shrubs to 1 m . With Acacia sp., Eucalyptus wandoo, Hibbertia sp., Phyllanthus calycinus, Trymalium ledifolium, Trymalium odoratissimum.	50+ plants.		4/09/2008
6714684	4452	Diplolaena andrewsii	T		Hilltop outcrop. Slope - flat. Dry, brown loam-clay over granite-boulder. Burnt in 1996-1997.	(Muir's) Marri and Wandoo open woodland. Trymalium ledifolium, Zamia, Acacia pulchella, Hakea cristata, H. lissocarpha, Xanthorrhoea preissii.	35 mature plants, 35 dead plants over 150 m E-W x 100 N-S.		4/09/2003
9016031	10796	Diuris drummondii	T		Swamp.				/12/1901
670049	31233	Drosera patens	1		From drying swamp flats.			PERTH 09546073 is also housed with this specimen.	/01/1966
9600140	13607	Drosera x badgerupii	2						28/01/1985
8816514	17150	Eremophila glabra subsp. chlorella	T	Shrub to 1 m high x ca 50 cm wide. Green-yellow flowers and small green round fruits in leaf axils.	In seasonally inundated Dampland in clay.	Melaleuca viminea and M. acutifolia Tall Open Scrub over Gahnia trifida and Juncus kraussii Very Open Sedgeland and weeds.	2 plants only.	Plants occur within a Conservation Category Wetland, BF site and TEC. Horses and land management have degraded majority of property.	24/10/2014
1277685	52779	Eryngium subdecumbens	3		Swamp.				18/12/1899
7316739	1984	Grevillea curviloba	T	Small upright shrub with curved leaflets, ripening warty fruit.	Dam at base of slope. Laterite, slope. Regrowth on excavated soil.	Eucalyptus marginata low woodland with mostly bare ground and regrowth of mixed shrub understorey.			25/11/2005

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5299551	50985	Grevillea dissectifolia	3		N aspect. Slope. Dry brown/yellow loam/clay.	(Muir's) Open marri woodland. Hakea trifurcata, H. undulata, H. erinacea, Acacia pulchella, Dryandra lindleyana, D. armata, Daviesia horrida, Petrophile biloba, Xanthorrhoea preissii, Grevillea pilulifera.			18/10/1998
5299578	50985	Grevillea dissectifolia	3		N aspect. Slope. Dry brown/yellow loam/clay.	(Muir's) Open marri woodland. Hakea trifurcata, H. undulata, H. erinacea, Acacia pulchella, Dryandra lindleyana, D. armata, Daviesia horrida, Petrophile biloba, Xanthorrhoea preissii, Grevillea pilulifera.			18/10/1998
6691625	50985	Grevillea dissectifolia	3		Landform: slope/outcrop. Rock type; granite. Rock form: boulder. Soil type: sand, loam and clay. Soil colour: brown/yellow. Soil condition: dry.	Vegetation classification: Scattered Marri. Associated species: Hakea trifurcata Hakea undulata, Hakea erinacea, Acacia pulchella, Dryandra armata, Dryandra lindleyana, Grevillea pilulifera, Xanthorrhoea preissii.	ca 3 mature plants.	Condition of population: healthy/moderate.	7/11/2003
1068687	13086	Grevillea pimeleoides	4						/08/1901
5208769	13086	Grevillea pimeleoides	4		Red-brown clayey loam, with dolerite cobbels and boulders, on a very steep south-eastern lower slope.	Eucalyptus laeliae, E. calophylla, E. wandoo Low Woodland, over Trymalium floribundum, Xanthorrhoea preissii Dense Heath, over Macrozamia reidlii, Phyllanthus calycinus Low Heath, over Loxocarya flexuosa Tall Sedges.			8/10/1996
9630198	2107	Grevillea thelemanniana	T	Spreading, shrub 2 m x 3 m to 0.5 m high.	Seasonal dampland, grey sandy clay.	Tall Shrubland of Melaleuca acutifolia over Open Heath of Hypocalymma angustifolium, Acacia lasiocarpa, Grevillea thelemanniana, Verticordia densiflora var. densiflora over Herbland of Centrolepis aristata, Burchardia bairdiae with Austrodanthonia setace	Approximately 165 plants in a 0.84 ha area.	Plants are mostly in two areas; within 15 m of and parallel to Boundary Rd and 15-65 m from Boundary Rd toward the centre of the block.	14/11/2014
9630112	2107	Grevillea thelemanniana	T	Spreading, shrub 2 m x 2 m to 1.5 m high.	Seasonal dampland, grey/brown clayey sand.	Tall Open Scrub of Callitris pyramidalis, Melaleuca viminea, M. osullivanii, M. brevifolia, M. acutifolia over Very Open Sedgeland of Gahnia trifida, Hypolaena exsulca and Juncus kraussii with high cover of Cassytha racemosa.	8 plants in a 0.3 ha area on the SW corner of the block.	Horses on Lot are impacting remnant vegetation.	24/10/2014

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2161567	2107	Grevillea thelemanniana	T	Dwarf shrub 30 cm to 100 cm high, with variable habit. Most plants low and prostrate. Foliage blue-green to yellow green.	In winter wet flat on grey sandy loam.	Associated with Actinostrobus pyramidalis, Banksia telmatiaea, Hypocalymma angustifolia, Calothamnus sp.			4/04/1990
2282895	2107	Grevillea thelemanniana	T	Low spreading bush with pinky-red flowers.	On sand.				22/05/1976
2161508	2107	Grevillea thelemanniana	T	Leaves simple or divided, light to mid-green, flowers red.	Sand and clayey sand, low lying flat.	Melaleuca bracteosa Heath A and mixed Low Heath C. Viminaria juncea, Banksia telmatiaea and Hypocalymma angustifolium association.			18/10/1990
5686938	2107	Grevillea thelemanniana	T	Low spreading shrubs 0.2-0.4 m in height. Flowers red.	Winter-wet, swampy area with yellow sand/grey clay soils.	Vegetation consisting of low Myrtaceous shrubs and Banksia, with frequent Actinostrobus pyramidalis, punctuated by open areas with small herbaceous ephemerals.	frequent.		25/09/1999
2161591	2107	Grevillea thelemanniana	T		Brown sandy clay, flat.	With Actinostrobus pyramidalis, Calothamnus hirsutus, Hypocalymma angustifolium, Verticordia plumosa and Melaleuca spp.			31/10/1990
6512631	2107	Grevillea thelemanniana	T	Spreading shrub to 0.3 by 0.7 m; flowers red.	Palusplain; grey clayey sand over clay.	Melaleuca leptoclada Tall Shrubland over Mixed Open Low Heath over Leptocarpus canus Sedgeland.	scattered in Low Heath Layer.		22/06/1995
8436959	2107	Grevillea thelemanniana	T	Widely spreading shrub 0.4-0.8 m high x 0.5-1.5 m wide. Red flowers and divided pinnatisect leaves.	Edge of a seasonal clay based open depression, on slightly deeper sandier soils. Moist grey-brown sandy loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus over Shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora over Very Open Sedgeland of Chaetanthus aristatus and Lepidosperma squam	69 plants.		13/09/2012
1044575	1469	Haemodorum loratum	3	Bracts and bracteoles greenish black, opaque, without conspicuous veining, the margins membranous, white. Outer perianth segments greenish black, glossy, inner segments black, dull, edged with orange. Plants at early flowering stage.	Eastern edge of coastal plain close to foot of Darling Scarp. Grey sand at surface changing to yellowish at about 10 cm deep.	Roadside strip of Jarrah (Eucalyptus marginata) and Banksia woodland with low shrub understorey.		Frequent but many plants vegetative.	19/11/1984

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
7684126	1469	Haemodorum loratum	3		Midslope. Brown sand.	Low Woodland of mixed species including Banksia menziesii, Eucalyptus marginata over Open Low Heath of mixed species dominated by Eremaea pauciflora, Allocasuarina humilis, Xanthorrhoea preissii and Lambertia multiflora var. darlingensis. Associated spec		Healthy population.	23/09/2004
6427634	1469	Haemodorum loratum	3	Annually renewed perennial herb.	Dune Ridge, flat ground, brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.			10/11/1995
1111620	6686	Halgania corymbosa	3	Flowers blue.					/11/1919
1111205	6686	Halgania corymbosa	3						5/10/1916
1111191	6686	Halgania corymbosa	3						5/10/1916
1111612	6686	Halgania corymbosa	3	1.5-2 ft high. Flowers deep blue-purple.	Granite.	Some trees very scarce.			16/10/1977
4896238	6233	Hydrocotyle lemnoides	4						8/10/1906
3401413	11074	Hydrocotyle striata	1						23/09/1901
4174976	11074	Hydrocotyle striata	1		Clay borders of a spring.				23/09/1901
4174968	11074	Hydrocotyle striata	1	Leaves to 3/4" diameter, 5-7 lobed, lobes cerate.					08/10/1898
3418715	49662	Isopogon autumnalis	3						17/05/1900
1023934	49662	Isopogon autumnalis	3	Erect multistemmed shrub, 40 x 50/60 cm wide, flowers pale yellow, largely past flowering.	Yellow sand.	Open Banksia woodland.	common in area.		10/06/1984
1023926	49662	Isopogon autumnalis	3						7/05/1900
1676024	49662	Isopogon autumnalis	3	Multistemmed erect shrub, to 70 cm. Flowers yellow, in late flower.	Yellow sand.	Banksia attenuata low open woodland.	locally common.		2/06/1991
4219295	49662	Isopogon autumnalis	3	Shrub to 0.6 m high.	Grey sand.	Open woodland, Eucalyptus marginata, Banksia attenuata, Banksia menziesii, Stirlingia latifolia, Hibbertia hypericoides.	ca 40 plants.		8/11/1994
2159856	49662	Isopogon autumnalis	3	Low shrub with terete, curved leaves.	Gentle slope, white sand.	Open low Banksia woodland.			15/11/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2159864	49662	Isopogon autumnalis	3	Low shrub with terete leaves and globular, terminal flower cones.	Flat and gentle slope. Brown grey sand.	Banksia attenuata, B. menziesii Low Forest A over Low Heath.			12/11/1990
2159821	49662	Isopogon autumnalis	3	Shrub 0.5-1 m high.	Grey brown sand with gravel. Flat.	Low forest A of Banksia attenuata, B. menziesii and Allocasuarina fraseriana.			12/11/1990
3418693	49662	Isopogon autumnalis	3	Flowers pale yellow.					/06/1900
3358259	49662	Isopogon autumnalis	3	Open shrub 1 m tall x 1 m wide.	Flat, grey sand over yellow loamy sand.	Jarrah/Banksia woodland.	uncommon in the undisturbed areas.		26/10/1992
2159848	49662	Isopogon autumnalis	3	Shrub to 1 m, leaves terete, glabrous. Flower cones terminal.	Foothills of the Darling Range, flat and gentle slope. Deep white sand.	Dense low heath and Low Banksia woodland.	1000 + plants.		15/11/1990
2159910	49662	Isopogon autumnalis	3		Grey sand over yellow sand, flat.	Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii Low Woodland A over open Low Scrub B. Lambertia multiflora and Conospermum undulatum associated.			14/10/1990
3418707	49662	Isopogon autumnalis	3						18/05/1939
2159929	49662	Isopogon autumnalis	3		Flat, sand.	Banksia menziesii Low Forest B over Open Low Scrub A and Dense low heath C. Lambertia multiflora, Conospermum undulatum and Banksia incana associated.	500 + plants.		7/10/1990
2159945	49662	Isopogon autumnalis	3		Flat, grey sand over yellow sand.	Open low woodland of Allocasuarina fraseriana, Banksia attenuata over Heath B and Low Heath C. Lambertia multiflora, Hakea conchifolia and Conopsermum undulatum.			13/10/1990
2159805	49662	Isopogon autumnalis	3	Erect shrub to 1 m high. Creamy yellow flowers.	On gentle slope in white-grey sand.	In woodland with Banksia attenuata, B. menziesii, Adenanthos cygnorum.	19 plants.		4/04/1990
3418723	49662	Isopogon autumnalis	3	To 3 ft, flowers pale yellow.	Sandy.	Banksia etc.			/03/1979
2159953	49662	Isopogon autumnalis	3	Erect shrub.	Grey sand on flat ground.	Open low woodland A over dense heath B with Banksia attenuata, B. menziesii, Eucalyptus marginata, E. calophylla.	300 + plants.		6/04/1990
5072468	49662	Isopogon autumnalis	3				several plants.		/05/1995

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2159961	49662	Isopogon autumnalis	3	Shrub with creamy-yellow flowers, 75 cm - 100 cm high.	Yellow-brown sand over laterite.	In open woodland with mixed heath understory. With Banksia attenuata, B. menziesii, Eucalyptus marginata, Hakea conchifolia, Allocasuarina humilis.	abundant.		4/04/1990
2159902	49662	Isopogon autumnalis	3	Erect shrub to 100 cm with creamy-yellow flowers and woolly grey fruiting cones.	In white-yellow sand over laterite on flat land.	Woodland with Banksia attenuata, B. menziesii, Casuarina fraseriana, Eucalyptus marginata.		Abundance: abundant	4/04/1990
2159813	49662	Isopogon autumnalis	3	Erect shrub to 1 m with creamy yellow flowers.	White yellow sand over laterite.	Very open woodland with dominant heath understory with Casuarina fraserina, Allocasuarina humilis, Lambertia multiflora, Hakea conchifolia.	40 plants.		11/04/1990
2159872	49662	Isopogon autumnalis	3	Shrub to c 1 m, leaves terete, pungent. Flowers terminal.	Grey sand over laterite. Flat to gradual slope.	Banksia attenuata, B. menziesii, low woodland A over heath with Hakea conchifolia, Conospermum undulatum.			19/10/1990
2159937	49662	Isopogon autumnalis	3		Flat, sand.	Banksia menziesii, Eucalyptus marginata and Allocasuarina fraseriana Low forest A over Low Heath C.	50 + plants.	Area partly burnt - 1 drummondii resprouting from lignotuber.	7/10/1990
2159880	49662	Isopogon autumnalis	3		Flat, grey sand over yellow sand.	Banksia menziesii, B. attenuata Low Woodland A over Open Low Scrub B and Low Heath C. Lambertia multiflora and Conospermum undulatum.	700 + plants.		13/10/1990
6427561	49662	Isopogon autumnalis	3	Upright single stem shrub, early fruit.	Dune Ridge, flat ground, brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.			10/11/1995
1416774	49662	Isopogon autumnalis	3		Flat. Brown/grey sand.	Open - scattered Jarrah/Cas. fraseriana/Nuytsia floribunda/Banksia attenuata, B. grandis & B. menziessii, Dryandra nivea, Adenanthos cygnorum, Mesomelaena tetragona.	86 plants seen.	This species appears definitely susceptible to dieback with 3 deaths evident in a small spot infection on site *	13/03/1991
5167221	49662	Isopogon autumnalis	3		N-NW, flat aspect. Slope. Dry, yellow-white-grey sand-clay.	Marri, Banksia woodland with Lambertia multiflora var. darlingensis, Allocasuarina humilis, Stirlingia latifolia, Dryandra lindleyana, D. sessilis, Jacksonia sp., sedge sp., Conospermum sp., Petrophile linearis, Lechenaultia biloba, Xanthorrhoea preissii			9/09/1998

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5815754	49662	Isopogon autumnalis	3		Flat. Dry grey sand.	(Muir's) Scattered Jarrah, Marri with Banksia sp. Associated species: Adenanthos cygnorum, Dryandra sessilis, D. lindleyana, Isopogon sp., Allocasuarina humilis, sedges, Jacksonia sp., Xanthorrhoea priessii.		Condition of population: healthy.	9/04/2001
6950914	49662	Isopogon autumnalis	3		Small gently sloping dune with yellow over grey sand.	Woodland over shrubland with Eucalyptus marginata, Allocasuarina fraseriana, Banksia attenuata, B. menziesii and Conospermum undulatum.	more than 10 mature plants over 200 m x 50 m in area.	Condition of population: Most of vegetation in good condition, remainder degraded with weeds.	27/01/2005
9137475	49662	Isopogon autumnalis	3	Low, open shrub to 1 m tall and 1.3 m wide.	Gentle W facing slope. Soil: white/grey sand.	Open Banksia woodland. Associated species: Daviesia sp., Eremaea sp., Scaevola sp., Petrophile sp., Allocasuarina sp., Acacia sp., Allocasuarina humilis, Banksia attenuata, Banksia menziesii, Stirlingia latifolia.	100's.		20/11/2018
8597510	49662	Isopogon autumnalis	3	Multistemmed shrub to 0.4 m high; flowers pale yellow.	Bassendean sandplain with influence from Darling Scarp.	Marri - Banksia woodland.	frequent.		27/04/2013
7636652	49662	Isopogon autumnalis	3	Small shrub to 1 m high with pointy leaves.	In yellow sand rise on Ridge Hill Shelf.	Occurs in Plot with Banksia menziesii, Allocasuarina fraseriana, A. humilis, Hakea ruscifolia, Pityrodia bartlingii, Stirlingia latifolia, Hibbertia hypericoides and Daviesia nudiflora.	occasional.		8/06/2006
9233067	49662	Isopogon autumnalis	3	Shrub 0.5 m high.	Sandy flat.	Jacksonia sternbergia, Hakea ruscifolia and Banksia armata.	5+ plants.		3/04/2019
9479880	20462	Jacksonia gracillima	3	Sprawling shrub to 0.8 m, orange flowers.	Flat sandplain.		50+ plants.		4/10/2017
9358897	20462	Jacksonia gracillima	3	Shrub to 50 cm with grey-green pungent branchlets and orange flowers. In early flower.	Winter-wet flat, grey-brown sandy loam.	Mid isolated clumps of shrubs of Hakea varia over low open shrubland of Pericalymma ellipticum var. floridum, Verticordia densiflora var. densiflora and Melaleuca seriata over low sparse forbland of Conostylis aculeata subsp. aculeata over tall sparse ru	a few plants seen.	Recorded in a 10 m x 10 m quadrat with 0.2% foliage cover.	15/10/2018
1914839	4027	Jacksonia sericea	4	3 ft rambling plant, flowers reddish.					6/12/1962

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9358978	4027	Jacksonia sericea	4	Low spreading shrub, 0.6 m high.	Disturbed area. Limestone pad for a radar facility.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo	uncommon.	Recorded during a targeted flora search.	3/10/2019
9358862	4027	Jacksonia sericea	4	Low spreading shrub, 0.6 m high.	Disturbed area. Limestone pad for a radar facility.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo	uncommon.	Recorded during a targeted flora search.	3/10/2019
9358951	19272	Johnsonia pubescens subsp. cygnorum	2	Tufted herb, 0.3 m high, in flower.	Gently inclined mid slope, white sand.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo			24/10/2018
9327258	19272	Johnsonia pubescens subsp. cygnorum	2	Tufted perennial herb to 0.2 m with green flowers and white/green bracts.	Very gently inclined flat, grey sand.	Low open woodland of Eucalyptus patens over tall sparse shrubland Adenanthos cygnorum subsp. cygnorum over mid sparse shrubland Xanthorrhoea preissii over low open shrubland of Eremaea pauciflora var. pauciflora over mid sparse sedgeland of Cyathochaeta	1 plant seen.		20/09/2019
1143093	5025	Lasiopetalum bracteatum	4						/10/1914
1142607	5025	Lasiopetalum bracteatum	4						/10/1901
1143158	5025	Lasiopetalum bracteatum	4	Shrub, sepals and floral bracts reddish-purple.					/11/1919
3372170	5025	Lasiopetalum bracteatum	4	Small shrub, 70 cm tall x 50 cm wide.	Gully.		uncommon in the areas close to the gully.		27/10/1992
3372162	5025	Lasiopetalum bracteatum	4	Small shrub, 1 m tall x 70 cm wide.	Adjacent to a gully.		uncommon in the general area. Adjacent to a car parking area.		17/11/1992
5069327	5025	Lasiopetalum bracteatum	4	Erect spreading shrub 1 m high.	Slope to river, yellow brown sandy loam.	Open Low Woodland of Eucalyptus calophylla, Thomasia glutinosa, Petrophile biloba.			14/09/1992

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7906420	5025	Lasiopetalum bracteatum	4	Erect multistemmed shrub, 60-100 x 40-100 cm, calyx pink with anthers dark red.	Brown clayey sand over granite outcrops. Gully at base of hill.	In Corymbia calophylla, Eucalyptus marginata woodland with Xanthorrhoea, Grevillea, Macrozamia sp.			5/12/2004
5466911	5025	Lasiopetalum bracteatum	4						28/10/1986
5102731	5025	Lasiopetalum bracteatum	4		Light orange gritty clay-loam, with surface gravel and granite and quartz cobbels, on a steep lower slope.	Eucalyptus calophylla Open Woodland, over E. laelaei Open Low Woodland, over Hakea undulata Heath, over Darwinea citriodora Low Heath, over Hibbertia hypericoides, H. communtata Dense Low Heath.			26/11/1996
7373848	5025	Lasiopetalum bracteatum	4		Granite outcrops. Brown loamy sand.	Marri woodland.		Population healthy.	9/10/2005
9654267	5025	Lasiopetalum bracteatum	4	Rounded to erect shrub 0.5 m tall; flowers puple.	Creek line. Pale brown soil over dolomite.	Corymbia calophylla low open forest with dense low shrub layer of Lasiopetalum, Darwinia and Acacia.	locally common.		13/10/2019
1143131	5025	Lasiopetalum bracteatum	4						6/11/1960
3372189	5025	Lasiopetalum bracteatum	4	Small shrub to 1 m tall x .6 m wide.	Lateritic on steep sides of valley.	Lithic complex.		Abundance: Two or three plants only observed.	14/12/1992
1142585	5025	Lasiopetalum bracteatum	4						6/11/1900
1142593	5025	Lasiopetalum bracteatum	4						17/11/1902
1142577	5025	Lasiopetalum bracteatum	4						17/11/1902
3372200	5025	Lasiopetalum bracteatum	4	Small shrub to .6 m tall by .5 m wide.	Mid slope on lateritic gravel grading to the palid zone. Also some granite outcrops.	Jarrah-Marri woodland over Hakea trifurcata.		Abundance: Several plants in the general area.	14/01/1993
1143085	5025	Lasiopetalum bracteatum	4		Stream side.				/11/1901
1143115	5025	Lasiopetalum bracteatum	4						/10/1924
2472201	5025	Lasiopetalum bracteatum	4		Clay swamp.			Collected on 22 September, no year given.	//
4929675	5025	Lasiopetalum bracteatum	4	Erect, open shrub 80 cm high x 60 cm wide. Flowers pink, dark purple at base.	Hillside. Littered, brown loam over granite.	Very open wandoo woodland with Eucalyptus wandoo, Hakea lissocarpha, Calothamnus quadrifidus.	occasional.		3/10/1997

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5752124	5025	Lasiopetalum bracteatum	4	Erect shrub, 1.5 m high x 1 m wide. Deep pink flower with maroon centre.	Streamside. Wet, dense vegetation on surface of brown clay, granite.	Woodland with Marri, Wandoo, Hakea trifurcata and Leucopogon.		`Helena Velvet Bush'.	6/11/2000
5208939	5025	Lasiopetalum bracteatum	4		Red-brown clayey loam, with dolerite cobbels and boulders, on a very steep south-eastern lower slope.	Eucalyptus laeliae, E. calophylla, E. wandoo Low Woodland, over Trymalium floribundum, Xanthorrhoea preissii Dense Heath, over Macrozamia reidlii, Phyllanthus calycinus Low Heath, over Loxocarya flexuosa Tall Sedges.			8/10/1996
5462290	5025	Lasiopetalum bracteatum	4		Variable aspect. Slope/drainage line. Moist/dry brown loam/clay. Granite boulder.	(Muir's) Scattered marri. Associated species: Synaphea acutiloba, Hakea cristata, H. undulata, H. erinacea, Acacia pulchella, Dryandra lindleyana, Darwinia citriodora, Xanthorrhoea preissii, Watsonia bulbillifera.		Condition of population: healthy.	1/10/1999
7965680	5025	Lasiopetalum bracteatum	4	Erect multistemmed shrub, 60 - 100 cm high x 40 - 100 cm wide, calyx pink with anthers dark red. In full flower.	In gully at base of hill. Brown clayey sand over granite outcrops.	In Eucalyptus calophylla, E. marginata woodland, with Xanthorrhoea, Grevillea, Macrozamia sp.			5/12/2004
8145989	5025	Lasiopetalum bracteatum	4	Shrub to 1.2 m tall. Purple flowers.	Creekline. Brown loam over granite.	Dense heath to 1 m. With Calothamnus sp., Darwinia citriodora, Grevillea sp., Hakea sp., Weeds.			4/09/2008
8877750	5025	Lasiopetalum bracteatum	4	Single stemmed shrub 1 m high, 1.5 m wide, flowers pink with a single pink, petaloid, epicalyx bract.	Mid slope in dark brown clayey sand over granite.	Marri - Jarrah woodland with Thomasia foliosa, Xanthorrhoea, Calothamnus and Melaleuca.	frequent in the area.		11/10/2016
8054541	5025	Lasiopetalum bracteatum	4	Shrub to 1.2 m tall. Purple flowers.	Creekline. Brown loam over granite.	Dense heath to 1 m. With Banksia (Dryandra) sp., Calothamnus sp., Corymbia calophylla, Darwinia citriodora, Grevillea sp., Hakea cristata, Hovea pungens, Petrophile sp., weeds.	at least 35 plants.	More plants down creek W of this location.	26/02/2009
7528760	5025	Lasiopetalum bracteatum	4	Erect shrub to 1.5 m high. Pink flowers.	Slope, outcrop. Sheet boulder - granite.	Jarrah and Marri fringing granitic heath with Calytrix, Petrophile, Hakea, Hovea, Hemigenia, Xanthorrhoea preissii, Stylidium.	ca 30 plants.		6/11/2006
8878463	5025	Lasiopetalum bracteatum	4	Juvenile plant, single stem to 50 cm high, flowers pink with a single pink, petaloid, epicalyx bract.	Mid slope in dark brown clayey sand over granite.	Marri - Jarrah woodland with Thomasia foliosa, Xanthorrhoea, Calothamnus and Melaleuca.	frequent in the area.		11/10/2016

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1086936	45081	Lasiopetalum glutinosum subsp. glutinosum	3						6/11/1900
1085921	45081	Lasiopetalum glutinosum subsp. glutinosum	3						/10/1901
1086987	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Gravel over granite.				8/09/1931
1086421	45081	Lasiopetalum glutinosum subsp. glutinosum	3					Positive patch test for Trent Hatsly, aged 12 years.	12/11/1982
1086944	45081	Lasiopetalum glutinosum subsp. glutinosum	3						6/11/1900
1086448	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Flowers pink. Height to 2 ft.	Granitic.	Heath.			18/09/1977
1085913	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Gravel over granite.				8/09/1931
2705583	45081	Lasiopetalum glutinosum subsp. glutinosum	3	4 ft, bushy growth; flowers very sticky.					16/11/1953
1085948	45081	Lasiopetalum glutinosum subsp. glutinosum	3						20/08/1898
1087037	45081	Lasiopetalum glutinosum subsp. glutinosum	3						25/10/1918
1086405	45081	Lasiopetalum glutinosum subsp. glutinosum	3						/10/1924
1086413	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Flower purple.					25/10/1918
1086391	45081	Lasiopetalum glutinosum subsp. glutinosum	3						25/10/1924
1085999	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1085964	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
1085956	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
1085972	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
1085980	45081	Lasiopetalum glutinosum subsp. glutinosum	3						21/10/1897
5079799	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.			19/09/1996
5118360	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Dark brown gritty loam, with surface gravel and cobbels, on a moderate south-western upper slope.	Eucalyptus calophylla Low Woodland, over Hemigenia incana, Hakea undulata Dense Heath, over Xanthorrhoea preissii, Nemcia spathulata, Dryandra lindleyana Low Heath, over Tetraria octandra, Lepidosperma angustatum Tall Sedges.			9/12/1996
1086979	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Shrub ca 1 m. Inflorescences very sticky.	On laterite ridge.				3/10/1966
8091293	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Openly-branched shrub to 1 m x 1 m. Inflorescence axes strongly viscid. Calyx bright pink; anthers dark reddish-purple.	Sandplain with some influence of Darling Scarp outwash.	Banksia menziesii - B. attenuata - jarrah woodland.	infrequent.		11/10/2008
1086464	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Flowers purple-mauve, very glutinous, shrub to 2 ft, erect little branched.	On high ground, over hill to S of the brook.				2/09/1971
5102960	45081	Lasiopetalum glutinosum subsp. glutinosum	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.			29/11/1996

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2705559	45081	Lasiopetalum glutinosum subsp. glutinosum	3	Erect shrub 30-50 cm. Flowers pink-purple; anthers black.	Summit of scarp. Sandy clay over granite.	Low heath.	very common.		6/11/1984
8649588	942	Lepidosperma rostratum	T	Perennial grass-like sedge c. 45 cm high. Flowering.	Claypan. Seasonally inundated. Brown clay.	Sedge dominated claypans. Dense shrubland of Hypocalymma angustifolium and Melaleuca sp.. Isolated stands of Actinostrobus pyramidalis. Hypolaena sp., Tribonanthes sp., Burchardia sp..	164 live plants.	Population 2.	22/06/2009
8436983	942	Lepidosperma rostratum	T	Perennial caespitose sedge 0.3-0.4 m high x 0.1-0.25 m wide. Finished flowering. Spikelets grey-brown, some fruit still present. Some plants drying and yellowing.	Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus over Shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora over Very Open Sedgeland of Chaetanthus aristatus and Lepidosperma squam	16 clumps.		13/09/2012
8816441	942	Lepidosperma rostratum	T	Tufted perennial sedge to 60 cm high x 40 cm wide.	Flat, seasonally inundated site with grey sandy loam.	Open shrubland of Melaleuca acutifolia over low shrubland of Hypocalymma angustifolium, Callitris pyramidalis, Melaleuca viminea, M. brevifolia and M. acutifolia over low open shrubland of Grevillea thelemanniana subsp. thelemanniana, Acacia lasiocarpa a	1 plant only.	Population 2e.	17/01/2015
8193193	942	Lepidosperma rostratum	T	Clumped perennial sedge to c. 50 cm high. Flowers yellow/brown.	Claypan. Inundated brown clay.	Dense shrubland over sedges. Actinostrobus pyramidalis, Melaleuca spp., Hypocalymma angustifolium, Hypolaena sp., Tribonanthes sp., Burchardia sp.	164 plants counted, but likely to be underestimation.		22/06/2009
8193207	942	Lepidosperma rostratum	T	Clumped perennial sedge to c. 50 cm high. Flowers yellow/brown.	Claypan. Inundated brown clay.	Dense shrubland over sedges. Actinostrobus pyramidalis, Melaleuca spp., Hypocalymma angustifolium, Hypolaena sp., Tribonanthes sp., Burchardia sp.	164 plants counted, but likely to be underestimation.		22/06/2009
9251669	942	Lepidosperma rostratum	T		Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus, over shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora, over very open sedgeland of Chaetanthus aristatus and Lepidosperma squ			13/09/2012

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
9251677	942	Lepidosperma rostratum	T		Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus, over shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora, over very open sedgeland of Chaetanthus aristatus and Lepidosperma squ		Plant has scale insects.	13/09/2012
9251685	942	Lepidosperma rostratum	T		Seasonal clay based open depression. Moist, grey-brown fine sand to loam over clay.	Tall shrubland of Melaleuca acutifolia, M. brevifolia and Callitris pyramidalus, over shrubland of Hypocalymma angustifolia, Acacia lasiocarpa, Verticordia densiflora var. densiflora, over very open sedgeland of Chaetanthus aristatus and Lepidosperma squ			13/09/2012
7625944	19241	Lepyrodia curvescens	2	Sedge to 0.2 m tall. Stems to 1 mm diameter, flowering heads to 5 cm long.	On boundary of Southern River and Ridge Hill Shelf soil and landform units.	On edge of wetland with associated vegetation: Jacksonia floribunda, Eucalyptus todtiana, Caustis diocia, Xanthorrhoea ? drummondii, Hibbertia hypericoides, Acacia sessilis, Dryandra lindleyana.	occasional.		8/06/2006
6703747	19241	Lepyrodia curvescens	2	Tufted restiad. Male & female.	Flat coastal plain. Dry littered surface on grey sand.	Very open Marri woodland over sparse shrubs and dense sedges. Characteristic species: Corymbia calophylla, Kingia australis and Mesomelaena tetragona.			25/11/2003
8318034	29492	Leucopogon sp. Busselton (D. Cooper 243)	3	Shrub ca 1.2 m high.	Flat (Guildford Formation). Seasonally waterlogged. Shallow sand over mud.	Dense heath over sparse sedges annuals and herbs. Callitris pyramidalis, Calothamnus hirsutus, Hypocalymma angustifolia, Banksia telmatiaea.			28/08/2011
2768844	7674	Levenhookia preissii	1						/12/1900
1875221	7674	Levenhookia preissii	1	Flowers rosy pink (including labellum). Odourless.	Peaty sand fringing damp soil, bordering a watercourse.				26/12/1924
2768720	7674	Levenhookia preissii	1						09/01/1899
2768763	7674	Levenhookia preissii	1						23/12/1901
2768771	7674	Levenhookia preissii	1		On margin of swamp.				/01/1954
2768798	7674	Levenhookia preissii	1		White sand.				5/01/1951
6512593	7674	Levenhookia preissii	1	Erect annual herb; flowers pink.	Palusplain.	Was Dense Heath B but burnt 1993/94 summer, ground carpeted with Levenhookia.			20/10/1994
2768828	7674	Levenhookia preissii	1						/12/1901

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
3635015	17106	Macarthuria keigheryi	T	Weak herb with yellow flowers.	Sandy soil.	Beneath tall Banksia, Eucalyptus and Nuytsia with Acacia pulchella, Eriostemon spicatus.			7/09/1976
4471490	17106	Macarthuria keigheryi	T	Low multistemmed shrub 15 cm high x 20 cm wide. In flower, mostly bud.	Plain, dry grey sand.	Very open woodland. Eucalyptus marginata, Allocasuarina, Banksia grandis.		Abundance: common in restricted area. Area burnt c. 18 months ago.	/03/1996
5314070	17106	Macarthuria keigheryi	T	Small shrub/twiner to 20 cm. Suckering?	Growing in occasional sandy open patches only. Sandy rise in low lying area. Bassendean sand.	Confined to small area of Banksia woodland over diverse dense low shrubland. Banksia woodland/Low heath with Banksia menziesii, B. attenuata, Allocasuarina fraseriana (mixed shrubs) Xanthorrhoea preissii, Stirlingia latifolia, Hibbertia hypericoides, All	nine plants.		5/11/1998
6410766	17106	Macarthuria keigheryi	T		Slope. Sand dune. Dry grey sand.	Adenanthos cygnorum shrubland. Associated species: Adenanthos cygnorum, Calytrix fraseri, Hibbertia hypericoides, Conostephium pendulum, Jacksonia floribunda.	2 mature plants.	Condition of population: healthy.	1/11/2001
6407358	17106	Macarthuria keigheryi	T	Prostrate, perennial,straggly shrub, 20 cm high x 15 m wide. Flowers white.	Plain. Grey sand.	Very Open Woodland. With Allocasuarina, Eucalyptus marginata, Patersonia, Hibbertia, Thysanotus, Banksia menziesii.		100% in bud. Infestation area of this weed: 1-10 sq.m. Pushing through thick Alloc. fronds and on open sand.	16/09/2002
7414889	17106	Macarthuria keigheryi	T		On old dune system.	Low open woodland. Xanthorrhoea preissii, Eremaea pauciflora, Banksia menziesii, Jacksonia floribunda, Synaphea polymorpha, Alexgeorgia nitens.			26/11/2002
4118030	17106	Macarthuria keigheryi	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over Allocasuarina fraseriana, Banksia menziesii, B. attenuata and Nuytsia floribunda Open Low Woodland A over scattered Kingia australis over Stirlingia latifolia and Hibbertia hypericoides Dwarf Scrub C over Stipa compressa Open Low Gr		Severe fire in 1994/95, Adenanthos cygnorum stratum (>2 m, 20-50% cover) all dead but seedlings.	28/02/1996

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
4118022	17106	Macarthuria keigheryi	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over Allocasuarina fraseriana, Banksia menziesii, B. attenuata and Nuytsia floribunda Open Low Woodland A over scattered Kingia australis over Stirlingia latifolia and Hibbertia hypericoides Dwarf Scrub C over Stipa compressa Open Low Gr		Severe fire in 1994/95, Adenanthos cygnorum stratum (>2 m, 20-50% cover) all dead but seedlings.	28/02/1996
4118014	17106	Macarthuria keigheryi	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over Allocasuarina fraseriana, Banksia menziesii, B. attenuata and Nuytsia floribunda Open Low Woodland A over scattered Kingia australis over Stirlingia latifolia and Hibbertia hypericoides Dwarf Scrub C over Stipa compressa Open Low Gr		Severe fire in 1994/95, Adenanthos cygnorum stratum (>2 m, 20-50% cover) all dead but seedlings.	28/02/1996
7888236	17106	Macarthuria keigheryi	T	Perennial herb or shrub.	Flat, grey sand.	Disturbed, Banksia attenuata, Banksia menziesii, Banksia ilicifolia, Hibbertia subvaginata, Dasypogon bromeliifolius, Melaleuca seriata, Lyginia barbata, Patersonia occidentalis.			21/08/2002
8656754	17106	Macarthuria keigheryi	T	Shrub.	Low plain. Dry grey sand.	Open marri woodland. Corymbia calophylla, Eucalyptus marginata, Banksia menziesii, Banksia attenuata, Acacia pulchella, Gompholobium tomentosum, Burchardia sp., Watsonia sp., Ursinia anthemoides, Hypochaeris sp., Romula rosea, Trifolium sp..	1 plant.	Proposed population 7 (new population).	22/09/2009
1162586	33638	Meionectes tenuifolia	3						/12/1900
1162616	33638	Meionectes tenuifolia	3						19/12/1930
7878311	33638	Meionectes tenuifolia	3	Erect herb with orange flowers. Height 0.5 m and width 0.05 m.	Grey clay, reserve and wetland.	Tall shrubland with Melaleuca rhaphiophylla, Baumea arthophylla and Triglocia lineare.	over plants over area of 11-100 m2.	100% flowering and reproducing by seeds.	28/12/2007
9358900	6193	Myriophyllum echinatum	3	Small herb, 0.05 m high, in flower.	Level closed depression, grey-black sandy clay.	Tall sparse shrubland of Melaleuca rhaphiophylla over mid shrubland of Melaleuca lateritia over low forbland and tussock grassland of mixed species dominated by Lachnagrostis filiformis, Lotus subbiflorus, Liparophyllum capitatum, Vulpia myuros forma meg		Recorded in a 10 m x 10 m quadrat with < 0.1% foliage cover.	16/10/2018
1087444	6193	Myriophyllum echinatum	3						/11/1902

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1106783	36200	Ornduffia submersa	4	Aquatic, flowers and leaves floating on pond surface. Flowers white, floating.	Shallow ephemeral claypans. Brown clay.	With scattered Melaleuca laterita shrubs.	rare in area.		17/11/1989
6512356	36200	Ornduffia submersa	4	Annually renewed aquatic herb 1 m wide. Leaves and flowers float on surface of the water.	Sumpland; brown/grey clay over clay.	Melaleuca rhaphiophylla low forest to low woodland over scattered Melaleuca lateritia.		Water to 1 m deep.	24/08/1995
5176751	2278	Persoonia sulcata	4	Perennial. Single stem at ground level. Plant active.	Site: Upland. Apron incorporating granite outcrop. Slope. Soil Surface: Organic Soil Colour: Brown Red Soil Texture: Loamy Sand Comments: None pH: 6.00 Very Rocky 20-50% Exposed Granite Fire History: 1990 Season: Unknown Type: Unknown	High open shrubland.		Abundance: frequent.	6/10/1998
5179653	2278	Persoonia sulcata	4	Perennial shrub, 30 cm high. Single stem at ground level. Plant active.	Site: Upland. Hillside, small granite rocks throughout site, small outcrop Soil Surface: Littered Soil Colour: Brown Soil Texture: Loamy Sand Comments: pH: 6.00 Rocky 10-20% Exposed Granite Fire History: 1990 Season: Unknown Type: Unknown	High open woodland.		Abundance: occasional.	6/10/1998
1013300	17366	Phyllangium palustre	2	Flowers white.					/10/1901
5464145	8163	Pithocarpa corymbulosa	3		Pale brown, sandy-loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemiandra sp. and other shrubs with very few Corymbia calophylla.	fairly common in small area.		20/12/1997

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
5065534	8163	Pithocarpa corymbulosa	3	See also BJL & TRL 2570, 2994.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Corymbia calophylla.		Abundance: fairly common in small area.	7/12/1996
535672	8163	Pithocarpa corymbulosa	3		granite	wandoo			/02/1978
644242	8163	Pithocarpa corymbulosa	3		granite near granite outcrops				28/01/1986
5604699	8163	Pithocarpa corymbulosa	3		Generally S. Slope/outcrop/ridge. Dry red/brown/yellow loam/clay. Granite boulder.	(Muir's) Scattered marri. Quite dense granitic shrubs. Associated species: Leucopogon gracillimus, Hakea undulata, H. incrassata, H. stenocarpa, H. trifurcata, Dryandra sessilis, D. lindleyana, Microcorys longifolia, Synaphea acutiloba.		Condition of population: healthy.	14/05/2000
4616898	8163	Pithocarpa corymbulosa	3	Plants in active vegetative growth. See also BJL & TRL 2570, 3311.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Eucalyptus calophylla.		Abundance: fairly common in small area.	15/09/1996
5065607	8163	Pithocarpa corymbulosa	3		Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Corymbia calophylla.		Abundance: fairly common in small area.	12/01/1997
4482433	8163	Pithocarpa corymbulosa	3	Subshrub to c. 80 cm. Stems erect. Most plants in fruit, some flowers still present on plants in shelter of granite outcrops.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Eucalyptus calophylla.	fairly common in small area.		14/04/1996
4482425	8163	Pithocarpa corymbulosa	3	Subshrub to c. 80 cm. Stems erect. Most plants in fruit, some flowers still present on plants in shelter of granite outcrops.	Pale brown sandy loam amongst granite outcrops.	With Xanthorrhoea sp., Hakea sp., Hovea sp., Nuytsia floribunda, Hemigenia sp. and other shrubs with very few Eucalyptus calophylla.	fairly common in small area.		14/04/1996
6514243	11132	Platysace ramosissima	3		Wet Flat. Grey loamy sand over ?clay loam. Poor drainage, wet during winter and spring.	Low Heath C. Associated species: Stirlingia latifolia, Daviesia physodes, Allocasuarina humilis.			4/11/1994
8562156	11132	Platysace ramosissima	3		Low sandy rise adjacent to damplands. Dry grey sand over limestone. No fire recorded.	Banksia attenuata and B. menziesii woodland over diverse low shrubland. With Xanthorrhoea preissii, Hibbertia hypericoides, Stirlingia latifolia, Amphipogon turbinatus, Dasypogon bromeliifolius, Desmocladus flexuosus, Mesomelaena pseudostygia. Very good		Grazing and roadworks.	19/11/2002

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7746989	11132	Platysace ramosissima	3	Perennial herb. Height 15 cm.	Dry, grey-white sand. + 10 years since last fire.	Phelbocarpa ciliata, Hypocalymma angustifolium, Calytrix fraseri, Bossiaea eriocarpa, Lyginia barbarta, Dampera linearis, Jacksonia furcellata, Xanthorrhoea gracillis, Adenanthos cygnorum subsp. cygnorum and Dasypogon bromeliifolius.	one only.		13/12/2006
9358935	42022	Poranthera moorokatta	2	Small herb, 0.02 m high, in flower.	Very gently inclined mid slope, white sand.	Mid woodland of Eucalyptus marginata subsp. marginata over low woodland of Allocasuarina fraseriana, Banksia menziesii and Banksia attenuata over mid open to sparse shrubland of mixed species dominated by Jacksonia floribunda and Calytrix fraseri over lo			31/10/2018
9358889	974	Schoenus benthamii	3	Upright tufted sedge to 28 cm with brown/green flowers.	Inundated closed depression, grey-brown sandy clay.	Tall closed shrubland of Melaleuca viminea subsp. viminea over low sparse sedgeland of Isolepis cernua var. setiformis.	uncommon.		17/10/2018
7625871	17606	Schoenus griffinianus	4	Herb to 0.2 m tall. Stems have red tinge near base and bracts at each branch. Non flowering specimen.	On boundary of Southern River and Ridge Hill Shelf soil and landform units.	On edge of wetland. Associated vegetation: Jacksonia floribunda, Eucalyptus todtiana, Caustis diocia, Xanthorrhoea ? drummondii, Hibbertia hypericoides, Acacia sessilis, Dryandra lindleyana.	occasional.		8/06/2006
6533485	1008	Schoenus pennisetis	3	Flowers brown.					4/11/1994
9358870	1008	Schoenus pennisetis	3	Small erect annual sedge to 12 cm with brown flowers.	Winter-wet flat, grey-brown sandy loam.	Mid isolated clumps of shrubs of Hakea varia over low open shrubland of Pericalymma ellipticum var. floridum, Verticordia densiflora var. densiflora and Melaleuca seriata over low sparse forbland of Conostylis aculeata subsp. aculeata over tall sparse ru	uncommon.	Recorded in a 10 m x 10 m quadrat with < 0.1% foliage cover.	15/10/2018
8738300	8205	Senecio gilbertii	1	Spindly perennial, greyish. Leaf undersides woolly.	Massive laterite. Long unburnt area.	Under Jarrah and Bull Banksia, with Zamia, Balga and Kennedias.		Flowers in summer. Fire response - seeder?	26/12/1994
6295118	8205	Senecio gilbertii	1		On laterite plateau.				5/10/1957
4217934	8212	Senecio leucoglossus	4	2 ft spreading, flowers white.	Granite valley.				/09/1978
544779	8212	Senecio leucoglossus	4		gravelly soil				10/10/1901
544760	8212	Senecio leucoglossus	4		Gravelly soil.				/10/1901

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
8662770	13571	Sporobolus blakei	3	Tufted perennial.	Granite rubble. Clayey.	Weeds.		Came in when the Picnic Ground was ripped up and 'rehabilitated'. Flowering: early summer. Fire response: seeder.	16/11/1994
2842718	43540	Stackhousia sp. Red-blotched corolla (A. Markey 911)	3						/10/1897
9835539	17582	Stylidium glabrifolium	2	Rosulate perennial 10-30 cm high, in mid to late flower, leaves starting to yellow; corolla pale yellow, lobes paired laterally; throat appendages slender and somewhat irregularly lobed, dark yellow with a maroon tip.	Hillslope near granite outcropping; yellow-grey clayey sand over laterite.	Open Jarrah - Marri forest with Nuytsia; Stylidium spp.	locally frequent but highly localised.	A significant range extension. Population discovered on iNaturalist.	17/11/2024
1055100	7756	Stylidium longitubum	4	Flowers red.					/10/1901
8859868	7756	Stylidium longitubum	4		Moist soil.			Condition of plants: healthy. Percentage in flower: 100%.	8/11/2012
2858010	25800	Stylidium paludicola	3						10/10/1900
1040316	7803	Stylidium striatum	4					PERTH 06796842 is also housed with this specimen.	21/10/1897
6294782	7803	Stylidium striatum	4		On laterite plateau.				5/10/1957
1040324	7803	Stylidium striatum	4	Flowers pale yellow.	Ironstone.	Eucalyptus calophylla forest, with Hakea, Grevillea, Stylidium junceum, S. hispidum, Stackhousia, Thysanotus.		A very rarely collected species, known only from this general region (First record of flower color in this species).	23/10/1967

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1040340	7803	Stylidium striatum	4						21/10/1897
7337663	48297	Styphelia filifolia	3	Erect, spreading shrub, multistemmed from ground level. To ca 45 cm high x ca 90 cm wide. White flowers, early flowering stage.	Flat. Dry, brown-grey sand.	Verticordia plumosa, Leptospermum sp., Hakea varia, Conostylis sp., Hypocalymma angustifolia, Banksia sphaerocarpa.	ca 11 plants SW of highway and ca 45 more on the NE side.		23/02/2006
967165	4540	Tetratheca pilifera	3						/09/1942
7984847	20729	Thelymitra magnifica	T	Plants were at ca peak of flowering.	Area formerly scraped for gravel.	Tall heath under sparse woodland.			15/10/2000
306045	20729	Thelymitra magnifica	T						/10/1932
6714668	20729	Thelymitra magnifica	T		Slope. Dry-moist brown clay-loam-gravel. Granite and boulder. Burnt ? 1998-99.	(Muir's) Scattered Marri and Wandoo. Hakea trifurcata, H. incrassata, Melaleuca sp., Thelymitra benthamiana, Stylidium bulbiferum, Calothamnus sp., Nemcia acuta, Astroloma foliosum.	51 mature plants ca 10 seedlings over 4A: 400 m NS x 200 m E. 4B: 500 m NE x var..	4B Palm Terrace Forrestfield. Scattered on E side of Palm Terrace Walk Trail for up to 500 m NE-E from Palm Terrace and for up to 80 m upslope from the trail.	19/10/2003
6714625	20729	Thelymitra magnifica	T		Slope. Dry, clay over granite-boulder.	(Muir's) Wandoo open woodland. Xanthorrhoea preissii, Hakea trifurcata.	11 mature plants over 50 m x 50 m.		19/10/2003
6700152	20729	Thelymitra magnifica	T		Slope, hilltop. Dry, brown loam. Granite - boulder.	(Muir's)Scattered Marri. Hakea incrassata, H. crystata, Tricoryne elatior, Allocasuarina humilis, Xanthorrhoea preissii, grasses and weeds.	21 plants, 7 seedlings over 20 m EW x 15 m NS.		31/10/2003
5524881	20729	Thelymitra magnifica	T	Erect, single stemmed annual with brown-yellow flowers, to 17 cm high. Full/late flowering stage.	NW slope. Dry, grey granitic clay. Area burnt summer 1997.	Small scattered marri with Hakea incrassata, Xanthorrhoea preissii, Allocasuarina humilis, sedge sp., Pimelea imbricata, Nemcia acuta.	4 flowering plants, scattered.		2/11/1999

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
6936709	20729	Thelymitra magnifica	T	Sturdy, erect orchid, 0.25 m high, scented flowers reddish-brown with gold markings and green reverse, anther bright orange.	Gentle slope at foot of Darling Scarp in reserve which was once a gravel pit, on lateritic gravel. Burnt March 2004.	Regrowth open Jarrah-Marri woodland with Hakea trifurcata, Xanthorrhoea preissii, Calothamnus sanguineus, Hibbertia hypericoides and fringing Dryandra sessilis thicket. Shrubs in early regrowth, Drosera spp., Stylidium spp., sedges, orchids, Haemodorum s	occasional.		23/10/2004
272841	20729	Thelymitra magnifica	T						//
6714676	20729	Thelymitra magnifica	T		Slope - flat. Dry, yellow-brown sand-loam-clay. Laterite-boudler-granite. Burnt in 1997v and Pop.4B 2002/3 summer.	(Muir's) Scattered Marri. Acacia pulchella, Stylidium brunonium, Leucopogon pulchellus, Verticordia acerosa, Xanthorrhoea preissii, Nemcia acuta.	21 mature plants 5 seedlings over 3A: 100 m EW x 200 m NS.		22/10/2003
6714641	20729	Thelymitra magnifica	T		Slope - flat. Dry, brown sand-loam-clay.	(Muir's) Wandoo and Marri open woodland. Xanthorrhoea preissii, Patersonia occidentalis, Hakea lissocarpha, Calothamnus sp., Acacia pulchella, Hypocalymma angustifolium.	13 mature plants 18 seedlings over 100 m x 100 m.		28/10/2003
272450	20729	Thelymitra magnifica	T		stony ridge				/10/1931
306037	20729	Thelymitra magnifica	T	Erect orchid 30 cm, flowers brown with orange stripe on petals, labellum bright orange.	Growing on sandy lateritic soil on banks of creek.				17/10/1978
1122401	1317	Thysanotus anceps	3		On laterite.	E. marginata forest.			28/11/1958
1041401	1317	Thysanotus anceps	3	Herb 12 inches.					4/12/1963
3455793	1317	Thysanotus anceps	3	Small straggling herb to .4 m tall by .1 m wide.	Lateritic gravel.	Open Jarrah and Marri woodland.		Abundance: two or three plants only observed.	23/12/1992
3455785	1317	Thysanotus anceps	3	Small herb to .3 m tall by .1 m wide.	Mid-slope on lateritic gravel grading to the palid zone. Also some granite outcrops.	Jarrah - Marri woodland over Hakea trifurcata.		Abundance: several plants in the general area.	14/01/1993
1122398	1317	Thysanotus anceps	3		On laterite.	Jarrah forest.			28/11/1958
3017486	1323	Thysanotus brachiatus	2						18/12/1899
1536893	1334	Thysanotus glaucus	4	Caespitose perennial herb to 15 cm x 20 cm wide. Flowers purple; in late flower.	Yellow sand.	Banksia attenuata/B. menziesii low open woodland.	scattered but not rare.		9/12/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
3456161	50556	Tricostularia drummondii	3	Rhizomatous perennial herb to 50 cm x 20 cm. Flowers brown, in bud.	Low sand ridge, grey sand.	Banksia attenuata / B. menziesii low open woodland.	common in area.		6/11/1990
1021818	32658	Trithuria occidentalis	T						/09/1901
1021796	32658	Trithuria occidentalis	T						/09/1901
2841932	32658	Trithuria occidentalis	T						16/11/1898
1051075	32658	Trithuria occidentalis	T						16/11/1898
1021826	32658	Trithuria occidentalis	T	Plant red, growing in tiny tufts.	Muddy spots.				/09/1901
2841916	32658	Trithuria occidentalis	T		Muddy spots.				/09/1901
1057723	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub 45-60 cm x 30-45 cm, bare at base, flowers mauve-pink, striate.	Whitish sand in winter-wet area.				4/12/1982
1058762	14714	Verticordia lindleyi subsp. lindleyi	4	Low open erect shrub, 60 cm, flowers mauve.					26/05/1978
1057219	14714	Verticordia lindleyi subsp. lindleyi	4		Gravelly soil.				/11/1901
6534066	14714	Verticordia lindleyi subsp. lindleyi	4	Fine shrub, 0.5 m by 0.2 m, flowers pink/mauve.	Seasonal Wetland, flat ground, sand with little clay, over ?clay, poor drainage, wet during winter/spring.	Heath B, Associated species: Pericalymma elipticum, Melaleuca sp.B, Banksia telmatiaea.			20/10/1994
7337787	14714	Verticordia lindleyi subsp. lindleyi	4	Erect, spreading open branching shrub to ca 50 cm high. Pink flowers. Full flowering stage.	Swamp. Dry, brown-grey sand.	Beaufortia squarrosa, Leptospermum sp., Hakea varia, Conostylis sp., Hypocalymma angustifolia, Banksia sphaerocarpa, Kingia australis.	ca 1000 plants.		23/02/2006
1402439	14714	Verticordia lindleyi subsp. lindleyi	4	Low open erect shrub, 60 cm. Flowers mauve.					26/05/1978
2166739	14714	Verticordia lindleyi subsp. lindleyi	4	Dwarf shrub to 40 cm, with pink-purple flowers.	On winter wet flat in grey sand.	With Melaleuca (paperbark), Hypocalymma angustifolia, Pericalymma elipticum.			4/04/1990

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
2166712	14714	Verticordia lindleyi subsp. lindleyi	4	Upright dwarf shrub to 75 cm, pink-purple flowers.	Yellow sandy loam in swampy flat.	With Pericalymma elipticum, Melaleuca sp., Verticordia densiflora, sedges.		Abundance: frequent	13/03/1990
2166720	14714	Verticordia lindleyi subsp. lindleyi	4	Upright dwarf shrub, pink-purple flowers.	White sand.	With Actinostrobis pyramidalis, Beaufortia squarrosa, Pericalymma elipticum.		Abundance: frequent	21/03/1990
4684559	14714	Verticordia lindleyi subsp. lindleyi	4		Slope. Dry grey sand.				17/03/1997
2031450	14714	Verticordia lindleyi subsp. lindleyi	4	60 cm high x 30 cm wide. Flowers pinkish-mauve. Flower-spikes fairly sparse on ends of branches.	Yellow sandy loam in low-lying area, wet in winter.	Growing in assocation with V. densiflora.			14/12/1979
7916396	14714	Verticordia lindleyi subsp. lindleyi	4	Erect shrub. Pink flowers.	Grey sand over brown sand.	Verticordia densiflora, Melaleuca preissiana, Pericalymma ellipticum.	common, ca. 1000 plants.	Reproductive stage: vegetative adult/flowers.	23/05/2006
7888244	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub.	Flat. Grey sand.	Woodland. Corymbia calophylla, Banksia attenuata, Banksia menziesii, Melaleuca preissiana, Xanthorrhoea preissii, Hypocalymma angustifolium, Adenanthos obovatus, Regelia ciliata, Jacksonia furcellata.			22/08/2002
7747098	14714	Verticordia lindleyi subsp. lindleyi	4	Erect shrub.	Low plain on flat area.	Melaleuca preissiana, Xanthorrhoea preissii, Desmocladus flexuosus, Jacksonia furcellata, Lyginia barbata, Pericalymma ellipticum, Hypocalymma angustifolium, Eucalyptus linearis, Melaleuca seriata, Dryandra lindleyana and Patersonia occidentalis.	21-50 plants.	Healthy population.	21/02/2007
7747071	14714	Verticordia lindleyi subsp. lindleyi	4	Erect shrub.	Low plain on flat area.	Melaleuca preissiana, Xanthorrhoea preissii, Desmocladus flexuosus, Jacksonia furcellata, Lyginia barbata, Pericalymma ellipticum, Hypocalymma angustifolium, Eucalyptus linearis, Melaleuca seriata, Dryandra lindleyana and Patersonia occidentalis.	21-50 plants.	Healthy population.	21/02/2007
8145660	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub.		Patersonia occidentalis, Melaleuca seriata, Cytogonidium leptocarpoides, Drosera menziesii, Phlebocarya ciliata, Dampiera linearis, Gladiolus caryophyllaceus, Philotheca spicata, Hypocalymma angustifolium, Xanthorrhoea gracilis, Alexgeorgea nitens.			5/09/2007
7888228	14714	Verticordia lindleyi subsp. lindleyi	4	Shrub.	Flat. Grey sand.	Closed heath. Hakea varia, Astartea fascicularis, Hypocalymma angustifolium, Euchilopsis linearis and sedgelanhd of Baumea and Meeboldina spp.			20/08/2002

Sheet	NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Date
1557858	12460	Verticordia serrata var. linearis	3						10/10/1961

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
98423	3219	Acacia anomala	T	VU	9	D	24/08/2015		DRY	SLOPE	LATERITE		CLAY	YELLOW	
98406	3219	Acacia anomala	T	VU	6	A	3/09/2014	Property has been completely cleared (illegally, being investigated) up to the verge. Stylidium piliferum, Dryandra nivea, Grevillea synapheae	MOIST	SLOPE	LATERITE	GRVL_30	CLA_LOAM	BROWN	WLL_DRND
98408	3219	Acacia anomala	T	VU	6	C	11/10/1986			SLOPE	LATERITE	GRVL_30		GREY	
98407	3219	Acacia anomala	T	VU	6	B	14/09/2018			HILL	LATERITE	GRVL_100	CLA_LOAM	RED_BRWN	WLL_DRND
108062	3219	Acacia anomala	T	VU	6	D	14/09/2018			HILL	LATERITE	GRVL_100	CLA_LOAM	RED_BRWN	WLL_DRND
98422	3219	Acacia anomala	T	VU	9	C	28/08/2000		DRY	SLOPE	LATERITE		CLAY	YELLOW	
98421	3219	Acacia anomala	T	VU	9	B	17/08/2021		DRY	SLOPE	LATERITE	GRVL_30	LOAM	GREY	WLL_DRND
98420	3219	Acacia anomala	T	VU	9	A	14/09/1985	Stylidium piliferum, Dryandra nivea, Grevillea synapheae		SLOPE	LATERITE	GRVL_30		GREY	
98412	3219	Acacia anomala	T	VU	7	C	29/08/2018		MOIST	SLOPE	LATERITE	GRVL_10			WLL_DRND
98411	3219	Acacia anomala	T	VU	7	B	22/08/2023	Habitat was last burnt in prescribed burn PHS150 / Whistelpipe Gully 1 carried out October 2020.	MOIST	FLAT	LATERITE				WLL_DRND
98410	3219	Acacia anomala	T	VU	7	A	22/08/2023	Habitat last burnt in prescribed burn PHS 150 / Whistlepipe Gully 1 in October 2020.	MOIST	FLAT	LATERITE		LOAM	BROWN	WLL_DRND
98432	3220	Acacia aphylla	T	VU	17	A	11/11/2013		DRY	HILL	LATERITE				WLL_DRND
98433	3220	Acacia aphylla	T	VU	17	B	11/11/2013	disturbed area long roadside. lots of weeds	DRY	HILL	LATERITE				WLL_DRND
108166	3220	Acacia aphylla	T	VU	26		21/05/2010	Consists mainly of introduced species most likely from revegetation works. Few natives in immediate area.	MOIST	SLOPE	LATERITE	GRVL_10	CLA_LOAM	RED	WLL_DRND
119996	3220	Acacia aphylla	T	VU	31		7/08/2023	Open woodland on south side, granite heath on north side. Area north-east of Park road last burnt in prescribed burn PHS 031/John Forrest NP in October 2014, south-west side in PHS 191/John Forrest NP8 in September 2022.	MOIST	SLOPE	LATERITE	GRVL_10			WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
89604	11229	Acacia drummondii subsp. affinis	3		15		26/06/2006	Growing on hillside in rocky/clay in disturbed soil in roadside. Herbarium Record Only.		CREST			CLAY		
91853	14129	Acacia oncinophylla subsp. oncinophylla	3		12		17/08/1992	DomSp:Diplolaena sp., Phyllantus calycinus.		SLOPE	GRANITE		LOAM	BROWN	
91862	14129	Acacia oncinophylla subsp. oncinophylla	3		9		18/09/1996	DomSp:Trymalium lidifolium		SLOPE	LATERITE	GRVL_30	LOAM	GREY	
91852	14129	Acacia oncinophylla subsp. oncinophylla	3		11		4/10/2005			OUTCROP	GRANITE		LOAM_SND		
91858	14129	Acacia oncinophylla subsp. oncinophylla	3		5		12/10/1992	Open low scrub		SLOPE	LATERITE		LOAM	BROWN	
91866	14131	Acacia oncinophylla subsp. patulifolia	4		11		24/09/1996	Open low scrub, over Trymalium ledifolium, mixed dense low heath over Amphipogon turbinata.		SLOPE			LOAM	BROWN	
124249	6309	Andersonia gracilis	T	VU	21		11/11/2022	Closed to Open Shrubland of Callitris pyramidalis over Open Shrubland of Verticordia densiflora, Pericalymma ellipticum, Kingia australis, Petrophile seminuda, Hypocalymma angustifolia subsp. Swan Coastal Plain (G.J. Keighery 16777) over Cyathochaeta ave	DRY	FLAT			SCL_LOAM	BROWN	SEASINUN
88922	6946	Anthocercis gracilis	T	VU	7		18/10/2017	Heath under Rock Sheoak woodland. WAHerb vegetation description: Under Rock Sheoak, with Balga, Warrine, Zamia and Forest Rice-grass. Dense weeds. According to corporate fire data, several wildfires have occurred in the area however it is not known w	MOIST	OUTCROP	GRANITE	GRVL_10			WLL_DRND
88918	6946	Anthocercis gracilis	T	VU	2		24/08/2016	Significant weed invasion	MOIST	OUTCROP	GRANITE	GRVL_10	CLA_LOAM	BROWN	WLL_DRND
88924	6946	Anthocercis gracilis	T	VU	9		23/08/2016		MOIST	OUTCROP	GRANITE	GRVL_10	SND_LOAM	RED_BRWN	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
88923	6946	Anthocercis gracilis	T	VU	8		23/08/2016	Very sparse Corymbia calophylla and Eucalyptus wandoo trees. Mid-dense shrubs - Trymalium ledifolium, Calothamnus quadrifidus, Hibberti hypericoides. Sparse herbs on granite sheets - Borya sp., Drosera sp.	MOIST	RIDGE	GRANITE	GRVL_10	SND_LOAM	RED_BRWN	WLL_DRND
88921	6946	Anthocercis gracilis	T	VU	6		7/07/2023	Last burnt in October 2018 prescribed burn (PHS 109 / John Forrest NP 2).	DRY	SLOPE	GRANITE	GRVL_30	LOAM	BROWN	
88920	6946	Anthocercis gracilis	T	VU	4		30/10/1992	Xanthorrhoea preissii, Macrozamia ridlei, Hemigenia sericea, Chorizema ilicifolium, Cheilanthes		OPEN_DPN	GRANITE		LOAM	BROWN	
89376	7849	Asteridea gracilis	3		7		26/09/1977								
112269	50979	Austrostipa bronweniae	T	EN	1	C	9/12/2015	Very Open to Closed Tall Heath of Viminaria juncea, Melaleuca acutifolia, M. osullinvanii, M. viminea, Callitris pyramidalis, Banksia telmatiaea, Grevillea thelemanniana subsp. thelemanniana, Hypocalymma angustifolium, Acacia lasiocarpa over Very Open to	DRY	FLAT			SND_CLAY	GREY	SEASINUN
109248	50979	Austrostipa bronweniae	T	EN	1	A	29/10/2013	Callitris pyramidalis and Viminaria juncea Tall Open Shrubland, over Hypocalymma angustifolium, Grevillea thelemanniana var. thelemanniana (P2), Acacia lasiocarpa, Boronia crenulata Open Low Heath and Sedgeland/Herbland dominated by Chaetanthus aristatus	DRY	CD_DMPLD			SND_CLAY	GREY	SEASINUN
109489	50979	Austrostipa bronweniae	T	EN	1	B	18/09/2009								

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
104866	32211	Banksia mimica	T	VU	15	A	27/02/2024	Open Woodland of Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Kingia australis, Eremaea pauciflora, Jacksonia floribunda, Banksia nivea, Bossiaea eriocarpa, Stirlingia latifolia, Philotheca spicat	DRY	FL_PALU			SAND	GREY	WLL_DRND
104867	32211	Banksia mimica	T	VU	15	B	18/12/2019		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
104869	32211	Banksia mimica	T	VU	3	A	23/01/2024		DRY	SL_MI_GE			SAND	GREY	WLL_DRND
104870	32211	Banksia mimica	T	VU	3	B	23/01/2024	No native vegetation was seen on the property from the entrance at Brentwood Rd.	DRY	FLAT			SAND	WHITE	
104871	32211	Banksia mimica	T	VU	3	C	21/03/1990	Allocasuarina humilis, Dryandra nivea, Grevillea bipinnatifida, Hakea prostrata, Jacksonia floribunda		FLAT			SAND	GREY	
93363	16618	Boronia humifusa	1		12		20/08/2002		DRY	SLOPE	LATERITE	GRVL_30		BROWN	
86232	3178	Byblis gigantea	T	EN	1		31/10/2001	Shrubland	MOIST	FLAT			CLAY	GREY	
86235	3178	Byblis gigantea	T	EN	4		11/12/2001	Shrubland		OD_SWAMP			SAND	GREY	SEASINUN
86233	3178	Byblis gigantea	T	EN	2		6/09/1976	Hakea sp., Grevillea sp., Boronia sp., Melaleuca sp., Leucopogon sp.	MOIST	OD_SWAMP			SAND		
106902	13653	Calytrix breviseta subsp. breviseta	T	CR	2	B	1/11/2022	This entry is for the plants on the fenceline only. Habitat here is in Good condition (have left the overall habitat at Very Good condition from the full survey in 2012). Vegetation on the fenceline is Open Low Shrubland of Hypocalymma ?suave, Kunzea mi	DRY	CD_DMPLD			CLA_LOAM	BROWN	SEASINUN

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
91363	13653	Calytrix breviseta subsp. breviseta	T	CR	2	A	17/10/2024	The habitat is regenerating after the wildfire in January. Dominant species are the same as in 2019. Acacia lasiocarpa, Hypcalymma angustifolium, Melaleuca acutifolia, Verticordia densiflora, Scaevola repens, Haemodorum spicatum, Centrolepis aristata, B	MOIST	CD_DMPLD			CLA_LOAM	GREY	SEASINUN
84454	759	Carex tereticaulis	3		4		17/05/1999	Watercourse, wet. Organic litter. Grey Bassendean sand. Dense forest.					SAND	GREY	
91543	13999	Conospermum undulatum	T	VU	15		14/04/2005						SAND	YELLOW	
123053	13999	Conospermum undulatum	T	VU	29	B	25/09/2019	Vege Class: 1. Banksia menziesii, Banksia attenuata 2. Shrubland of Adenananthos cygnorum, Jacksonia floribunda, Melaleuca seriata Fire: >10 years ago	DRY				SAND	GREY	
91551	13999	Conospermum undulatum	T	VU	29	A	25/08/2023	Dom sp: Calothamnus sp., grassy weeds. Habitat cond: Degraded.	DRY	SLOPE			SAND	GREY	
102338	13999	Conospermum undulatum	T	VU	24	A	1/12/2004	scrub/woodland	DRY	SLOPE			SAND	GREY	
122969	13999	Conospermum undulatum	T	VU	24	C	25/09/2019	Habitat cndition: Excellent, very good Vege Class: 1.Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii, Banksia attenuata 2. Shrubland of Jacksonia floribunda, Calytrix fraseri Fire: >10 years ago	DRY				SAND	GREY	WLL_DRND
102339	13999	Conospermum undulatum	T	VU	24	B	6/09/2023			CREST			SAND	GREY	WLL_DRND
102315	13999	Conospermum undulatum	T	VU	18	M	31/07/2013	Probably cleared or highly disturbed during previous road works	MOIST	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
120189	13999	Conospermum undulatum	T	VU	18	S	17/09/2009		MOIST	FL_PLAIN			SAND	GREY	
102306	13999	Conospermum undulatum	T	VU	18	C	21/12/2006	Low woodland A / low forest A over dwarf scrub D and low heath D	MOIST	FLAT	LATERITE		SAND	GREY	
102320	13999	Conospermum undulatum	T	VU	18	R	21/12/2006	Open Low Woodland	MOIST	FL_PLAIN			SAND	GREY	
122949	13999	Conospermum undulatum	T	VU	18	X	20/09/2018	Soil Type: Sand, Sandy loam Vege Class: Banksia attenuata woodland over species rich dense shrubland Plants found on road verge adjacent to Nature Reserve. Moderate herbaceous weeds and rubbish dumped on verge	DRY	FLAT		GRVL_30	SND_LOAM	GREY	WLL_DRND
102318	13999	Conospermum undulatum	T	VU	18	P	26/07/2018	Low Woodland of Allocasuarina fraseriana, Banksia grandis, B. attenuata, B. menziesii over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Jacksonia floribunda over Low Shrubland of Hibbertia hypericoides, H. acerosa, H. rh		SL_LO_GE			SAND	GREY	WLL_DRND
102319	13999	Conospermum undulatum	T	VU	18	Q	21/12/2006	Open Low Woodland	MOIST	FL_PLAIN			SAND	GREY	
102305	13999	Conospermum undulatum	T	VU	18	B	17/08/1997	Lot cleared.	DRY	FLAT	LATERITE		SAND	WHITE	
122931	13999	Conospermum undulatum	T	VU	18	W	6/10/2016	Disturbed regrowth.		FLAT			SAND	GREY	WLL_DRND
102307	13999	Conospermum undulatum	T	VU	18	D	26/07/2018	Low Woodland of Allocasuarina fraseriana, Banksia grandis, B. attenuata, B. menziesii over Tall Shrubland of Adenanthos cygnorum over Shrubland of Xanthorrhoea preissii, Jacksonia floribunda over Low Shrubland of Hibbertia hypericoides, H. acerosa, H. rh		SL_LO_GE			SAND	GREY	WLL_DRND
102308	13999	Conospermum undulatum	T	VU	18	E	21/12/2006	Low woodland A / low forest A over dwarf scrub D and low heath D	MOIST	FLAT	LATERITE		SAND	GREY	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
122889	13999	Conospermum undulatum	T	VU	18	U	19/10/2022	Highly degraded with grassy weed species.	MOIST	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102309	13999	Conospermum undulatum	T	VU	18	F	21/12/2006	Low woodland A / low forest A over dwarf scrub D and low heath D	MOIST	FLAT	LATERITE		SAND	GREY	
102304	13999	Conospermum undulatum	T	VU	18	A	15/10/2018	Banksia woodland	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102317	13999	Conospermum undulatum	T	VU	18	O	15/10/2018	Banksia woodland	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102316	13999	Conospermum undulatum	T	VU	18	N	11/11/2022	Condition of vegetation community ranged from Degraded to Very Good. High litter layer occurred throughout. Forest of Eucalyptus marginata, Allocasuarina fraseriana and occ. Corymbia calophylla over Low Woodland of Banksia menziesii, B. attenuata and Ade	DRY	FL_PLAIN	LATERITE	GRVL_10	LOAM_SND	GREY	WLL_DRND
120190	13999	Conospermum undulatum	T	VU	33		1/07/2010		MOIST	FL_PLAIN			SAND	GREY	
123050	13999	Conospermum undulatum	T	VU	34		2/10/2014	Habitat condition: Excellent to Good	MOIST	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102310	13999	Conospermum undulatum	T	VU	18	G	20/01/2006	Lambertia multiflora, Anigozanthus manglesii; banksia woodland			LATERITE		SAND	YELLOW	
131969	13999	Conospermum undulatum	T	VU	18	Z	3/10/2023			FLAT			SAND		
102358	13999	Conospermum undulatum	T	VU	4	R	15/10/2018		MOIST	SLOPE	LATERITE		SAND		
91557	13999	Conospermum undulatum	T	VU	7		12/08/1997	bulldozed/degraded-just a weedy verge and fenced orchards.		FLAT			SAND	YELLOW	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
122909	13999	Conospermum undulatum	T	VU	18	V	11/11/2022	Two similar communities were described along this section of road verge. A high litter layer was seen throughout. 1. Degraded to Good condition. Forest of Corymbia calophylla, Eucalyptus marginata, Allocasuarina fraseriana over Low Open Woodland of Banks	MOIST	FLAT			SAND	CREAM	WLL_DRND
102265	13999	Conospermum undulatum	T	VU	10	A	12/10/2023		DRY	FLAT		GRVL_10	SAND	WHITE	WLL_DRND
102312	13999	Conospermum undulatum	T	VU	18	I	9/09/2019								
102269	13999	Conospermum undulatum	T	VU	10	E	30/07/2020	Open low woodland. Many dead mature Banksias observed, dieback? drought?	DRY	FL_PLAIN			SAND	GREY	
132073	13999	Conospermum undulatum	T	VU	10	K	28/11/2019	Original habitat description on report form for population 30.							
102313	13999	Conospermum undulatum	T	VU	18	J	10/10/2002	Anigozanthus manglesii, Adenanthos cygnorum; Jarrah/Marri/Allocasuarina woodland		FLAT	LATERITE		SAND	YELLOW	
102314	13999	Conospermum undulatum	T	VU	18	K	3/10/2023								
91552	13999	Conospermum undulatum	T	VU	3		29/09/2016	The reserve is highly impacted by uncontrolled recreational use. Several large areas on the northern side of the reserve are now completely degraded.		FLAT			SAND	GREY	
102267	13999	Conospermum undulatum	T	VU	10	C	18/12/2019	Original habitat description on report form for population 30.							
91556	13999	Conospermum undulatum	T	VU	6		18/08/1997	Thomasia grandiflora, Acacia pulchella		FLAT			CLAY_SND	YELLOW	
102273	13999	Conospermum undulatum	T	VU	11	A	1/12/2005	swamp		FLAT			SAND		
102271	13999	Conospermum undulatum	T	VU	10	G	19/10/2022	Open Low Woodland. Adenanthos cygnorum	MOIST	FL_PLAIN			SAND	GREY	
131110	13999	Conospermum undulatum	T	VU	10	I	19/09/2019	Original habitat description on report form for population 30.							

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102362	13999	Conospermum undulatum	T	VU	4	V	1/10/2008		DRY	FLAT	LATERITE	GRVL_30	SAND	BROWN	
102266	13999	Conospermum undulatum	T	VU	10	B	10/03/2000	Vegetation in moderate condition.	DRY	FLAT		GRVL_30	SAND	BROWN	
102270	13999	Conospermum undulatum	T	VU	10	F	13/12/2006	Low woodland A over dwarf scrub C. Disturbed. Weeds, drainage and high recreational pressure.	MOIST	FL_PLAIN			SAND	GREY	
102277	13999	Conospermum undulatum	T	VU	11	E	23/01/2024	A patch of vegetation can be seen from Brentwood Rd on the SW side of the house that still occurs near the site of C.undulatum recorded in 2015. However, it appears much reduced in area and canopy. Native species seen include Eucalyptus todtiana and Xa	DRY	SL_MI_GE			SAND	GREY	WLL_DRND
102274	13999	Conospermum undulatum	T	VU	11	B	23/01/2024	Property is completely cleared of native understorey vegetation. Only the road reserve has not been parkland cleared.	DRY	SL_MI_GE			SAND	GREY	WLL_DRND
134969	13999	Conospermum undulatum	T	VU	4	W	2/10/2019								
131111	13999	Conospermum undulatum	T	VU	10	J	19/09/2019	Original habitat description on report form for population 30.							
122869	13999	Conospermum undulatum	T	VU	18	T	10/11/2020		MOIST	FLAT	LATERITE	GRVL_10	SAND	YELLOW	WLL_DRND
91549	13999	Conospermum undulatum	T	VU	27		10/08/2006			FLAT			SAND	GREY	
123129	13999	Conospermum undulatum	T	VU	18	Y	10/11/2020		MOIST	FLAT	LATERITE	GRVL_10	SAND	YELLOW	WLL_DRND
102348	13999	Conospermum undulatum	T	VU	4	H	2/10/2019	Banksia woodland/forest. Lambertia multifora, Banksia menziesii, Eucalyptus marginata, Adenanthos cygnorum	MOIST	FL_PLAIN			SAND	GREY	
102311	13999	Conospermum undulatum	T	VU	18	H	24/09/2020	Habitat graded from Good to Excellent condition	DRY	FLAT	LATERITE		SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
123049	13999	Conospermum undulatum	T	VU	10	H	12/10/2023	Habitat condition: Very good, degraded Partial clearing and many weed present but high species diversity in understorey and orchids present, degraded to the north west boundary near the oval where there is less understorey	MOIST	FLAT		GRVL_10	SAND	BROWN	WLL_DRND
102346	13999	Conospermum undulatum	T	VU	4	F	15/11/2006	Cleared of vegatation.		FLAT			SAND	GREY	
102361	13999	Conospermum undulatum	T	VU	4	U	25/07/2008			SLOPE			SAND	YELLOW	
102352	13999	Conospermum undulatum	T	VU	4	L	15/11/2006	Degraded road verge. Open low woodland	MOIST	FL_PLAIN			SAND	GREY	
102347	13999	Conospermum undulatum	T	VU	4	G	25/07/2008	Jarrah/marri forest	DRY	SLOPE		GRVL_30	SAND	BROWN	
102355	13999	Conospermum undulatum	T	VU	4	O	5/11/2020	Much of the remnant vegetation where the plants occur is in Excellent condition locally, but there are areas of Degraded around sheds. Vegetation is: Open Forest of Eucalyptus marginata, Allocasuarina fraseriana, Banksia attenuata, B. menziesii, Persooni	DRY	FLAT			SND_LOAM	GREY	WLL_DRND
102345	13999	Conospermum undulatum	T	VU	4	E	12/11/2006	Cleared of vegetation.							
102275	13999	Conospermum undulatum	T	VU	11	C	24/08/2005	Adenanthos cygnorum, Lysinema ciliatum, Hibbertia hypericoides, Lambertia multiflora, Eucalyptus marginata	DRY	FLAT			SAND	CREAM	
102349	13999	Conospermum undulatum	T	VU	4	I	2/10/2019								
102350	13999	Conospermum undulatum	T	VU	4	J	2/10/2019	Banksia woodland		FLAT			SAND	GREY	
102344	13999	Conospermum undulatum	T	VU	4	D	25/07/2008		DRY	FLAT			SAND	YELLOW	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102276	13999	Conospermum undulatum	T	VU	11	D	24/08/2005	White/grey sand over yellow sand. Lambertia multiflora, Eucalyptus marginata, Allocasuarina fraseriana	DRY	FLAT			SAND	CREAM	
106381	13999	Conospermum undulatum	T	VU	11	F	24/08/2005	White/grey sand over yellow sand. Lambertia multiflora, Eucalyptus marginata, Allocasuarina fraseriana	DRY	FLAT			SAND	CREAM	
102343	13999	Conospermum undulatum	T	VU	4	C	18/08/1997	Lot cleared.		FLAT			SAND	YELLOW	
102351	13999	Conospermum undulatum	T	VU	4	K	21/08/1997	Banksia woodland.		FLAT			SAND	GREY	
102342	13999	Conospermum undulatum	T	VU	4	B	5/11/2020	The best quality of remnant vegetation on Lot 30 was: Open Forest of Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii, B. attenuata over Shrubland of Xanthorrhoea preissii, X. brunonis, Lambertia multiflora over Low Shrubland of Hibberti	DRY	FLAT			SND_LOAM	GREY	WLL_DRND
102341	13999	Conospermum undulatum	T	VU	4	A	6/12/2005	Banksia woodland/forest. Damperia linearis, Eucalyptus marginata, Allocasuarina fraseriana.	DRY	FLAT			SAND	WHITE	
102360	13999	Conospermum undulatum	T	VU	4	T	6/12/2005			FLAT					
91555	13999	Conospermum undulatum	T	VU	5		25/07/2008	Soil Condition :Saline; Jarrah/marri woodland.		FLAT			CLAY_SND	BROWN	
102356	13999	Conospermum undulatum	T	VU	4	P	20/10/2005	Jarrah/Marri/Sheoak woodland. Banksia attenuata, Hakea undulata, Nuytsia floribunda, Isopogon drummondii.	DRY	FLAT			SAND	WHITE	
102268	13999	Conospermum undulatum	T	VU	10	D	18/08/2021	jarrah/marri woodland; vegetation in good condition	DRY	FLAT		GRVL_30	SAND	BROWN	WLL_DRND
135551	13999	Conospermum undulatum	T	VU	17	C	5/12/2023		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
135553	13999	Conospermum undulatum	T	VU	17	D	5/12/2023		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102357	13999	Conospermum undulatum	T	VU	4	Q	6/12/2005	Jarrah, Marri and Sheoak bushland. Xanthorrhoea preissii, Stirlingia latifolia, Allocasuarina fraseriana	DRY	FLAT			SAND		
102353	13999	Conospermum undulatum	T	VU	4	M	15/11/2006	Jarrah/Allocasuarina woodland.	MOIST	FL_PLAIN			SAND	GREY	
102354	13999	Conospermum undulatum	T	VU	4	N	6/12/2005	Jarrah/Allocasuarina woodland. Block partly developed. Xanthorrhoea pressii, Eucalyptus marginata	DRY	FLAT			SAND	WHITE	
102359	13999	Conospermum undulatum	T	VU	4	S	25/07/2008		MOIST	FLAT			SAND	YELLOW	
135550	13999	Conospermum undulatum	T	VU	17	B	16/01/2013								
91544	13999	Conospermum undulatum	T	VU	17	A	15/11/2006								
91550	13999	Conospermum undulatum	T	VU	28		15/10/2018		DRY	FLAT		GRVL_50	LOAM	GREY	WLL_DRND
111231	13999	Conospermum undulatum	T	VU	32	B	7/12/2016	The road verge is frequently slashed/mowed. Small remnant bushland patches occur on the adjoining freehold property and continue onto the road reserve. No vegetation structure is given here as a full description has been entered onto Sheet # 80789, for t	MOIST	FLAT			SAND	GREY	WLL_DRND
111229	13999	Conospermum undulatum	T	VU	32	A	7/12/2016	Habitat is disturbed with frequent slashing and possibly past parkland clearing. Small patches or remnant bushland is in good condition and may have been a TEC 20a continuation of that within the nearby Hawkevale Reserve. There are indications of either	MOIST	FLAT			SAND	GREY	WLL_DRND
102325	13999	Conospermum undulatum	T	VU	19	D	22/09/2021	Banksia woodland	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102365	13999	Conospermum undulatum	T	VU	8	B	7/10/2015	Woodland of Corymbia calophylla and Eucalyptus marginata over Xanthorrhoea preissii, Hakea lissocarpa, Mesomelaena pseudostygia, Tetraria octandra, Hibbertia hypericoides		FLAT		GRVL_10	SAND	GREY	WLL_DRND
91558	13999	Conospermum undulatum	T	VU	9	A	24/10/2006	Cleared		FLAT		GRVL_30	SAND		
102324	13999	Conospermum undulatum	T	VU	19	C	22/09/2021	Banksia woodland, slightly degraded in North Eastern corner.	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102326	13999	Conospermum undulatum	T	VU	19	E	1/12/2005		MOIST	SLOPE			SAND	YELLOW	
91545	13999	Conospermum undulatum	T	VU	2		18/01/2021	Woodland of Eucalyptus marginata, Banksia attenuata, B. menziesii, B. grandis, Allocasuarina fraseriana, Nuytsia floribunda over Shrubland of Adenanthos cygnorum, Lambertia multiflora, Xanthorrhoea preissii, Acacia pulchella over Low Shrubland of Hibbert		SLOPE			SAND	GREY	WLL_DRND
122930	13999	Conospermum undulatum	T	VU	9	B	26/03/2015	Habitat condition: Very good to completely degraded Forrestfield Complex Past clearance has occurred and fire breaks etc have vaused weed incursion	DRY	FLAT	LATERITE	GRVL_30	SND_LOAM	YEL_BRWN	WLL_DRND
102323	13999	Conospermum undulatum	T	VU	19	B	22/09/2021	Banksia attenuata and/or Eucalyptus marginata on the eastern side of the Swan Coastal Plain	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102322	13999	Conospermum undulatum	T	VU	19	A	5/11/2001	mostly cleared.		FLAT		GRVL_30	SAND		

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102364	13999	Conospermum undulatum	T	VU	8	A	1/09/2022	Banksia woodland. Anigozanthus manglesii, Adenanthos cygnorum, Verticordia sp, Allocasuarina humilis Southern section of the property was recently burnt, many Grassey and Woody weeds are present.	DRY	FLAT			SAND	BROWN	WLL_DRND
102335	13999	Conospermum undulatum	T	VU	23	B	4/12/2024		DRY	FLAT			SAND	WHITE	
102336	13999	Conospermum undulatum	T	VU	23	C	4/06/2009	Dom sp: Adenanthos cygnorum, Stirlingia latifolia and Isopogon drummondii.	MOIST	FLAT			SAND		
91546	13999	Conospermum undulatum	T	VU	21		4/11/2019	Eucalyptus marginata subsp. marginata Woodland over, Banksia menziesii Low woodland over Allocasuarina humilis scattered tall shrubs over, Xanthorrhoea preissii Sparse shrubland. Hibbertia hypericoides, Bossiaea eriocarpa, Banksia dallanneyi var. dallann	DRY	FLAT			SND_LOAM	BROWN	WLL_DRND
102334	13999	Conospermum undulatum	T	VU	23	A	6/05/2020	Banksia Woodland	MOIST	FLAT					WLL_DRND
91542	13999	Conospermum undulatum	T	VU	12		18/10/2022	Xanthorrhoea preissii, Banksia nivea, Mesomelaena tetragona, Hakea undulata, Lechenaultia biloba	DRY	FLAT			SAND	WHITE	WLL_DRND
102331	13999	Conospermum undulatum	T	VU	22	A	21/12/2020	Also Conostylis sp. Leucopogon pulchellus.	DRY	SLOPE	SANDSTN		SAND	BROWN	WLL_DRND
102332	13999	Conospermum undulatum	T	VU	22	B	2/10/2003	Also conostylis sp. Leucopogon pulchellus.	DRY	SLOPE	SANDSTN		SAND	BROWN	
102328	13999	Conospermum undulatum	T	VU	20	A	30/08/2000	Anigozanthos sp.		FLAT			SAND	GREY	
102258	13999	Conospermum undulatum	T	VU	1	E	12/08/2020	Jarah/Allocasuarina woodland/closed sedgeland. Weed invasion on edges, not threat.	DRY	FLAT			SAND	YELLOW	
135369	13999	Conospermum undulatum	T	VU	1	O	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102329	13999	Conospermum undulatum	T	VU	20	B	15/10/2018	Vegetation relatively intact over most of the reserve but signs of past land use. (gravel pit) some parts more modified than others. Plants dont occur in damp areas							
127929	13999	Conospermum undulatum	T	VU	1	M	12/08/2020			FLAT	LATERITE		SAND		WLL_DRND
135370	13999	Conospermum undulatum	T	VU	1	P	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102254	13999	Conospermum undulatum	T	VU	1	A	15/06/2020	Jarrah, marri and Allocasuarina fraseriana woodland. Xanthorrhoea preissii, X.gracilis, Daviesia decurrens	DRY	FLAT			SAND	YELLOW	WLL_DRND
91548	13999	Conospermum undulatum	T	VU	26		28/08/2006	Open Forest. Dryandra lindleyana, Hakea stenocarpa	DRY	FLAT			LOAM	GREY	
135371	13999	Conospermum undulatum	T	VU	1	Q	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102260	13999	Conospermum undulatum	T	VU	1	G	24/02/2020	Healthy Banksia woodland.	DRY	FLAT			SAND	GREY	
102261	13999	Conospermum undulatum	T	VU	1	H	3/10/2002	Healthy Banksia woodland.	DRY	FLAT			SAND	GREY	
102259	13999	Conospermum undulatum	T	VU	1	F	24/02/2020	Healthy Banksia woodland. Banksia sp., Hibbertia hypericoides, Labichea lanceolata	DRY	FLAT			SAND	GREY	
102263	13999	Conospermum undulatum	T	VU	1	J	24/02/2020		DRY	FLAT			SAND	GREY	
102262	13999	Conospermum undulatum	T	VU	1	I	20/04/2020	Eucalyptus marginata, Allocasuarina sp., Hakea sulcata, Daviesia nudiflora, Amphipogon turbinatus.	DRY	SLOPE	LATERITE		SAND		WLL_DRND
127909	13999	Conospermum undulatum	T	VU	1	L	5/07/2022		DRY				CLAY_SND		WLL_DRND
102256	13999	Conospermum undulatum	T	VU	1	C	22/08/2023	Soil Condition :Saline; Jarrah, marri woodland.	DRY	SLOPE			CLAY_SND		WLL_DRND
128229	13999	Conospermum undulatum	T	VU	1	N	24/02/2020	Other parts of the property may support better vegetation and Conospermum plants.							
123069	13999	Conospermum undulatum	T	VU	1	K	4/02/2020		DRY				CLAY_SND		WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
102257	13999	Conospermum undulatum	T	VU	1	D	28/02/2023	Marri & weeds.Mainly planted vegetation.	DRY	SLOPE			SAND	YELLOW	
135389	13999	Conospermum undulatum	T	VU	1	R	5/12/2023	*Gladiolus caryophyllaceus	DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND
102255	13999	Conospermum undulatum	T	VU	1	B	16/09/2020	Jarrah, marri open woodland. Hibbertia hypericoides, Lescenaultia biloba, Sedge sp.	DRY	FLAT			LOAM_SND	YEL_BRWN	WLL_DRND
91547	13999	Conospermum undulatum	T	VU	25		17/08/2022	Very good to excellent condition. Only a small area of sand over laterite exisits in the reserve so suitable habitat is limited to less than 0.5ha	MOIST	FLAT	LATERITE	GRVL_10	LOAM_SND	GREY	WLL_DRND
123051	13999	Conospermum undulatum	T	VU	35		15/05/2018	Area degraded, Banksa sessilis have died, perhaps due to old age as are quite large	DRY				SND_LOAM	BROWN	WLL_DRND
87068	50708	Cyanothamnus tenuis	4		10		23/09/1990	Eucalyptus overstorey and many introduced weeds (Watsonia etc)		SLOPE					
93207	16245	Cyathochaeta teretifolia	3		22		18/09/1999	HabDes:Plants in cleared track.					PEAT	BLACK	
99452	5505	Darwinia apiculata	T	EN	1	D	10/11/2011								
99449	5505	Darwinia apiculata	T	EN	1	A	31/10/2023	The area consists of healthy native vegetation however there is a lot of weed encroachment (Ursinia anthemoides, Briza maxima, Gladiolus sp.).	DRY						WLL_DRND
117809	5505	Darwinia apiculata	T	EN	1	E	13/05/2020	Occurs in small weed infested pockets surrounded by tracks between housing, water reserve and conservation park and in more extensively vegetated corner block at Alpine/Yorna Rd intersection. 200m of the narrow strip was burnt in prescribed burn MDG 552	MOIST	FLAT	LATERITE	GRVL_10	LOAM	BROWN	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
99450	5505	Darwinia apiculata	T	EN	1	B	18/10/2022	The area consists of healthy native vegetation however there is a lot of weed encroachment. Prescribed burn in Spring 2011(MDG 552E / Kalamunda R/P) burnt part of population. Prior to that was a January 1997 wildfire.	DRY	CREST	LATERITE	GRVL_50		BROWN	WLL_DRND
131629	5505	Darwinia apiculata	T	EN	1	F	25/06/2019	The area consists of healthy native vegetation however there is a lot of weed encroachment. Prescribed burn in Spring 2011(MDG 552E / Kalamunda R/P) burnt part of population (8 YSLF). Prior to that was a January 1997 wildfire.	DRY	CREST	LATERITE	GRVL_50		BROWN	WLL_DRND
99451	5505	Darwinia apiculata	T	EN	1	C	13/05/2020	Plants occur in a 50m stretch of very good habitat, the other 400m is degraded.	MOIST	FLAT	LATERITE	GRVL_10	LOAM	BROWN	WLL_DRND
87746	5505	Darwinia apiculata	T	EN	2		10/07/2020		DRY	SLOPE	GRANITE	GRVL_30	SND_LOAM	BROWN	WLL_DRND
99493	5523	Darwinia pimelioides	4		2	A	12/10/1992			SLOPE	GRANITE		LOAM	BROWN	
99494	5523	Darwinia pimelioides	4		2	B	29/09/1999	DomSp: Hypocalymma angustifolium, Hakea lissocarpha, Hakea cristata, Hakea myrtoides, Synaphea pinnata	MOIST	SLOPE	GRANITE		CLA_LOAM	RED_BRWN	
99503	5523	Darwinia pimelioides	4		7	B	31/08/1999	DomSp: Acacia pulchella, Allocasuarina humilis, Grevillea pilulifera, Grevillea bipinnatifida...	MOIST	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
99502	5523	Darwinia pimelioides	4		7	A	15/03/1987								
87781	5523	Darwinia pimelioides	4		3		5/12/1996	DomSp: Acacia pulchella		SLOPE	GRANITE	GRVL_30	CLAY	PINK	
87784	5523	Darwinia pimelioides	4		9		1/09/1999	DomSp: Melaleuca sp., Boronia sp., Calothamnus sp.	MOIST	OUTCROP	GRANITE		CLA_LOAM	YEL_BRWN	
99135	4452	Diplolaena andrewsii	T	EN	2	E	20/07/2020	Habitat cond: Degraded. Dom sp: Eucalyptus wandoo, Corymbia calophylla, Hovea pungens, Watsonia meriana sp	DRY	OUTCROP	GRANITE		LOAM	BROWN	
109239	4452	Diplolaena andrewsii	T	EN	2	H	2/06/2020		MOIST	SLOPE	GRANITE		CLA_LOAM	BROWN	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
99132	4452	Diplolaena andrewsii	T	EN	2	A	3/07/2020	Habitat cond: Very Good-Good. Dom sp: Eucalyptus wandoo, Corymbia calophylla, Hovea pungens, Watsonia sp.	DRY	OUTCROP	GRANITE		CLA_LOAM	BROWN	
99136	4452	Diplolaena andrewsii	T	EN	2	F	3/09/2019		MOIST	OUTCROP	GRANITE				
109237	4452	Diplolaena andrewsii	T	EN	3		15/06/2020	Area last burnt in prescribed burn PHS 162 / JFNP5 in May 2020 however very patchy burn and most of Pop 3 remained.	DRY	SLOPE	GRANITE	GRVL_100	SND_LOAM	BROWN	WLL_DRND
99133	4452	Diplolaena andrewsii	T	EN	2	C	21/10/2011	Heath with Trymalium ledifolium and Hibbertia sp.	DRY	OUTCROP	GRANITE		SND_LOAM	BROWN	
109238	4452	Diplolaena andrewsii	T	EN	2	G	3/09/2019	Closed to open shrubland of Trymalium ledifolium to Wandoo/Marri woodland. Localised heavy weed infestation. Walk trail goes through population.	DRY	OD_CREEK	GRANITE				WLL_DRND
99134	4452	Diplolaena andrewsii	T	EN	2	D	9/06/2020	There are 2 locations of plants within this population on either side of a ridge. Clump 1 (found by K.Bettink 2010) is about 350m from the tunnel, Clump 2 (the original location of 2D) is the other side of the ridge, just around the bend in road, approxi	DRY	SLOPE	GRANITE		CLA_LOAM	BROWN	
131909	4452	Diplolaena andrewsii	T	EN	2	J	7/08/2023	The plants are growing among loose dolerite rocks.	MOIST	OU_SLOPE	DOLERITE	GRVL_10			WLL_DRND
109240	4452	Diplolaena andrewsii	T	EN	2	I	20/07/2020	Soil is pale brown/grey along the banks of Jane Brook. Weathered granite rock.	DRY	OD_DRGLN	GRANITE		SND_LOAM	BROWN	
132009	4452	Diplolaena andrewsii	T	EN	2	K	7/08/2023	The plants are growing among loose dolerite rocks.	MOIST	OU_SLOPE	DOLERITE	GRVL_10			WLL_DRND
93853	17150	Eremophila glabra subsp. chlorella	T	EN	7		22/11/2023	Melaleuca viminea & M. acutifolia Tall Open Scrub over Gahnia trifida & Juncus kraussii Very Open Sedgeland and weeds.	DRY	CD_DMPLD			CLAY	BLACK	SEASINUN
101700	50985	Grevillea dissectifolia	3		2	A	18/10/1998	Open marri woodland. Xanthorrhoea preissii.	DRY	SLOPE	GRANITE		CLA_LOAM	YEL_BRWN	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
101701	50985	Grevillea dissectifolia	3		2	B	18/10/1998	DomSp:Dryandra armata, Dryandra lindleyana, Grevillea pilulifera, Xanth preissii	DRY	OUTCROP	GRANITE		CLA_LOAM	YEL_BRWN	
90748	13086	Grevillea pimeleoides	4		3		14/09/1992	Viminaria juncea, Asterolasia pallida, Hakea trifurcata. Edge of the valley.	MOIST	SLOPE	GRANITE		LOAM	BROWN	
130291	2107	Grevillea thelemanniana	T	CR	2	G	9/01/2015	Site not accessed therefore no habitat data recorded.							
101696	2107	Grevillea thelemanniana	T	CR	1	V	24/10/2014	Condition of habitat is considered 'Degraded' to 'Good'. Occasional Melaleuca rhaphiophylla, Eucalyptus rudis and Acacia saligna over Tall Shrubland of Callitris pyramidalis, Melaleuca viminea, M. acutifolia, M. osullivanii and M.brevifolia over Open Se	MOIST				CLAY_SND	BROWN	SEASINUN
101680	2107	Grevillea thelemanniana	T	CR	1	F	17/08/2021		DRY	FLAT		GRVL_30	SND_LOAM	GREY	WLL_DRND
101682	2107	Grevillea thelemanniana	T	CR	1	H	13/11/2013	Sand over clay.	DRY	FLAT			SAND	BROWN	WLL_DRND
101687	2107	Grevillea thelemanniana	T	CR	1	M	13/11/2013		DRY	FLAT			SAND	BROWN	WLL_DRND
129650	2107	Grevillea thelemanniana	T	CR	1	AA	9/01/2015	Plants located in degraded roadside vegetation.							
129653	2107	Grevillea thelemanniana	T	CR	1	AA	9/01/2015	Plants located in degraded roadside vegetation.							
101681	2107	Grevillea thelemanniana	T	CR	1	G	12/09/2014	Very good condition. Excellent in the centre.	INUNDATE	FLAT			SND_CLAY	BROWN	SEASINUN
113149	2107	Grevillea thelemanniana	T	CR	1	Y	13/09/2012	Herbland of Centrolepis aristata, Utricularia multifida, Philydrella pygmaea, Drosera menziesii subsp. pencillaris, D. menziesii subsp. menziesii, Tribonathes australis and Velleia trinervis. Weeds include *Moraea miniata, *Lotus angustissimus, *Romulea	MOIST	FLAT			SND_LOAM	GREY	SEASINUN

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
101688	2107	Grevillea thelemanniana	T	CR	1	N	9/01/2015	Property not accessed therefore no habitat description recorded.							
101683	2107	Grevillea thelemanniana	T	CR	1	I	16/01/2015	Heath comprising the following dominant species: Callitris pyramidalis, Melaleuca viminea, M.brevifolia, M.acutifolia, Hypocalymma angustifolium and Acacia lasiocarpa. Block is disturbed with patches of good condition heath. Condition is Degraded to Goo	MOIST	FLAT			SCL_LOAM	GREY	
101690	2107	Grevillea thelemanniana	T	CR	1	P	18/10/1990		MOIST	FLAT			CLAY_SND	BROWN	
101693	2107	Grevillea thelemanniana	T	CR	1	S	18/02/2020	Habitat was regenerating from the 2015 fire and consisted of Melaleuca acutifolia, Hypocalymma angustifolium, Acacia lasiocarpa, Grevillea thelemanniana, Callitris pyramidalis, Burchardia bairdiae, Verticordia densiflora and Acanthocarpus preissii.	MOIST	FLAT			CLAY	GREY	SEASINUN
101689	2107	Grevillea thelemanniana	T	CR	1	O	16/01/2015	Heath of Callitris pyramidalis, Hypocalymma angustifolium, Astartea affinis, Melaleuca seriata, M.viminea, Acacia pulchella, Banksia telmatiaea, Grevillea thelemanniana subsp. thelemanniana over Gahnia trifida, Lepidosperma sp. over dried Poaceae and her	MOIST	FLAT			SND_LOAM	YELLOW	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
101684	2107	Grevillea thelemanniana	T	CR	1	J	16/01/2018	This lot is in good to completely degraded condition. Most of the lot is degraded. lots of bare ground. Horses being agisted on the lot (requires investigation) signs of rabbits and significant weed colonisation mainly paddock grasses in the cleared area	MOIST	FLAT			CLAY_SND	BROWN	
101685	2107	Grevillea thelemanniana	T	CR	1	K	7/11/2014								
84892	1469	Haemodorum loratum	3		11		1/11/1995	Dryandra lindleyana, Eremaea fimbriata, Tetraria capillaris, Mesomelaena pseudostygia.		FLAT			SAND	YELLOW	
84900	1469	Haemodorum loratum	3		8		19/11/1984	Roadside strip of Jarrah and Banksia woodland with low shrub understorey.					SAND	GREY	
100099	6686	Halgania corymbosa	3		3	A	16/10/1977	Grows only in deep valleys and near the river.			GRANITE				
100100	6686	Halgania corymbosa	3		3	B	16/10/1977	Grows only in deep valleys and near the river.			GRANITE				
100101	6686	Halgania corymbosa	3		3	C	16/10/1977	Grows only in deep valleys and near the river.			GRANITE				
119969	19272	Johnsonia pubescens subsp. cygnorum	2		7	A	6/11/2019		DRY	FLAT			SAND	GREY	WLL_DRND
119990	19272	Johnsonia pubescens subsp. cygnorum	2		7	B	7/10/2019		DRY	CREST			SAND	GREY	WLL_DRND
119995	19272	Johnsonia pubescens subsp. cygnorum	2		7	G	24/09/2019		DRY	CREST			SAND		WLL_DRND
119993	19272	Johnsonia pubescens subsp. cygnorum	2		7	E	25/09/2019		DRY	CREST			SAND	BLACK	WLL_DRND
119992	19272	Johnsonia pubescens subsp. cygnorum	2		7	D	30/10/2019		DRY	CREST			SAND	GREY	WLL_DRND
119991	19272	Johnsonia pubescens subsp. cygnorum	2		7	C	27/10/2019		DRY						
119994	19272	Johnsonia pubescens subsp. cygnorum	2		7	F	5/10/2019		DRY	CREST			SAND		WLL_DRND
119949	19272	Johnsonia pubescens subsp. cygnorum	2		6		20/09/2019		DRY	FLAT		GRVL_10	SAND	GREY	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
110729	942	Lepidosperma rostratum	T	EN	2	E	16/01/2015	Open Shrubland of Melaleucua acutifolia over low shrubland of Hypocalymma angustifolium, Callitris pyramidalis, Melaleuca viminea, Melaleuca brevifolia and Melaleuca acutifolia over low open shrubland of Grevillea thelemanniana ssp thelemanniana, acacia							
96942	942	Lepidosperma rostratum	T	EN	2	B	13/09/2012	Herbland of Utricularia multifida, Philydrella pygmaea, Brachyscome iberidifolia, Drosera menziesii subsp. pencillaris, Tribonathes australis & Velleia trinervis. Weeds include *Moraea miniata, *Lotus angustissimus, *Romulea rosea, *Briza minor, *Ehrhar	MOIST	FLAT	QUARTZ		CLA_LOAM	BROWN	SEASINUN
96941	942	Lepidosperma rostratum	T	EN	2	A	18/02/2020	The habitat was regenerating after a wildfire in December 2015. Previously the area was described as a Sedge dominated clay pan. Species now dominating before the fire in January 2020 were Melaleuca acutifolia, Verticordia densiflora, Hypocalymma angust	INUNDATE	FL_CLYPN			CLAY_SND	BROWN	
93810	17106	Macarthuria keigheryi	T	EN	10		30/11/2017	Open Marri woodland. Highly degraded. Virtually no understorey present.							
103577	17106	Macarthuria keigheryi	T	EN	5	B	1/04/2014	Pasture weeds present.		FLAT			SAND	GREY	
132249	17106	Macarthuria keigheryi	T	EN	6	E	31/08/2020								
114589	17106	Macarthuria keigheryi	T	EN	6	D	12/09/2023		DRY	FLAT			SAND	GREY	WLL_DRND
103581	17106	Macarthuria keigheryi	T	EN	6	B	23/11/2009						SAND	GREY	
103582	17106	Macarthuria keigheryi	T	EN	6	C	23/11/2009						SAND	GREY	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
103580	17106	Macarthuria keigheryi	T	EN	6	A	23/03/2018	No sign of fire Weeds present Diback present	DRY	FLAT			SAND	GREY	WLL_DRND
93812	17106	Macarthuria keigheryi	T	EN	4		28/09/2006	Banksia woodland. Patersonia occidentalis, Alexgeorgea nitens, Melaleuca seriata.	DRY	FLAT			SAND	GREY	
103578	17106	Macarthuria keigheryi	T	EN	5	C	6/09/2019						SAND	GREY	
103576	17106	Macarthuria keigheryi	T	EN	5	A	22/09/2021		DRY	FLAT	LATERITE	GRVL_10	SAND	YELLOW	WLL_DRND
121069	17106	Macarthuria keigheryi	T	EN	5	D	5/12/2018		DRY					GREY	
103574	17106	Macarthuria keigheryi	T	EN	3	B	20/09/2006	Kingia australis, Stirlingia latifolia, Hibbertia hypericoides, Stipa compressa, Dasypogon bromelifolius.	DRY	FL_PLAIN			SAND	GREY	
103573	17106	Macarthuria keigheryi	T	EN	3	A	25/06/2024	2024 - The vegetation has been impacted by the recent 8 month drought from spring 2023 to early winter 2024, but it appears to be confined to a few species i.e. Allocasuarina fraseriana, Banksia dallanneyi, B. menziesii, Adenanthos cygnorum. Some impact		FLAT			SAND		WLL_DRND
89461	8163	Pithocarpa corymbulosa	3		3		14/04/1996	In Marri woodland, with above species and Hakea sp. and other shrubs.		SLOPE	GRANITE	GRVL_30	LOAM	RED_BRWN	
89460	8163	Pithocarpa corymbulosa	3		2		28/01/1986	Near granite outcrops.			GRANITE				
100588	8163	Pithocarpa corymbulosa	3		7	A	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
100591	8163	Pithocarpa corymbulosa	3		7	D	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
89462	8163	Pithocarpa corymbulosa	3		4		15/09/1996	With above species, and Hemigenia sp. and other shrubs, with very few Corymbia calophylla (Marri).			GRANITE		LOAM_SND	BROWN	
100589	8163	Pithocarpa corymbulosa	3		7	B	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	
100590	8163	Pithocarpa corymbulosa	3		7	C	14/05/2000	VegClas:Scattered Marri w/t dense granitic shrubs.	DRY	OUTCROP	GRANITE		CLA_LOAM	RED_BRWN	

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
89592	11132	Platysace ramosissima	3		4		4/11/1994	Patersonia occidentalis, Dasypogon occidentalis, Dasypogon bromeliifolius, Mesomelaena tetragona.		FLAT			LOAM_SND	GREY	SEASINUN
94013	17606	Schoenus griffinianus	4		5		8/07/2006	On the boundary of Southern River and Ridge Hill Shelf soil and landform units.							
84536	1008	Schoenus pennisetis	3		7		4/11/1995	On edge of wetland.							
89471	8212	Senecio leucoglossus	4		2		14/09/1992			RIDGE	GRANITE		LOAM	YELLOW	
89469	8212	Senecio leucoglossus	4		1		21/05/1992		DRY	OPEN_DPN	GRANITE		LOAM	YELLOW	
89473	8212	Senecio leucoglossus	4		4		1/09/1978		DRY	OPEN_DPN	GRANITE		LOAM	YELLOW	
100542	7756	Stylidium longitubum	4		8	B	31/10/2001	DomSp: Villarsia capitata	MOIST	OD_SWAMP			CLAY		
100541	7756	Stylidium longitubum	4		8	A	31/10/2001	DomSp: Villarsia capitata	MOIST	OD_SWAMP			CLAY		
99156	4540	Tetratheca pilifera	3		8	C	6/09/1999	DomSp: Grevillia bipinnatifida, Xanth preissii, Daviesia horrida, Trymalium ledifolium...	DRY	SLOPE	GRANITE		CLA_LOAM	YEL_BRWN	
99155	4540	Tetratheca pilifera	3		8	B	6/09/1999	DomSp: Grevillia bipinnatifida, Xanth preissii, Daviesia horrida, Trymalium ledifolium...	DRY	SLOPE	GRANITE		CLA_LOAM	YEL_BRWN	
89537	20729	Thelymitra magnifica	T	CR	11		3/11/2011	Soil Type: Sand & Clay loam. Vegetation Classification: 1. Very open Marri Shrubland (Corymbia calophylla) 2. Open Shrubland - Trymalium odoratissimum subsp. odoratissimum, Acacia sp. 3. Weed layer - Watsonia sp.	WTRLOGGD	OD_DRGLN			SAND	GREY	
95302	20729	Thelymitra magnifica	T	CR	9		15/10/2024	No sign of fire	DRY	FLAT	LATERITE	GRVL_30	SND_LOAM	BROWN	WLL_DRND
104442	20729	Thelymitra magnifica	T	CR	4	B	11/10/2024	Marri and white Gums No sign of fire	DRY	SLOPE	LATERITE		SAND	BROWN	WLL_DRND
104441	20729	Thelymitra magnifica	T	CR	4	A	11/10/2024		DRY	SLOPE	GRANITE	GRVL_10	SND_CLAY	BROWN	WLL_DRND

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
104439	20729	Thelymitra magnifica	T	CR	1	B	9/10/2024	Soil excavation area last burnt in 1961 summer wildfire (56 YSLF), last fire NE of walktrack was a summer wildfire in 1996 (21 YSLF).	DRY	SLOPE	GRANITE	GRVL_10	SND_CLAY	BROWN	WLL_DRND
95299	20729	Thelymitra magnifica	T	CR	3		17/10/2023	Last impacted by a fire during a January 1997 wildfire.	DRY	SLOPE	GRANITE	GRVL_30	CLA_LOAM		WLL_DRND
104445	20729	Thelymitra magnifica	T	CR	5	B	15/10/2024	Marri and white gums and dwarf casuarina trees	DRY	SLOPE	GRANITE	GRVL_10	CLAY_SND	BROWN	WLL_DRND
95301	20729	Thelymitra magnifica	T	CR	8		11/10/2024	No sign of fire	DRY	SLOPE	LATERITE	GRVL_30	CLAY_SND	BROWN	WLL_DRND
104444	20729	Thelymitra magnifica	T	CR	5	A	15/10/2024		DRY	SLOPE	GRANITE	GRVL_30	SND_CLAY	BROWN	WLL_DRND
115010	20729	Thelymitra magnifica	T	CR	6	B	11/10/2024		DRY	SLOPE	LATERITE	GRVL_30	SAND	BROWN	WLL_DRND
95300	20729	Thelymitra magnifica	T	CR	6	A	11/10/2024		DRY	SLOPE	LATERITE	GRVL_30	SAND	BROWN	WLL_DRND
95298	20729	Thelymitra magnifica	T	CR	2		27/10/2022	Wandoo and marri open woodland.	DRY	FLAT	LATERITE	GRVL_30	SND_LOAM	BROWN	WLL_DRND
118909	20729	Thelymitra magnifica	T	CR	10		11/10/2024	Marri & E wandoo No sign of fire	DRY	RIDGE	GRANITE	GRVL_50	SND_LOAM	YEL_BRWN	WLL_DRND
100656	10862	Thelymitra stellata	T	EN	4	B	3/11/2011	Vegetation Classification: 1. Dense Heath Darwinia sp., Verticordia sp., Melaleuca radula 2. Borya sp.	WTRLOGGD	OUTCROP	GRANITE	GRVL_50		BROWN	
100655	10862	Thelymitra stellata	T	EN	4	A	3/11/2011	Vegetation Classification: 1. Dense Heath Darwinia sp., Verticordia sp., Melaleuca radula. 2. Borya sp. Interior in excellent condition, however edges in good condition, as there is weed invasion and there has been dome clearing.	WTRLOGGD	OUTCROP	GRANITE	GRVL_50		BROWN	
89536	10862	Thelymitra stellata	T	EN	22		2/11/2020	Still quite weedy following fire: grasses, Briza maxima. Dense regeneration of Grevillea endlicheriana, Grevillea bipinnatifida and other shrubs.	MOIST	OU_SLOPE	GRANITE	GRVL_10			WLL_DRND
84742	1317	Thysanotus anceps	3		6		23/12/1992				LATERITE	GRVL_30			
84743	1317	Thysanotus anceps	3		7		14/12/1993			SLOPE		GRVL_30			

PopId	Nameid	Taxon	ConsStatus	WARank	PopNumber	SubPopCode	CountDate	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
84761	1334	Thysanotus glaucus	4		10		9/12/1990	In low open woodland of Banksia menziesii/B.attenuata. Scattered abundance but not rare.					SAND	YELLOW	
102993	14714	Verticordia lindleyi subsp. lindleyi	4		11	C	4/03/1990			FLAT			LOAM_SND	YELLOW	
102994	14714	Verticordia lindleyi subsp. lindleyi	4		11	D	11/06/1991			FLAT			LOAM_SND	YELLOW	
92667	14714	Verticordia lindleyi subsp. lindleyi	4		26		7/12/1994	Verticordia densiflora, Dryandra nivea, Drosera gigantea, Conostylis festucacea, Tribonanthes australis.					CLAY_SND		
102991	14714	Verticordia lindleyi subsp. lindleyi	4		11	A	4/03/1990			FLAT			LOAM_SND	YELLOW	
102992	14714	Verticordia lindleyi subsp. lindleyi	4		11	B	4/03/1990			FLAT			LOAM_SND	YELLOW	
102997	14714	Verticordia lindleyi subsp. lindleyi	4		11	G	4/04/1990			FLAT			SAND	GREY	SEASINUN
102995	14714	Verticordia lindleyi subsp. lindleyi	4		11	E	4/04/1990			FLAT			SAND	GREY	
102996	14714	Verticordia lindleyi subsp. lindleyi	4		11	F	4/04/1990			FLAT			SAND	GREY	SEASINUN
92654	14714	Verticordia lindleyi subsp. lindleyi	4		13		21/03/1990	Shrubland / sedgeland.		FLAT			SAND	WHITE	
92669	14714	Verticordia lindleyi subsp. lindleyi	4		28		17/03/1997		DRY	SLOPE			SAND	GREY	
90122	12460	Verticordia serrata var. linearis	3		3		10/10/1961								

APPENDIX 4

Atlas of Living Australia Database Search

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/5291343e-fdeb-4a65-8ba5-928f5b96acf5	Gymnorhina tibicen	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Australian Magpie	7889
https://biodiversity.org.au/afd/taxa/8117f68b-5460-4626-8400-e171464e08ad	Corvus coronoides	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Passeriformes	Corvidae	Australian Raven	7822
https://biodiversity.org.au/afd/taxa/1c4dce12-16f6-49ab-b578-0673551214fd	Rhipidura (Sauloprocta) leucophrys	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	Willie Wagtail	7282
https://biodiversity.org.au/afd/taxa/5fed5ecf-2199-4f64-a9f7-90b39f88a90a	Barnardius zonarius	(Shaw, 1805)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Australian Ringneck	6854
https://biodiversity.org.au/afd/taxa/ada6105e-c2de-4b93-9687-8e64d10863a7	Lichmera (Lichmera) indistincta	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Brown Honeyeater	6838
https://biodiversity.org.au/afd/taxa/6ccdb357-d666-4097-b0f6-88bb1a392112	Gavicalis virescens	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Singing Honeyeater	6824
https://biodiversity.org.au/afd/taxa/8204979f-5302-41ea-943f-01d3c420f7bb	Anthochaera (Anthochaera) carunculata	(Shaw, 1790)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Red Wattlebird	6419
https://biodiversity.org.au/afd/taxa/241dd5c6-1235-4eb9-b3d5-a44af6b0d444	Anas (Anas) superciliosa	Gmelin, 1789	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Pacific Black Duck	6417
https://biodiversity.org.au/afd/taxa/9b4ad548-8bb3-486a-ab0a-905506c463ea	Eolophus roseicapilla	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Galah	5710
https://biodiversity.org.au/afd/taxa/ce17b284-d607-496a-992f-f3129bfd3997	Grallina cyanoleuca	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Monarchidae	Magpie-lark	5643
https://biodiversity.org.au/afd/taxa/fe0d4e5e-6bd5-4e46-a77c-00e8cec73410	Zosterops lateralis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Zosteropidae	Silvereye	5005
https://biodiversity.org.au/afd/taxa/f5f5ddd8-ae6a-431b-9e08-3e992b12fa64	Threskiornis moluccus	(Cuvier, 1829)	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Australian White Ibis	4772
https://biodiversity.org.au/afd/taxa/bb53b420-0a1f-4a49-9d1e-2a6154c685a8	Fulica atra	Linnaeus, 1758	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Eurasian Coot	4694
https://biodiversity.org.au/afd/taxa/da002998-b551-4328-ac4e-5e04fc72708b	Phylidonyris (Meliornis) novaehollandiae	(Latham, 1790)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	New Holland Honeyeater	4057
https://biodiversity.org.au/afd/taxa/e3103245-2da1-4cc5-952d-49153f466bbf	Pardalotus (Pardalotinus) striatus	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Passeriformes	Pardalotidae	Striated Pardalote	4021
https://biodiversity.org.au/afd/taxa/3dbe8a1f-e562-42ba-a165-565c0704f8f2	Porphyrio (Porphyrio) porphyrio	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Purple Swamphen	4006
https://biodiversity.org.au/afd/taxa/b6f1a62e-55fa-4fa6-9e08-74003d6b704b	Anas gracilis	Buller, 1869	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Grey Teal	3909
https://biodiversity.org.au/afd/taxa/31944e98-202b-4c14-b480-6508740dde58	Chenonetta jubata	(Latham, 1801)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Australian Wood Duck	3813
https://biodiversity.org.au/afd/taxa/cb748125-0c06-4649-8ed8-e379e81e53c1	Tachybaptus novaehollandiae	(Stephens, 1826)	species	Animalia	Chordata	Aves	Podicipediformes	Podicipedidae	Australasian Grebe	3706
https://biodiversity.org.au/afd/taxa/69c22b10-ff42-4bef-bb0f-88dc01a8f96c	Coracina (Coracina) novaehollandiae	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Passeriformes	Campephagidae	Black-faced Cuckoo-shrike	3647
https://biodiversity.org.au/afd/taxa/97a59c84-af21-4cdc-bac7-a97c5201db42	Rhipidura (Rhipidura) albiscapa	Gould, 1840	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	Grey Fantail	3624
https://biodiversity.org.au/afd/taxa/b5e44fea-a0a2-412b-a1f7-476b3c1e8e03	Gallinula (Gallinula) tenebrosa	Gould, 1846	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Dusky Moorhen	3480
https://biodiversity.org.au/afd/taxa/4e118c73-06a7-4131-bd67-5da5d2d61fd7	Hirundo (Hirundo) neoxena	Gould, 1843	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	Welcome Swallow	3470
https://biodiversity.org.au/afd/taxa/b33b8926-0f03-44ba-b084-a2d3ad149ea0	Crinia glauerti	Loveridge, 1933	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Glauert's Froglet	3358
https://biodiversity.org.au/afd/taxa/75e90438-cf36-403e-9223-a7d4737b1fd1	Gerygone fusca	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Western Gerygone	3285
https://biodiversity.org.au/afd/taxa/f933497e-60d2-4f80-bc5e-08d8b1349c2c	Smicrornis brevirostris	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Weebill	3118
https://biodiversity.org.au/afd/taxa/8fd1977b-9edf-4ddf-b6cf-24a09db4d18c	Egretta novaehollandiae	(Latham, 1790)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	White-faced Heron	3076
https://biodiversity.org.au/afd/taxa/c1d3308d-b6d6-496c-81b0-97c689259d3a	Anhinga novaehollandiae	(Gould, 1847)	species	Animalia	Chordata	Aves	Pelecaniformes	Anhingidae	Australasian Darter	3074
https://biodiversity.org.au/afd/taxa/378bdcd1-f52a-4907-9f71-0541b05437da	Pachycephala (Alisterornis) rufiventris	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Pachycephalidae	Rufous Whistler	3051
https://biodiversity.org.au/afd/taxa/0b7c528a-4104-4a96-853e-05a37c327067	Microcarbo melanoleucos	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Little Pied Cormorant	3036
https://biodiversity.org.au/afd/taxa/1fc76c4d-4830-4129-9b86-1c7e944c3c50	Dacelo (Dacelo) novaeguineae	(Hermann, 1783)	species	Animalia	Chordata	Aves	Coraciiformes	Alcedinidae	Laughing Kookaburra	3029
https://biodiversity.org.au/afd/taxa/34b31e86-7ade-4cba-960f-82a6ae586206	Cacatua (Licmetis) sanguinea	Gould, 1843	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Little Corella	2995
https://biodiversity.org.au/afd/taxa/7d38efed-12ce-4aa3-b51a-67f89b109ded	Petrochelidon (Hylochelidon) nigricans	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	Tree Martin	2865
https://biodiversity.org.au/afd/taxa/d3bf2b8a-e178-4adb-9c5e-bef63c34e032	Spilopelia chinensis	(Scopoli, 1786)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Spotted Turtle-dove	2777
https://biodiversity.org.au/afd/taxa/bbce953c-f9e2-4b59-a9d4-0eb587004879	Litoria adelaidensis	(Gray, 1841)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	Slender Tree Frog	2734
https://biodiversity.org.au/afd/taxa/808f7f5b-f6cd-4677-848a-49315e7babe3	Calyptorhynchus (Calyptorhynchus) banksii	(Latham, 1790)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Red-tailed Black Cockatoo	2716
https://biodiversity.org.au/afd/taxa/485e7fa6-c632-4288-bcdc-ef8890c87646	Limnodynastes dorsalis	(Gray, 1841)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Western Banjo Frog	2581
https://biodiversity.org.au/afd/taxa/c96b19fd-2a54-4361-a5cf-baecf741310e	Phalacrocorax (Phalacrocorax) sulcirostris	(Brandt, 1837)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Little Black Cormorant	2562
https://biodiversity.org.au/afd/taxa/046dd167-e59a-4b0f-b573-fc72de406e85	Tadorna (Casarca) tadornoides	(Jardine & Selby, 1828)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Australian Shelduck	2554
https://biodiversity.org.au/afd/taxa/148208ff-e6ea-40bd-9999-9f1a6b8acc1e	Phylidonyris (Meliornis) niger	(Bechstein, 1811)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-cheeked Honeyeater	2458
https://biodiversity.org.au/afd/taxa/43abe3ea-7ccc-41cc-920f-d9cfa107207e	Pelecanus conspicillatus	Temminck, 1824	species	Animalia	Chordata	Aves	Pelecaniformes	Pelecanidae	Australian Pelican	2393
https://biodiversity.org.au/afd/taxa/09843a8d-0a78-4680-8bf4-bd95dc93ef0e	Spilopelia senegalensis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Laughing Turtle-dove	2297
https://biodiversity.org.au/afd/taxa/681ea214-3788-4cc6-8b97-0b325d6bba6b	Cracticus torquatus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Grey Butcherbird	2272
https://biodiversity.org.au/afd/taxa/66f82bb4-ae71-4543-a99e-35452536c4c8	Purpureicephalus spurius	(Kuhl, 1820)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Red-capped Parrot	2175

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/cf1b96b7-7175-44d4-8ffe-ad3fc07164e6	Litoria moorei	(Copland, 1957)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	Western Green And Golden Bell Frog	2046
https://biodiversity.org.au/afd/taxa/e848916c-5f2d-43ef-8cba-8e32a9034377	Cygnus atratus	(Latham, 1801)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Black Swan	2022
https://biodiversity.org.au/afd/taxa/aa581ac7-f29a-4e72-be0d-48a5e0a64de3	Acanthiza (Geobasileus) chrysorrhoa	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Yellow-rumped Thornbill	2005
https://biodiversity.org.au/afd/taxa/e75f846e-944e-431e-8c43-b376ac1e2b87	Malurus (Malurus) splendens	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Splendid Fairy-wren	1946
https://biodiversity.org.au/afd/taxa/3dd39f84-1293-4c04-ac87-2474f5c887b0	Platalea (Platibis) flavipes	Gould, 1838	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Yellow-billed Spoonbill	1927
https://biodiversity.org.au/afd/taxa/b0017049-e751-4a36-af4c-652fb6334891	Aythya (Nyroca) australis	(Eyton, 1838)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Hardhead	1851
https://biodiversity.org.au/afd/taxa/143cc9f0-bc3c-45b7-8e1c-21fbe9319bba	Ardea alba	Linnaeus, 1758	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Great Egret	1847
https://biodiversity.org.au/afd/taxa/7da6fd6f-c180-4e68-b9e7-70d02e6f8448	Phaps (Phaps) chalcoptera	(Latham, 1790)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Common Bronzewing	1775
https://biodiversity.org.au/afd/taxa/bf8abc11-ebe1-4f1a-9950-805e5bfcf90a	Columba (Columba) livia	Gmelin, 1789	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Rock Dove	1746
https://biodiversity.org.au/afd/taxa/51829a26-3d88-4238-be5b-354de5174292	Acrocephalus (Acrocephalus) australis	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Acrocephalidae	Australian Reed Warbler	1582
https://biodiversity.org.au/afd/taxa/bdf18035-665d-47a1-bb8b-789aaf62223e	Spatula rhynchotis	Latham, 1801	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Australasian Shoveler	1580
https://biodiversity.org.au/afd/taxa/4072e7ce-7ca4-4112-a9fa-c49a0f0ddd4d	Zanda latirostris	Carnaby, 1948	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Short-billed Black-cockatoo	1561
https://biodiversity.org.au/afd/taxa/c517dae5-6bf7-48e8-8501-53e8b87e89a4	Trichoglossus haematodus	(Linnaeus, 1771)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Rainbow Lorikeet	1533
https://biodiversity.org.au/afd/taxa/c319dbaf-a363-4853-b333-75f14c47fc82	Threskiornis spinicollis	(Jameson, 1835)	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Straw-necked Ibis	1464
https://biodiversity.org.au/afd/taxa/ee5017ac-06bc-41ae-ac7f-9f6311b8d2e6	Crinia georgiana	Tschudi, 1838	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Tschudi's Froglet	1445
https://biodiversity.org.au/afd/taxa/e2070aa5-7ab4-41a8-9b41-b3f0c2e26390	Chroicocephalus novaehollandiae	(Stephens, 1826)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Silver Gull	1386
https://biodiversity.org.au/afd/taxa/655adcf7-5bb5-4f94-a0fb-0d5b2f75fba8	Oxyura australis	Gould, 1837	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Blue-billed Duck	1182
https://biodiversity.org.au/afd/taxa/ed591036-06d9-46a3-840f-414b993a4a04	Malacorhynchus membranaceus	(Latham, 1801)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Pink-eared Duck	1157
https://biodiversity.org.au/afd/taxa/135cc880-f84e-4470-a1c1-fbce3a0ed534	Todiramphus (Todiramphus) sanctus	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Coraciiformes	Alcedinidae	Sacred Kingfisher	1128
https://biodiversity.org.au/afd/taxa/8bbafeb6-72e7-4af8-b602-5f3f5e7eaed6	Heleioporus eyrei	(Gray, 1845)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Moaning Frog	1086
https://biodiversity.org.au/afd/taxa/9f9ddea7-8c74-46df-8ed9-3233d681e354	Merops (Merops) ornatus	Latham, 1801	species	Animalia	Chordata	Aves	Coraciiformes	Meropidae	Rainbow Bee-eater	1059
https://biodiversity.org.au/afd/taxa/29472c00-22e3-42c3-b562-107bd28d1bdc	Phalacrocorax (Phalacrocorax) carbo	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Great Cormorant	1045
https://biodiversity.org.au/afd/taxa/b4c2ec8d-918d-4fb4-8ef9-f6d5d3bbceda	Poodytes gramineus	(Gould, 1845)	species	Animalia	Chordata	Aves	Passeriformes	Locustellidae	Little Grassbird	1034
https://biodiversity.org.au/afd/taxa/ae8ff359-0981-4618-86a8-e64fb63b7adc	Himantopus himantopus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Recurvirostridae	Black-winged Stilt	1003
https://biodiversity.org.au/afd/taxa/a7b00ef0-108f-44d9-bf89-a062c8674335	Ocyphaps lophotes	(Temminck, 1822)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Crested Pigeon	1001
https://biodiversity.org.au/afd/taxa/8f2d4aeb-50eb-438f-a145-5f12e356ffd8	Dicaeum (Dicaeum) hirundinaceum	(Shaw, 1792)	species	Animalia	Chordata	Aves	Passeriformes	Dicaeidae	Mistletoebird	951
https://biodiversity.org.au/afd/taxa/1441c509-faf3-405e-a534-c51cccc4d720	Thalasseus bergii	(Lichtenstein, 1823)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Crested Tern	915
https://biodiversity.org.au/afd/taxa/31113d80-ed4f-4bb0-9a65-48080e4c6dd1	Haliastur sphenurus	(Vieillot, 1818)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Whistling Kite	882
https://biodiversity.org.au/afd/taxa/031b2b69-e9fc-44c6-9df9-03c1470d5ec3	Sericornis (Sericornis) frontalis	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	White-browed Scrubwren	867
https://biodiversity.org.au/afd/taxa/29cbe213-85a4-46b7-b373-4c503231f299	Elseyornis melanops	(Vieillot, 1818)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Black-fronted Dotterel	855
https://biodiversity.org.au/afd/taxa/d470af0d-c131-48f7-961d-a55686e6a185	Accipiter (Leucospiza) fasciatus	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Brown Goshawk	846
https://biodiversity.org.au/afd/taxa/59b7c7f5-1d07-4ab0-90ef-9be0885de1dd	Anthochaera (Anellobia) lunulata	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Western Wattlebird	818
https://biodiversity.org.au/afd/taxa/da1e1bf2-3684-4eea-b579-1d83507c020d	Hydroprogne caspia	(Pallas, 1770)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Caspian Tern	761
https://biodiversity.org.au/afd/taxa/500e1350-1d00-4f1c-b9d3-d02b949cdd47	Acanthiza (Acanthiza) apicalis	Gould, 1847	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Red-rumped Tit	727
https://biodiversity.org.au/afd/taxa/0242155c-714e-4f53-b973-333aab1343fb	Acanthorhynchus superciliosus	Gould, 1837	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Western Spinebill	716
https://biodiversity.org.au/afd/taxa/8f6b91ae-4019-490c-a133-73acb05d25e8	Falco (Tinnunculus) cenchroides	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Nankeen Kestrel	702
https://biodiversity.org.au/afd/taxa/e7ffc466-9c5b-4dbf-86e6-00b674dd8063	Megachile (Hackeriapis) tosticauda	Cockerell, 1912	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	689
https://biodiversity.org.au/afd/taxa/dec8c88f-7f20-4f30-b2af-c75d09fb066c	Nycticorax caledonicus	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Nankeen Night-heron	644
https://biodiversity.org.au/afd/taxa/498925e8-5323-4307-bb97-6eaf46076629	Crinia insignifera	Moore, 1954	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Sign-bearing Froglet	639
https://biodiversity.org.au/afd/taxa/30edbd1a-6367-4d84-87f1-3566e6cc54d6	Pachycephala (Pachycephala) pectoralis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Pachycephalidae	Golden Whistler	589
https://biodiversity.org.au/afd/taxa/23a8017a-3a2b-4a52-8ca6-d168bf52659c	Pandion haliaetus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Osprey	584
https://biodiversity.org.au/afd/taxa/e382a431-801d-4a24-9a5a-03a262be9279	Elanus axillaris	(Latham, 1801)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Black-shouldered Kite	567

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/4b7b9c4a-1b60-4a43-ab70-b57bfc790138	Acanthiza (Geobasileus) inornata	Gould, 1841	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Western Thornbill	564
https://biodiversity.org.au/afd/taxa/5254fe03-630b-44b2-9233-df51a7b8f25f	Pardalotus (Pardalotus) punctatus	(Shaw, 1792)	species	Animalia	Chordata	Aves	Passeriformes	Pardalotidae	Spotted Pardalote	556
https://biodiversity.org.au/afd/taxa/967549e7-7fa9-4770-b86e-5e3520d3c43d	Chelodina (Macrochelodina) oblonga	Gray, 1841	species	Animalia	Chordata	Reptilia	Testudines	Chelidae	Northern Snake-necked Turtle	529
https://biodiversity.org.au/afd/taxa/53e2d734-5e33-44c2-92f7-edf444377380	Biziura lobata	(Shaw, 1796)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Musk Duck	525
https://biodiversity.org.au/afd/taxa/70a29d57-3aea-43e3-b675-98c01960979d	Falco (Falco) longipennis	Swainson, 1838	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Australian Hobby	518
https://biodiversity.org.au/afd/taxa/1988c921-43bd-4390-b441-8abc4b26b477	Hypotaenidia philippensis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Buff-banded Rail	505
https://biodiversity.org.au/afd/taxa/947595db-244f-4160-b30d-0473b37d857b	Poliocephalus poliocephalus	(Jardine & Selby, 1827)	species	Animalia	Chordata	Aves	Podicipediformes	Podicipedidae	Hoary-headed Grebe	469
https://biodiversity.org.au/afd/taxa/21a09d44-a9eb-4a94-a39e-6f7cfeb0f403	Anas (Anas) platyrhynchos	Linnaeus, 1758	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Common Mallard	448
https://biodiversity.org.au/afd/taxa/a3e5376b-f9e6-4bdf-adae-1e7add9f5c29	Petroica (Petroica) boodang	(Lesson, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Scarlet Robin	444
https://biodiversity.org.au/afd/taxa/c568921e-f800-4a6e-b88c-6d409def1e20	Circus approximans	Peale, 1848	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Swamp Harrier	411
https://biodiversity.org.au/afd/taxa/13850efc-183d-421c-bf60-8015ace4e570	Pseudonaja affinis	GÃ¼nther, 1872	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Dugite	384
https://biodiversity.org.au/afd/taxa/e53a981f-22da-4f2f-a489-85c3ee79473e	Anthus (Anthus) novaeseelandiae	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Passeriformes	Motacillidae	Australian Pipit	361
https://biodiversity.org.au/afd/taxa/e948fd99-7550-4d1b-866a-75666cc61f96	Heteroscenes pallidus	(Latham, 1801)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Pallid Cuckoo	361
https://biodiversity.org.au/afd/taxa/37b96920-e8bf-499c-9967-b6911fedff51	Egretta garzetta	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Little Egret	345
https://biodiversity.org.au/afd/taxa/1268648b-451b-4cb1-b931-ef54dcab9ba0	Cacatua (Licmetis) tenuirostris	(Kuhl, 1820)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Long-billed Corella	330
https://biodiversity.org.au/afd/taxa/408ee81c-6558-4ddf-b732-f9ad7d09f1ae	Cacomantis (Vidgenia) flabelliformis	(Latham, 1801)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Fan-tailed Cuckoo	327
https://biodiversity.org.au/afd/taxa/7af45089-4a0f-4303-a417-1708623809af	Colluricincla (Colluricincla) harmonica	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Pachycephalidae	Grey Shrike-thrush	313
https://biodiversity.org.au/afd/taxa/abeb5bf8-d03e-4b33-a1ea-bcfc0695102c	Actitis hypoleucos	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Common Sandpiper	309
https://biodiversity.org.au/afd/taxa/02725816-5d59-41e1-aa00-f7cc41cd66dc	Accipiter (Paraspizias) cirrocephalus	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Collared Sparrowhawk	292
https://biodiversity.org.au/afd/taxa/853662a7-5a01-4a5f-8f17-347f9166f7bb	Malurus (Leggeornis) assimilis	North, 1901	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Purple-backed Fairy-wren	272
https://id.biodiversity.org.au/taxon/apni/51742826	Chrysanthemoides monilifera	(L.) Norl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Boneseed	269
https://biodiversity.org.au/afd/taxa/b47a4ecd-416b-458c-886a-1dc3490e8175	Hieraaetus (Hieraaetus) morphnoides	(Gould, 1841)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Little Eagle	265
https://biodiversity.org.au/afd/taxa/b26690fc-d652-4777-9ead-3421170129ed	Stagonopleura (Zonaeginthus) oculata	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Aves	Passeriformes	Estrildidae	Red-eared Firetail	259
https://biodiversity.org.au/afd/taxa/320aeab1-aead-4b82-a580-8cd3ae99fdef	Artamus (Angroyan) cyanopterus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Dusky Woodswallow	258
https://biodiversity.org.au/afd/taxa/083b413f-8746-4788-8dc1-3da495d78a79	Falco (Hierofalco) peregrinus	Tunstall, 1771	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Peregrine Falcon	251
https://id.biodiversity.org.au/taxon/apni/51298304	Hibbertia hypericoides	(DC.) Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Yellow Buttercups	239
https://biodiversity.org.au/afd/taxa/715a2874-1942-4762-866c-1194990e7a91	Lophoictinia isura	(Gould, 1838)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Square-tailed Kite	220
https://biodiversity.org.au/afd/taxa/23e2ccef-06b0-4749-abc6-d8a710b94f69	Aquila (Uroaetus) audax	(Latham, 1801)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Wedge-tailed Eagle	217
https://biodiversity.org.au/afd/taxa/48a303d7-ec2e-4c00-aa20-9f9d3a1b0b30	Crinia pseudinsignifera	Main, 1957	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Bleating Froglet	214
https://biodiversity.org.au/afd/taxa/cff21565-2bc4-4a67-8c0c-600ae7c10fd8	Zanda baudinii	Lear, 1832	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Long-billed Black-cockatoo	212
https://biodiversity.org.au/afd/taxa/8bf4b8b0-f432-4e9d-8ea6-08fc20c8090c	Daphoenositta (Neositta) chrysoptera	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Neosittidae	Varied Sittella	200
https://biodiversity.org.au/afd/taxa/cf8e02dd-2a6e-41dc-b14b-0e446444250a	Ardea pacifica	Latham, 1801	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	White-necked Heron	200
https://biodiversity.org.au/afd/taxa/d39efcab-9136-45e4-b56b-64691beabbdd	Apis (Apis) mellifera	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Honey Bee	191
https://id.biodiversity.org.au/node/apni/2892673	Corymbia calophylla	(Lindl.) K.D.Hill & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Marri	190
https://biodiversity.org.au/afd/taxa/12efe8e2-13c3-4551-8c7c-2fd6923b0d9e	Platycercus (Violania) icterotis	(Temminck & Kuhl, 1820)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Western Rosella	186
https://biodiversity.org.au/afd/taxa/31f37401-664a-4ec0-beb6-3ee7dcc2cd8b	Zapornia tabuensis	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Spotless Crake	181
https://id.biodiversity.org.au/node/apni/2894796	Grevillea bipinnatifida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Fuchsia Grevillea	181
https://biodiversity.org.au/afd/taxa/10dbd908-00f3-4ec2-9a9c-a2fd4782eaf1	Petroica (Petroica) goodenovii	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Red-capped Robin	180
https://id.biodiversity.org.au/taxon/apni/51287044	Acacia pulchella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Prickly Moses	175
https://biodiversity.org.au/afd/taxa/dc6cf25d-443c-4eaf-a627-d16ad42f69fb	Malurus (Leggeornis) elegans	Gould, 1837	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Red-winged Fairy-wren	174
https://biodiversity.org.au/afd/taxa/2869ce8a-8212-46c2-8327-dfb7fabb8296	Vulpes vulpes	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Carnivora	Canidae	Fox	168

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/3e5533e8-fa42-49f0-bd17-134bc566a50f	Lipotriches (Austronomia) flavoviridis	(Cockerell, 1905)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	168
https://biodiversity.org.au/afd/taxa/bf5d2694-d652-423b-b812-ff2b38a4abae	Tiliqua rugosa	(Gray, 1825)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Shingle-back	164
https://biodiversity.org.au/afd/taxa/55994a9e-8ba7-4ff9-89a2-e22586ab25d1	Phalacrocorax (Phalacrocorax) varius	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Pied Cormorant	163
https://biodiversity.org.au/afd/taxa/f0a6a2c3-adad-4c57-9cae-17956131ecf0	Gliciphila melanops	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Tawny-crowned Honeyeater	163
https://biodiversity.org.au/afd/taxa/fd5d306f-a615-4e51-a9bc-8e0cb6785cab	Isoodon fusciventer	(J.E. Gray, 1841)	species	Animalia	Chordata	Mammalia	Peramelemorphia	Peramelidae	Southwestern Brown Bandicoot	163
https://biodiversity.org.au/afd/taxa/305ba0b6-2dee-4b8e-a336-34d998a34635	Neobatrachus pelobatoides	(Werner, 1914)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Humming Frog	162
https://id.biodiversity.org.au/taxon/apni/51440932	Caladenia flava	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Cowslip Orchid	162
https://biodiversity.org.au/afd/taxa/99e4518d-7877-46c8-a809-7e4e4d5bad81	Chalcites lucidus	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Shining Bronze-cuckoo	158
https://biodiversity.org.au/afd/taxa/66e27d5a-5cfe-422a-8cb3-06163cfd11fc	Urodacus novaehollandiae	Peters, 1861	species	Animalia	Arthropoda	Arachnida	Scorpiones	Urodacidae		157
https://biodiversity.org.au/afd/taxa/e8d7b862-1d56-4d27-84a1-937f7915a0de	Vanellus (Lobivanellus) tricolor	(Vieillot, 1818)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Banded Lapwing	157
https://id.biodiversity.org.au/node/apni/2903276	Darwinia citriodora	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Lemon-scented Darwinia	157
https://id.biodiversity.org.au/node/apni/2916495	Hakea lissocarpha	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Honey Bush	156
https://id.biodiversity.org.au/node/apni/5040372	Banksia dallanneyi	A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		156
https://id.biodiversity.org.au/taxon/apni/51437102	Lechenaultia biloba	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Blue Leschenaultia	147
https://biodiversity.org.au/afd/taxa/856ed4e8-dbcf-487f-80c8-9c78591d2ff6	Ninox (Ninox) novaeseelandiae	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Strigiformes	Strigidae	Southern Boobook	146
https://id.biodiversity.org.au/node/apni/2890986	Hovea pungens	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Devils Pins	145
https://biodiversity.org.au/afd/taxa/68fc5ba7-463f-4a86-8314-e42a5a8d0455	Ninox (Ninox) boobook	(Latham, 1801)	species	Animalia	Chordata	Aves	Strigiformes	Strigidae	Southern Boobook	144
https://id.biodiversity.org.au/taxon/apni/51294930	Petrophile biloba	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Granite Petrophile	141
https://biodiversity.org.au/afd/taxa/60bafeba-eee1-46b7-a90c-718d3dd8d994	Christinus marmoratus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Marbled Gecko	139
https://biodiversity.org.au/afd/taxa/fb187fec-d632-46cc-9250-f3ea45892080	Cryptoblepharus buchananii	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Buchanan's Snake-eyed Skink	139
https://id.biodiversity.org.au/node/apni/2906510	Grevillea pilulifera	(Lindl.) Druce	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Woolly-flowered Grevillea	139
https://id.biodiversity.org.au/taxon/apni/51283527	Drosera collina	(N.G.Marchant & Lowrie) Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		138
https://id.biodiversity.org.au/node/apni/2895692	Hypocalymma angustifolium	(Endl.) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	White Myrtle	137
https://id.biodiversity.org.au/taxon/apni/51407862	Pheladenia deformis	(R.Br.) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bluebeard Orchid	134
https://id.biodiversity.org.au/node/apni/2905888	Xanthorrhoea preissii	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae	Grasstree	130
https://id.biodiversity.org.au/node/apni/2912917	Burchardia congesta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Milkmaids	127
https://biodiversity.org.au/afd/taxa/8bec5cc6-ac31-4d23-9df3-856034968af9	Podargus strigoides	(Latham, 1801)	species	Animalia	Chordata	Aves	Caprimulgiformes	Podargidae	Tawny Frogmouth	126
https://biodiversity.org.au/afd/taxa/95efb4b0-67a8-4093-8bda-d55b2fa836be	Melithreptus (Melithreptus) lunatus	(Vieillot, 1802)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-naped Honeyeater	125
https://biodiversity.org.au/afd/taxa/ab8816d0-2599-4813-a4c7-00d45d0c7ed0	Cacatua (Licmetis) pastinator	(Gould, 1841)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Western Corella	124
https://biodiversity.org.au/afd/taxa/0ccbba45-af08-484a-8aaa-ff983ca3a633	Melithreptus (Melithreptus) chloropsis	Gould, 1848	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Gilbert's Honeyeater	123
https://id.biodiversity.org.au/node/apni/2911572	Jacaranda mimosifolia	D.Don	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Jacaranda	122
https://biodiversity.org.au/afd/taxa/b7013071-0a6a-4fd7-a084-0b0d3f473828	Porzana (Porzana) fluminea	Gould, 1843	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Australian Spotted Crake	121
https://id.biodiversity.org.au/taxon/apni/51294830	Isopogon dubius	(R.Br.) Druce	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Pincushion Coneflower	120
https://biodiversity.org.au/afd/taxa/f29f01e6-0bfe-4621-b068-42dac6c758dc	Petrochelidon (Petrochelidon) ariel	(Gould, 1842)	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	Fairy Martin	119
https://id.biodiversity.org.au/node/apni/2905076	Verticordia huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Variegated Featherflower	119
https://biodiversity.org.au/afd/taxa/efb44a70-3223-4d7c-99df-889e61f0a8a2	Anthoglossa nigrocinctus	Cockerell, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		118
https://id.biodiversity.org.au/node/apni/2895622	Lambertia multiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Many-flowered Honeysuckle	116
https://biodiversity.org.au/afd/taxa/3350e8be-b603-46e0-95c3-2b355983adc8	Lialis burtonis	Gray, 1835	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Burton's Snake-lizard	115
https://id.biodiversity.org.au/node/apni/2891077	Hakea trifurcata	(Sm.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Two-leaf Hakea	115
https://id.biodiversity.org.au/taxon/apni/51283539	Drosera drummondii	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		115
https://id.biodiversity.org.au/taxon/apni/51445303	Banksia sessilis	(Knight) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		115

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2893218	Allocasuarina humilis	(Otto & A.Dietr.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Dwarf Sheoak	114
https://id.biodiversity.org.au/node/apni/2900921	Anigozanthos manglesii	D.Don	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Red And Green Kangaroo Paw	113
https://id.biodiversity.org.au/taxon/apni/51414264	Thelymitra crinita	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blue Lady Orchid	113
https://biodiversity.org.au/afd/taxa/692effa3-b719-495f-a86f-ce89e2981652	Oryctolagus cuniculus	(Linnaeus, 1758)	species	Animalia	Chordata	Mammalia	Lagomorpha	Leporidae	Rabbit	112
https://biodiversity.org.au/afd/taxa/c77dbdfb-92fe-45a6-bf0d-817fc740e4a4	Heleioporus barycragus	Lee, 1967	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Hooting Frog	110
https://biodiversity.org.au/afd/taxa/2c33a1fd-34f4-48ec-9ae6-38b51f2aa7ea	Cacatua (Cacatua) galerita	(Latham, 1790)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Sulphur-crested Cockatoo	108
https://biodiversity.org.au/afd/taxa/040c3c37-fc42-4b56-8c9d-5fcf9bf78985	Exoneura (Exoneura) pictifrons	Alfken, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae		107
https://biodiversity.org.au/afd/taxa/59d67add-ba69-4640-ba80-3a735a8d171e	Orthetrum caledonicum	(Brauer, 1865)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Blue Skimmer	107
https://biodiversity.org.au/afd/taxa/e9b141fb-9c47-46a3-b631-39b175a2cd74	Macropus fuliginosus	(Desmarest, 1817)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Western Grey Kangaroo	106
https://id.biodiversity.org.au/taxon/apni/51404181	Diuris brumalis	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Winter Donkey Orchid	106
https://biodiversity.org.au/afd/taxa/3d2396a0-b532-410a-87e7-d1fe3ab497f6	Calidris (Ereunetes) ruficollis	(Pallas, 1776)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Red-necked Stint	105
https://biodiversity.org.au/afd/taxa/af327fdd-3604-4fde-b911-ba0150407425	Pieris rapae	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Cabbage White Butterfly	105
https://id.biodiversity.org.au/node/apni/2898292	Gladiolus caryophyllaceus	(Burm.f.) Poir.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Wild Gladiolus	104
https://id.biodiversity.org.au/node/apni/2907581	Cristonia biloba	(Benth.) J.H.Ross	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		103
https://id.biodiversity.org.au/node/apni/2912367	Hardenbergia comptoniana	(Andrews) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Western Australian Coral-pea	102
https://id.biodiversity.org.au/taxon/apni/51311308	Stylidium affine	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Queen Triggerplant	100
https://biodiversity.org.au/afd/taxa/02010b7d-d0ed-4e2a-83a0-012920e8dfaf	Lipotriches (Austronomia) australica	(Smith, 1875)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	99
https://id.biodiversity.org.au/node/apni/2889663	Nuytsia floribunda	(Labill.) R.Br. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Western Australian Christmas Tree	99
https://id.biodiversity.org.au/node/apni/2899364	Daviesia horrida	Preiss ex Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Prickly Bitter-pea	98
https://id.biodiversity.org.au/node/apni/2915386	Bossiaea eriocarpa	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Brown Pea	98
https://id.biodiversity.org.au/node/apni/2895730	Hovea trisperma	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Hovea	97
https://id.biodiversity.org.au/taxon/apni/51291410	Neurachne alopecuroidea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fox-tail Mulga-grass	97
https://id.biodiversity.org.au/node/apni/2886300	Philotheca spicata	(A.Rich.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Pepper And Salt	96
https://id.biodiversity.org.au/node/apni/2898257	Dioscorea hastifolia	Nees	species	Plantae	Charophyta	Equisetopsida	Dioscoreales	Dioscoreaceae	Warrine	96
https://biodiversity.org.au/afd/taxa/b8f3b62d-175f-4be5-9c81-2700dd97061d	Valanga irregularis	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Giant Grasshopper	95
https://id.biodiversity.org.au/node/apni/2896832	Petrophile linearis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Pixie Mops	95
https://id.biodiversity.org.au/node/apni/2903293	Stylidium recurvum	Graham	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		95
https://id.biodiversity.org.au/node/apni/2907698	Jacksonia floribunda	Endl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		95
https://biodiversity.org.au/afd/taxa/e450c479-5de5-483b-8391-85e0f2e1519b	Pseudophryne guentheri	Boulenger, 1882	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Gunther's Toadlet	94
https://id.biodiversity.org.au/node/apni/2915372	Conospermum undulatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wavyleaved Smokebush	94
https://biodiversity.org.au/afd/taxa/4491debc-214f-46a2-95cf-572fe0150d0d	Tribonyx ventralis	(Gould, 1837)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Black-tailed Native-hen	93
https://biodiversity.org.au/afd/taxa/618a2c4c-ddf2-4042-a6a7-34a3e893c219	Anthochaera (Anellobia) chrysoptera	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Little Wattlebird	93
ALA_DR24112_263	Cairina moschata		species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Muscovy Duck	92
https://id.biodiversity.org.au/taxon/apni/51269054	Ursinia anthemoides	(L.) Poir.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Ursinia	92
https://biodiversity.org.au/afd/taxa/da100481-e4a7-4d6e-8535-89a748cf52ad	Plegadis falcinellus	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Glossy Ibis	91
https://biodiversity.org.au/afd/taxa/2bb473e2-e048-4722-8a26-afc6fd791eb6	Megachile (Eutricharaea) obtusa	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	90
https://id.biodiversity.org.au/node/apni/2897960	Banksia menziesii	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Firewood Banksia	90
https://id.biodiversity.org.au/node/apni/2920210	Stirlingia latifolia	(R.Br.) Steud.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Blueboy	90
https://biodiversity.org.au/afd/taxa/61dcd27a-101e-459a-b1e1-64fdd6f9b41e	Megachile aurifrons	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	88
https://biodiversity.org.au/afd/taxa/6c3c2da2-508b-43c4-b0df-c69a99c0aae0	Artamus (Angroyan) cinereus	Vieillot, 1817	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Black-faced Woodswallow	88
https://id.biodiversity.org.au/node/apni/2906396	Conostylis setosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	White Cottonhead	88
https://id.biodiversity.org.au/node/apni/2921182	Hakea undulata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wavy-leaved Hakea	88
https://biodiversity.org.au/afd/taxa/fd928615-5613-47eb-9cd4-7eb8e30a4993	Pluvialis squatarola	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Grey Plover	87
https://id.biodiversity.org.au/taxon/apni/51302290	Eucalyptus marginata	Donn ex Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Jarrah	87
https://id.biodiversity.org.au/taxon/apni/51434997	Drosera macrantha	Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Bridal Rainbow	87
https://biodiversity.org.au/afd/taxa/dd8852f7-9903-4222-b596-7ccce70aaa33	Anas (Nettion) castanea	(Eyton, 1838)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Chestnut Teal	86
https://id.biodiversity.org.au/node/apni/2893288	Phyllanthus calycinus	Labill.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Snowdrop Spurge	86

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2912897	Chorizema dicksonii	Graham	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Yellow-eyed Flame Pea	86
https://id.biodiversity.org.au/node/apni/2887877	Grevillea endlicheriana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spindly Grevillea	85
https://id.biodiversity.org.au/node/apni/2894215	Drosera glanduligera	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Scarlet Sundew	85
https://id.biodiversity.org.au/node/apni/2916661	Stylidium repens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Matted Triggerplant	85
https://id.biodiversity.org.au/node/apni/2904580	Patersonia occidentalis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Long Purple-flag	84
https://biodiversity.org.au/afd/taxa/10f5404c-c891-4051-871c-8b700b0e4a46	Latrodectus hasseltii	Thorell, 1870	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Redback Spider	83
https://biodiversity.org.au/afd/taxa/1ab53a5f-489e-4e45-98d2-569cc29b9e18	Gehyra variegata	(DumÃ©ril & Bibron, 1836)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Tree Dtella	83
https://id.biodiversity.org.au/node/apni/2892177	Stypandra glauca	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Nodding Grass-lily	83
https://id.biodiversity.org.au/node/apni/2896447	Tripterococcus brunonis	Endl.	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae	Winged Stackhousia	83
https://id.biodiversity.org.au/node/apni/2899939	Banksia armata	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		83
https://id.biodiversity.org.au/node/apni/2912492	Conostylis setigera	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bristly Cottonhead	83
https://biodiversity.org.au/afd/taxa/47bfba19-aed5-4e08-a656-d10642969fa9	Mictis profana	(Fabricius, 1803)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coreidae	Crusader Bug	82
https://biodiversity.org.au/afd/taxa/92358f59-80ae-482f-8979-5679b23e92cc	Lalage (Lalage) tricolor	(Swainson, 1825)	species	Animalia	Chordata	Aves	Passeriformes	Campephagidae	White-winged Triller	82
https://id.biodiversity.org.au/node/apni/2905053	Acacia alata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Winged Wattle	82
https://id.biodiversity.org.au/node/apni/7238218	Kennedia coccinea	(Curtis) Vent.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Coral Vine	82
https://biodiversity.org.au/afd/taxa/3a343e36-aaaf-44c7-aacc-1c509b3a4c32	Austracantha minax	(Thorell, 1859)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Jewel Spider	81
https://id.biodiversity.org.au/node/apni/2898215	Thysanotus manglesianus	Kunth	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Fringed Lily	81
https://id.biodiversity.org.au/node/apni/2901052	Ptilotus manglesii	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Pom Poms	81
https://id.biodiversity.org.au/node/apni/2920604	Gompholobium tomentosum	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hairy Yellow Pea	81
https://id.biodiversity.org.au/taxon/apni/51302262	Calothamnus quadrifidus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Common Net Bush	81
https://id.biodiversity.org.au/taxon/apni/51435886	Daviesia decurrens	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Thorny Bitter-pea	81
https://id.biodiversity.org.au/node/apni/2908064	Briza maxima	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Large Quaking-grass	80
https://id.biodiversity.org.au/node/apni/2917455	Verticordia acerosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		80
https://biodiversity.org.au/afd/taxa/629e60e2-9277-4861-9a03-614486db9c33	Megachile (Eutricharaea) chrysopyga	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	79
https://biodiversity.org.au/afd/taxa/d6156ed3-bda2-42d6-a948-07d94c7e6559	Chalcites basalis	(Horsfield, 1821)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Horsfield's Bronze-cuckoo	79
https://id.biodiversity.org.au/node/apni/2915895	Actinotus leucocephalus	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Flannel Flower	79
https://biodiversity.org.au/afd/taxa/d792ddc0-bdc2-4764-ab9c-ea9e43cd586e	Tringa (Glottis) nebularia	(Gunnerus, 1767)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Common Greenshank	78
https://id.biodiversity.org.au/node/apni/2893022	Kennedia prostrata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Scarlet Runner	78
https://id.biodiversity.org.au/node/apni/2903256	Mesomelaena tetragona	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Semaphore Sedge	78
https://id.biodiversity.org.au/node/apni/2903772	Andersonia lehmanniana	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		78
https://id.biodiversity.org.au/node/apni/2887966	Sphaerolobium medium	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		77
https://id.biodiversity.org.au/node/apni/2888259	Dampiera linearis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Wedge-leaved Dampiera	77
https://id.biodiversity.org.au/node/apni/2903906	Olearia paucidentata	(Steetz) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Autumn Scrub Daisy	77
https://id.biodiversity.org.au/node/apni/2917378	Gompholobium polymorphum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		76
https://id.biodiversity.org.au/taxon/apni/51399140	Caladenia longicauda	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Spider Orchid	76
https://biodiversity.org.au/afd/taxa/a390a6d9-ca4f-459f-8959-e9305918590e	Eopsaltria (Eopsaltria) griseogularis	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Western Yellow Robin	75
https://id.biodiversity.org.au/node/apni/2911836	Babingtonia camphorosmae	(Endl.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		75
https://id.biodiversity.org.au/node/apni/2916273	Trachymene pilosa	Sm.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Dwarf Trachymene	75
https://id.biodiversity.org.au/node/apni/2911888	Stylidium hispidum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	White Butterfly Triggerplant	74
https://biodiversity.org.au/afd/taxa/0e041a24-4acb-4ce7-be6f-70d74dad88f4	Missulena granulosa	(O.P.-Cambridge, 1869)	species	Animalia	Arthropoda	Arachnida	Araneae	Actinopodidae		73
https://id.biodiversity.org.au/node/apni/2891523	Trymalium odoratissimum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		73
https://id.biodiversity.org.au/taxon/apni/51398952	Caladenia discoidea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dancing Spider Orchid	73
https://id.biodiversity.org.au/node/apni/2913714	Melaleuca radula	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Graceful Honeymyrtle	72
https://id.biodiversity.org.au/taxon/apni/51283213	Tetraria octandra	(Nees) KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		72
https://id.biodiversity.org.au/taxon/apni/51283549	Drosera erythrorhiza	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Red Ink Sundew	72
https://id.biodiversity.org.au/node/apni/2903052	Hovea chorizemifolia	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Holly-leaved Hovea	71
https://id.biodiversity.org.au/node/apni/2909424	Isopogon sphaerocephalus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Drumstick Isopogon	71
https://id.biodiversity.org.au/node/apni/2912077	Drosera rosulata	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		71
https://id.biodiversity.org.au/node/apni/2917276	Isotoma hypocrateriformis	(R.Br.) Druce	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Woodbridge Poison	71
https://biodiversity.org.au/afd/taxa/a440dcc3-2f4f-4d46-805c-25001af55df0	Leioproctus (Leioproctus) clarki	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	70

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2911414	Hakea erinacea	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Hedgehog Hakea	70
https://id.biodiversity.org.au/node/apni/2889830	Orthrosanthus laxus	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Morning Iris	69
https://id.biodiversity.org.au/node/apni/2898520	Verticordia densiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Compacted Featherflower	69
https://id.biodiversity.org.au/node/apni/2903987	Hakea cristata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		69
https://id.biodiversity.org.au/node/apni/2918220	Calectasia narragara	R.L.Barrett & K.W.Dixon	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Star Of Bethlehem	69
https://id.biodiversity.org.au/node/apni/7672843	Isopogon drummondii	HÃ¼gel ex Jacques	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		69
https://id.biodiversity.org.au/node/apni/2893374	Tricoryne elatior	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Yellow Rush Lily	68
https://biodiversity.org.au/afd/taxa/430b6cdf-cdf4-4f2f-9e05-20b5bdf3d34e	Heteronympha merope	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Common Brown Butterfly	67
https://id.biodiversity.org.au/node/apni/2896829	Diplopeltis huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		67
https://id.biodiversity.org.au/node/apni/2907367	Hypochaeris glabra	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Smooth Cat's Ear	67
https://id.biodiversity.org.au/node/apni/2918606	Dasypogon bromeliifolius	R.Br.	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Pineapple Bush	67
https://biodiversity.org.au/afd/taxa/028fcb36-2ec4-49a4-aa3c-75f45ef4ee39	Vanessa kershawi	(McCoy, 1868)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Australian Painted Lady	66
https://biodiversity.org.au/afd/taxa/fa87c996-8fa5-45e8-8ded-1119671b6dbc	Venator immansueta	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	66
https://id.biodiversity.org.au/node/apni/2913234	Banksia attenuata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Coast Banksia	66
https://id.biodiversity.org.au/node/apni/2918204	Hypocalymma robustum	(Endl.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swan River Myrtle	66
https://id.biodiversity.org.au/node/apni/6766971	Grevillea synapheae	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Catkin Grevillea	66
https://id.biodiversity.org.au/taxon/apni/51438089	Romulea rosea	(L.) Eckl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Onion Grass	66
https://id.biodiversity.org.au/node/apni/2896184	Sowerbaea laxiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Vanilla Lily	65
https://id.biodiversity.org.au/taxon/apni/51401270	Cyanicula gemmata	(Lindl.) Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blue China Orchid	65
https://id.biodiversity.org.au/taxon/apni/51435191	Tetratheca hirsuta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae	Black-eyed Susan	65
https://biodiversity.org.au/afd/taxa/0eb68607-1707-4665-bd2e-e505330f1e34	Aprasia repens	(Fry, 1914)	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Sand-plain Worm-lizard	63
https://biodiversity.org.au/afd/taxa/963a3572-e528-43fe-8849-31303ccec115	Castiarina pallidiventris	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		63
https://id.biodiversity.org.au/node/apni/2893408	Adenanthos cygnorum	Diels	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Boyur	63
https://id.biodiversity.org.au/node/apni/2910941	Isopogon asper	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		63
https://id.biodiversity.org.au/node/apni/2887259	Conostylis aurea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		62
https://id.biodiversity.org.au/node/apni/2900575	Mesomelaena pseudostygia	(KÃ¼k.) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Semaphore Sedge	62
https://id.biodiversity.org.au/node/apni/2906572	Drosera porrecta	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Leafy Sundew	62
https://id.biodiversity.org.au/node/apni/2886600	Gompholobium confertum	(DC.) Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		61
https://id.biodiversity.org.au/node/apni/2914365	Gompholobium marginatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		61
https://id.biodiversity.org.au/node/apni/2915810	Leucopogon pulchellus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Beard Heath	61
https://biodiversity.org.au/afd/taxa/344b6390-5540-4be1-af2b-9fa4c0be6ea9	Castiarina picta	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		60
https://id.biodiversity.org.au/node/apni/2886839	Gastrolobium spathulatum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		60
https://id.biodiversity.org.au/node/apni/2889387	Drosera pallida	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pale Rainbow	60
https://id.biodiversity.org.au/node/apni/2889771	Daviesia triflora	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		60
https://id.biodiversity.org.au/node/apni/2891615	Haemodorum laxum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bloodroot	60
https://id.biodiversity.org.au/node/apni/2894254	Lomandra preissii	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Preiss' Mat Rush	60
https://id.biodiversity.org.au/node/apni/2910279	Xanthosia candida	(Benth.) Steud.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		60
https://id.biodiversity.org.au/node/apni/2913192	Trymalium ledifolium	Fenzl	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		60
https://id.biodiversity.org.au/node/apni/2914166	Adenanthos barbiger	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Hairy Glandflower	60
https://id.biodiversity.org.au/taxon/apni/51414226	Thelymitra antennifera	(Lindl.) Hook.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Lemon Sun-orchid	60
https://biodiversity.org.au/afd/taxa/e20a8c27-a76e-46a8-b695-876d9905fae1	Underwoodisaurus milii	(Bory de Saint-Vincent, 1825)	species	Animalia	Chordata	Reptilia	Squamata	Carphodactylidae	Barking Gecko	59
https://id.biodiversity.org.au/node/apni/2909343	Thysanotus sparteus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Leafless Fringed Lily	59
https://id.biodiversity.org.au/node/apni/2918736	Hybanthus calycinus	(DC.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Violaceae	Wild Violet	59
https://biodiversity.org.au/afd/taxa/1a5a613b-7a8d-4ac7-9dcf-8b805a702db5	Anilios australis	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Southern Blind Snake	58
https://id.biodiversity.org.au/node/apni/2894004	Alexgeorgea nitens	(Nees) L.A.S.Johnson & B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		58
https://id.biodiversity.org.au/node/apni/9442728	Isotropis cuneifolia	(Sm.) Walp.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Granny Bonnets	58
https://id.biodiversity.org.au/node/apni/2911793	Lomandra nigricans	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		57
https://id.biodiversity.org.au/node/apni/2914079	Eucalyptus wandoo	Blakely	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	White Gum	57
https://id.biodiversity.org.au/node/apni/2916623	Hibbertia subvaginata	(Steud.) F.Muell.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		57
https://id.biodiversity.org.au/node/apni/2901123	Boronia ovata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		56
https://id.biodiversity.org.au/node/apni/2920316	Chamaescilla corymbosa	(R.Br.) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Blue Stars	56
https://id.biodiversity.org.au/taxon/apni/51412440	Pterostylis vittata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Banded Greenhood	56
https://id.biodiversity.org.au/taxon/apni/51434933	Hibbertia huegelii	(Endl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		56
https://biodiversity.org.au/afd/taxa/9efd0e81-5b7a-468c-b67d-d65cb7bb8048	Hyleoides zonalis	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		55

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/b495e8e6-42af-4096-97f5-91cb59a56c74	Hemiergis initialis	(Werner, 1910)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Southwestern Earless Skink	55
https://id.biodiversity.org.au/node/apni/2889612	Kingia australis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Drumsticks	55
https://id.biodiversity.org.au/node/apni/2906592	Borya sphaerocephala	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae	Pincushions	55
https://biodiversity.org.au/afd/taxa/8ce669b4-fb53-4be0-9203-b02444eca02a	Strepera (Neostrepera) versicolor	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Grey Currawong	54
https://biodiversity.org.au/afd/taxa/908e6ef4-de96-4951-a603-cb62caae6fdc	Neophema (Neonanodes) elegans	(Gould, 1838)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Elegant Parrot	54
https://id.biodiversity.org.au/node/apni/2899931	Stylidium dichotomum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pins And Needles	54
https://id.biodiversity.org.au/taxon/apni/51442313	Billardiera fraseri	(Hook.) L.W.Cayzer, Crisp & I.Telford	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Elegant Pronaya	54
https://biodiversity.org.au/afd/taxa/91f0535a-f513-417d-9826-8294ae640785	Podiceps cristatus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Podicipediformes	Podicipedidae	Great Crested Grebe	53
https://id.biodiversity.org.au/node/apni/2887451	Desmocladus fasciculatus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		53
https://id.biodiversity.org.au/node/apni/2894800	Gastrolobium capitatum	(Benth.) G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bacon And Eggs	53
https://id.biodiversity.org.au/node/apni/2908469	Stylidium brunonianum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pink Fountain Triggerplant	53
https://id.biodiversity.org.au/node/apni/2909103	Astroloma pallidum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Kick Bush	53
https://id.biodiversity.org.au/taxon/apni/51414346	Thelymitra macrophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Scented Sun Orchid	53
https://id.biodiversity.org.au/taxon/apni/51441950	Pterostylis sanguinea	D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blood Greenhood	53
https://biodiversity.org.au/afd/taxa/dfae4fa3-c11e-4e99-90e1-03f11f3f8e0d	Heleioporus psammophilus	(Lee & Main, 1954)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Sand Frog	52
https://biodiversity.org.au/afd/taxa/ee2cb6a9-e17c-4ca7-8aef-76d69eb969ed	Trichosurus vulpecula	(Kerr, 1792)	species	Animalia	Chordata	Mammalia	Diprotodontia	Phalangeridae	Common Brushtail Possum	52
https://biodiversity.org.au/afd/taxa/efe0bb66-d4c1-4da5-833e-387be4af091f	Diplacodes bipunctata	(Brauer, 1865)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Wandering Percher	52
https://id.biodiversity.org.au/node/apni/2895009	Conospermum huegelii	R.Br. ex Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Slender Smokebush	52
https://id.biodiversity.org.au/node/apni/2895436	Lyginia barbata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		52
https://id.biodiversity.org.au/node/apni/2900204	Anigozanthos humilis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Common Catspaw	52
https://id.biodiversity.org.au/node/apni/2900959	Eucalyptus todtiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Blackbutt	52
https://id.biodiversity.org.au/node/apni/2901761	Scaevola platyphylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Broad-leaved Fanflower	52
https://id.biodiversity.org.au/node/apni/2904766	Hemiandra pungens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Snakebush	52
https://id.biodiversity.org.au/node/apni/2910790	Hakea amplexicaulis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Prickly Hakea	52
https://id.biodiversity.org.au/node/apni/2913426	Amphipogon turbinatus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		52
https://id.biodiversity.org.au/node/apni/2919207	Conostephium pendulum	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Pearl Flower	52
https://id.biodiversity.org.au/node/apni/7817374	Grevillea manglesii	PÃ©pin	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Smooth Grevillea	52
https://id.biodiversity.org.au/taxon/apni/51399312	Caladenia reptans	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Pink Fairies	52
https://biodiversity.org.au/afd/taxa/10f7757e-79b1-4551-954a-1deb0ea91b2b	Cornu aspersum	(MÃ¼ller, 1774)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Helicidae	Common Garden Snail	51
https://biodiversity.org.au/afd/taxa/6cdfacfa-cc9a-4bf9-9af0-b9b4ac7324ca	Artoria linnaei	Framenau, 2008	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		51
https://biodiversity.org.au/afd/taxa/758297d1-9e18-4832-81eb-7a047db923b9	Maratus pavonis	(Dunn, 1947)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Species Of Peacock Spider	51
https://biodiversity.org.au/afd/taxa/d295e821-ba0e-48fb-be8d-8fbe55e5286e	Megachile ignita	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	51
https://id.biodiversity.org.au/node/apni/2895364	Scaevola repens	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		51
https://id.biodiversity.org.au/node/apni/2913127	Hemigenia incana	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Silky Hemigenia	51
https://id.biodiversity.org.au/taxon/apni/51412292	Pterostylis recurva	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Recurved Shell Orchid	51
https://biodiversity.org.au/afd/taxa/6b41acaa-4905-46cf-8865-3ac8cb5c4551	Ctenotus fallens	Storr, 1974	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	West-coast Laterite Ctenotus	50
https://id.biodiversity.org.au/node/apni/2889195	Jacksonia sternbergiana	HÃ¼gel ex Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Stinkwood	50
https://id.biodiversity.org.au/node/apni/2890451	Pimelea imbricata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		50
https://id.biodiversity.org.au/node/apni/2895339	Conostylis androstemma	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Trumpets	50
https://id.biodiversity.org.au/taxon/apni/51299934	Calytrix glutinosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		50
https://biodiversity.org.au/afd/taxa/4788c00f-9f49-40c2-8b28-71b3e28d71fd	Stictonetta naevosa	(Gould, 1841)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Freckled Duck	49
https://biodiversity.org.au/afd/taxa/86ece03e-acae-4057-8061-5eae8e0c1f03	Antichiropus variabilis	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		49
https://biodiversity.org.au/afd/taxa/c1817333-9c62-4a05-af03-fe5fb9c9a0ce	Rattus rattus	(Linnaeus, 1758)	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	Black Rat	49
https://id.biodiversity.org.au/node/apni/2886783	Conostylis juncea	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		49
https://id.biodiversity.org.au/node/apni/2889944	Drosera miniata	Diels	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Orange Sundew	49
https://id.biodiversity.org.au/node/apni/2893007	Hakea prostrata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Harsh Hakea	49
https://id.biodiversity.org.au/node/apni/2906779	Hibbertia aurea	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		49
https://id.biodiversity.org.au/node/apni/2910320	Pimelea suaveolens	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Scented Banjine	49
https://id.biodiversity.org.au/taxon/apni/51412034	Pterostylis barbata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bird Orchid	49
https://biodiversity.org.au/afd/taxa/43852efc-f1fd-4875-8e67-da3ca075f7e6	Menetia greyii	Gray, 1845	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Grey's Menetia	48

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/a2399fe3-c90f-4fb1-a710-fe81643ff56e	Parvipsitta porphyrocephala	(Dietrichsen, 1837)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Purple-crowned Lorikeet	48
https://biodiversity.org.au/afd/taxa/c2a22476-c12f-42ad-be42-36eddd8497cb	Hylaeus (Euprosopoides) ruficeps	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	48
https://biodiversity.org.au/afd/taxa/e768b701-c4ce-445a-b798-f3126170f7a9	Neelaps calonotus	(DumÃ©ril, Bibron & DumÃ©ril, 1854)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Western Black-striped Snake	48
https://id.biodiversity.org.au/node/apni/2888967	Cryptandra arbutiflora	Fenzl	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Waxy Cryptandra	48
https://id.biodiversity.org.au/node/apni/2918704	Acacia saligna	(Labill.) H.L.Wendl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Golden Wreath Wattle	48
https://biodiversity.org.au/afd/taxa/3575c98d-5e7d-46fd-a62e-a499b15cffbc	Hemicordulia tau	(Selys, 1871)	species	Animalia	Arthropoda	Insecta	Odonata	Corduliidae	Tau Emerald	47
https://id.biodiversity.org.au/node/apni/2886109	Goodenia fasciculata	(Benth.) Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Bristly Goodenia	47
https://id.biodiversity.org.au/node/apni/2892328	Labichea punctata	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Lance-leaved Cassia	47
https://id.biodiversity.org.au/taxon/apni/51311315	Stylidium tenue	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		47
https://id.biodiversity.org.au/node/apni/2890836	Laxmannia squarrosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Paper Lily	46
https://id.biodiversity.org.au/node/apni/2895437	Gastrolobium dilatatum	(Benth. ex Lindl.) G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		46
https://id.biodiversity.org.au/node/apni/2900733	Hakea ruscifolia	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Candle Hakea	46
https://id.biodiversity.org.au/node/apni/2904117	Caesia micrantha	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pale Grass Lily	46
https://id.biodiversity.org.au/node/apni/2912980	Acacia applanata	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grass Wattle	46
https://id.biodiversity.org.au/taxon/apni/51437646	Johnsonia pubescens	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pipe Lily	46
https://biodiversity.org.au/afd/taxa/750f4764-1b64-444d-9d58-385bcf101d8f	Rhytidoponera metallica	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Metallic Pony Ants	45
https://biodiversity.org.au/afd/taxa/9db59218-494a-4286-9853-3907a0b9c5a4	Megachile (Eutricharaea) macularis	Dalla Torre, 1896	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	45
https://biodiversity.org.au/afd/taxa/c6f51290-256a-4cc8-b253-753ba39e6d74	Lasioglossum (Chilalictus) platychilum	Walker, 1999	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		45
https://biodiversity.org.au/afd/taxa/cf8af5bb-5284-43ba-abe6-7757aaaa8c6d	Hemiergis quadrilineata	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Two-toed Earless Skink	45
https://biodiversity.org.au/afd/taxa/fe0d262e-2847-4493-8aed-68cb376b2779	Suta gouldii	(Gray, 1841)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Gould's Hooded Snake	45
https://id.biodiversity.org.au/node/apni/2889378	Tribonanthes longipetala	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Branching Tiurndin	45
https://id.biodiversity.org.au/node/apni/2895373	Acacia sessilis	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		45
https://id.biodiversity.org.au/node/apni/2899048	Burchardia multiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Lesser Burchardia	45
https://id.biodiversity.org.au/node/apni/2907115	Styphelia tenuiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Common Pinheath	45
https://id.biodiversity.org.au/node/apni/2913839	Thomasia foliosa	J.Gay	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		45
https://id.biodiversity.org.au/node/apni/2917156	Stylidium amoenum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Lovely Triggerplant	45
https://id.biodiversity.org.au/taxon/apni/51405030	Elythranthera emarginata	(Lindl.) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Enamel Orchid	45
https://id.biodiversity.org.au/taxon/apni/51412478	Pyrorchis nigricans	(R.Br.) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Black Fire-orchid	45
https://id.biodiversity.org.au/taxon/apni/51445443	Grevillea thelemanniana	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spider Net Grevillea	45
https://biodiversity.org.au/afd/taxa/0628244e-287b-4001-946e-5a41ef056f41	Falco (Ieracidea) berigora	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Brown Falcon	44
https://biodiversity.org.au/afd/taxa/1ed45f0a-8a3a-4a7e-8eca-43a86fb1688c	Erythrogonys cinctus	Gould, 1838	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Red-kneed Dotterel	44
https://biodiversity.org.au/afd/taxa/5a264c77-a7d1-43ca-ae1f-233f59b175aa	Ptilotula ornata	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Yellow-plumed Honeyeater	44
https://biodiversity.org.au/afd/taxa/7b7a290d-ca89-494f-8f2e-7f05311240f2	Stipiturus malachurus	(Shaw, 1798)	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Southern Emu-wren	44
https://biodiversity.org.au/afd/taxa/ce1a4277-b012-4bcc-a8d7-7246296a1ca1	Zapornia pusilla	(Pallas, 1776)	species	Animalia	Chordata	Aves	Gruiformes	Rallidae	Baillon's Crake	44
https://id.biodiversity.org.au/node/apni/2893533	Acacia teretifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		44
https://id.biodiversity.org.au/node/apni/2905837	Melaleuca rhaphiophylla	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Paperbark	44
https://id.biodiversity.org.au/node/apni/2914928	Astroloma foliosum	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Candle Cranberry	44
https://id.biodiversity.org.au/taxon/apni/51267100	Thysanotus multiflorus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Many-flowered Fringe	44
https://id.biodiversity.org.au/taxon/apni/51269051	Trichocline spathulata	(A.Cunn. ex DC.) J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Native Gerbera	44
https://id.biodiversity.org.au/taxon/apni/51409759	Prasophyllum fimbria	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Fringed Leek Orchid	44
https://id.biodiversity.org.au/taxon/apni/51445824	Cheilanthes austrotenuifolia	H.M.Quirk & T.C.Chambers	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Green Rock-fern	44
https://biodiversity.org.au/afd/taxa/9a6a5e1c-5302-40e4-b831-c4175b49f2ea	Hortophora biapicata	(L. Koch, 1871)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		43
https://biodiversity.org.au/afd/taxa/9ef69c18-0be1-4ac1-8288-3e2358944971	Brachyurophis semifasciatus	GÃ¼nther, 1863	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Southern Shovel-nosed Snake	43
https://biodiversity.org.au/afd/taxa/9f7965cb-d6a0-4833-a241-7d53ec570b98	Venatrix pullastra	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		43
https://biodiversity.org.au/afd/taxa/b753892a-155e-4190-98ab-8e85cc9840b7	Bubulcus ibis	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Cattle Egret	43
https://id.biodiversity.org.au/node/apni/2900479	Hibbertia commutata	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		43
https://id.biodiversity.org.au/node/apni/2904505	Viminaria juncea	(Schrad. & J.C.Wendl.) Hoffmanns.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Native Broom	43
https://id.biodiversity.org.au/taxon/apni/51302276	Eremaea pauciflora	(Endl.) Druce	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		43
https://biodiversity.org.au/afd/taxa/858cf1dc-05bb-415d-bdab-996d90e3891e	Diplacodes haematodes	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Scarlet Percher	42

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/de840853-a3a3-4ec5-9dc0-7f12680a054f	Climacteris (Climacteris) rufus	Gould, 1841	species	Animalia	Chordata	Aves	Passeriformes	Climacteridae	Rufous Treecreeper	42
https://id.biodiversity.org.au/node/apni/2913476	Grevillea wilsonii	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wilson's Grevillea	42
https://biodiversity.org.au/afd/taxa/1ef26825-8768-42fa-85e2-61b7a68d2a73	Amegilla (Notomegilla) chlorocyanea	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Blue Banded Bee	41
https://biodiversity.org.au/afd/taxa/432ff91d-d78a-4d90-8f6e-2371a385610e	Harmonia conformis	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Common Spotted Ladybird	41
https://biodiversity.org.au/afd/taxa/647143da-474c-45b4-9075-68f14c63b977	Megacmonotus magnus	(McLachlan, 1871)	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae	Owlfly	41
https://biodiversity.org.au/afd/taxa/cc7aa9fc-3d0f-4be2-9642-a377f545dd2d	Lampona cylindrata	(L. Koch, 1866)	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	41
https://biodiversity.org.au/afd/taxa/e9e85f33-224c-40ce-b48d-290d1a41eb9d	Isoodon obesulus	(Shaw, 1797)	species	Animalia	Chordata	Mammalia	Peramelemorphia	Peramelidae	Southern Brown Bandicoot	41
https://id.biodiversity.org.au/node/apni/2889451	Echium plantagineum	L.	species	Plantae	Charophyta	Equisetopsida		Boraginaceae	Paterson's Curse	41
https://id.biodiversity.org.au/node/apni/2909279	Levenhookia stipitata	(Benth.) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Common Stylewort	41
https://id.biodiversity.org.au/node/apni/2913209	Hakea myrtoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Myrtle Hakea	41
https://id.biodiversity.org.au/node/apni/2919437	Melaleuca parviceps	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		41
https://id.biodiversity.org.au/node/apni/2919963	Stylidium bulbiferum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Circus Triggerplant	41
https://id.biodiversity.org.au/node/apni/2921305	Synaphea spinulosa	(Burm.f.) Merr.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		41
https://id.biodiversity.org.au/taxon/apni/51267241	Arctotheca calendula	(L.) K.Lewin	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cape Weed	41
https://id.biodiversity.org.au/taxon/apni/51409843	Prasophyllum parvifolium	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Autunm Leek Orchid	41
https://biodiversity.org.au/afd/taxa/70ed370b-5244-40ff-a2ad-fd1ffb15a1c8	Hylaeus (Euprosopis) elegans	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	40
https://id.biodiversity.org.au/node/apni/2891893	Podolepis gracilis	Graham	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Slender Podolepis	40
https://id.biodiversity.org.au/node/apni/2895772	Sonchus oleraceus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Sow-thistle	40
https://id.biodiversity.org.au/node/apni/2909260	Lobelia anceps	L.f.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Angled Lobelia	40
https://id.biodiversity.org.au/node/apni/2912173	Kennedia stirlingii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		40
https://id.biodiversity.org.au/node/apni/2914091	Synaphea acutiloba	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Granite Synaphea	40
https://id.biodiversity.org.au/node/apni/2917235	Pterochaeta paniculata	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		40
https://id.biodiversity.org.au/node/apni/2917770	Scaevola glandulifera	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Viscid Hand-flower	40
https://id.biodiversity.org.au/node/apni/2920375	Acacia nervosa	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Rib Wattle	40
https://id.biodiversity.org.au/node/apni/8504994	Daviesia cordata	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bookleaf	40
https://id.biodiversity.org.au/taxon/apni/51270456	Centrolepis aristata	(R.Br.) Roem. & Schult.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae	Pointed Centrolepis	40
https://id.biodiversity.org.au/taxon/apni/51406461	Leporella fimbriata	(Lindl.) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Fringed Hare-orchid	40
https://biodiversity.org.au/afd/taxa/25c5be60-66bb-4153-90b1-cba9e48a3c0a	Tasmanicosa leuckartii	(Thorell, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Leuckartâ€™s Wolf Spider, Hay Spider	39
https://biodiversity.org.au/afd/taxa/ba441564-a689-411b-8fb8-0c673a799f63	Austrogomphus (Austrogomphus) collaris	Hagen, 1854	species	Animalia	Arthropoda	Insecta	Odonata	Gomphidae	Western Inland Hunter	39
https://id.biodiversity.org.au/node/apni/2888613	Daviesia angulata	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		39
https://id.biodiversity.org.au/node/apni/2894397	Xanthosia huegelii	(Benth.) Steud.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Hairy Xanthosia	39
https://id.biodiversity.org.au/node/apni/2908142	Lomandra hermaphrodita	(C.R.P.Andrews) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		39
https://id.biodiversity.org.au/node/apni/2916692	Drosera stolonifera	Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Leafy Sundew	39
https://id.biodiversity.org.au/node/apni/2919519	Calytrix fraseri	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Pink Summer Calytrix	39
https://id.biodiversity.org.au/node/apni/7392107	Scaevola canescens	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Grey Scaevola	39
https://id.biodiversity.org.au/taxon/apni/51286923	Acacia huegelii	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Huegel's Wattle	39
https://id.biodiversity.org.au/taxon/apni/51441699	Eriochilus dilatatus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Bunny Orchid	39
https://biodiversity.org.au/afd/taxa/5cacd903-a23e-446f-8aaf-f34de02a7be8	Castiarina simulata	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		38
https://biodiversity.org.au/afd/taxa/efb6a702-2846-4c11-9234-d93b31f27d80	Strophurus spinigerus	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Soft Spiny-tailed Gecko	38
https://id.biodiversity.org.au/node/apni/2892003	Wurmbea dioica	(R.Br.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Common Early Nancy	38
https://id.biodiversity.org.au/node/apni/2896509	Jacksonia furcellata	(Bonpl.) DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grey Stinkwood	38
https://id.biodiversity.org.au/node/apni/2897039	Labichea lanceolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		38
https://id.biodiversity.org.au/node/apni/2900436	Pericalymma ellipticum	(Endl.) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Teatree	38
https://id.biodiversity.org.au/node/apni/2920286	Boronia cymosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Granite Boronia	38
https://id.biodiversity.org.au/node/apni/2920474	Centrolepis drummondiana	(Nees) Walp.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae	Drummond's Centrolepis	38
https://id.biodiversity.org.au/taxon/apni/51312315	Petrophile striata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		38
https://id.biodiversity.org.au/taxon/apni/51438111	Watsonia meriana	(L.) Mill.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Bugle Lily	38
https://biodiversity.org.au/afd/taxa/0b67b63f-596a-4780-93fa-6c53d5205923	Notechis scutatus	(Peters, 1861)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Tiger Snake	37
https://biodiversity.org.au/afd/taxa/100b0451-6b69-4fd8-b972-d95e8b5b771e	Anax papuensis	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Aeshnidae	Australian Emperor	37
https://biodiversity.org.au/afd/taxa/38d12254-ea16-4526-82dc-45f7ac778e66	Pogona minor	(Sternfeld, 1919)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Dwarf Bearded Dragon	37
https://biodiversity.org.au/afd/taxa/608a8098-c27c-4358-8b55-59df75089a2e	Dasypodia selenophora	GuenÃ©e, 1852	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Granny Moth	37

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/89dd1fb0-2549-4285-9b8a-724c39f4542a	Junonia villida	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Meadow Argus	37
https://biodiversity.org.au/afd/taxa/9cc11ab9-ab7a-43d6-a04f-3ae4c7a1a42a	Charadrius (Charadrius) ruficapillus	Temminck, 1821	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Red-capped Plover	37
https://biodiversity.org.au/afd/taxa/c2cf20ac-dafd-4197-b09b-3336be930d66	Lasioglossum (Chilalictus) lanarium	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	37
https://id.biodiversity.org.au/taxon/apni/51288894	Beaufortia purpurea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Purple Beaufortia	37
https://id.biodiversity.org.au/taxon/apni/51406630	Microtis media	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Mignonette Orchid	37
https://id.biodiversity.org.au/taxon/apni/51442541	Briza minor	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lesser Quaking-grass	37
https://biodiversity.org.au/afd/taxa/127ae005-62ed-4868-b947-b1a981d5e579	Danaus plexippus	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Wanderer	36
https://biodiversity.org.au/afd/taxa/27864bfe-de45-423f-867a-1341c4fe8906	Lophyrotoma analis	(Costa, 1864)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	36
https://id.biodiversity.org.au/node/apni/2904553	Daviesia polyphylla	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		36
https://id.biodiversity.org.au/node/apni/2908272	Hakea petiolaris	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Sea-urchin Hakea	36
https://id.biodiversity.org.au/node/apni/2910680	Hakea incrassata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Marble Hakea	36
https://id.biodiversity.org.au/node/apni/2915937	Macrozamia riedlei	(Fisch. ex Gaudich.) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Cycadales	Zamiaceae	Zamia Palm	36
https://id.biodiversity.org.au/taxon/apni/51288522	Lasiopetalum glutinosum	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		36
https://biodiversity.org.au/afd/taxa/b9e92e08-8914-4b07-adf7-fefe80d0b1ef	Urodacus planimanus	Pocock, 1893	species	Animalia	Arthropoda	Arachnida	Scorpiones	Urodacidae		35
https://biodiversity.org.au/afd/taxa/ef05bc70-73bc-4874-b884-ede42aaa3838	Isopeda leishmanni	Hogg, 1903	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Huntsman Spider	35
https://id.biodiversity.org.au/node/apni/2894173	Hydrocotyle callicarpa	Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Tiny Pennywort	35
https://id.biodiversity.org.au/node/apni/2907926	Drosera heterophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Swamp Rainbow	35
https://id.biodiversity.org.au/node/apni/6283310	Conostylis aculeata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Prickly Conostylis	35
https://id.biodiversity.org.au/taxon/apni/51291098	Fumaria capreolata	L.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Papaveraceae	White-flowered Fumitory	35
https://id.biodiversity.org.au/taxon/apni/51298315	Drosera menziesii	R.Br. ex DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pink Rainbow	35
https://id.biodiversity.org.au/taxon/apni/51404255	Diuris longifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Donkey Orchid	35
https://biodiversity.org.au/afd/taxa/0b73e8bb-c141-4f07-8b14-47c3510c9c98	Badumna insignis	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae	Black House Spider	34
https://biodiversity.org.au/afd/taxa/1861ae1a-7c5f-48a6-a62b-60cf51cd4815	Lasioglossum (Chilalictus) chapmani	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	34
https://biodiversity.org.au/afd/taxa/1964c111-f647-4cb5-9878-1dfcec14ad18	Stigmodera gratiosa	Chevrolat, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		34
https://biodiversity.org.au/afd/taxa/bdcc0acc-980a-4f51-b8c0-85447ce59bea	Melithreptus (Eidopsarus) brevirostris	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Brown-headed Honeyeater	34
https://biodiversity.org.au/afd/taxa/c1097a2c-59ea-44ba-ad76-bcff7091d558	Zygometis xanthogaster	(L. Koch, 1875)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	34
https://id.biodiversity.org.au/node/apni/2891670	Eucalyptus rudis	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Flooded Gum	34
https://id.biodiversity.org.au/node/apni/2900996	Verticordia pennigera	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Native Tea	34
https://id.biodiversity.org.au/node/apni/2902331	Oxalis glabra	Thunb.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Finger-leaf Wood-sorrel	34
https://id.biodiversity.org.au/node/apni/2919212	Gompholobium knightianum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Knight's Wedge-pea	34
https://id.biodiversity.org.au/node/apni/6286726	Conostylis caricina	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		34
https://biodiversity.org.au/afd/taxa/2ecff0de-1ba4-4b53-a368-0e01d36c289d	Tringa (Rhyacophilus) glareola	Linnaeus, 1758	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Wood Sandpiper	33
https://biodiversity.org.au/afd/taxa/434b84c2-25ab-4bf9-98f8-06cf29d4ba50	Ardices glatignyi	(Le Guillou, 1841)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		33
https://biodiversity.org.au/afd/taxa/5d2f10e5-7ff9-4f9a-afce-49da90f8772c	Isopedella cana	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		33
https://biodiversity.org.au/afd/taxa/60bfacba-1394-4f13-aebd-62e8e0353931	Idiommata blackwallii	(O.P.-Cambridge, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		33
https://id.biodiversity.org.au/node/apni/2886043	Euchilopsis linearis	(Benth.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Swamp Pea	33
https://id.biodiversity.org.au/node/apni/2887643	Hyalosperma cotula	(Benth.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		33
https://id.biodiversity.org.au/node/apni/2887834	Clematis pubescens	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Common Clematis	33
https://id.biodiversity.org.au/node/apni/2888659	Stylidium androsaceum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Book Triggerplant	33
https://id.biodiversity.org.au/node/apni/2893312	Conospermum stoechadis	Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Common Smokebush	33
https://id.biodiversity.org.au/node/apni/2899222	Arnocrinum preissii	Lehm.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae		33
https://id.biodiversity.org.au/node/apni/2906672	Cassytha racemosa	Nees	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	33
https://id.biodiversity.org.au/taxon/apni/51401282	Cyanicula sericea	(Lindl.) Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Silky Blue Orchid	33
https://id.biodiversity.org.au/taxon/apni/51702959	Bossiaea ornata	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Broad-leaved Brown Pea	33
https://biodiversity.org.au/afd/taxa/014d2242-84ae-4895-86bc-dbab37cd5825	Leioproctus (Ceratocolletes) antennatus	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		32
https://biodiversity.org.au/afd/taxa/0f5df411-17dd-4719-91de-158fb1a77b27	Cracticus nigrogularis	(Gould, 1837)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Pied Butcherbird	32
https://biodiversity.org.au/afd/taxa/62b934bc-3033-4422-9cd4-2ed42513f485	Iridomyrmex purpureus	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Meat Ant	32

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/683a3853-83cd-4c65-b980-747884c6fde4	Acritoscincus trilineatus	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Three-lined Skink	32
https://biodiversity.org.au/afd/taxa/88c246ac-81a1-4307-90db-2cbb0db3ab5b	Maratus griseus	(Keyserling, 1882)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		32
https://id.biodiversity.org.au/node/apni/2888856	Verticordia lindleyi	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		32
https://id.biodiversity.org.au/node/apni/2890358	Dichopogon capillipes	(Endl.) Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		32
https://id.biodiversity.org.au/node/apni/2894898	Taxandria linearifolia	(DC.) J.R.Wheeler & N.G.Marchant	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		32
https://id.biodiversity.org.au/node/apni/2908115	Hakea stenocarpa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		32
https://id.biodiversity.org.au/node/apni/2914252	Austrostipa compressa	(R.Br.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		32
https://id.biodiversity.org.au/node/apni/2920511	Blancoa canescens	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Winter Bell	32
https://biodiversity.org.au/afd/taxa/3d409f65-c6f7-4836-b42c-5490698012bf	Maratus hortorum	Waldock, 2014	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		31
https://biodiversity.org.au/afd/taxa/6f3088ea-6e92-4e44-9d88-9d45016ae4ff	Jalmenus inous	Hewitson, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Varied Hairstreak	31
https://biodiversity.org.au/afd/taxa/b898b490-ecde-4a08-a322-7872fde06c03	Archimantis sobrina	Saussure, 1872	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Large Brown Mantid	31
https://id.biodiversity.org.au/node/apni/2898454	Eutaxia virgata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		31
https://id.biodiversity.org.au/node/apni/2901041	Tribonanthes brachypetala	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Nodding Tiurndin	31
https://id.biodiversity.org.au/node/apni/2907010	Stylidium diuroides	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Donkey Triggerplant	31
https://id.biodiversity.org.au/node/apni/2910246	Lyginia imberbis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		31
https://id.biodiversity.org.au/node/apni/2915284	Xanthorrhoea acanthostachya	D.J.Bedford	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae		31
https://id.biodiversity.org.au/node/apni/2921092	Anigozanthos bicolor	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Little Kangaroo Paw	31
https://id.biodiversity.org.au/node/apni/7910981	Verticordia plumosa	(Desf.) Druce	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Plumed Featherflower	31
https://id.biodiversity.org.au/taxon/apni/51404261	Diuris magnifica	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pansy Orchid	31
https://biodiversity.org.au/afd/taxa/38dbd7e1-2b59-4485-987c-3c712ba4986e	Oenochroma vinaria	GuenÃ©e, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Grevillea Looper Moth	30
https://biodiversity.org.au/afd/taxa/59bcb0d8-4caf-4055-831c-b319b12870f5	Acrida conica	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Giant Green Slant-face	30
https://biodiversity.org.au/afd/taxa/b1e1d9a6-e04d-4340-8fe5-1b4cafdddae0	Kobonga umbrimargo	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Cicada	30
https://biodiversity.org.au/afd/taxa/bc165f53-184b-4531-8754-f82328676445	Cormocephalus aurantiipes	(Newport, 1844)	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae	Orange-footed Centipede	30
https://biodiversity.org.au/afd/taxa/f4abd087-4596-439f-8359-c0a884502751	Nyssus albopunctatus	(Hogg, 1896)	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae	Sac Spider	30
https://id.biodiversity.org.au/node/apni/2888174	Lomandra caespitosa	(F.Muell. ex Benth.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Tufted Mat-rush	30
https://id.biodiversity.org.au/node/apni/2888611	Aira caryophyllea	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Silvery Hairgrass	30
https://id.biodiversity.org.au/node/apni/2898345	Homalosciadium homalocarpum	(F.Muell.) H.Eichler	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		30
https://id.biodiversity.org.au/node/apni/2902062	Hypolaena exsulca	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		30
https://id.biodiversity.org.au/node/apni/2903285	Melaleuca lateritia	A.Dietr.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Robin Redbreast Bush	30
https://id.biodiversity.org.au/node/apni/2911686	Thomasia macrocarpa	Endl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Large-fruited Thomasia	30
https://id.biodiversity.org.au/node/apni/2913902	Calytrix flavescens	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Summer Starflower	30
https://id.biodiversity.org.au/node/apni/2915089	Allocasuarina fraseriana	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Western Sheoak	30
https://biodiversity.org.au/afd/taxa/104393e0-22e8-496d-ac72-a8dd8387f612	Coccinella transversalis	Fabricius, 1781	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Transverse Ladybird	29
https://biodiversity.org.au/afd/taxa/13530e3c-5455-4e5b-ba26-3fa156c6281a	Crenadactylus ocellatus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	South-western Clawless Gecko	29
https://biodiversity.org.au/afd/taxa/2309b703-d925-400d-8d5b-7e42087bb519	Polistes (Polistes) dominulus	(Christ, 1791)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		29
https://biodiversity.org.au/afd/taxa/2a11ad06-7fdc-475b-b2f2-b97d4cb03b12	Cincloramphus (Maclennania) mathewsi	Iredale, 1911	species	Animalia	Chordata	Aves	Passeriformes	Locustellidae	Rufous Songlark	29
https://biodiversity.org.au/afd/taxa/6e61b4ab-a84f-42e7-ad78-d2f84c02d3bb	Ommatoiulus moreleti	(Lucas, 1860)	species	Animalia	Arthropoda	Diplopoda	Julida	Julidae	Portuguese Millipede	29
https://biodiversity.org.au/afd/taxa/99f1b07e-7338-4af1-a590-27647f7761a2	Megachile (Eutricharaea) serricauda	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	29
https://biodiversity.org.au/afd/taxa/b52dab59-9922-449c-937b-8210c2452edc	Castiarina crocicolor	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		29
https://id.biodiversity.org.au/node/apni/2893609	Lomandra sericea	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Silky Mat Rush	29
https://id.biodiversity.org.au/node/apni/2893885	Thomasia grandiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Large-flowered Thomasia	29
https://id.biodiversity.org.au/node/apni/2900467	Jacksonia alata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		29
https://id.biodiversity.org.au/node/apni/2905459	Leucopogon conostephioides	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		29
https://id.biodiversity.org.au/node/apni/2911947	Austrostipa campylachne	(Nees) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		29
https://id.biodiversity.org.au/node/apni/2912060	Stackhousia monogyna	Labill.	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae	Creamy Candles	29
https://id.biodiversity.org.au/node/apni/2916036	Acacia willdenowiana	H.L.Wendl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grass Wattle	29
https://id.biodiversity.org.au/node/apni/2918481	Scaevola calliptera	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Royal Robe	29

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51405028	Elythranthera brunonis	(Endl.) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Purple Enamel Orchid	29
https://id.biodiversity.org.au/taxon/apni/51439113	Craspedia variabilis	J.Everett & Doust	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Billy-buttons	29
https://biodiversity.org.au/afd/taxa/52f22ad4-7948-493b-9ea0-b20f90070dbc	Austrolestes analis	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Slender Ringtail	28
https://biodiversity.org.au/afd/taxa/a2215af4-c787-4b4f-91d6-8d4865ca9e8f	Orthodera ministralis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Green Mantid	28
https://id.biodiversity.org.au/node/apni/2890273	Jacksonia restioides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		28
https://id.biodiversity.org.au/node/apni/2891342	Levenhookia pusilla	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Tiny Stylewort	28
https://id.biodiversity.org.au/node/apni/2896402	Agrostocrinum hirsutum	(Lindl.) Keighery	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Grass Lily	28
https://id.biodiversity.org.au/node/apni/2913123	Acacia incrassata	Hook.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		28
https://id.biodiversity.org.au/node/apni/2915434	Lepidosperma rostratum	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Beaked Lepidosperma	28
https://id.biodiversity.org.au/node/apni/2919672	Stylidium schoenoides	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Cow Kicks	28
https://id.biodiversity.org.au/node/apni/2920050	Ptilotus drummondii	(Moq.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Narrowleaf Mulla Mulla	28
https://id.biodiversity.org.au/taxon/apni/51404199	Diuris corymbosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Donkey Orchid	28
https://id.biodiversity.org.au/taxon/apni/51436621	Acacia oncinophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hook-leaved Acacia	28
https://id.biodiversity.org.au/taxon/apni/51438989	Commersonia corniculata	(Sm.) K.A.Sheph. & C.F.Wilkins	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		28
https://biodiversity.org.au/afd/taxa/23892e0b-7308-482e-9a10-aff19b546ca8	Ctenophorus ornatus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Ornate Dragon	27
https://biodiversity.org.au/afd/taxa/6b28c275-9642-4741-a910-5463b5159f0a	Malurus (Leggeornis) lamberti	Vigors & Horsfield, 1827	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Variegated Fairy-wren	27
https://biodiversity.org.au/afd/taxa/db818fde-1cfb-4e30-976d-a79381f9b8a7	Chasmoptera huttii	(Westwood, 1848)	species	Animalia	Arthropoda	Insecta	Neuroptera	Nemopteridae		27
https://biodiversity.org.au/afd/taxa/dc420306-4746-4663-9c2d-cf367587f728	Haliaeetus (Pontoaetus) leucogaster	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	White-bellied Sea-eagle	27
https://biodiversity.org.au/afd/taxa/e4e56db2-23b3-4df1-8c29-d41471d4520b	Lasioglossum (Chilalictus) cognatum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	27
https://id.biodiversity.org.au/name/apni/51731447	Leptospermopsis erubescens	(Schauer) Peter G.Wilson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		27
https://id.biodiversity.org.au/node/apni/2889536	Astroloma stomarrhena	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Red Swamp Cranberry	27
https://id.biodiversity.org.au/node/apni/2893765	Siloxerus humifusus	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Procumbent Siloxerus	27
https://id.biodiversity.org.au/node/apni/2894284	Chamaescilla versicolor	(Lindl.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		27
https://id.biodiversity.org.au/node/apni/2895473	Daviesia physodes	A.Cunn. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		27
https://id.biodiversity.org.au/node/apni/2896233	Platysace juncea	(Bunge) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		27
https://id.biodiversity.org.au/node/apni/2899692	Eryngium pinnatifidum	Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Blue Devils	27
https://id.biodiversity.org.au/node/apni/2908167	Macarthuria australis	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Limeaceae		27
https://id.biodiversity.org.au/node/apni/2921246	Ehrharta calycina	Sm.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Perennial Veldt-grass	27
https://id.biodiversity.org.au/taxon/apni/51435902	Daviesia divaricata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Marno	27
https://biodiversity.org.au/afd/taxa/0934f609-aae6-45fe-8711-14aba5e58ae9	Dinocambala ingens	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Spirostreptida	Iulomorphidae		26
https://biodiversity.org.au/afd/taxa/83672d75-48f9-4d93-8c1c-b5a9d25ec640	Idiosoma sigillatum	(O.P.-Cambridge, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae	Swan Coastal Plain Shield-backed Trapdoor Spider	26
https://biodiversity.org.au/afd/taxa/b2ba552f-d11a-4eb3-949a-9ed92b43837c	Akamptogonus novarae	(Humbert & de Saussure, 1869)	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		26
https://biodiversity.org.au/afd/taxa/f5738d4d-eacd-4ab6-b88a-e15a5adbcf47	Megachile erythropyga	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	26
https://id.biodiversity.org.au/node/apni/2886079	Dasypogon obliquifolius	Nees	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae		26
https://id.biodiversity.org.au/node/apni/2891141	Goodenia coerulea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		26
https://id.biodiversity.org.au/node/apni/2893349	Schoenus curvifolius	(R.Br.) Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		26
https://id.biodiversity.org.au/node/apni/2896403	Hemiandra linearis	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Speckled Snakebush	26
https://id.biodiversity.org.au/node/apni/2899343	Plantago lanceolata	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Ribwort	26
https://id.biodiversity.org.au/node/apni/2900824	Desmocladus flexuosus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		26
https://id.biodiversity.org.au/node/apni/2901354	Xanthorrhoea gracilis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae	Graceful Grass Tree	26
https://id.biodiversity.org.au/node/apni/2906808	Cyathochaeta avenacea	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		26
https://id.biodiversity.org.au/node/apni/2915685	Rytidosperma setaceum	(R.Br.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Small-flower Wallaby-grass	26
https://id.biodiversity.org.au/node/apni/6475313	Monotaxis grandiflora	Endl.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Diamond Of The Desert	26
https://id.biodiversity.org.au/node/apni/7458101	Pauridia occidentalis	(Benth.) Snijman & Kocyan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hypoxidaceae		26
https://id.biodiversity.org.au/taxon/apni/51289286	Calothamnus sanguineus	Labill.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Silky-leaved Bloodflower	26
https://id.biodiversity.org.au/taxon/apni/51744680	Lagenophora huegelii	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Coarse Bottle-daisy	26
https://biodiversity.org.au/afd/taxa/2c1e0bca-1ac1-4f75-9c7d-23953469f871	Lerista elegans	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Elegant Slider	25

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/657bba81-c458-4a19-a8eb-5baf09277788	Heteronychus arator	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	African Black Beetle	25
https://biodiversity.org.au/afd/taxa/721bb023-8bde-4961-bbd1-fe07a25fa9af	Holconia westralia	Hirst, 1991	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		25
https://biodiversity.org.au/afd/taxa/7b31b043-a8c7-4e48-9681-dcea0569d8db	Nyssus coloripes	Walckenaer, 1805	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae	Spotted Ground Swift Spider	25
https://biodiversity.org.au/afd/taxa/984826e3-cee5-4cc6-b993-ecce9d8dbdaf	Neochmia (Aegintha) temporalis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Estrildidae	Red-browed Finch	25
https://biodiversity.org.au/afd/taxa/e621e01d-c3d0-4c99-bcb6-f4aaea7f6e3b	Steatoda grossa	(C.L. Koch, 1838)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	25
https://id.biodiversity.org.au/node/apni/2887591	Pimelea ciliata	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	White Banjine	25
https://id.biodiversity.org.au/node/apni/2893355	Trifolium angustifolium	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-leaf Clover	25
https://id.biodiversity.org.au/node/apni/2895458	Asparagus asparagoides	(L.) W.Wight	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Western Cape Bridal Creeper	25
https://id.biodiversity.org.au/node/apni/2895963	Haemodorum spicatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bohn	25
https://id.biodiversity.org.au/node/apni/2899185	Acacia obovata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		25
https://id.biodiversity.org.au/node/apni/2900173	Persoonia saccata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Snottygobble	25
https://id.biodiversity.org.au/node/apni/2903217	Phlebocarya ciliata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		25
https://id.biodiversity.org.au/node/apni/2907440	Phlebocarya filifolia	(F.Muell.) Benth.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		25
https://id.biodiversity.org.au/node/apni/2908227	Haemodorum simplex	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		25
https://id.biodiversity.org.au/node/apni/2914702	Chamelaucium uncinatum	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Geraldton Wax	25
https://id.biodiversity.org.au/node/apni/2918522	Gastrolobium villosum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Crinkle-leaved Poison	25
https://id.biodiversity.org.au/node/apni/2919321	Schoenus nanus	(Nees ex Lehm.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Little Bog-rush	25
https://id.biodiversity.org.au/node/fungi/60094367	Omphalotus nidiformis	(Berk.) O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Marasmiaceae		25
https://id.biodiversity.org.au/taxon/apni/51290326	Scholtzia involucrata	(Endl.) Druce	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spiked Scholtzia	25
https://id.biodiversity.org.au/taxon/apni/51434961	Hibbertia striata	(Steud.) K.R.Thiele	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		25
https://biodiversity.org.au/afd/taxa/08c5def1-acac-43f1-82c4-a04a5475bc67	Lasioglossum (Chilalictus) hemichalceum	(Cockerell, 1923)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	24
https://biodiversity.org.au/afd/taxa/0df8a98a-7d10-4f40-8452-fc9c1a090d4d	Argiope protensa	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	24
https://biodiversity.org.au/afd/taxa/1e62c15c-2c72-419c-a359-d380b78ffe11	Idiosoma jarrah	Rix & Harvey, 2018	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		24
https://biodiversity.org.au/afd/taxa/59fede41-4359-40c9-bff7-c0cbcab02440	Lamprima aurata	Latreille, 1817	species	Animalia	Arthropoda	Insecta	Coleoptera	Lucanidae	Golden Stag Beetle	24
https://biodiversity.org.au/afd/taxa/60e0ad88-ab84-46c9-8279-64921872f1b0	Megachile speluncarum	Meade-Waldo, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		24
https://biodiversity.org.au/afd/taxa/76ba4b4a-5de0-4b73-970b-a832d86b483a	Melobasis lathami	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		24
https://biodiversity.org.au/afd/taxa/7f064b53-4161-48d5-a2cc-003683592646	Thynnoides nephelopterus	Turner, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		24
https://biodiversity.org.au/afd/taxa/ded6a64d-9021-42a7-acb9-82a4ca6dc795	Simoselaps bertholdi	(Jan, 1859)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Jan's Banded Snake	24
https://biodiversity.org.au/afd/taxa/e4b8db59-ef1a-45bb-b757-1d635f6242a3	Diphucrania duodecimmaculata	(Fabricius, 1801)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		24
https://biodiversity.org.au/afd/taxa/e52d43df-06d9-4a2d-a830-5a6909148612	Leptocneria reducta	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	24
https://biodiversity.org.au/afd/taxa/e5bcb8b7-0ee2-41b1-a1a9-bbce756fb72a	Pseudonaja mengdeni	Wells & Wellington, 1985	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Western Brown Snake	24
https://id.biodiversity.org.au/node/apni/2889040	Wahlenbergia capensis	(L.) A.DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Cape Bluebell	24
https://id.biodiversity.org.au/node/apni/2890292	Podolepis lessonii	(Cass.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		24
https://id.biodiversity.org.au/node/apni/2890360	Stylidium calcaratum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Spurred Trigger-plant	24
https://id.biodiversity.org.au/node/apni/2890488	Thysanotus thyrsoideus	Baker	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		24
https://id.biodiversity.org.au/node/apni/2892895	Dillwynia laxiflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		24
https://id.biodiversity.org.au/node/apni/2892900	Stylidium piliferum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Common Butterfly Triggerplant	24
https://id.biodiversity.org.au/node/apni/2893649	Opercularia vaginata	Labill. ex Juss.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Dog Weed	24
https://id.biodiversity.org.au/node/apni/2894326	Melia azedarach	L.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Meliaceae	White Cedar	24
https://id.biodiversity.org.au/node/apni/2896043	Banksia grandis	Willd.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Giant Banksia	24
https://id.biodiversity.org.au/node/apni/2896883	Gastrolobium acutum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		24
https://id.biodiversity.org.au/node/apni/2907933	Daviesia preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		24
https://id.biodiversity.org.au/node/apni/2916029	Laxmannia ramosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		24
https://id.biodiversity.org.au/node/apni/2918789	Waitzia suaveolens	(Benth.) Druce	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Fragrant Waitzia	24
https://id.biodiversity.org.au/taxon/apni/51283561	Drosera gigantea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Giant Sundew	24
https://id.biodiversity.org.au/taxon/apni/51286820	Paraserianthes lophantha	(Willd.) I.C.Nielsen	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cape Leeuwin Wattle	24
https://id.biodiversity.org.au/taxon/apni/51399184	Caladenia macrostylis	Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Leaping Spider Orchid	24
https://id.biodiversity.org.au/taxon/apni/51406501	Lyperanthus serratus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Rattle Beaks	24
NZOR-6-20562	Volvopluteus gloiocephalus	(DC.) Vizzini, Contu & Justo	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Pluteaceae		23
https://biodiversity.org.au/afd/taxa/1ed4a6d6-429b-405e-8dca-985af1a99c9e	Lasioglossum (Chilalictus) ebeneum	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		23
https://biodiversity.org.au/afd/taxa/2b38fa11-b7fb-4bd0-820f-a020e6a5f86a	Argiope trifasciata	(ForsskÃ¥l, 1775)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	23
https://biodiversity.org.au/afd/taxa/98097ce3-3e12-4aa4-adeb-7f25c62a039d	Ogyris idmo	Hewitson, 1862	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Large Bronze Azure	23
https://biodiversity.org.au/afd/taxa/9cb51aaa-a68e-4563-a8d6-f63e5858b297	Varanus tristis	(Schlegel, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Varanidae	Black-headed Monitor	23

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/c580bea5-7a14-4902-8d1b-29474d96a396	Anisynta sphenosema	(Meyrick & Lower, 1902)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Wedge Grass-skipper	23
https://biodiversity.org.au/afd/taxa/d5538ef6-8d67-4790-9e59-2d24bc62daed	Hyperoedesipus plumosus	Nicholls & Milner, 1923	species	Animalia	Arthropoda	Malacostraca	Isopoda	Hypsimetopodidae		23
https://biodiversity.org.au/afd/taxa/e0a1cf2b-8757-4068-9fd1-8992df6a68ff	Varanus gouldii	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Varanidae	Gould's Goanna	23
https://biodiversity.org.au/afd/taxa/e6ea1087-ce34-4cf8-be85-546a9d732965	Calidris (Erolia) ferruginea	(Pontoppidan, 1763)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Curlew Sandpiper	23
https://id.biodiversity.org.au/node/apni/2886346	Trachymene coerulea	Graham	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Rottnest Island Daisy	23
https://id.biodiversity.org.au/node/apni/2888871	Caustis dioica	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		23
https://id.biodiversity.org.au/node/apni/2891192	Hesperantha falcata	(L.f.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Hesperantha	23
https://id.biodiversity.org.au/node/apni/2893435	Lawrencella rosea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		23
https://id.biodiversity.org.au/node/apni/2900342	Acacia stenoptera	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-winged Wattle	23
https://id.biodiversity.org.au/node/apni/2905735	Banksia ilicifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Holly Leaved Banksia	23
https://id.biodiversity.org.au/node/apni/2906882	Acacia auronitens	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		23
https://id.biodiversity.org.au/node/apni/2908275	Jacksonia lehmannii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		23
https://id.biodiversity.org.au/node/apni/2910089	Laxmannia sessiliflora	Decne.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Nodding Lily	23
https://id.biodiversity.org.au/node/apni/2912739	Quinetia urvillei	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Quinetia	23
https://id.biodiversity.org.au/node/apni/2916921	Banksia bipinnatifida	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		23
https://id.biodiversity.org.au/node/apni/2918358	Gonocarpus cordiger	(Fenzl) Nees	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		23
https://id.biodiversity.org.au/node/apni/2919407	Glischrocaryon aureum	(Lindl.) Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Yellow Popflower	23
https://id.biodiversity.org.au/node/apni/2920110	Wahlenbergia preissii	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae		23
https://id.biodiversity.org.au/node/fungi/60100835	Tremella mesenterica	Retz.	species	Fungi	Basidiomycota	Tremellomycetes	Tremellales	Tremellaceae		23
https://id.biodiversity.org.au/taxon/apni/51291052	Bellardia trixago	(L.) All.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Bellardia	23
https://id.biodiversity.org.au/taxon/apni/51431584	Thysanotus patersonii	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Twining Fringe-lily	23
https://biodiversity.org.au/afd/taxa/216871b2-064f-4a39-89c5-69066b6d5ae5	Temognatha conspicillata	(White, 1843)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		22
https://biodiversity.org.au/afd/taxa/4d3f2695-13da-4175-9f20-057c77797654	Glossurocolletes bilobatus	(Michener, 1965)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	A Short-tongued Bee (southwest)	22
https://biodiversity.org.au/afd/taxa/5851a3f8-4962-477f-bd38-4f86473472f5	Cheramoeca leucosterna	(Gould, 1841)	species	Animalia	Chordata	Aves	Passeriformes	Hirundinidae	White-backed Swallow	22
https://biodiversity.org.au/afd/taxa/76fa9d70-bed0-4eb9-9721-a796e36cf797	Plebs cyphoxis	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	22
https://biodiversity.org.au/afd/taxa/bae6a91e-f616-4f7f-b1f5-84ecefcd9603	Rhantus suturalis	(W.S. Macleay, 1825)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	22
https://biodiversity.org.au/afd/taxa/ea2d172e-284b-400c-bc3c-b1677cac348e	Phoracantha semipunctata	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Common Eucalypt Longicorn	22
https://id.biodiversity.org.au/node/apni/2886511	Austrostipa elegantissima	(Labill.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Feather Spear-grass	22
https://id.biodiversity.org.au/node/apni/2889785	Cassytha pomiformis	Nees	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	22
https://id.biodiversity.org.au/node/apni/2893109	Acacia lasiocarpa	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		22
https://id.biodiversity.org.au/node/apni/2893176	Casuarina obesa	Miq.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Swamp Sheoak	22
https://id.biodiversity.org.au/node/apni/2898446	Mirbelia spinosa	(Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		22
https://id.biodiversity.org.au/node/apni/2903460	Lepidobolus preissianus	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		22
https://id.biodiversity.org.au/node/apni/2904899	Lupinus angustifolius	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-leaf Lupin	22
https://id.biodiversity.org.au/taxon/apni/51431734	Asplenium subglandulosum	(Hook. & Grev.) Salvo, Prada & T.E.Diaz	species	Plantae	Charophyta	Equisetopsida	Polypodiales	Aspleniaceae	Glandular Blanket-fern	22
https://biodiversity.org.au/afd/taxa/07f2e8c3-1e0c-4a02-8177-bf9b54435b93	Carduelis carduelis	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Passeriformes	Fringillidae	European Goldfinch	21
https://biodiversity.org.au/afd/taxa/20938676-d287-43d7-a887-a15fbb3ff6bb	Ixobrychus dubius	Mathews, 1912	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Minute Bittern	21
https://biodiversity.org.au/afd/taxa/3f577852-cd1f-40a2-9a4b-a331d595588f	Glycyphana (Glycyphaniola) stolata	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		21
https://biodiversity.org.au/afd/taxa/4afda0eb-f515-48f7-baf9-75186fbb8b90	Ischnura aurora	(Brauer, 1865)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	Aurora Bluetail	21
https://biodiversity.org.au/afd/taxa/513b8c47-ba97-4d57-8fa1-33d7ab58507e	Notiasemus glauerti	L.E. Koch, 1985	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		21
https://biodiversity.org.au/afd/taxa/8ee701f5-8f09-4b90-afcb-83bdb7c7b259	Distoleon bistrigatus	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Antlion Lacewing	21
https://biodiversity.org.au/afd/taxa/919242c6-b549-484c-8af0-f0ad53d353df	Havinthus rufovarius	Bergroth, 1895	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	21
https://id.biodiversity.org.au/name/apni/51731116	Lysimachia loeflingii	F.J.JimÃ©nez & M.Talavera	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae		21
https://id.biodiversity.org.au/node/apni/2901397	Stylidium thesioides	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Delicate Triggerplant	21
https://id.biodiversity.org.au/node/apni/2903478	Jacksonia sericea	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Waldjumi	21
https://id.biodiversity.org.au/node/apni/2910145	Andersonia aristata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Rice Flower	21
https://id.biodiversity.org.au/node/apni/2914975	Scaevola pilosa	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Hairy Fanflower	21
https://id.biodiversity.org.au/node/apni/2916759	Amyema linophylla	(Fenzl) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Buloke Mistletoe	21
https://id.biodiversity.org.au/node/apni/2917430	Schoenus efoliatus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		21
https://id.biodiversity.org.au/node/apni/2917694	Astroloma ciliatum	(Lindl.) Druce	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Candle Cranberry	21
https://id.biodiversity.org.au/node/apni/2919200	Acacia iteaphylla	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flinders Range Wattle	21
https://id.biodiversity.org.au/node/apni/2919940	Dampiera alata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Winged-stemmed Dampiera	21

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2920442	Gompholobium aristatum	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		21
https://id.biodiversity.org.au/node/apni/2920781	Petrophile seminuda	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		21
https://id.biodiversity.org.au/node/apni/2921020	Acacia podalyriifolia	A.Cunn. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Mount Morgan Wattle	21
https://id.biodiversity.org.au/taxon/apni/51286955	Acacia longifolia	(Andrews) Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sallow Wattle	21
https://id.biodiversity.org.au/taxon/apni/51294414	Stylidium scariosum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		21
https://id.biodiversity.org.au/taxon/apni/51299932	Calytrix breviseta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		21
https://id.biodiversity.org.au/taxon/apni/51399117	Caladenia latifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Fairies	21
https://id.biodiversity.org.au/taxon/ausmoss/10152591	Campylopus introflexus	(Hedw.) Brid.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Swan-neck Moss	21
https://biodiversity.org.au/afd/taxa/1e540286-d6f2-43a1-bf27-180858eb9f98	Helea perforata	(Latreille, 1817)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		20
https://biodiversity.org.au/afd/taxa/4f86df08-2087-4ac5-bb47-30f60fd34826	Nunciella aspera	(Pocock, 1903)	species	Animalia	Arthropoda	Arachnida	Opiliones	Triaenonychidae		20
https://biodiversity.org.au/afd/taxa/5298b59a-5c28-463a-ac1b-53d4f8045cc2	Crypsiphona ocultaria	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Redlined Geometrid Moth	20
https://biodiversity.org.au/afd/taxa/5c0d591a-0a98-48c6-8a4b-f925d43521cd	Manorina (Myzantha) flavigula	(Gould, 1840)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Yellow-throated Miner	20
https://biodiversity.org.au/afd/taxa/69a7cfa9-2857-4f53-a1b4-99d1733b1dcd	Trichiocercus sparshalli	(Curtis, 1830)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Moth	20
https://biodiversity.org.au/afd/taxa/6d0b779e-0f97-45ba-95cf-6560ef59bce9	Lasioglossum (Chilalictus) mirandum	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		20
https://biodiversity.org.au/afd/taxa/875c569a-8036-4f9d-ac79-8441f6a64d6d	Camponotus molossus	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Western Flumed Sugar Ant	20
https://biodiversity.org.au/afd/taxa/9d07d302-22d9-4563-9830-868ab6d53d2f	Abispa (Abispa) ephippium	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	Potter Wasp	20
https://biodiversity.org.au/afd/taxa/fcfc90f4-a638-41bb-b5b5-39558018ab3f	Megachile horatii	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		20
https://id.biodiversity.org.au/node/apni/2886180	Poa drummondiana	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Knotted Poa	20
https://id.biodiversity.org.au/node/apni/2890009	Synaphea pinnata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Helena Synaphea	20
https://id.biodiversity.org.au/node/apni/2892132	Pentapeltis peltigera	(Hook.) Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		20
https://id.biodiversity.org.au/node/apni/2895348	Thysanotus arbuscula	Baker	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		20
https://id.biodiversity.org.au/node/apni/2896141	Hibbertia racemosa	(Endl.) Gilg	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Stalked Guinea Flower	20
https://id.biodiversity.org.au/node/apni/2896451	Utricularia multifida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Pink Petticoats	20
https://id.biodiversity.org.au/node/apni/2897244	Oxalis pes-caprae	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Soursob	20
https://id.biodiversity.org.au/node/apni/2897295	Lasiopetalum bracteatum	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Helena Velvet Bush	20
https://id.biodiversity.org.au/node/apni/2904201	Lysinema ciliatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Curry Flower	20
https://id.biodiversity.org.au/node/apni/2905557	Eucalyptus accedens	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Powder Bark Wandoo	20
https://id.biodiversity.org.au/node/apni/2919145	Comesperma calymega	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Blue-spike Milkwort	20
https://id.biodiversity.org.au/node/apni/2920172	Gastrolobium ebracteolatum	G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		20
https://id.biodiversity.org.au/taxon/apni/51251009	Daviesia nudiflora	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		20
https://id.biodiversity.org.au/taxon/apni/51288847	Beaufortia macrostemon	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Darling Range Beaufortia	20
https://id.biodiversity.org.au/taxon/apni/51289773	Eremaea fimbriata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		20
https://id.biodiversity.org.au/taxon/apni/51299839	Aotus cordifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		20
https://id.biodiversity.org.au/taxon/apni/51403416	Disa bracteata	Sw.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	South African Orchid	20
https://id.biodiversity.org.au/taxon/apni/51448749	Hybanthus floribundus	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Violaceae	Shrub Spade Flower	20
https://id.biodiversity.org.au/taxon/apni/51741659	Brachyscome iberidifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Brachyscome	20
https://biodiversity.org.au/afd/taxa/55bb2bb4-2268-4e91-8f74-2478c0a7b258	Missulena occatoria	Walckenaer, 1805	species	Animalia	Arthropoda	Arachnida	Araneae	Actinopodidae	Red-headed Mouse Spider	19
https://biodiversity.org.au/afd/taxa/6c33bbf4-9f47-4d92-a4f3-4a485ba1ccae	Uresiphita ornithopteralis	(GuenÃ©e, 1854)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Tree Lucerne Moth	19
https://biodiversity.org.au/afd/taxa/6f0f0293-b957-487b-b367-3faa3d24c0fa	Cincloramphus (Cincloramphus) cruralis	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Locustellidae	Brown Songlark	19
https://biodiversity.org.au/afd/taxa/7058a23d-ab34-4b20-a8ff-b41704dd2973	Ceryerda cursitans	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Gnaphosidae		19
https://biodiversity.org.au/afd/taxa/775763cc-805b-4d96-ab6a-e237c2651c37	Cornu apertus	(Born, 1778)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Helicidae	Green Snail	19
https://biodiversity.org.au/afd/taxa/96dae6b4-83c8-449a-9fce-d094518f918e	Idiosoma rhaphiduca	(Rainbow & Pulleine, 1918)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		19
https://biodiversity.org.au/afd/taxa/a2260672-36df-48be-8a9e-d85a77237ba5	Dasyurus geoffroii	Gould, 1841	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Dasyuridae	Chuditch	19
https://biodiversity.org.au/afd/taxa/b585237a-b161-420f-b657-9632e132b40c	Adversaeschna brevistyla	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Odonata	Aeshnidae	Blue-spotted Hawker	19
https://biodiversity.org.au/afd/taxa/d9061bb7-6e32-4e47-bb5c-ebd6f1919ec0	Hippotion celerio	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Grapevine Hawk Moth	19
https://biodiversity.org.au/afd/taxa/e8bd358a-692d-46d9-9f1c-934957f11793	Scolopendra laeta	Haase, 1887	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		19
https://id.biodiversity.org.au/name/apni/51306682	Hibbertia improna	K.R.Thiele	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		19
https://id.biodiversity.org.au/node/apni/2887385	Pavonia hastata	Cav.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Pink Pavonia	19
https://id.biodiversity.org.au/node/apni/2896299	Schoenus unispiculatus	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		19
https://id.biodiversity.org.au/node/apni/2900679	Thysanotus triandrus	(Labill.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Three-stamened Fringe Lily	19
https://id.biodiversity.org.au/node/apni/2902418	Ptilotus esquamatus	(Benth.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		19

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2902585	Eucalyptus laeliae	Podger & Chippend.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Darling Range Ghost Gum	19
https://id.biodiversity.org.au/node/apni/2903083	Orobanche minor	Sm.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Lesser Broomrape	19
https://id.biodiversity.org.au/node/apni/2904086	Freesia leichtlinii	Klatt	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Freesia	19
https://id.biodiversity.org.au/node/apni/2904420	Melaleuca trichophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		19
https://id.biodiversity.org.au/node/apni/2905001	Hemiphora bartlingii	(Lehm.) B.J.Conn & Henwood	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		19
https://id.biodiversity.org.au/node/apni/2905202	Leucopogon propinquus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		19
https://id.biodiversity.org.au/node/apni/2907538	Thysanotus tenellus	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Grassy Fringe-lily	19
https://id.biodiversity.org.au/node/apni/2907808	Pithocarpa pulchella	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Dark-stigma Pithocarpa	19
https://id.biodiversity.org.au/node/apni/2908483	Melaleuca scabra	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Rough Honeymyrtle	19
https://id.biodiversity.org.au/node/apni/2908709	Rubus laudatus	A.Berger	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Blackberry	19
https://id.biodiversity.org.au/node/apni/2914798	Ptilotus declinatus	Nees	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Curved Mulla-mulla	19
https://id.biodiversity.org.au/node/apni/2917475	Marianthus coeruleopunctatus	Klotzsch	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		19
https://id.biodiversity.org.au/node/apni/2919436	Lepidosperma squamatum	Labill.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		19
https://id.biodiversity.org.au/node/apni/8354183	Chorizema cordatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flame Pea	19
https://id.biodiversity.org.au/taxon/apni/51299942	Calytrix variabilis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		19
https://id.biodiversity.org.au/taxon/apni/51409785	Prasophyllum hians	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Yawning Leek Orchid	19
https://id.biodiversity.org.au/taxon/apni/51413275	Spiculaea ciliata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Elbow Orchid	19
https://id.biodiversity.org.au/taxon/apni/51414242	Thelymitra benthamiana	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Leopard Sun-orchid	19
https://biodiversity.org.au/afd/taxa/0068714f-cc38-49e8-9541-7ff0e796b5f9	Limosa lapponica	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Bar-tailed Godwit	18
https://biodiversity.org.au/afd/taxa/09e007e5-22c5-44ff-9654-4bcf4f1fcdb4	Simosyrphus grandicornis	(Macquart, 1842)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Hoverfly	18
https://biodiversity.org.au/afd/taxa/0d4c9c0c-51d3-44e0-a365-fe0f8b791c66	Tachyglossus aculeatus	(Shaw, 1792)	species	Animalia	Chordata	Mammalia	Monotremata	Tachyglossidae	Short-beaked Echidna	18
https://biodiversity.org.au/afd/taxa/2f7ff6e5-1372-4c95-8280-df0c508c9a34	Diplodactylus lateroides	Doughty & Oliver, 2013	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Speckled Stone Gecko	18
https://biodiversity.org.au/afd/taxa/44d06aa5-42c6-4a2e-91e1-03630b442be5	Phrissogonus laticostata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	18
https://biodiversity.org.au/afd/taxa/4f80dc94-0e5b-4413-a09d-b4d52c0a192e	Bembix variabilis	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	18
https://biodiversity.org.au/afd/taxa/4ff0df2f-fcd1-4742-9db5-6d9f340f8a46	Theseus modestus	(StÃ¥l, 1865)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	18
https://biodiversity.org.au/afd/taxa/5ba85a24-db9f-4960-9f84-eeec08253e1a	Bathyllus albicinctus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cercopidae	Froghopper	18
https://biodiversity.org.au/afd/taxa/5d337f86-08d5-4cf7-97f6-e67a0b452d3d	Castiarina anchoralis	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		18
https://biodiversity.org.au/afd/taxa/7ffddf57-f3d3-4f5c-89b5-fed4624f30f3	Castiarina decemguttata	(Gory, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		18
https://biodiversity.org.au/afd/taxa/8300879b-83bc-458d-88b3-bd9ecbd96722	Lasioglossum (Parasphecodes) hiltacum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	18
https://biodiversity.org.au/afd/taxa/952ae705-57e2-43d1-9a06-b35498202469	Mus musculus	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	House Mouse	18
https://biodiversity.org.au/afd/taxa/c69e7308-527a-429d-a80d-143bd20b5100	Recurvirostra novaehollandiae	Vieillot, 1816	species	Animalia	Chordata	Aves	Charadriiformes	Recurvirostridae	Red-necked Avocet	18
https://biodiversity.org.au/afd/taxa/cc83c072-c221-40e4-adcb-5694a5a2aacc	Antaresia childreni	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Pythonidae	Children's Python	18
https://biodiversity.org.au/afd/taxa/dcd623e7-1520-468e-8f08-7fbfd413b71f	Lampides boeticus	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Long-tailed Pea-blue	18
https://biodiversity.org.au/afd/taxa/e2b6aed6-2f82-4b7c-9966-5ef2f9190bee	Apus (Apus) pacificus	(Latham, 1801)	species	Animalia	Chordata	Aves	Apodiformes	Apodidae	Fork-tailed Swift	18
https://biodiversity.org.au/afd/taxa/eb236480-52c4-4b0e-86ea-4e66c7775d6f	Zizina otis	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Common Grass-blue	18
https://biodiversity.org.au/afd/taxa/eb7e2eb7-7104-47bd-8804-0fb58839ba1a	Pseudechis australis	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Mulga Snake	18
https://biodiversity.org.au/afd/taxa/ee694d26-6d4d-4837-99ad-9b25d3454d9d	Aegotheles (Aegotheles) cristatus	(Shaw, 1790)	species	Animalia	Chordata	Aves	Apodiformes	Aegothelidae	Australian Owlet-nightjar	18
https://id.biodiversity.org.au/node/apni/2889848	Hakea varia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Variable-leaved Hakea	18
https://id.biodiversity.org.au/node/apni/2890500	Cyathochaeta equitans	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		18
https://id.biodiversity.org.au/node/apni/2891356	Patersonia juncea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Rush Leaved Patersonia	18
https://id.biodiversity.org.au/node/apni/2891848	Tetratheca nuda	Lindl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		18
https://id.biodiversity.org.au/node/apni/2894669	Moraea flaccida	(Sweet) Steud.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	One-leaf Cape Tulip	18
https://id.biodiversity.org.au/node/apni/2894715	Sparaxis bulbifera	(L.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Sparaxis	18
https://id.biodiversity.org.au/node/apni/2894927	Babiana angustifolia	Sweet	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Baboon Flower	18
https://id.biodiversity.org.au/node/apni/2897217	Astroloma xerophyllum	(DC.) Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		18
https://id.biodiversity.org.au/node/apni/2897625	Comesperma virgatum	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Milkwort	18
https://id.biodiversity.org.au/node/apni/2897935	Ipomoea cairica	(L.) Sweet	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Mile-a-minute	18
https://id.biodiversity.org.au/node/apni/2900212	Melaleuca seriata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		18
https://id.biodiversity.org.au/node/apni/2901429	Acacia barbinervis	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		18
https://id.biodiversity.org.au/node/apni/2904923	Byblis gigantea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Byblidaceae	Rainbow Plant	18
https://id.biodiversity.org.au/node/apni/2907556	Daviesia rhombifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		18
https://id.biodiversity.org.au/node/apni/2910944	Persoonia elliptica	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Snottygobble	18
https://id.biodiversity.org.au/node/apni/2912207	Pimelea argentea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Silver-leaved Pimelea	18

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2913238	Gompholobium shuttleworthii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		18
https://id.biodiversity.org.au/node/apni/2913977	Banksia littoralis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Swamp Banksia	18
https://id.biodiversity.org.au/node/apni/2918409	Levenhookia preissii	(Sond.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Preiss's Stylewort	18
https://id.biodiversity.org.au/node/apni/7992083	Stylidium utricularioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pink Fan Triggerplant	18
https://id.biodiversity.org.au/node/apni/7993433	Stylidium petiolare	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Horn Triggerplant	18
https://id.biodiversity.org.au/taxon/apni/51283565	Drosera hirsuta	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		18
https://id.biodiversity.org.au/taxon/apni/51291824	Lysimachia arvensis	(L.) U.Manns & Anderb.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae	Pimpernel	18
https://id.biodiversity.org.au/taxon/apni/51399090	Caladenia huegelii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Grand Spider Orchid	18
https://id.biodiversity.org.au/taxon/apni/51409779	Prasophyllum gracile	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Laughing Leek Orchid	18
https://id.biodiversity.org.au/taxon/apni/51439660	Calytrix acutifolia	(Lindl.) Craven	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		18
https://id.biodiversity.org.au/taxon/apni/51445274	Banksia nivea	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		18
ALA_DR22913_1660	Cochlicella barbara		species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	White Snail	17
https://biodiversity.org.au/afd/taxa/01a01f4f-c652-4ccf-af3b-28f3c9be59dd	Macrogyrus (Tribologyrus) angustatus	RÃ©gimbart, 1883	species	Animalia	Arthropoda	Insecta	Coleoptera	Gyrinidae	Whirligig Beetle	17
https://biodiversity.org.au/afd/taxa/27335d41-6d41-4438-b66a-6b5146234713	Thalaina angulosa	Walker, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Angled Satin Moth	17
https://biodiversity.org.au/afd/taxa/3e9c17c9-270f-4a74-9ed8-7ccabd575be9	Calidris (Calidris) tenuirostris	(Horsfield, 1821)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Great Knot	17
https://biodiversity.org.au/afd/taxa/4574c573-e2ea-4ae0-99d0-fe2dd5d88a5c	Melanerythrus mactans	(StÃ¥l, 1866)	species	Animalia	Arthropoda	Insecta	Hemiptera	Lygaeidae	Bug	17
https://biodiversity.org.au/afd/taxa/5610f949-7a69-4a0c-bf6b-b05d2c0d894e	Malurus (Musciparus) leucopterus	Dumont, 1824	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	White-winged Fairy-wren	17
https://biodiversity.org.au/afd/taxa/77d4dc09-7568-418c-bc67-6c625370fff3	Lenophila nila	McAlpine & Kim, 1977	species	Animalia	Arthropoda	Insecta	Diptera	Platystomatidae		17
https://biodiversity.org.au/afd/taxa/7a39c977-3c87-4d6d-842f-9844d0c9ccd7	Monopis meliorella	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tineidae		17
https://biodiversity.org.au/afd/taxa/86fb93fd-4551-4b38-9a12-62b6b433729b	Tyto javanica	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Strigiformes	Tytonidae	Eastern Barn Owl	17
https://biodiversity.org.au/afd/taxa/895f3296-2b6c-48c2-a258-af796b671474	Pseudogobius olorum	(Sauvage, 1880)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Bluespot Goby	17
https://biodiversity.org.au/afd/taxa/9747568a-90d7-45f8-a850-d9a23f1aa724	Poecilometis patruelis	StÃ¥l, 1860	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	17
https://biodiversity.org.au/afd/taxa/a9cd0645-a05f-4285-9b40-3ecd8e56569f	Megachile (Hackeriapis) oblonga	Smith, 1879	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	17
https://biodiversity.org.au/afd/taxa/ac48e985-2adb-4c1e-bce9-39906cf6761d	Podalonia tydei	(Le Guillou, 1841)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae	Wasp	17
https://biodiversity.org.au/afd/taxa/ad6c7962-79b8-405b-9390-6d388a6e0120	Diphucrania stigmata	(Gory & Laporte, 1839)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		17
https://biodiversity.org.au/afd/taxa/b850276b-4a77-436b-a2bf-f62e8ab81ff6	Hylaeus (Euprosopis) violaceus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Species Of Yellowfaced Bee	17
https://biodiversity.org.au/afd/taxa/bec77cad-bfa0-4430-9df6-10dd506a4949	Arenopsaltria fullo	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Sandgrinder	17
https://biodiversity.org.au/afd/taxa/c95af018-43ab-43b8-8e14-037604db64f6	Epthianura (Epthianura) albifrons	(Jardine & Selby, 1828)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-fronted Chat	17
https://biodiversity.org.au/afd/taxa/fc2b7200-f051-4dfc-82a5-6564a58bedaf	Morethia obscura	Storr, 1972	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Shrubland Morethia Skink	17
https://id.biodiversity.org.au/node/apni/2886928	Podotheca angustifolia	(Labill.) Less.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Sticky Long-heads	17
https://id.biodiversity.org.au/node/apni/2892738	Lobelia rhombifolia	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tufted Lobelia	17
https://id.biodiversity.org.au/node/apni/2893525	Hemigenia parviflora	Bartl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		17
https://id.biodiversity.org.au/node/apni/2894425	Gompholobium scabrum	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Painted Lady	17
https://id.biodiversity.org.au/node/apni/2895377	Stirlingia simplex	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		17
https://id.biodiversity.org.au/node/apni/2897654	Grevillea quercifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Oak-leaf Grevillea	17
https://id.biodiversity.org.au/node/apni/2900739	Ipomoea indica	(Burm.) Merr.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Purple Morning-glory	17
https://id.biodiversity.org.au/node/apni/2900926	Banksia telmatiaea	A.S.George	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Swamp Fox Banksia	17
https://id.biodiversity.org.au/node/apni/2905928	Poranthera microphylla	Brongn.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Small Poranthera	17
https://id.biodiversity.org.au/node/apni/2906266	Cenchrus setaceus	(Forssk.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fountain Grass	17
https://id.biodiversity.org.au/node/apni/2910029	Acacia ericifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		17
https://id.biodiversity.org.au/node/apni/2910148	Acacia dentifera	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tooth-bearing Acacia	17
https://id.biodiversity.org.au/node/apni/2920309	Diplolaena andrewsii	Ostenf.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		17
https://id.biodiversity.org.au/node/apni/2920477	Synaphea gracillima	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		17
https://id.biodiversity.org.au/node/ausmoss/10059274	Barbula calycina	SchwÃ¤gr.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Common Beard-moss	17
https://id.biodiversity.org.au/taxon/apni/51404251	Diuris laxiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bee Orchid	17
https://id.biodiversity.org.au/taxon/apni/51446863	Asterolasia pallida	Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		17
https://id.biodiversity.org.au/taxon/apni/51737006	Hydrocotyle intertexta	R.Br. ex A.Rich.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Buttercup Pennywort	17
https://biodiversity.org.au/afd/taxa/0d0c5545-e1eb-4525-b4b1-be10f8a24cc4	Mituliodon tarantulinus	(L. Koch, 1873)	species	Animalia	Arthropoda	Arachnida	Araneae	Miturgidae	Long-legged Sac Spider	16
https://biodiversity.org.au/afd/taxa/1a03ac28-58ba-46c9-a175-fe9cf12c6cf5	Sceliphron laetum	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae	Common Mud Daubler	16
https://biodiversity.org.au/afd/taxa/39e88850-253e-4937-a670-fe0d04882720	Leioproctus (Leioproctus) cupreus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	16
https://biodiversity.org.au/afd/taxa/3c441d79-1941-4e86-a351-4c08afe5e12b	Helicoverpa punctigera	(Wallengren, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Native Budworm	16

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/5b4ac62d-4174-4963-8738-06f5359f3366	Danaus chrysippus	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Lesser Wanderer	16
https://biodiversity.org.au/afd/taxa/68fe3abe-50b8-45f6-bace-2ec136a5083e	Castiarina nonyma	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		16
https://biodiversity.org.au/afd/taxa/6f129188-dead-4e5c-b945-7fe12a14a7ae	Oechalia schellenbergii	(GuÃ©rin, 1831)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Predatory Shield Bug	16
https://biodiversity.org.au/afd/taxa/90e848e6-1ed2-49e2-bc7a-04572be79c8e	Holocnemus pluchii	(Scopoli, 1763)	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae	Cellar Spider	16
https://biodiversity.org.au/afd/taxa/93dd19fa-7a09-44f2-8f06-464801fbc252	Lasioglossum (Parasphecodes) hilactum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	16
https://biodiversity.org.au/afd/taxa/9a730124-d066-48ea-ac7e-85870758b8da	Physeema convergens	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		16
https://biodiversity.org.au/afd/taxa/b2761e62-2c3e-4017-911a-e4511cd3d7d1	Cherax quinquecarinatus	(Gray, 1845)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Djilgi	16
https://biodiversity.org.au/afd/taxa/cf2e1ebd-7d20-42b9-908a-1ec48d4281d5	Tympanophora andreae	Rentz, 2001	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		16
https://id.biodiversity.org.au/node/apni/2888430	Amyema preissii	(Miq.) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Wire-leaf Mistletoe	16
https://id.biodiversity.org.au/node/apni/2890562	Marianthus drummondianus	(Putt.) Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		16
https://id.biodiversity.org.au/node/apni/2891037	Aphelia cyperoides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		16
https://id.biodiversity.org.au/node/apni/2893194	Boronia ramosa	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		16
https://id.biodiversity.org.au/node/apni/2896207	Stylidium ciliatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Golden Triggerplant	16
https://id.biodiversity.org.au/node/apni/2899991	Microcorys longifolia	(Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		16
https://id.biodiversity.org.au/node/apni/2902290	Stylidium carnosum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Fleshy-leaved Triggerplant	16
https://id.biodiversity.org.au/node/apni/2902747	Lysinema pentapetalum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Curry Flower	16
https://id.biodiversity.org.au/node/apni/2903788	Platysace filiformis	(Bunge) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		16
https://id.biodiversity.org.au/node/apni/2908654	Gonocarpus pithyoides	Nees	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		16
https://id.biodiversity.org.au/node/apni/2910499	Phyllangium paradoxum	(R.Br.) Dunlop	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae	Wiry Mitrewort	16
https://id.biodiversity.org.au/node/apni/2912853	Rhodanthe corymbosa	(A.Gray) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		16
https://id.biodiversity.org.au/node/apni/2914187	Marianthus candidus	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	White Marianthus	16
https://id.biodiversity.org.au/node/apni/2916373	Schoenus grammatophyllus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		16
https://id.biodiversity.org.au/node/apni/2916424	Persoonia angustiflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		16
https://id.biodiversity.org.au/node/apni/2916697	Stylidium pubigerum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Yellow Butterfly Triggerplant	16
https://id.biodiversity.org.au/node/apni/7993055	Stylidium xanthellum	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Little Yellow Triggerplant	16
https://id.biodiversity.org.au/taxon/apni/51283502	Drosera bulbosa	Hook.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Red-leaved Sundew	16
https://id.biodiversity.org.au/taxon/apni/51289143	Calothamnus phellosus	A.S.George	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		16
https://id.biodiversity.org.au/taxon/apni/51299925	Calytrix angulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Starflower	16
https://id.biodiversity.org.au/taxon/apni/51399170	Caladenia longiclavata	E.Coleman	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Clubbed Spider Orchid	16
https://id.biodiversity.org.au/taxon/apni/51409749	Prasophyllum elatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Leek-orchid	16
https://id.biodiversity.org.au/taxon/apni/51438490	Linum trigynum	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Linaceae	French Flax	16
https://biodiversity.org.au/afd/taxa/07580bcc-736a-4003-a226-68c17f062617	Myobatrachus gouldii	(Gray, 1841)	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Turtle Frog	15
https://biodiversity.org.au/afd/taxa/0cf87549-56ab-44a0-9dae-98a9152228d6	Pholcus phalangioides	(Fuesslin, 1775)	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae	Cellar Spider	15
https://biodiversity.org.au/afd/taxa/107f39b8-0ecf-4c58-b908-7b818e639a91	Kawanaphila nartee	Rentz, 1993	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		15
https://biodiversity.org.au/afd/taxa/14b2288d-284e-4dbe-8164-ca7ee9ad4014	Cheilomenes sexmaculata	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		15
https://biodiversity.org.au/afd/taxa/22d0ca8a-3192-4da4-9a76-38f1d51242b6	Geitoneura klugii	(GuÃ©rin-MÃ©neville, 1830)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Klug's Xenica	15
https://biodiversity.org.au/afd/taxa/3315dd4e-2c15-40b6-a479-f0e4086c13f2	Rhipicera (Agathorhipis) femorata	Kirby, 1818	species	Animalia	Arthropoda	Insecta	Coleoptera	Rhipiceridae	Feather-horned Beetle	15
https://biodiversity.org.au/afd/taxa/37dbd3f0-21ce-40ab-ab03-4d249ef05241	Agrotis munda	Walker, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Brown Cutworm Moth	15
https://biodiversity.org.au/afd/taxa/43adf129-76b1-4e81-9593-cd4f5ac7c829	Spoladea recurvalis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		15
https://biodiversity.org.au/afd/taxa/47aeda9f-c8d6-40e7-ba98-359bbce14177	Anoplostethus opalinus	BrullÃ©, 1837	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		15
https://biodiversity.org.au/afd/taxa/47d420a4-1da3-4e66-9133-7e942790b42d	Castiarina versicolor	Gory & Laporte, 1838	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		15
https://biodiversity.org.au/afd/taxa/54d8a8b2-debc-40ef-b934-129951b15d81	Choerocoris paganus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hemiptera	Scutelleridae	Ground Shield Bug	15
https://biodiversity.org.au/afd/taxa/5fa0da9c-420a-44de-821e-116cf5048142	Chrysis lincea	Fabricius, 1775	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		15
https://biodiversity.org.au/afd/taxa/6c0f8dd3-065c-4563-abe1-379f04dc399a	Enochrus (Methydrus) eyrensis	(Blackburn, 1895)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	15
https://biodiversity.org.au/afd/taxa/94822bd7-d03a-43ff-b933-e74107bfaf9e	Socca arena	Framenau, Castanheira & Vink, 2022	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		15
https://biodiversity.org.au/afd/taxa/a767fc86-3204-4a44-a2cd-7739545a5aa6	Delias aganippe	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Red-spotted Jezebel	15
https://biodiversity.org.au/afd/taxa/ab455a0c-4545-4c5d-b2e8-1d8f112e413f	Sternula nereis	(Gould, 1843)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Fairy Tern	15
https://biodiversity.org.au/afd/taxa/d3aab714-6a52-45a3-920f-902be78a5e7a	Ellipsidion humerale	(Tepper, 1893)	species	Animalia	Arthropoda	Insecta	Blattodea	Pseudophyllodromiidae	Bush Cockroach	15
https://biodiversity.org.au/afd/taxa/dd3f40ae-be34-4d9a-825d-35b91b0a754f	Requena verticalis	Walker, 1869	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		15
https://biodiversity.org.au/afd/taxa/e2b8086f-fb5a-41ac-9003-d9aed827dfe3	Calidris (Calidris) canutus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Red Knot	15
https://biodiversity.org.au/afd/taxa/ee8173fd-6640-429c-94a3-1ffe5e75b328	Echetlus peristhenes	(Westwood, 1859)	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae	Wa Slender Stick-insect	15
https://biodiversity.org.au/afd/taxa/f7e0d442-881f-44d8-827a-122ffdca9c71	Physeema quadricincta	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Tick-tock	15
https://biodiversity.org.au/afd/taxa/fd2adda6-b736-482b-ad39-99741c0381e9	Egernia kingii	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	King's Skink	15

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2888211	Drosera patens	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		15
https://id.biodiversity.org.au/node/apni/2888279	Senecio multicaulis	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		15
https://id.biodiversity.org.au/node/apni/2888982	Conostephium preissii	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		15
https://id.biodiversity.org.au/node/apni/2897492	Adenanthos obovatus	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Basket Flower	15
https://id.biodiversity.org.au/node/apni/2898239	Cotula turbinata	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Ferny Cotula	15
https://id.biodiversity.org.au/node/apni/2900814	Rytidosperma caespitosum	(Gaudich.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Common Wallaby-grass	15
https://id.biodiversity.org.au/node/apni/2900859	Silene gallica	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	French Catchfly	15
https://id.biodiversity.org.au/node/apni/2902204	Lysiana casuarinae	(Miq.) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae		15
https://id.biodiversity.org.au/node/apni/2909026	Hakea sulcata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Furrowed Hakea	15
https://id.biodiversity.org.au/node/apni/2909488	Stylidium pycnostachyum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Downy Triggerplant	15
https://id.biodiversity.org.au/node/apni/2910427	Chordifex sinuosus	B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		15
https://id.biodiversity.org.au/node/apni/2914068	Leucopogon polymorphus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		15
https://id.biodiversity.org.au/taxon/apni/51291519	Themeda triandra	Forssk.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Kangaroo Grass	15
https://id.biodiversity.org.au/taxon/apni/51294849	Petrophile macrostachya	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		15
https://id.biodiversity.org.au/taxon/apni/51299930	Calytrix aurea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		15
https://id.biodiversity.org.au/taxon/apni/51399071	Caladenia hiemalis	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dwarf Common Spider Orchid	15
https://id.biodiversity.org.au/taxon/apni/51404281	Diuris ostrina	D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Darling Scarp Donkey Orchid	15
https://id.biodiversity.org.au/taxon/apni/51409773	Prasophyllum giganteum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bronze Leek Orchid	15
https://id.biodiversity.org.au/taxon/apni/51436346	Trifolium campestre	Schreb.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hop Clover	15
https://id.biodiversity.org.au/taxon/apni/51442577	Cortaderia selloana	(Schult. & Schult.f.) Asch. & Graebn.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Pampas Grass	15
https://biodiversity.org.au/afd/taxa/0218a77b-77c4-4c3e-ac84-c1f2ddb26753	Lissopimpla excelsa	(Costa, 1864)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae	Dusky Winged Ichneumonid (orchid Dupe Wasp)	14
https://biodiversity.org.au/afd/taxa/132f2744-a3c0-48b6-b78e-0b8c3799850e	Bothriembryon (Bothriembryon) indutus	(Menke, 1843)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		14
https://biodiversity.org.au/afd/taxa/2269e465-a778-408a-8868-25a86808dc04	Leptatherina wallacei	(Prince, Ivantsoff & Potter, 1982)	species	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	Western Hardyhead	14
https://biodiversity.org.au/afd/taxa/26bab5d5-6631-46f4-b668-ca1a09cb9d85	Trachymantis dentifrons	(StÃ¥l, 1877)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		14
https://biodiversity.org.au/afd/taxa/351ef0f8-f560-43d6-b784-f393edb97df9	Corvus bennetti	North, 1901	species	Animalia	Chordata	Aves	Passeriformes	Corvidae	Little Crow	14
https://biodiversity.org.au/afd/taxa/574e9a03-7382-4647-a3e0-acb8384bdbc8	Armadillidium vulgare	(Latreille, 1804)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Armadillidiidae		14
https://biodiversity.org.au/afd/taxa/6f0e0562-211a-4a01-bf38-6f481070dec5	Oxyopes gracilipes	(White, 1849)	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae	Lynx Spider	14
https://biodiversity.org.au/afd/taxa/70132c34-8481-42eb-a844-d8a11279a6cb	Sceliphron formosum	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		14
https://biodiversity.org.au/afd/taxa/76762fec-f019-4907-8259-f358bceedaf4	Castiarina amabilis	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		14
https://biodiversity.org.au/afd/taxa/7f20dfde-3c90-4935-841f-34240536bb51	Prasinocyma rhodocosma	(Meyrick, 1888)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Emerald Moth	14
https://biodiversity.org.au/afd/taxa/90e924d3-39d0-4123-8a16-d3ad3d50f4ce	Diphucrania patricia	(Carter, 1935)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		14
https://biodiversity.org.au/afd/taxa/986aa1db-7d6d-4a45-95f7-3ed68b0564f1	Smeringopus natalensis	Lawrence, 1947	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae		14
https://biodiversity.org.au/afd/taxa/9e814e1a-6b46-4332-b451-f5161a3fcde5	Goniaea australasiae	(Leach, 1814)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Gumleaf Grasshopper	14
https://biodiversity.org.au/afd/taxa/a094063b-9934-443e-8f8c-ab4108759433	Myrmecia gratiosa	Clark, 1951	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		14
https://biodiversity.org.au/afd/taxa/a581c303-95b9-4e2f-8fdc-103e394dd85f	Antechinus flavipes	(Waterhouse, 1838)	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Dasyuridae	Yellow-footed Antechinus	14
https://biodiversity.org.au/afd/taxa/b05bca95-5b2c-43b0-8741-424d3fb1abdd	Holasteron perth	Baehr, 2004	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		14
https://biodiversity.org.au/afd/taxa/c7ed68c1-c0ad-4ae3-a5cf-9d2bd11afb94	Leioproctus (Colletellus) velutinellus	Michener, 1965	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		14
https://biodiversity.org.au/afd/taxa/e4ec719c-98ef-4d34-b52a-e5851ab2be4b	Podacanthus keyi	Brock & Hasenpusch, 2007	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae	Keyâ€™s Stick-insect	14
https://biodiversity.org.au/afd/taxa/eb408abe-c79c-48cd-93ee-f99d446a53e1	Ptilocnemus lemur	(Westwood, 1840)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	14
https://biodiversity.org.au/afd/taxa/ffd383b4-7a94-4da7-aef5-ba90f7ff2ee3	Hylaeus (Prosopisteron) aralis	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	14
https://id.biodiversity.org.au/node/apni/2887923	Daviesia hakeoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		14
https://id.biodiversity.org.au/node/apni/2888495	Raphanus raphanistrum	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Wild Radish	14
https://id.biodiversity.org.au/node/apni/2889175	Conospermum triplinervium	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Tree Smokebush	14
https://id.biodiversity.org.au/node/apni/2891531	Lepidosperma longitudinale	Labill.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Pithy Sword-sedge	14
https://id.biodiversity.org.au/node/apni/2895560	Lepidosperma leptostachyum	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		14
https://id.biodiversity.org.au/node/apni/2896656	Melaleuca preissiana	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Moonah	14
https://id.biodiversity.org.au/node/apni/2898995	Isolepis marginata	(Thunb.) A.Dietr.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Little Club-rush	14
https://id.biodiversity.org.au/node/apni/2899616	Agrostocrinum scabrum	(R.Br.) Baill.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Blue Grass Lily	14

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2903399	Lupinus cosentinii	Guss.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sandplain Lupin	14
https://id.biodiversity.org.au/node/apni/2904122	Millotia tenuifolia	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Soft Millotia	14
https://id.biodiversity.org.au/node/apni/2905194	Lupinus luteus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Yellow Lupin	14
https://id.biodiversity.org.au/node/apni/2907129	Kunzea recurva	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		14
https://id.biodiversity.org.au/node/apni/2907668	Cassytha glabella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Slender Dodder-laurel	14
https://id.biodiversity.org.au/node/apni/2907901	Leucopogon nutans	E.Pritz.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Drooping Leucopogon	14
https://id.biodiversity.org.au/node/apni/2912729	Lobelia rhytidosperma	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Wrinkle-seeded Lobelia	14
https://id.biodiversity.org.au/node/apni/2920431	Lobelia gibbosa	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tall Lobelia	14
https://id.biodiversity.org.au/node/apni/2920787	Tricostularia neesii	Lehm.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Neesâ€™ Tricostularia	14
https://id.biodiversity.org.au/taxon/apni/51289630	Darwinia thymoides	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		14
https://id.biodiversity.org.au/taxon/apni/51398940	Caladenia denticulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Wispy Spider Orchid	14
https://id.biodiversity.org.au/taxon/apni/51405094	Eriochilus scaber	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Bunny Orchid	14
https://id.biodiversity.org.au/taxon/apni/51744654	Lactuca serriola	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Prickly Lettuce	14
NZOR-6-106354	Chamaecytisus proliferus	(L.f.) Link.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Escabon	13
https://biodiversity.org.au/afd/taxa/21cbf460-8ef3-47a8-9526-8f6eb704e87e	Anthrenus (Anthrenus) scrophulariae	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae		13
https://biodiversity.org.au/afd/taxa/2a4e373b-913a-4e2a-a53f-74828f6dae7e	Dromaius novaehollandiae	(Latham, 1790)	species	Animalia	Chordata	Aves	Struthioniformes	Casuariidae	Emu	13
https://biodiversity.org.au/afd/taxa/40311ae3-7584-472f-b6e7-159aea152199	Archaeosynthemis occidentalis	Tillyard, 1910	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Western Brown Tigertail	13
https://biodiversity.org.au/afd/taxa/5be20e37-775a-4278-84b2-ac51618039d6	Lampropholis guichenoti	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Pale-flecked Garden Sunskink	13
https://biodiversity.org.au/afd/taxa/6a949f24-e356-4b88-899d-98223208b95f	Morelia imbricata	(Smith, 1981)	species	Animalia	Chordata	Reptilia	Squamata	Pythonidae	Western Carpet Python	13
https://biodiversity.org.au/afd/taxa/7de6b16a-f854-4b4b-88cf-81868ce74ad8	Felis catus	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Carnivora	Felidae	Cat	13
https://biodiversity.org.au/afd/taxa/83e8ee9b-1580-4e2f-84b0-f40736b525b8	Geocrinia leai	(Fletcher, 1898)	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Lea's Frog	13
https://biodiversity.org.au/afd/taxa/a9639dfa-fdc1-4226-b9e5-afb3d346d49d	Hermetia illucens	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Diptera	Stratiomyidae		13
https://biodiversity.org.au/afd/taxa/cee4a154-36b8-4ea3-a964-4994ceeb6129	Backobourkia heroine	(L. Koch, 1871)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		13
https://biodiversity.org.au/afd/taxa/ec751bb4-933f-4c42-b812-74155b904d26	Lerista praepedita	(Boulenger, 1887)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Blunt-tailed West-coast Slider	13
https://biodiversity.org.au/afd/taxa/f2ecb3e3-a6e2-45cc-a986-716a69eec650	Chalinolobus gouldii	(J.E. Gray, 1841)	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Gould's Wattled Bat	13
https://biodiversity.org.au/afd/taxa/f452242f-5a35-4d5d-a141-7e2dfb9f176b	Calidris (Erolia) acuminata	(Horsfield, 1821)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Sharp-tailed Sandpiper	13
https://biodiversity.org.au/afd/taxa/fa7c15bb-cb8e-467e-a894-1f8ca72d5e01	Plesanemma fucata	(R. Felder & Rogenhofer, 1875)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Lemon Gum Moth	13
https://biodiversity.org.au/afd/taxa/fde86187-3fac-4948-8d64-321142fbea1c	Celaenia excavata	(L. Koch, 1867)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Bird Dropping Spider	13
https://biodiversity.org.au/afd/taxa/fec9222a-ce22-48ea-9054-57f21768bd21	Apricia jovialis	(L. Koch, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Australian Jumping Spider	13
https://id.biodiversity.org.au/node/apni/2888554	Schoenus subflavus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Yellow Bog-rush	13
https://id.biodiversity.org.au/node/apni/2888913	Leucopogon capitellatus	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		13
https://id.biodiversity.org.au/node/apni/2891504	Conospermum acerosum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Needle-leaved Smokebush	13
https://id.biodiversity.org.au/node/apni/2892299	Pentameris airoides	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	False Hairgrass	13
https://id.biodiversity.org.au/node/apni/2892341	Pimelea spectabilis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Bunjong	13
https://id.biodiversity.org.au/node/apni/2893542	Hibbertia spicata	F.Muell.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		13
https://id.biodiversity.org.au/node/apni/2894580	Acacia urophylla	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Pointed Leaved Acacia	13
https://id.biodiversity.org.au/node/apni/2900465	Lomandra purpurea	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Purple Mat Rush	13
https://id.biodiversity.org.au/node/apni/2902391	Tetrarrhena laevis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Forest Ricegrass	13
https://id.biodiversity.org.au/node/apni/2902574	Olea europaea	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Oleaceae	Common Olive	13
https://id.biodiversity.org.au/node/apni/2903020	Hakea conchifolia	Hook.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Shell-leaved Hakea	13
https://id.biodiversity.org.au/node/apni/2904104	Siloxerus multiflorus	Nees	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Small Wrinklewort	13
https://id.biodiversity.org.au/node/apni/2906006	Tolpis barbata	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Yellow Hawkweed	13
https://id.biodiversity.org.au/node/apni/2912741	Solanum nigrum	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Black Nightshade	13
https://id.biodiversity.org.au/node/apni/2915626	Juncus capitatus	Weigel	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Dwarf Rush	13
https://id.biodiversity.org.au/node/apni/2915651	Eucalyptus gomphocephala	DC.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Tuart	13
https://id.biodiversity.org.au/node/apni/2917259	Macarthuria keigheryi	Lepschi	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Limeaceae	Keighery's Macarthuria	13
https://id.biodiversity.org.au/node/apni/2919334	Leucopogon squarrosus	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		13
https://id.biodiversity.org.au/node/apni/7385749	Centaurium tenuiflorum	(Hoffmanns. & Link) Fritsch	species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Branched Centaury	13
https://id.biodiversity.org.au/taxon/apni/51285685	Latrobea tenella	(Meisn.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		13
https://id.biodiversity.org.au/taxon/apni/51289365	Conothamnus trinervis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		13
https://id.biodiversity.org.au/taxon/apni/51291069	Parentucellia latifolia	(L.) Caruel	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Red Bartsia	13

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51409747	Prasophyllum drummondii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Leek Orchid	13
https://id.biodiversity.org.au/taxon/apni/51437674	Dianella revoluta	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Blueberry Lily	13
https://id.biodiversity.org.au/taxon/apni/51448877	Macrozamia fraseri	Miq.	species	Plantae	Charophyta	Equisetopsida	Cycadales	Zamiaceae	Zamia	13
ALA_DR24112_69	Anas superciliosa X platyrhynchos		species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Geese	12
NZOR-6-48398	Leratiomyces ceres	(Cooke & Massee) Bridge & Spooner	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		12
https://biodiversity.org.au/afd/taxa/00117d2a-4a7b-49b5-b09f-8f33ff734fe1	Asianopis schomburgki	(Karsch, 1878)	species	Animalia	Arthropoda	Arachnida	Araneae	Deinopidae		12
https://biodiversity.org.au/afd/taxa/0b9e5469-97a1-4029-8b58-a3ac55d35ee9	Raveniella cirrata	Rix & Harvey, 2010	species	Animalia	Arthropoda	Arachnida	Araneae	Anapidae		12
https://biodiversity.org.au/afd/taxa/19bd6053-5c3f-4fd6-bedc-4f1fec38109c	Prasinocyma semicrocea	(Walker, 1861)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	12
https://biodiversity.org.au/afd/taxa/22809552-d235-43fc-a2ce-6db8136c13bf	Chrysodeixis argentifera	(GuenÃ©e, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Tobacco Looper Moth	12
https://biodiversity.org.au/afd/taxa/44e297b8-0bc8-4d5a-a592-6a93ef646b51	Geogarypus taylori	Harvey, 1986	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Geogarypidae	Pseudoscorpion	12
https://biodiversity.org.au/afd/taxa/79984cb9-958f-4b5b-a89d-b264af10a1fa	Periplaneta americana	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	American Cockroach	12
https://biodiversity.org.au/afd/taxa/89db4444-f864-48b2-9446-47e54b5174d1	Echiopsis curta	(Schlegel, 1837)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Bardick	12
https://biodiversity.org.au/afd/taxa/8d866229-b80c-4b77-9a10-e4ee171de9ab	Diphucrania viridipurpurea	(Carter, 1924)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		12
https://biodiversity.org.au/afd/taxa/a2ca35ec-6541-450b-83d4-506ea5bd7017	Moerarchis clathrata	(R. Felder & Rogenhofer, 1875)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tineidae		12
https://biodiversity.org.au/afd/taxa/b6930f29-3f26-415e-a760-c12c320c2931	Phascogale tapoatafa	(Meyer, 1793)	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Dasyuridae	Brush-tailed Phascogale	12
https://biodiversity.org.au/afd/taxa/bff03204-824b-416c-98cd-89df714d62fe	Dendrocygna eytoni	(Eyton, 1838)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Plumed Whistling-duck	12
https://biodiversity.org.au/afd/taxa/c55da61b-571f-420e-a9cf-9a48e4303219	Porcellio scaber	Latreille, 1804	species	Animalia	Arthropoda	Malacostraca	Isopoda	Porcellionidae		12
https://biodiversity.org.au/afd/taxa/db652444-5e16-4894-9337-f3215d49fc51	Prionyx saevus	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		12
https://biodiversity.org.au/afd/taxa/e20a0cc7-57e4-4b4b-814b-a88ecf4ed67b	Ctenotus labillardieri	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Red-legged Ctenotus	12
https://biodiversity.org.au/afd/taxa/e96c4568-a10f-4ea9-a741-a551b1f22bc1	Gambusia holbrooki	Girard, 1859	species	Animalia	Chordata	Actinoptergii	Cyprinodontiformes	Poeciliidae	Eastern Gambusia	12
https://biodiversity.org.au/afd/taxa/f385585e-724e-4f64-bf6e-16f6296fb3a8	Danaus petilia	(Stoll, 1790)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Lesser Wanderer	12
https://biodiversity.org.au/afd/taxa/f67a6313-3d83-4c89-b7ec-9b322fe24ce9	Austrosciapus connexus	(Walker, 1835)	species	Animalia	Arthropoda	Insecta	Diptera	Dolichopodidae	Long-legged Fly	12
https://id.biodiversity.org.au/node/apni/2887354	Banksia incana	A.S.George	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		12
https://id.biodiversity.org.au/node/apni/2889306	Tecticornia indica	(Willd.) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Samphire	12
https://id.biodiversity.org.au/node/apni/2891550	Melinis repens	(Willd.) Zizka	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Red Natal-grass	12
https://id.biodiversity.org.au/node/apni/2891757	Thysanotus dichotomus	(Labill.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Branching Fringe Lily	12
https://id.biodiversity.org.au/node/apni/2894848	Verticordia nitens	(Lindl.) Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Morrison	12
https://id.biodiversity.org.au/node/apni/2895025	Leucopogon sprengelioides	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		12
https://id.biodiversity.org.au/node/apni/2897232	Crassula colorata	(Nees) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Dense Stonecrop	12
https://id.biodiversity.org.au/node/apni/2898016	Olearia elaeophila	(A.Cunn. ex DC.) F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		12
https://id.biodiversity.org.au/node/apni/2904101	Tricoryne tenella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Tufted Yellow Rush-lily	12
https://id.biodiversity.org.au/node/apni/2907368	Hypochaeris radicata	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cats-ear	12
https://id.biodiversity.org.au/node/apni/2912193	Arundo donax	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Giant Reed	12
https://id.biodiversity.org.au/node/apni/2913560	Banksia mimica	(A.S.George) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Summer Honeypot	12
https://id.biodiversity.org.au/node/apni/2914608	Hibbertia ovata	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		12
https://id.biodiversity.org.au/node/apni/2915129	Aira cupaniana	Guss.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Quicksilver Grass	12
https://id.biodiversity.org.au/node/apni/2918810	Lomandra odora	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Fragrant Mat Rush	12
https://id.biodiversity.org.au/node/apni/2918921	Schoenus brevisetis	(R.Br.) Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		12
https://id.biodiversity.org.au/node/apni/2920953	Hibbertia acerosa	(R.Br. ex DC.) Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Needle Leaved Guinea Flower	12
https://id.biodiversity.org.au/node/apni/6917219	Zantedeschia aethiopica	(L.) Spreng.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	White Arum Lily	12
https://id.biodiversity.org.au/node/apni/6923911	Centella asiatica	(L.) Urb.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Indian Pennywort	12
https://id.biodiversity.org.au/taxon/apni/51283608	Drosera paleacea	DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Dwarf Sundew	12
https://id.biodiversity.org.au/taxon/apni/51288947	Beaufortia squarrosa	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Sand Bottlebrush	12
https://id.biodiversity.org.au/taxon/apni/51399028	Caladenia footeana	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Crimson Spider Orchid	12
https://id.biodiversity.org.au/taxon/apni/51435951	Daviesia podophylla	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		12
https://id.biodiversity.org.au/taxon/apni/51437546	Haemodorum discolor	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Bloodroot	12
https://id.biodiversity.org.au/taxon/apni/51447192	Santalum acuminatum	(R.Br.) A.DC.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae	Sweet Quandong	12
https://biodiversity.org.au/afd/taxa/07980cf7-0f96-4a4f-9a51-bf3869df770b	Megachile apicata	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	11
https://biodiversity.org.au/afd/taxa/14f4765d-6ea3-48b2-8aad-fe2dc4c32137	Aphanesthes succinea	(Hope, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		11
https://biodiversity.org.au/afd/taxa/171b0bfe-3afa-42bf-91ac-5cd85d3e43d1	Polytelis anthopeplus	(Lear, 1831)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Regent Parrot	11
https://biodiversity.org.au/afd/taxa/187411b6-ee86-4b1e-94b2-2bb4a21af3a6	Sandava scitisignata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	11

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/1b11ebd1-7e44-4d81-8c12-7141ffddfc78	Myiagra (Seisura) inquieta	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Monarchidae	Restless Flycatcher	11
https://biodiversity.org.au/afd/taxa/21239c7e-5095-460e-a590-f60eb6e711d9	Castiarina mimesis	Barker, 1993	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		11
https://biodiversity.org.au/afd/taxa/21cd643a-bdca-4353-9d4c-63a27400ef0b	Gminatus australis	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	11
https://biodiversity.org.au/afd/taxa/2bea2f7e-fc33-44ae-9457-bed5b84d306c	Pheidole megacephala	(Fabricius, 1793)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	African Big-headed Ant	11
https://biodiversity.org.au/afd/taxa/3acaf6a0-caec-4cb0-bb6d-f7d38df50daa	Dolichoderus ypsilon	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		11
https://biodiversity.org.au/afd/taxa/466b4958-ca9e-442b-ba53-3bcfa39fc66a	Ballarra longipalpus	Hunt & Cokendolpher, 1991	species	Animalia	Arthropoda	Arachnida	Opiliones	Neopilionidae		11
https://biodiversity.org.au/afd/taxa/4c187141-8724-416a-98a4-cc31b8c7de3d	Aprasia pulchella	Gray, 1839	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Western Granite Worm-lizard	11
https://biodiversity.org.au/afd/taxa/510e626c-6881-4c99-b1d9-eb460f5802b1	Megachile fultoni	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		11
https://biodiversity.org.au/afd/taxa/58aadeba-d087-4d60-9b33-eef34cf7a682	Tursiops aduncus	(Ehrenberg, 1832)	species	Animalia	Chordata	Mammalia	Cetacea	Delphinidae	Long-beaked Bottle-nosed Dolphin	11
https://biodiversity.org.au/afd/taxa/67ecbf3c-43c3-4b9c-b23c-bd6d4a0419c6	Synoicus ypsilophora	(Bosc, 1792)	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Brown Quail	11
https://biodiversity.org.au/afd/taxa/80eebde0-e367-4214-a0f6-7bd6cc4e0824	Vanessa itea	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Australian Admiral	11
https://biodiversity.org.au/afd/taxa/9cc621a6-0924-4c0b-9b6c-1649e92e3749	Eupograpta kottae	Raven, 2009	species	Animalia	Arthropoda	Arachnida	Araneae	Miturgidae		11
https://biodiversity.org.au/afd/taxa/a33fed1c-aeac-4beb-b30b-f74a294ffeb2	Castiarina crenata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		11
https://biodiversity.org.au/afd/taxa/a88fb5e7-c92b-40c8-8e03-7d4ad013bd99	Cermatulus nasalis	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Predatory Shield Bug	11
https://biodiversity.org.au/afd/taxa/acd938a7-736a-4a4c-9742-423dbb940d6f	Castiarina subcincta	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		11
https://biodiversity.org.au/afd/taxa/b4080bd6-a356-4b93-80f4-339085cdf215	Paramphisopus palustris	(Glauert, 1924)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Amphisopodidae	Freshwater Isopod	11
https://biodiversity.org.au/afd/taxa/bc1ed2c0-47ee-406f-913b-c9128d877653	Eurymeloides punctata	(Signoret, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	11
https://biodiversity.org.au/afd/taxa/c49d57f4-b35d-4fb8-b2e2-e0b630093494	Maratus scutulatus	(L. Koch, 1881)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Jumping Spider	11
https://biodiversity.org.au/afd/taxa/e9d30891-61ee-4984-b212-69d11b803641	Isturgia penthearia	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	11
https://biodiversity.org.au/afd/taxa/f354c711-e32a-45a2-b649-e9f7f6e0823a	Carcinophora occidentalis	(Kirby, 1896)	species	Animalia	Arthropoda	Insecta	Dermaptera	Anisolabididae		11
https://biodiversity.org.au/afd/taxa/f4b54e80-bb18-4996-9907-494be08d2fbf	Diplodactylus granariensis	Storr, 1979	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Wheat-belt Stone Gecko	11
https://biodiversity.org.au/afd/taxa/fb531b39-fd0b-4afb-9115-5e4f4691cf7f	Synemon gratiosa	Westwood, 1877	species	Animalia	Arthropoda	Insecta	Lepidoptera	Castniidae	Graceful Sun-moth	11
https://biodiversity.org.au/afd/taxa/fd914abc-36ff-4439-b8c9-b048e269ccb7	Protaetia fusca	(Herbst, 1790)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Mottled Flower Scarab	11
https://id.biodiversity.org.au/node/apni/2889203	Vulpia myuros	(L.) C.C.Gmel.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fescue	11
https://id.biodiversity.org.au/node/apni/2889814	Rumex crispus	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Curled Dock	11
https://id.biodiversity.org.au/node/apni/2891238	Dampiera triloba	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		11
https://id.biodiversity.org.au/node/apni/2891338	Opercularia echinocephala	Benth.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Bristly Headed Stinkweed	11
https://id.biodiversity.org.au/node/apni/2892146	Xylomelum occidentale	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Woody Pear	11
https://id.biodiversity.org.au/node/apni/2892785	Hibbertia glomerata	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		11
https://id.biodiversity.org.au/node/apni/2893399	Pimelea angustifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Narrow-leaved Pimelea	11
https://id.biodiversity.org.au/node/apni/2893570	Kunzea glabrescens	Toelken	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spearwood	11
https://id.biodiversity.org.au/node/apni/2894037	Trymalium angustifolium	Reissek	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		11
https://id.biodiversity.org.au/node/apni/2895995	Lathyrus tingitanus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tangier Pea	11
https://id.biodiversity.org.au/node/apni/2898644	Kunzea micrantha	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		11
https://id.biodiversity.org.au/node/apni/2900900	Juncus kraussii	Hochst.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Sea Rush	11
https://id.biodiversity.org.au/node/apni/2901098	Goodenia drummondii	Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		11
https://id.biodiversity.org.au/node/apni/2903464	Lobelia heterophylla	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Lobelia	11
https://id.biodiversity.org.au/node/apni/2904352	Stachystemon vermicularis	Planch.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Picrodendraceae		11
https://id.biodiversity.org.au/node/apni/2906694	Sphaerolobium linophyllum	(HÃ¼gel ex Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		11
https://id.biodiversity.org.au/node/apni/2909298	Anigozanthos viridis	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Green Kangaroo Paw	11
https://id.biodiversity.org.au/node/apni/2910980	Lomandra micrantha	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Small-flower Mat-rush	11
https://id.biodiversity.org.au/node/apni/2912734	Agonis flexuosa	(Willd.) Sweet	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Willow Myrtle	11
https://id.biodiversity.org.au/node/apni/2913511	Rhodanthe citrina	(Benth.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pale Immortelle	11
https://id.biodiversity.org.au/node/apni/2914245	Stylidium eriopodum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		11
https://id.biodiversity.org.au/node/apni/2914806	Lepidosperma pubisquameum	Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		11
https://id.biodiversity.org.au/node/apni/2915014	Marianthus bicolor	(Putt.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		11
https://id.biodiversity.org.au/node/apni/2918032	Vulpia bromoides	(L.) Gray	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Squirrel-tail Fescue	11
https://id.biodiversity.org.au/node/apni/2918533	Lechenaultia floribunda	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Free-flowering Leschenaultia	11
https://id.biodiversity.org.au/node/apni/2919250	Ricinus communis	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Castor Oil Plant	11
https://id.biodiversity.org.au/node/apni/2919881	Drosera hyperostigma	N.G.Marchant & Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		11
https://id.biodiversity.org.au/node/apni/6285445	Conostylis candicans	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Grey Cottonhead	11
https://id.biodiversity.org.au/node/apni/8694676	Eremophila glabra	(R.Br.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Black Fuchsia	11

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/ausmoss/10073204	Eccremidium pulchellum	(Hook. & Wilson) MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Earth Moss	11
https://id.biodiversity.org.au/node/fungi/60092453	Amanita xanthocephala	(Berk.) D.A.Reid & R.N.Hilton	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		11
https://id.biodiversity.org.au/node/fungi/60095231	Schizophyllum commune	Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Schizophyllaceae	Splitgill Mushroom	11
https://id.biodiversity.org.au/taxon/apni/51285764	Vicia sativa	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Vetch	11
https://id.biodiversity.org.au/taxon/apni/51293734	Leptocarpus canus	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Hoary Twine-rush	11
https://id.biodiversity.org.au/taxon/apni/51310737	Stylidium caricifolium	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Milkmaids	11
https://id.biodiversity.org.au/taxon/apni/51399243	Caladenia paludosa	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Spider Orchid	11
https://id.biodiversity.org.au/taxon/apni/51406612	Microtis atrata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Yellow Onion-orchid	11
https://id.biodiversity.org.au/taxon/apni/51414350	Thelymitra magnifica	Jeanes	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Crystal Brook Star Orchid	11
https://id.biodiversity.org.au/taxon/apni/51447838	Solanum sisymbriifolium	Lam.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Sticky Nightshade	11
https://biodiversity.org.au/afd/taxa/0015e8e2-5c1c-4fdb-aaa0-70ea932aadab	Metacymia marmorea	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		10
https://biodiversity.org.au/afd/taxa/04fcd0fe-6916-4492-9d55-4303e597037e	Artoriopsis expolita	(L. Koch, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	10
https://biodiversity.org.au/afd/taxa/058cb51d-07e3-44cd-b319-ddf826fa1490	Castiarina parallela	(White, 1859)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/070f8212-a396-4086-9f74-7fb312847c2a	Pachysaga australis	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		10
https://biodiversity.org.au/afd/taxa/22a7a742-1a37-4dee-bb53-adb26a417f2c	Papilio (Princeps) demoleus	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Lepidoptera	Papilionidae	Chequered Swallowtail	10
https://biodiversity.org.au/afd/taxa/27d00742-060a-48c0-881d-5eb8dac6e946	Geitoneura minyas	(Waterhouse & Lyell, 1914)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Western Xenica	10
https://biodiversity.org.au/afd/taxa/27d7c663-9bc0-4830-88d4-fa2a1e277668	Anestia ombrophanes	Meyrick, 1886	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	10
https://biodiversity.org.au/afd/taxa/28f978f9-1e2e-4b8e-af15-0951d37e7924	Paraoxypilus tasmaniensis	Saussure, 1870	species	Animalia	Arthropoda	Insecta	Mantodea	Amorphoscelidae		10
https://biodiversity.org.au/afd/taxa/297f9070-aebb-4ad4-97a7-ca7e9c13f1d4	Rhytidoponera violacea	(Forel, 1907)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		10
https://biodiversity.org.au/afd/taxa/2bc77f55-12fc-4a51-a7b7-340dac43905d	Tiliqua occipitalis	(Peters, 1863)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Blue-tongue	10
https://biodiversity.org.au/afd/taxa/2cf3ee29-e268-4aee-ba76-aa6bb6a31239	Clynotis severus	(L. Koch, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Jumping Spider	10
https://biodiversity.org.au/afd/taxa/3d42fe6b-85d5-4f86-a1d5-35b472cf2856	Eristalis (Eristalis) tenax	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Drone Fly	10
https://biodiversity.org.au/afd/taxa/4a764d71-e9e8-485d-b214-ac6962f04127	Cephrenes augiades	(C. Felder, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Orange Palm-dart	10
https://biodiversity.org.au/afd/taxa/4b65277d-fe8e-4605-abc6-9ab5b2174d08	Castiarina placida	(Thomson, 1879)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/4bcf9c5d-7254-4f41-915e-ded5b733ef73	Nymphicus hollandicus	(Kerr, 1792)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Cockatiel	10
https://biodiversity.org.au/afd/taxa/4f5c1eb6-fdbc-4cd3-83be-213e52727b8b	Megachile (Schizomegachile) monstrosa	Smith, 1868	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	10
https://biodiversity.org.au/afd/taxa/5055eec1-88e5-4257-b907-256d437a97c1	Castiarina aureola	(Carter, 1913)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/50698a76-7dcd-44e5-92cf-e23cbd2c2590	Hypsidia grisea	Scoble & E.D. Edwards, 1988	species	Animalia	Arthropoda	Insecta	Lepidoptera	Drepanidae		10
https://biodiversity.org.au/afd/taxa/5221b51b-4366-449c-8520-5ddc42009150	Heteronotia binoei	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Bynoe's Gecko	10
https://biodiversity.org.au/afd/taxa/67c256a8-6a31-46de-9dde-d75d5578496c	Turnix (Austroturnix) varius	(Latham, 1801)	species	Animalia	Chordata	Aves	Turniciformes	Turnicidae	Painted Button-quail	10
https://biodiversity.org.au/afd/taxa/7a7cd02c-079e-496d-a96c-9ee1b502a3d2	Circopetes obtusata	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	10
https://biodiversity.org.au/afd/taxa/7bfe8a7e-fff5-40f7-88a3-a795da1ee5c4	Phyllorhiza punctata	Von Lendenfeld, 1884	species	Animalia	Cnidaria	Scyphozoa	Rhizostomeae	Mastigiidae		10
https://biodiversity.org.au/afd/taxa/7c9fe9fa-4b9b-4cca-a6f6-296a68153acf	Podomyrma adelaidae	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Muscleman Ant	10
https://biodiversity.org.au/afd/taxa/8853e65f-cd81-4767-9ebe-af2013a0e938	Delta bicinctum	(Saussure, 1852)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	Wasp	10
https://biodiversity.org.au/afd/taxa/952bd0ab-9178-4a58-bb91-654778554b03	Scopula rubraria	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Carpet Moth	10
https://biodiversity.org.au/afd/taxa/a498f151-3f9e-4fb0-b6f3-64c2f20db5bc	Amniatata caudavittata	(Richardson, 1845)	species	Animalia	Chordata	Actinopterygii	Perciformes	Terapontidae	Yellowtail Grunter	10
https://biodiversity.org.au/afd/taxa/a6c28c42-f794-4555-a38f-aff9ecf6d53a	Utetheisa pulchelloides	Hampson, 1907	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Crimson Spotted Moth	10
https://biodiversity.org.au/afd/taxa/aac06d61-b8b3-4988-9483-3455b96c4a15	Phaps (Phaps) elegans	(Temminck, 1809)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Brush Bronzewing	10
https://biodiversity.org.au/afd/taxa/acf603a5-ec8c-426a-ba08-0bb79ac32fa9	Hylaeus (Prosopisteron) quadratus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	10
https://biodiversity.org.au/afd/taxa/b8b65d6e-7c13-4074-a875-862b46985f8e	Erina acasta	(Cox, 1873)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Blotched Blue	10
https://biodiversity.org.au/afd/taxa/bd47e007-3a1c-4330-ac70-ef6ffe0128cc	Exoneura (Exoneura) bicolor	Smith, 1854	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Reed Bee	10
https://biodiversity.org.au/afd/taxa/dba78701-cae9-4afb-a41a-6697c52c5e34	Botaurus poiciloptilus	(Wagler, 1827)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Australasian Bittern	10
https://biodiversity.org.au/afd/taxa/ea44c14d-5b57-4f2b-9d58-fa7f8c6cb479	Ethonion roei	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		10
https://biodiversity.org.au/afd/taxa/ead4aed4-b7dd-4c0b-8fbf-a72ab69b0403	Stenoderus suturalis	(Olivier, 1795)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		10
https://biodiversity.org.au/afd/taxa/ef70e7c7-a3ca-4476-ac64-c2cbdc663562	Vespadelus regulus	(Thomas, 1906)	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Southern Forest Bat	10
https://id.biodiversity.org.au/node/apni/2886250	Gastrolobium oxylobioides	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Champion Bay Poison	10
https://id.biodiversity.org.au/node/apni/2886742	Astartea scoparia	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Common Astartea	10
https://id.biodiversity.org.au/node/apni/2887078	Hakea cyclocarpa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Ramshorn	10
https://id.biodiversity.org.au/node/apni/2887617	Conostephium minus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Pink-tipped Pearl Flower	10
https://id.biodiversity.org.au/node/apni/2888428	Acacia drummondii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Drummond's Wattle	10
https://id.biodiversity.org.au/node/apni/2888651	Pultenaea ericifolia	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		10
https://id.biodiversity.org.au/node/apni/2891198	Lechenaultia expansa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		10

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2891726	Desmocladus asper	(Nees) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		10
https://id.biodiversity.org.au/node/apni/2894718	Grevillea diversifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Variable-leaved Grevillea	10
https://id.biodiversity.org.au/node/apni/2895177	Comesperma flavum	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		10
https://id.biodiversity.org.au/node/apni/2897219	Eucalyptus patens	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Blackbutt	10
https://id.biodiversity.org.au/node/apni/2898701	Dampiera coronata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Wedge-leaved Dampiera	10
https://id.biodiversity.org.au/node/apni/2899172	Amyema miquelii	(Lehm. ex Miq.) Tiegh.	species	Plantae	Charophyta	Equisetopsida	Santalales	Loranthaceae	Box Mistletoe	10
https://id.biodiversity.org.au/node/apni/2899507	Waitzia nitida	(Lindl.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		10
https://id.biodiversity.org.au/node/apni/2900500	Lepidosperma tetraquetrum	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		10
https://id.biodiversity.org.au/node/apni/2901595	Salix babylonica	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Salicaceae	Weeping Willow	10
https://id.biodiversity.org.au/node/apni/2902442	Xanthorrhoea drummondii	Harv.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae		10
https://id.biodiversity.org.au/node/apni/2903990	Pentameris pallida	(Thunb.) Galley & H.P.Linder	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Pussy Tail	10
https://id.biodiversity.org.au/node/apni/2905839	Leptospermum laevigatum	(Gaertn.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Coast Tea-tree	10
https://id.biodiversity.org.au/node/apni/2906546	Avena barbata	Pott ex Link	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Bearded Oats	10
https://id.biodiversity.org.au/node/apni/2907285	Isotoma pusilla	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Small Isotome	10
https://id.biodiversity.org.au/node/apni/2908255	Hibbertia stellaris	Endl.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Guinea Flower	10
https://id.biodiversity.org.au/node/apni/2912379	Centaurium erythraea	Rafn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Common Centaury	10
https://id.biodiversity.org.au/node/apni/2913384	Darwinia pimelioides	Cayzer & F.W.Wakef.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		10
https://id.biodiversity.org.au/node/apni/2916215	Bossiaea pulchella	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		10
https://id.biodiversity.org.au/node/apni/2916496	Stackhousia pubescens	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae		10
https://id.biodiversity.org.au/node/apni/2918082	Grevillea robusta	A.Cunn. ex R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Silky Oak	10
https://id.biodiversity.org.au/node/apni/2918109	Goodenia micrantha	Hemsl. ex Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		10
https://id.biodiversity.org.au/node/apni/2918621	Verticordia drummondii	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Drummond's Featherflower	10
https://id.biodiversity.org.au/node/apni/2920283	Juncus pallidus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Pale Rush	10
https://id.biodiversity.org.au/node/apni/2920654	Cryptandra nutans	Steud.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		10
https://id.biodiversity.org.au/node/apni/2920702	Misopates orontium	(L.) Raf.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Lesser Snapdragon	10
https://id.biodiversity.org.au/node/apni/2920942	Isolepis levynsiana	Muasya & D.A.Simpson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tiny Flat-sedge	10
https://id.biodiversity.org.au/node/ausmoss/10085108	Funaria hygrometrica	Hedw.	species	Plantae	Bryophyta	Bryopsida	Funariales	Funariaceae	Common Cord-moss	10
https://id.biodiversity.org.au/taxon/apni/51283610	Drosera micrantha	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		10
https://id.biodiversity.org.au/taxon/apni/51288780	Babingtonia pelloeae	Rye & Trudgen	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Pelloe's Babingtonia	10
https://id.biodiversity.org.au/taxon/apni/51289571	Calothamnus lateralis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		10
https://id.biodiversity.org.au/taxon/apni/51293452	Hakea neospathulata	I.M.Turner	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		10
https://id.biodiversity.org.au/taxon/apni/51409853	Prasophyllum plumiforme	Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Leek Orchid	10
https://id.biodiversity.org.au/taxon/apni/51414290	Thelymitra graminea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Shy Sun Orchid	10
https://id.biodiversity.org.au/taxon/apni/51439731	Eremaea asterocarpa	Hnatiuk	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		10
https://id.biodiversity.org.au/taxon/apni/51441839	Pterostylis atrosanguinea	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Crowded Banded Greenhood	10
https://id.biodiversity.org.au/taxon/apni/51448660	Lantana camara	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Lantana	10
https://id.biodiversity.org.au/taxon/apni/51614272	Petrophile squamata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		10
https://id.biodiversity.org.au/taxon/apni/51702973	Bossiaea angustifolia	(Meisn.) Keighery	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		10
https://id.biodiversity.org.au/taxon/apni/51736246	Apium prostratum	Labill. ex Vent.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Sea Celery	10
https://biodiversity.org.au/afd/taxa/068af882-301d-4d2d-a873-960efb6d61ca	Leioproctus (Leioproctus) opaculus	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		9
https://biodiversity.org.au/afd/taxa/07dcbbb3-4b05-42ea-8f8f-009a56d258b5	Zachria flavicoma	L. Koch, 1875	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		9
https://biodiversity.org.au/afd/taxa/1288a458-1631-40e5-837d-fd286679f866	Cladorhynchus leucocephalus	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Charadriiformes	Recurvirostridae	Banded Stilt	9
https://biodiversity.org.au/afd/taxa/2e41afc2-e300-48e7-b88c-438517ecee81	Hemicordulia australiae	(Rambur, 1842)	species	Animalia	Arthropoda	Insecta	Odonata	Corduliidae	Australian Emerald	9
https://biodiversity.org.au/afd/taxa/316c5ff9-137b-4356-a46d-5d136aecb1d1	Microeca (Microeca) fascinans	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Jacky Winter	9
https://biodiversity.org.au/afd/taxa/3940981a-42a5-4bab-8213-1c8df6ac64da	Typhlodromus doreenae	Schicha, 1987	species	Animalia	Arthropoda	Arachnida	Mesostigmata	Phytoseiidae		9
https://biodiversity.org.au/afd/taxa/434f49ea-6924-4a2f-9d47-c721b1be2343	Gastrinodes argoplaca	(Meyrick, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	9
https://biodiversity.org.au/afd/taxa/438d9182-0903-4c66-b6c9-7521cf133963	Delma grayii	Smith, 1849	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Side-barred Delma	9
https://biodiversity.org.au/afd/taxa/49a7d9e8-c444-4788-ac38-15b9393018e9	Cethegus fugax	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Euagridae		9
https://biodiversity.org.au/afd/taxa/4bde78a3-1f52-4432-99ec-ff0a98131b87	Pogonortalis doclea	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Platystomatidae	Signal Fly	9
https://biodiversity.org.au/afd/taxa/5832a5b9-1052-4d35-a7fb-2c93c211c6c9	Ogyris amaryllis	Hewitson, 1862	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Amaryllis Azure	9
https://biodiversity.org.au/afd/taxa/5f2d91f8-afd8-41dc-8e6d-fec5f51e29ca	Austrothemis nigrescens	(Martin, 1901)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Swamp Flat-tail	9
https://biodiversity.org.au/afd/taxa/6014bb6c-d940-4e6c-b0b0-c00b10b6faec	Cosmodes elegans	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Green Blotched Moth	9
https://biodiversity.org.au/afd/taxa/62428f61-df42-4eb6-b4fa-053b4f93be80	Bembix vespiformis	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	9

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/63f90170-118f-4b12-8330-63d61ca6ae53	Herpetogramma licarsisalis	(Walker, 1859)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Sod Webworm	9
https://biodiversity.org.au/afd/taxa/6a73fc39-5edb-413a-a615-8b5aa7124711	Poecilometis lineatus	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		9
https://biodiversity.org.au/afd/taxa/77c37810-551f-4786-8606-8838db47b05c	Lasioscopus acmaeops	(Jacobi, 1909)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		9
https://biodiversity.org.au/afd/taxa/78d13b37-837c-4fb5-a37d-686e6ce4afc3	Ellipsidion australe	(Saussure, 1863)	species	Animalia	Arthropoda	Insecta	Blattodea	Pseudophyllodromiidae	Austral Ellipsidion Cockroach	9
https://biodiversity.org.au/afd/taxa/7989381b-c16f-485d-bd01-ff394d96e64d	Ethonion breve	(Carter, 1923)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		9
https://biodiversity.org.au/afd/taxa/9351c305-68c2-4272-84ca-c900ac6bcee9	Chrysopogon albopunctatus	(Macquart, 1846)	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		9
https://biodiversity.org.au/afd/taxa/946b5655-fc69-4220-97a5-288b9f9eca39	Xanthagrion erythroneurum	(Selys, 1876)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	Red & Blue Damsel	9
https://biodiversity.org.au/afd/taxa/9cf3eaf7-c855-4e69-afc3-9bcf97201788	Necterosoma darwini	(Babington, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	9
https://biodiversity.org.au/afd/taxa/a19849cc-caa1-43c2-97f8-2e3dae6f4cb9	Tatea rufilabris	(A. Adams, 1862)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Tateidae	Freshwater Snail	9
https://biodiversity.org.au/afd/taxa/ab8a8b97-90dc-4c83-be78-b0af065685a1	Coryphistes ruricola	(Burmeister, 1838)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Bark-mimicking Grasshopper	9
https://biodiversity.org.au/afd/taxa/b6f36641-54da-419a-8315-835a6c2e2975	Monomorium laeve	Mayr, 1876	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Yellow Mono Ant	9
https://biodiversity.org.au/afd/taxa/b811ea50-7e38-45f0-bedc-c2870851bbe4	Exaireta spinigera	(Wiedemann, 1830)	species	Animalia	Arthropoda	Insecta	Diptera	Stratiomyidae	Garden Soldier Fly	9
https://biodiversity.org.au/afd/taxa/bbc91646-4947-459c-9a3b-7f1122e656f7	Cygnus (Chenopis) atratus	(Latham, 1790)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Black Swan	9
https://biodiversity.org.au/afd/taxa/bcdc20a2-7b4e-4507-bf3a-9d2cf85c82d9	Phoracantha recurva	Newman, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		9
https://biodiversity.org.au/afd/taxa/cc1c005d-05f3-49db-90a0-d56219832418	Ichneumon promissorius	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		9
https://biodiversity.org.au/afd/taxa/d18ba9ca-1f5e-4b51-8884-8a6c4df038d9	Arenigobius bifrenatus	(Kner, 1865)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Bridled Goby	9
https://biodiversity.org.au/afd/taxa/d40ed699-db9d-4dd9-88c6-02bc46370ee2	Thomisus spectabilis	Doleschall, 1859	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Flower Spider	9
https://biodiversity.org.au/afd/taxa/d51204af-f782-4c64-9428-e30a8a705aa1	Ischnura heterosticta	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	Common Bluetail	9
https://biodiversity.org.au/afd/taxa/d8af29b8-05d6-451a-ac51-ba27f3aa07b7	Oecobius navus	Blackwall, 1859	species	Animalia	Arthropoda	Arachnida	Araneae	Oecobiidae	Wall Spider	9
https://biodiversity.org.au/afd/taxa/e031af48-c8dc-4a2d-99d2-df53bdf4adbc	Miniargiolestes minimus	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Argiolestidae	Stream Flatwing	9
https://biodiversity.org.au/afd/taxa/e8734472-e068-46ab-9340-023eac3d5519	Heoclisis fundata	(Walker, 1853)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Antlion	9
https://biodiversity.org.au/afd/taxa/ea376e20-4098-4271-975e-11c695f9865e	Acantholophus suturalis	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		9
https://biodiversity.org.au/afd/taxa/ec2c76c7-0cd9-4f26-935e-4d90762590fa	Haematopus longirostris	Vieillot, 1817	species	Animalia	Chordata	Aves	Charadriiformes	Haematopodidae	Australian Pied Oystercatcher	9
https://biodiversity.org.au/afd/taxa/f7b096e9-a676-4f2e-8710-c2d4ddfded19	Megachile (Eutricharaea) simplex	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	9
https://id.biodiversity.org.au/node/apni/2886064	Stenocarpus sinuatus	Endl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Wheel Of Fire	9
https://id.biodiversity.org.au/node/apni/2886131	Myriophyllum drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		9
https://id.biodiversity.org.au/node/apni/2886352	Patersonia pygmaea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Pygmy Patersonia	9
https://id.biodiversity.org.au/node/apni/2886672	Echinochloa crus-galli	(L.) P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Barnyard Grass	9
https://id.biodiversity.org.au/node/apni/2889667	Platysace compressa	(Labill.) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Tapeworm Plant	9
https://id.biodiversity.org.au/node/apni/2889984	Hakea candolleana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		9
https://id.biodiversity.org.au/node/apni/2891901	Cycnogeton lineare	(Endl.) Sond.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae		9
https://id.biodiversity.org.au/node/apni/2892432	Gompholobium ovatum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		9
https://id.biodiversity.org.au/node/apni/2893862	Triglochin centrocarpa	Hook.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Dwarf Arrowgrass	9
https://id.biodiversity.org.au/node/apni/2895096	Pimelea brevistyla	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		9
https://id.biodiversity.org.au/node/apni/2895916	Stenanthemum emarginatum	Rye	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		9
https://id.biodiversity.org.au/node/apni/2896695	Lomandra spartea	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		9
https://id.biodiversity.org.au/node/apni/2897106	Aponogeton hexatepalus	H.Bruggen	species	Plantae	Charophyta	Equisetopsida	Alismatales	Aponogetonaceae	Stalked Water Ribbons	9
https://id.biodiversity.org.au/node/apni/2899057	Billardiera heterophylla	(Lindl.) L.W.Cayzer & Crisp	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Bluebell Creeper	9
https://id.biodiversity.org.au/node/apni/2899357	Ehrharta longiflora	Sm.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Veldt-grass	9
https://id.biodiversity.org.au/node/apni/2899520	Stylidium breviscapum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Boomerang Triggerplant	9
https://id.biodiversity.org.au/node/apni/2903376	Austrostipa pycnostachya	(Benth.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		9
https://id.biodiversity.org.au/node/apni/2903771	Billardiera fusiformis	Labill.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Bluebell Creeper	9
https://id.biodiversity.org.au/node/apni/2904092	Empodisma gracillimum	(F.Muell.) L.A.S.Johnson & D.F.Cutler	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Tanglefoot	9
https://id.biodiversity.org.au/node/apni/2905500	Comesperma ciliatum	Steetz	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		9
https://id.biodiversity.org.au/node/apni/2905552	Callistemon phoeniceus	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Lesser Bottlebrush	9
https://id.biodiversity.org.au/node/apni/2905657	Centrolepis mutica	(R.Br.) Hieron.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		9
https://id.biodiversity.org.au/node/apni/2907001	Crassula closiana	(Gay) Reiche	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Stalked Crassula	9
https://id.biodiversity.org.au/node/apni/2907847	Lepidosperma angustatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		9
https://id.biodiversity.org.au/node/apni/2908100	Leucopogon verticillatus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Tassel Flower	9
https://id.biodiversity.org.au/node/apni/2908597	Thomasia pauciflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Few Flowered Thomasia	9
https://id.biodiversity.org.au/node/apni/2909092	Schinus terebinthifolia	Raddi	species	Plantae	Charophyta	Equisetopsida	Sapindales	Anacardiaceae	Brazilian Pepper Tree	9

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2909227	Colocasia esculenta	(L.) Schott	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Taro	9
https://id.biodiversity.org.au/node/apni/2909951	Eucalyptus erythrocorys	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Red-capped Gum	9
https://id.biodiversity.org.au/node/apni/2910238	Paspalum urvillei	Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Vasey Grass	9
https://id.biodiversity.org.au/node/apni/2911712	Boronia tenuis	(Lindl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Blue Boronia	9
https://id.biodiversity.org.au/node/apni/2913504	Acacia aphylla	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Leafless Rock Wattle	9
https://id.biodiversity.org.au/node/apni/2913654	Tropaeolum majus	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Tropaeolaceae	Nasturtium	9
https://id.biodiversity.org.au/node/apni/2914042	Anthocercis gracilis	Benth.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Slender Tailflower	9
https://id.biodiversity.org.au/node/apni/2914355	Lepyrodia macra	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Large Scale Rush	9
https://id.biodiversity.org.au/node/apni/2915299	Quercus robur	L.	species	Plantae	Charophyta	Equisetopsida	Fagales	Fagaceae	English Oak	9
https://id.biodiversity.org.au/node/apni/2917263	Dietes grandiflora	N.E.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Wild Iris	9
https://id.biodiversity.org.au/node/apni/2920096	Leucopogon gracillimus	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		9
https://id.biodiversity.org.au/node/apni/2920807	Eucalyptus kruseana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Bookleaf Mallee	9
https://id.biodiversity.org.au/node/apni/2921084	Erodium botrys	(Cav.) Bertol.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Big Herons-bill	9
https://id.biodiversity.org.au/node/apni/4750977	Muehlenbeckia adpressa	(Labill.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Climbing Lignum	9
https://id.biodiversity.org.au/taxon/apni/51289275	Calothamnus rupestris	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Mouse Ears	9
https://id.biodiversity.org.au/taxon/apni/51311057	Xerochrysum macranthum	(Benth.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		9
https://id.biodiversity.org.au/taxon/apni/51430932	Daucus glochidiatus	(Labill.) Fisch., C.A.Mey. & Ave-Lall.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Native Carrot	9
https://id.biodiversity.org.au/taxon/apni/51446170	Chaetanthus aristatus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Bearded Twinerush	9
https://biodiversity.org.au/afd/taxa/0296bff8-3397-41d2-a4f3-91140321d0a5	Lasioglossum (Chilalictus) castor	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		8
https://biodiversity.org.au/afd/taxa/06e4e0c6-6973-4441-b7f2-2a5dcb932778	Nephila edulis	(LabillardiÃ¨re, 1799)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Australian Golden Orb-weaving Spider	8
https://biodiversity.org.au/afd/taxa/0d3ceb6d-a8de-45d3-8827-e4b97dfe92bf	Zonioploca bicolor	Shaw, 1925	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		8
https://biodiversity.org.au/afd/taxa/0fb7f878-4118-4277-903f-f9965d85aadd	Homoneura (Homoneura) perthensis	Malloch, 1927	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae		8
https://biodiversity.org.au/afd/taxa/10225969-809f-475b-b89b-7300f29a202d	Metaballus frontalis	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		8
https://biodiversity.org.au/afd/taxa/3edd50d6-4964-4766-b97a-3cd9f7baa7a6	Gyromantis kraussi	(Saussure, 1872)	species	Animalia	Arthropoda	Insecta	Mantodea	Amorphoscelidae		8
https://biodiversity.org.au/afd/taxa/4029aa18-3b82-450d-b24d-2b69ee3f946c	Oncorhinothynnus xanthospilus	(Shuckard, 1841)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		8
https://biodiversity.org.au/afd/taxa/4119a01b-3563-4633-b6b3-22dd28b790ce	Spodoptera litura	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Armyworm Moth	8
https://biodiversity.org.au/afd/taxa/459c6357-a012-465e-8c05-684264cd4ea4	Maratus mungaich	Waldock, 1995	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		8
https://biodiversity.org.au/afd/taxa/4d561038-f0fd-40e2-a607-7392ffc39c26	Bardistus cibarius	Newman, 1841	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Badee Grub	8
https://biodiversity.org.au/afd/taxa/5060e514-bb60-4e65-81a5-5a45ed453e67	Aedes (Rampamyia) notoscriptus	(Skuse, 1889)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae		8
https://biodiversity.org.au/afd/taxa/54fe92ef-0c36-4db8-8574-ba9e9d42dd20	Enasiba tristis	Olliff, 1886	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		8
https://biodiversity.org.au/afd/taxa/563c86d5-0707-46cd-8aaa-944bb2ea9a5f	Poecilometis punctiventris	(StÃ¥l, 1876)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		8
https://biodiversity.org.au/afd/taxa/5d3f3041-83a6-4d47-a640-67ddbabc845f	Hippodamia variegata	(Goeze, 1777)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Spotted Amber Ladybird	8
https://biodiversity.org.au/afd/taxa/61e170fd-93a7-4187-81b5-db2e25c2faf8	Balta hebardi	Princis, 1969	species	Animalia	Arthropoda	Insecta	Blattodea	Pseudophyllodromiidae		8
https://biodiversity.org.au/afd/taxa/623f0c55-e927-42a7-b0e6-220fec9d9691	Melangyna (Austrosyrphus) viridiceps	(Macquart, 1847)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Hover Fly	8
https://biodiversity.org.au/afd/taxa/66cf9e86-f1f3-4716-a4d3-cd4650ff087a	Tringa (Heteroscelus) brevipes	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Grey-tailed Tattler	8
https://biodiversity.org.au/afd/taxa/6b6a81b1-4928-488e-a45b-d42868c263a7	Raveniella peckorum	Rix & Harvey, 2010	species	Animalia	Arthropoda	Arachnida	Araneae	Anapidae		8
https://biodiversity.org.au/afd/taxa/6c5dc29f-1dbc-483c-b126-552993af97b1	Exoneurella setosa	(Houston, 1976)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae		8
https://biodiversity.org.au/afd/taxa/782c7f94-c447-41a9-80c8-2d4b9ea90fe2	Trichocolletes dives	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		8
https://biodiversity.org.au/afd/taxa/78ff5da4-018e-41e7-b019-e70d84da24b5	Campylomma liebknechti	(Girault, 1934)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Apple Dimpling Bug	8
https://biodiversity.org.au/afd/taxa/87d7d33c-e2e3-442c-aca9-aaa49a758bb2	Austrolestes annulosus	(Selys, 1862)	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Blue Ringtail	8
https://biodiversity.org.au/afd/taxa/9c2c48ed-7d1b-4cbb-ad24-d6abee807b02	Backobourkia brouni	(Urquhart, 1885)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	8
https://biodiversity.org.au/afd/taxa/ab3930a8-0ece-4216-9f02-cdc8ecf46f96	Pseudapines geminata	(Van Duzee, 1905)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Pittosporum Bug	8
https://biodiversity.org.au/afd/taxa/aea31ae7-e22c-4f0f-8644-c8f4a42471a9	Zaspilothynnus gilesi	Turner, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		8
https://biodiversity.org.au/afd/taxa/d052714a-7788-4ea9-a048-ac7664ccf27e	Ostearius melanopygius	(O.P.-Cambridge, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Linyphiidae		8
https://biodiversity.org.au/afd/taxa/d4fe643e-881f-49de-a8c9-628d5bce2e24	Macrotis lagotis	(Reid, 1837)	species	Animalia	Chordata	Mammalia	Peramelemorphia	Thylacomyidae	Bilby	8
https://biodiversity.org.au/afd/taxa/d5a8bde0-f56a-4af9-962a-d168b3e3308b	Coturnix (Coturnix) pectoralis	Gould, 1837	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Stubble Quail	8
https://biodiversity.org.au/afd/taxa/dafde291-d532-462b-8ca3-6c3d839cd719	Nezara viridula	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Green Vegetable Bug	8
https://biodiversity.org.au/afd/taxa/e23bc7cf-ee0c-4748-87a7-816df6c82341	Lasioglossum (Chilalictus) teltiri	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		8
https://biodiversity.org.au/afd/taxa/e438e96d-ceab-48a2-9bbb-966e92206113	Melanacanthus scutellaris	(Dallas, 1852)	species	Animalia	Arthropoda	Insecta	Hemiptera	Alydidae	Podsucking Bug	8

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/e68cbf98-1efe-4f96-a748-a771ce365de3	Oenosandra boisduvalii	Newman, 1856	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oenosandridae	Boisduval S Autumn Moth	8
https://biodiversity.org.au/afd/taxa/eff71393-69a4-4bbf-a505-3746f5165cd4	Habronestes australiensis	(O.P.-Cambridge, 1869)	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		8
https://biodiversity.org.au/afd/taxa/f13d3116-25ed-439c-bb75-531a94bd77d0	Neuroctenus transitus	Monteith, 1997	species	Animalia	Arthropoda	Insecta	Hemiptera	Aradidae		8
https://biodiversity.org.au/afd/taxa/f75b10e2-d382-48e8-8666-0da3d5303a25	Austroaeschna anacantha	Tillyard, 1908	species	Animalia	Arthropoda	Insecta	Odonata	Aeshnidae	Western Darner	8
https://biodiversity.org.au/afd/taxa/fa6364d4-bd9b-4e28-a983-4395e1d2ebea	Drepanacra binocula	(Newman, 1838)	species	Animalia	Arthropoda	Insecta	Neuroptera	Hemerobiidae	Hooktipped Brown Lacewing	8
https://biodiversity.org.au/afd/taxa/fbd4faa9-cf8f-421a-9640-831fa8b1e59d	Coelophora inaequalis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Common Australian Lady Beetle	8
https://biodiversity.org.au/afd/taxa/fc3b46b6-9622-4141-b803-f2e2d7297a7b	Pinkfloydia harveii	Dimitrov & Hormiga, 2011	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		8
https://biodiversity.org.au/afd/taxa/fe41d894-082c-4d2b-b49e-c543ce554b6b	Helea gilesi	(Carter, 1910)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		8
https://id.biodiversity.org.au/node/apni/2889067	Bolboschoenus caldwellii	(V.J.Cook) SojÃ¡k	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Salt Club-sedge	8
https://id.biodiversity.org.au/node/apni/2892855	Rytidosperma occidentale	(Vickery) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Western Wallaby Grass	8
https://id.biodiversity.org.au/node/apni/2896616	Dichopogon preissii	(Endl.) Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Nodding Chocolate Lily	8
https://id.biodiversity.org.au/node/apni/2897441	Lepidosperma tenue	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		8
https://id.biodiversity.org.au/node/apni/2898405	Melaleuca teretifolia	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Banbar	8
https://id.biodiversity.org.au/node/apni/2900642	Petrorhagia dubia	(Raf.) G.Lopez & Romo	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Velvet Pink	8
https://id.biodiversity.org.au/node/apni/2901268	Moraea miniata	Andrews	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Two-leaf Cape Tulip	8
https://id.biodiversity.org.au/node/apni/2901294	Dichelachne crinita	(L.f.) Hook.f.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Long-hair Plume-grass	8
https://id.biodiversity.org.au/node/apni/2904648	Acacia extensa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Wiry Wattle	8
https://id.biodiversity.org.au/node/apni/2904661	Cicendia filiformis	(L.) Delarbre	species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Slender Cicendia	8
https://id.biodiversity.org.au/node/apni/2904997	Juncus bufonius	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Toad Rush	8
https://id.biodiversity.org.au/node/apni/2905466	Daviesia longifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		8
https://id.biodiversity.org.au/node/apni/2906504	Convolvulus remotus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Grassy Bindweed	8
https://id.biodiversity.org.au/node/apni/2907634	Medicago polymorpha	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Spineless Burr Medic	8
https://id.biodiversity.org.au/node/apni/2908818	Vinca major	L.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Blue Periwinkle	8
https://id.biodiversity.org.au/node/apni/2910232	Galium divaricatum	Pourr. ex Lam.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Slender Bedstraw	8
https://id.biodiversity.org.au/node/apni/2910351	Verticordia insignis	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		8
https://id.biodiversity.org.au/node/apni/2910909	Genista linifolia	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flax-leaf Broom	8
https://id.biodiversity.org.au/node/apni/2911209	Stylidium guttatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Dotted Triggerplant	8
https://id.biodiversity.org.au/node/apni/2911400	Delonix regia	(Bojer ex Hook.) Raf.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Royal Poinciana	8
https://id.biodiversity.org.au/node/apni/2912573	Wurmbea pygmaea	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae		8
https://id.biodiversity.org.au/node/apni/2915025	Lobelia tenuior	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Slender Lobelia	8
https://id.biodiversity.org.au/node/apni/2915319	Cynodon dactylon	(L.) Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Couch	8
https://id.biodiversity.org.au/node/apni/2915837	Philydrella pygmaea	(R.Br.) Caruel	species	Plantae	Charophyta	Equisetopsida	Commelinales	Philydraceae	Lesser Butterfly Flowers	8
https://id.biodiversity.org.au/node/apni/2918865	Kickxia elatine	(L.) Dumort.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Pointed Toadflax	8
https://id.biodiversity.org.au/node/apni/2918887	Gompholobium preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		8
https://id.biodiversity.org.au/node/apni/2919505	Stylidium longitubum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Jumping Jacks	8
https://id.biodiversity.org.au/node/apni/2919853	Trithuria occidentalis	Benth.	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae	Swan Hydatella	8
https://id.biodiversity.org.au/node/apni/2919872	Trifolium arvense	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Haresfoot Clover	8
https://id.biodiversity.org.au/node/apni/2920041	Cenchrus purpureus	(Schumach.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Elephant Grass	8
https://id.biodiversity.org.au/node/apni/2920072	Dillwynia cinerascens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grey Parrot-pea	8
https://id.biodiversity.org.au/node/apni/2920777	Patersonia rudis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Hairy Flag	8
https://id.biodiversity.org.au/node/apni/7772838	Polypogon monspeliensis	(L.) Desf.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Beardgrass	8
https://id.biodiversity.org.au/node/fungi/60092201	Amanita carneiphylla	O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		8
https://id.biodiversity.org.au/taxon/apni/51268414	Cotula coronopifolia	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Water Buttons	8
https://id.biodiversity.org.au/taxon/apni/51271041	Callitris pyramidalis	(Miq.) J.E.Piggin & J.J.Bruhl	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Swamp Cypress	8
https://id.biodiversity.org.au/taxon/apni/51283612	Drosera minutiflora	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		8
https://id.biodiversity.org.au/taxon/apni/51293740	Leptocarpus coangustatus	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		8
https://id.biodiversity.org.au/taxon/apni/51293762	Leptocarpus decipiens	B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		8
https://id.biodiversity.org.au/taxon/apni/51293793	Leptocarpus scariosus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		8
https://id.biodiversity.org.au/taxon/apni/51294393	Stylidium neurophyllum	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Fan-leaved Triggerplant	8
https://id.biodiversity.org.au/taxon/apni/51399190	Caladenia marginata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Fairy Orchid	8
https://id.biodiversity.org.au/taxon/apni/51405036	Epiblema grandiflorum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Babe-in-a-cradle	8
https://id.biodiversity.org.au/taxon/apni/51406604	Microtis alba	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	White Mignonette Orchid	8

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51406650	Microtis unifolia	(G.Forst.) Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Onion Orchid	8
https://id.biodiversity.org.au/taxon/apni/51409809	Prasophyllum macrostachyum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Laughing Leek Orchid	8
https://id.biodiversity.org.au/taxon/apni/51442479	Amphipogon strictus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Greybeard Grass	8
https://id.biodiversity.org.au/taxon/apni/51445936	Cheilanthes sieberi	Kunze	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Rock Fern	8
NZOR-6-24030	Nitella tasmanica	(O.F. MÃ¼ll. ex. A. Braun) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae	Green Algae	7
https://biodiversity.org.au/afd/taxa/04254e40-ccf4-4d5f-97dc-3b1f088bc3cf	Euryglossina (Euryglossina) argocephala	Exley, 1968	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	7
https://biodiversity.org.au/afd/taxa/0dec2a4d-7cad-4792-845d-b614bb59d78c	Myrmecia mandibularis	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Toothless Bull Ant	7
https://biodiversity.org.au/afd/taxa/0e526884-3eb4-490c-9362-3eb8065ee0d4	Plutella xylostella	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Plutellidae	Diamondback Moth	7
https://biodiversity.org.au/afd/taxa/17854bf0-7a1b-4bae-8225-bbff39505e1f	Anopheles (Cellia) annulipes	Walker, 1856	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Spear Mosquito	7
https://biodiversity.org.au/afd/taxa/1ba5e738-915d-455e-baa6-c387b4772210	Hylaeus (Gnathoprosopis) euxanthus	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	7
https://biodiversity.org.au/afd/taxa/2843e4d8-931a-41f0-875e-f6756f44088f	Hydromys chrysogaster	Geoffroy, 1804	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	Water-rat	7
https://biodiversity.org.au/afd/taxa/2bc54184-b42a-4390-a12d-7ac7e3027e26	Astraeus (Depollus) aberrans	van de Poll, 1886	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/2c39748f-c769-40fb-8c3d-09b5cd192342	Camponotus marcens	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		7
https://biodiversity.org.au/afd/taxa/30fd2ca0-be49-4c29-ab62-3cac512e5878	Ptomaphila lacrymosa	(Schreibers, 1802)	species	Animalia	Arthropoda	Insecta	Coleoptera	Silphidae	Carrion Beetle	7
https://biodiversity.org.au/afd/taxa/33806661-a5ff-4795-9325-33e0a3113c86	Hemisaga albilinea	Rentz, 1993	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		7
https://biodiversity.org.au/afd/taxa/380590bb-467e-470e-9f2c-61832b68d178	Ctenotus australis	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Limestone Ctenotus	7
https://biodiversity.org.au/afd/taxa/39686d03-b65f-4f08-bc78-cfc49a109f4d	Synothele michaelseni	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		7
https://biodiversity.org.au/afd/taxa/39e12c5c-a623-4758-a329-f3ae642b6f1d	Mesodina cyanophracta	Lower, 1911	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Blue Iris-skipper	7
https://biodiversity.org.au/afd/taxa/3c570e2d-bf52-4051-abd3-5dde4d161af3	Diplodactylus polyophthalmus	GÃ¼nther, 1867	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Spotted Sandplain Gecko	7
https://biodiversity.org.au/afd/taxa/3cfe8657-b8aa-4f53-a035-d50db22dffca	Castiarina sagittaria	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/4f37aef6-0f7a-4e91-91ae-9193cd131126	Allothereua maculata	(Newport, 1844)	species	Animalia	Arthropoda	Chilopoda	Scutigeromorpha	Scutigeridae	Species Of House Centipede	7
https://biodiversity.org.au/afd/taxa/509d0e8e-bf58-4a27-995c-d854416c3b4a	Archiargiolestes pusillus	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Argiolestidae	Little Flatwing	7
https://biodiversity.org.au/afd/taxa/562a5c6b-51e8-457e-9b5d-c921af5e18ed	Tarsipes rostratus	Gervais & Verreaux, 1842	species	Animalia	Chordata	Mammalia	Diprotodontia	Tarsipedidae	Honey Possum	7
https://biodiversity.org.au/afd/taxa/5c9ab00e-2da3-49d9-9979-651b2bd4eba3	Pyralis farinalis	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Meal Moth	7
https://biodiversity.org.au/afd/taxa/5d485afe-3c96-4ca5-8dc1-ea67a309d1c1	Austalis copiosa	(Walker, 1852)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		7
https://biodiversity.org.au/afd/taxa/619b3e1b-71d9-4ce8-87bd-92d117a7de37	Artoriopsis joergi	Framenau, 2007	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		7
https://biodiversity.org.au/afd/taxa/628e3950-022e-4fe3-9264-40bdbc2bc649	Zaspilothynnus seductor	(Smith, 1868)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		7
https://biodiversity.org.au/afd/taxa/683021bb-2474-40ac-8ef1-8e0386c192b6	Solaenodolichopus pruvoti	(Brolemann, 1931)	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		7
https://biodiversity.org.au/afd/taxa/6ac56cf2-7d6f-4b21-ae1e-bb46df3dfc07	Neoseiulus harveyi	(McMurtry & Schicha, 1987)	species	Animalia	Arthropoda	Arachnida	Mesostigmata	Phytoseiidae		7
https://biodiversity.org.au/afd/taxa/6d838bb3-a576-49b1-9472-e27a03baa558	Nicodamus mainae	Harvey, 1995	species	Animalia	Arthropoda	Arachnida	Araneae	Nicodamidae		7
https://biodiversity.org.au/afd/taxa/70f3de70-ae21-4b63-9a9f-613b857f2c76	Earias huegeliana	Gaede, 1938	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae	Rough Bollworm Moth	7
https://biodiversity.org.au/afd/taxa/81b64c0a-2410-4bfd-9453-b706a8ae7617	Anilios pinguis	(Waite, 1897)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Rotund Blind Snake	7
https://biodiversity.org.au/afd/taxa/866ba3e1-f853-4643-a97c-3a3f0fe9cf22	Polistes (Polistella) humilis	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	Common Paper Wasp	7
https://biodiversity.org.au/afd/taxa/8dbdc531-8a12-40a1-a840-e53c696a2459	Diplodactylus vittatus	Gray, 1832	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Eastern Stone Gecko	7
https://biodiversity.org.au/afd/taxa/91b1b912-718d-4b8e-9e2c-55d2a92b239a	Leioproctus (Leioproctus) plumosus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	7
https://biodiversity.org.au/afd/taxa/9649ef88-bc30-4375-8b6b-49d72dfad9fb	Castiarina subtrifasciata	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/a44eab4d-28ba-4a53-b1ab-ab01a0a17802	Elapognathus coronatus	(Schlegel, 1837)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Western Crowned Snake	7
https://biodiversity.org.au/afd/taxa/b10fb29f-a476-4a23-a04c-52e296b1d380	Cypericoccus multipora	Williams, 1985	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		7
https://biodiversity.org.au/afd/taxa/b1d14cb6-d5d6-413b-b319-b36a00898140	Proteuxoa epiplecta	(GuenÃ©e, 1868)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae		7
https://biodiversity.org.au/afd/taxa/b9255d27-58e0-4a8b-9ac8-854c1ad1a741	Nephrotoma australasiae	(Skuse, 1890)	species	Animalia	Arthropoda	Insecta	Diptera	Tipulidae		7
https://biodiversity.org.au/afd/taxa/bc925520-c943-40c2-9a1d-3c5a8c8025f1	Amegilla (Asaropoda) preissi	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae		7
https://biodiversity.org.au/afd/taxa/bd136580-4ebe-4749-b652-3cfd934679a3	Hypsidia niphosema	(Lower, 1908)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Drepanidae		7
https://biodiversity.org.au/afd/taxa/bdb2074c-e572-4469-9607-0e11690edb56	Orthorhinus cylindrirostris	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Elephant Weevil	7
https://biodiversity.org.au/afd/taxa/c4842587-0b83-4d7b-9047-9fd2a6ecba23	Culex (Culex) quinquefasciatus	Say, 1823	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	House Mosquito	7
https://biodiversity.org.au/afd/taxa/ca2130d2-9965-4aed-8fb1-f378866346a3	Astraeus (Astraeus) oberthuri	van de Poll, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/d3b7d115-bd80-4ad4-ad8f-9c48e40450a7	Austrosynthemis cyanitincta	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Turquoise Tigertail	7

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/d82dd2e8-0573-430a-91ab-1efa31c5c7e9	Occiperipatoides gilesii	(Spencer, 1909)	species	Animalia	Onychophora			Peripatopsidae		7
https://biodiversity.org.au/afd/taxa/db8ea0ac-1e65-499e-9ef2-8fbbd3afaaf3	Chasmina pulchra	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	7
https://biodiversity.org.au/afd/taxa/de7d53cd-33a4-48f9-b38c-d792fd1f52ea	Melobasis gloriosa	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		7
https://biodiversity.org.au/afd/taxa/e29ab738-af2b-438a-80cf-675a37616ba9	Osphranter robustus	(Gould, 1841)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Common Wallaroo	7
https://biodiversity.org.au/afd/taxa/e32ef200-cc8d-4d71-88e2-521ac0d38af9	Socca senicaudata	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		7
https://biodiversity.org.au/afd/taxa/eba9ef04-13e3-4a67-b359-fd21f1b146bf	Phryganoporus candidus	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae	Spider	7
https://biodiversity.org.au/afd/taxa/f3ed7df3-cb3f-48c5-841c-d5dc556e5db6	Vespula germanica	(Fabricius, 1793)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae	European Wasp	7
https://biodiversity.org.au/afd/taxa/f40752b0-a14a-42ce-bc47-ec207cb0b4bd	Melopsittacus undulatus	(Shaw, 1805)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Budgerigar	7
https://biodiversity.org.au/afd/taxa/f93f120b-129e-4f7d-888a-8a762bbff73e	Mantis octospilota	Westwood, 1889	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Blackbarred Mantid	7
https://id.biodiversity.org.au/node/apni/2886594	Hibbertia nymphaea	Diels	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		7
https://id.biodiversity.org.au/node/apni/2886637	Podotheca chrysantha	(Steetz) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Yellow Podotheca	7
https://id.biodiversity.org.au/node/apni/2886962	Atriplex prostrata	Boucher ex DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Hastate Orache	7
https://id.biodiversity.org.au/node/apni/2887401	Astartea fascicularis	(Labill.) DC.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Recherche Astartea	7
https://id.biodiversity.org.au/node/apni/2888864	Paspalum dilatatum	Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Paspalum	7
https://id.biodiversity.org.au/node/apni/2889404	Leptomeria cunninghamii	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae		7
https://id.biodiversity.org.au/node/apni/2889646	Crassula decumbens	Thunb.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Rufous Stonecrop	7
https://id.biodiversity.org.au/node/apni/2890095	Lepidosperma asperatum	(KÃ¼k.) R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		7
https://id.biodiversity.org.au/node/apni/2891153	Digitaria sanguinalis	(L.) Scop.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Summer Grass	7
https://id.biodiversity.org.au/node/apni/2892118	Ipomoea muelleri	Benth.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Poison Morning-glory	7
https://id.biodiversity.org.au/node/apni/2892964	Drosera pycnoblasta	Diels	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pearly Sundew	7
https://id.biodiversity.org.au/node/apni/2894949	Cyperus tenuiflorus	Rottb.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Scaly Sedge	7
https://id.biodiversity.org.au/node/apni/2895152	Tribonanthes australis	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Southern Tiurndin	7
https://id.biodiversity.org.au/node/apni/2896226	Oxalis purpurea	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	One-o'clock	7
https://id.biodiversity.org.au/node/apni/2896476	Homalospermum firmum	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		7
https://id.biodiversity.org.au/node/apni/2896561	Gastrolobium reticulatum	(Meisn.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		7
https://id.biodiversity.org.au/node/apni/2897034	Laxmannia grandiflora	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		7
https://id.biodiversity.org.au/node/apni/2897333	Spergula arvensis	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Corn Spurrey	7
https://id.biodiversity.org.au/node/apni/2897438	Schoenus pennisetis	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		7
https://id.biodiversity.org.au/node/apni/2898862	Calandrinia corrigioloides	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Strap Purslane	7
https://id.biodiversity.org.au/node/apni/2899088	Cassytha flava	Nees	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	7
https://id.biodiversity.org.au/node/apni/2900324	Juncus microcephalus	Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Tiny-headed Rush	7
https://id.biodiversity.org.au/node/apni/2900605	Erigeron karvinskianus	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bony-tip Fleabane	7
https://id.biodiversity.org.au/node/apni/2900966	Dittrichia graveolens	(L.) Greuter	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Stinkwort	7
https://id.biodiversity.org.au/node/apni/2902563	Thysanotus scaber	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		7
https://id.biodiversity.org.au/node/apni/2902847	Stylidium lineatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Sunny Triggerplant	7
https://id.biodiversity.org.au/node/apni/2904253	Monotaxis occidentalis	Endl.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae		7
https://id.biodiversity.org.au/node/apni/2904675	Vellereophyton dealbatum	(Thunb.) Hilliard & B.L.Burtt	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	White Cudweed	7
https://id.biodiversity.org.au/node/apni/2904959	Ficus carica	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Moraceae	Edible Fig	7
https://id.biodiversity.org.au/node/apni/2908467	Patersonia umbrosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Yellow Flags	7
https://id.biodiversity.org.au/node/apni/2908807	Mirbelia ramulosa	(Benth. ex Lindl.) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Mirbelia	7
https://id.biodiversity.org.au/node/apni/2909154	Hydrocotyle lemnoides	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Aquatic Pennywort	7
https://id.biodiversity.org.au/node/apni/2910304	Melaleuca viminea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Mohan	7
https://id.biodiversity.org.au/node/apni/2911349	Brachyscome bellidioides	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		7
https://id.biodiversity.org.au/node/apni/2912636	Opercularia hispidula	Endl.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae	Hispid Stinkweed	7
https://id.biodiversity.org.au/node/apni/2913099	Schoenus bifidus	(Nees) Boeckeler	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		7
https://id.biodiversity.org.au/node/apni/2913142	Leucopogon glaucifolius	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		7
https://id.biodiversity.org.au/node/apni/2913186	Leptomeria empetriformis	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae		7
https://id.biodiversity.org.au/node/apni/2913332	Andersonia gracilis	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Slender Andersonia	7
https://id.biodiversity.org.au/node/apni/2914196	Tetraria capillaris	(F.Muell.) J.M.Black	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Hair Sedge	7
https://id.biodiversity.org.au/node/apni/2915188	Platytheca galioides	Steetz	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		7
https://id.biodiversity.org.au/node/apni/2915226	Monopsis debilis	(L.f.) C.Presl	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Pansy Lobelia	7
https://id.biodiversity.org.au/node/apni/2915326	Patersonia babianoides	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		7
https://id.biodiversity.org.au/node/apni/2915396	Stylidium obtusatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pinafore Triggerplant	7
https://id.biodiversity.org.au/node/apni/2915781	Astroloma macrocalyx	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Swan Berry	7
https://id.biodiversity.org.au/node/apni/2916722	Brachychiton acerifolius	(A.Cunn. ex G.Don) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Illawarra Flame Tree	7
https://id.biodiversity.org.au/node/apni/2917706	Oxalis incarnata	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Pale Wood-sorrel	7
https://id.biodiversity.org.au/node/apni/2918630	Lavandula stoechas	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Italian Lavender	7
https://id.biodiversity.org.au/node/apni/2919576	Sphaerolobium macranthum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		7
https://id.biodiversity.org.au/node/apni/2919924	Gastrolobium linearifolium	G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		7

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2920306	Cyperus polystachyos	Rottb.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Bunchy Flat-sedge	7
https://id.biodiversity.org.au/node/apni/2920619	Cartonema philydroides	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Commelinaceae		7
https://id.biodiversity.org.au/node/apni/4092442	Gomphocarpus fruticosus	(L.) W.T.Aiton	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Narrow-leaved Cotton Bush	7
https://id.biodiversity.org.au/node/apni/7766887	Eragrostis elongata	(Willd.) J.Jacq.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lovegrass	7
https://id.biodiversity.org.au/node/apni/7808071	Portulaca oleracea	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Munyeroo	7
https://id.biodiversity.org.au/node/apni/7989386	Stylidium pulchellum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Thumbelina Triggerplant	7
https://id.biodiversity.org.au/node/ausmoss/10113042	Sematophyllum homomallum	(Hampe) Broth.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Sematophyllaceae	Bronze Signal-moss	7
https://id.biodiversity.org.au/node/ausmoss/2899866	Lunularia cruciata	(L.) Dumort.	species	Plantae	Marchantiophyta	Marchantiopsida	Lunulariales	Lunulariaceae	Crescent Moonwort	7
https://id.biodiversity.org.au/node/ausmoss/2920390	Lethocolea pansa	(Taylor) G.A.M.Scott & K.G.Beckm.	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Acrobolbaceae	Common Pouchwort	7
https://id.biodiversity.org.au/node/fungi/60091623	Chlorophyllum molybdites	(G.Mey.) Massee	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Green-gilled Parasol	7
https://id.biodiversity.org.au/node/fungi/60096339	Boletellus obscurecoccineus	(HÃ¶hn.) Singer	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		7
https://id.biodiversity.org.au/node/lichen/30089049	Xanthoparmelia nana	(Kurok.) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		7
https://id.biodiversity.org.au/taxon/apni/51269199	Pandorea pandorana	(Andrews) Steenis	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Wonga Vine	7
https://id.biodiversity.org.au/taxon/apni/51283097	Cyperus congestus	Vahl	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Dense Flat-sedge	7
https://id.biodiversity.org.au/taxon/apni/51283515	Drosera microphylla	Endl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Golden Rainbow	7
https://id.biodiversity.org.au/taxon/apni/51288192	Orianthera campanulata	(R.Br.) C.S.P.Foster & B.J.Conn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		7
https://id.biodiversity.org.au/taxon/apni/51290657	Pterostylis crebriflora	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Darling Range Banded Greenhood	7
https://id.biodiversity.org.au/taxon/apni/51399078	Caladenia hirta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Sugar Candy Orchid	7
https://id.biodiversity.org.au/taxon/apni/51401354	Cyrtostylis tenuissima	(Nicholls & Goadby) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Gnat Orchid	7
https://id.biodiversity.org.au/taxon/apni/51404177	Diuris brevis	D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Short-nosed Donkey Orchid	7
https://id.biodiversity.org.au/taxon/apni/51405086	Eriochilus helonomos	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Bunny Orchid	7
https://id.biodiversity.org.au/taxon/apni/51414280	Thelymitra flexuosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Twisted Sun-orchid	7
https://id.biodiversity.org.au/taxon/apni/51433732	Hypericum gramineum	G.Forst.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Hypericaceae	Small St John's Wort	7
https://id.biodiversity.org.au/taxon/apni/51436351	Trifolium dubium	Sibth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Suckling Clover	7
https://id.biodiversity.org.au/taxon/apni/51440290	Melaleuca incana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Grey Honeymyrtle	7
https://id.biodiversity.org.au/taxon/apni/51613009	Salicornia quinqueflora	Bunge ex Ung.-Sternb.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Beaded Glasswort	7
NZOR-6-103292	Chara fibrosa	(Agardh ex Bruzelius) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae	Green Algae	6
https://biodiversity.org.au/afd/taxa/00067a34-0239-42f0-9335-aed46533933f	Gasteruption breviscutum	Kieffer, 1911	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		6
https://biodiversity.org.au/afd/taxa/00947c3c-6fd2-4fed-9af1-2d8c95438847	Alcaeus varicornis	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Acacia Shield Bug	6
https://biodiversity.org.au/afd/taxa/04cab999-1a92-4479-8bdb-02e93d361f1b	Tiracerus foveicollis	(Raffray, 1887)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		6
https://biodiversity.org.au/afd/taxa/098a51d0-a9d2-4adf-a2c7-cce5db7b0628	Megachile (Hackeriapis) canifrons	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	6
https://biodiversity.org.au/afd/taxa/0c577e55-63a3-4180-b8c8-ca28b5dba656	Simplisetia aequisetis	(Augener, 1913)	species	Animalia	Annelida	Polychaeta		Nereididae	Squirt Worm	6
https://biodiversity.org.au/afd/taxa/10ad88a5-e029-4534-bd40-2c1ba1b18e73	Brunotartessus fulvus	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	6
https://biodiversity.org.au/afd/taxa/12e5f0eb-d91a-4f17-b8d5-ebc4c81ea782	Echthromorpha intricatoria	(Fabricius, 1804)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae	Cream Spotted Ichneumon Wasp	6
https://biodiversity.org.au/afd/taxa/14833a25-6e9d-4651-bbf3-2163de7e1252	Geopelia cuneata	(Latham, 1801)	species	Animalia	Chordata	Aves	Columbiformes	Columbidae	Diamond Dove	6
https://biodiversity.org.au/afd/taxa/149f9a28-8b82-431e-8732-c025785c01b3	Nymphes nigrescens	New, 1982	species	Animalia	Arthropoda	Insecta	Neuroptera	Nymphidae		6
https://biodiversity.org.au/afd/taxa/16181dc4-61c5-40a0-bd98-b9854b457efb	Acantholophus amycteroides	Macleay, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		6
https://biodiversity.org.au/afd/taxa/1ac5f37c-285d-486a-9cae-918971f46bdd	Exometoeca nycteris	Meyrick, 1888	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Western Flat	6
https://biodiversity.org.au/afd/taxa/1dfa06ee-4576-4a78-a9d9-8578cc16be34	Doratifera oxleyi	(Newman, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Limacodidae	Painted Cup Moth	6
https://biodiversity.org.au/afd/taxa/246ede86-5d70-4efb-9498-4ebe75ccf492	Taeniopygia guttata	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Passeriformes	Estrildidae	Zebra Finch	6
https://biodiversity.org.au/afd/taxa/253b8bdb-1402-4b7b-b245-4af68eeb7b1e	Camponotus chalceus	Crawley, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		6
https://biodiversity.org.au/afd/taxa/25a12b6a-80ba-4e31-9b50-32a374d1c3b0	Geophagus brasiliensis	(Quoy & Gaimard, 1824)	species	Animalia	Chordata	Actinopterygii	Perciformes	Cichlidae	Pearl Cichlid	6
https://biodiversity.org.au/afd/taxa/28d1be6e-54ef-4412-877d-15c56a3c23e4	Gasteruption mirabilifemorale	Pasteels, 1957	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		6
https://biodiversity.org.au/afd/taxa/2dda01d5-f69c-4a24-8fbc-214839a208a1	Trichocolletes erythrurus	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		6
https://biodiversity.org.au/afd/taxa/336bc500-a1b8-41a2-b554-d5b5bf1ba8f7	Neolucia agricola	(Westwood, 1851)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Fringed Heath-blue	6
https://biodiversity.org.au/afd/taxa/378e853b-577c-42f7-8fb7-f2951382f0c9	Limnoxenus zealandicus	(Broun, 1880)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	6
https://biodiversity.org.au/afd/taxa/38000ff7-7b9a-4561-aa4d-b3613d3865cb	Euryglossina (Euryglossina) hypochroma	Cockerell, 1916	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	6

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/3ab45dde-28a2-4e24-8a91-8577052a0933	Onthophagus ferox	Harold, 1867	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Western Dung Beetle	6
https://biodiversity.org.au/afd/taxa/3eb72e21-eeb5-4ef2-806b-f27e42e990e1	Paropsisterna cloelia	(StÃ¥l, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		6
https://biodiversity.org.au/afd/taxa/445201d1-241f-41da-acd8-8b64cae3a329	Tasmanicosa godeffroyi	(L. Koch, 1865)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Garden Wolf Spider	6
https://biodiversity.org.au/afd/taxa/48bd256d-536d-4ca8-96eb-950f17e80184	Rhipidura (Rhipidura) fuliginosa	(Sparrman, 1787)	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	New Zealand Fantail	6
https://biodiversity.org.au/afd/taxa/5147c83e-1c90-4690-9ccb-be428f73274f	Tumulitermes westraliensis	(Hill, 1921)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		6
https://biodiversity.org.au/afd/taxa/5815e99d-01cd-4a92-99ba-36f480c4834d	Lophochroa leadbeateri	(Vigors, 1831)	species	Animalia	Chordata	Aves	Psittaciformes	Cacatuidae	Major Mitchell's Cockatoo	6
https://biodiversity.org.au/afd/taxa/598ca9b8-5d59-48e2-9cd6-b0f43c5b61c5	Anilios waitii	(Boulenger, 1895)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Beaked Blind Snake	6
https://biodiversity.org.au/afd/taxa/5a255809-f1a5-420f-9cd3-98bc5b2a3f5f	Euzosteria femoralis	(Walker, 1868)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		6
https://biodiversity.org.au/afd/taxa/5e0f496f-5045-41ff-8c03-f3c8fd4f8ccd	Platycercus (Platycercus) elegans	(Gmelin, 1788)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Crimson Rosella	6
https://biodiversity.org.au/afd/taxa/5f44995b-559b-4dea-a30d-e3f2adf17f8c	Chlidonias (Pelodes) hybrida	(Pallas, 1811)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Whiskered Tern	6
https://biodiversity.org.au/afd/taxa/60998480-21c4-4ca0-aa5d-de272080c1c3	Ostorhinchus rueppellii	(GÃ¼nther, 1859)	species	Animalia	Chordata	Actinopterygii	Perciformes	Apogonidae	Western Gobbleguts	6
https://biodiversity.org.au/afd/taxa/6388c877-2bde-4fd9-8fb0-067ae333e79b	Nacoleia rhoeoalis	(Walker, 1859)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	6
https://biodiversity.org.au/afd/taxa/6452a494-1f1d-4db6-ac5e-70b392c67103	Favonigobius punctatus	(Gill & Miller, 1990)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Yellowspotted Sandgoby	6
https://biodiversity.org.au/afd/taxa/6540db4d-6ad2-4d02-a1a3-0ce812f68bca	Chauliognathus tricolor	(Castelnau, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cantharidae		6
https://biodiversity.org.au/afd/taxa/66950a6c-6f03-4cf5-bf33-01cee054408c	Milax gagates	(Draparnaud, 1801)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Milacidae	Jet Slug	6
https://biodiversity.org.au/afd/taxa/6c23af65-32c9-42b1-8188-ce042047aced	Phalloceros caudimaculatus	(Hensel, 1868)	species	Animalia	Chordata	Actinopterygii	Cyprinodontiformes	Poeciliidae	Speckled Mosquitofish	6
https://biodiversity.org.au/afd/taxa/7232c4a5-5a51-4e29-b96f-eeaea1760b51	Castiarina phaeopus	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		6
https://biodiversity.org.au/afd/taxa/7686818e-9819-4589-ae27-851e1ba4eae0	Anachloris tofocolorata	Schmidt, 2001	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	6
https://biodiversity.org.au/afd/taxa/7be588ab-4891-4dc6-8a27-119ccfaba789	Rentinus dilatatus	(Westwood, 1838)	species	Animalia	Arthropoda	Insecta	Hemiptera	Fulgoridae	Planthopper	6
https://biodiversity.org.au/afd/taxa/82f9ae34-036a-4293-aaaf-cf47376b95a4	Archimantis latistyla	(Serville, 1838)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		6
https://biodiversity.org.au/afd/taxa/84207c1f-ef83-472c-a3b7-d72f0438c4e5	Pyropsalta amnica	Moulds & Marshall, 2022	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		6
https://biodiversity.org.au/afd/taxa/84ac1e81-c3f6-43b7-b549-b1c406893280	Australothis rubrescens	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	6
https://biodiversity.org.au/afd/taxa/8698c1d0-2079-477f-832a-0771c8df7cad	Acanthagenys rufogularis	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Spiny-cheeked Honeyeater	6
https://biodiversity.org.au/afd/taxa/879e81d3-a4e8-452c-a2b0-2cdfa1e7dd49	Spilostethus pacificus	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Hemiptera	Lygaeidae	Bug	6
https://biodiversity.org.au/afd/taxa/8f8d2b19-d839-43eb-a84f-bc5836f9de70	Karaops ellenae	Crews & Harvey, 2011	species	Animalia	Arthropoda	Arachnida	Araneae	Selenopidae		6
https://biodiversity.org.au/afd/taxa/96caf85e-123d-476a-ad55-9291f6cc5985	Catasarcus hopei	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		6
https://biodiversity.org.au/afd/taxa/99460294-9d26-4ed4-8032-a120e314b53f	Phlyctinus callosus	(Schoenherr, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Garden Weevil	6
https://biodiversity.org.au/afd/taxa/9c31e938-3029-4764-9163-725f47fdd00a	Zasphinctus imbecilis	(Forel, 1907)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		6
https://biodiversity.org.au/afd/taxa/9fabb63e-192a-45a4-8c1f-7ad41597e960	Iridomyrmex suchieri	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	6
https://biodiversity.org.au/afd/taxa/9feb7e18-7f75-4a08-bc1b-6bc2120b6e32	Sternopriscus browni	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	6
https://biodiversity.org.au/afd/taxa/a38e9409-f7a7-4ca8-bcf7-300e759fb9cc	Missulena hoggi	Womersley, 1943	species	Animalia	Arthropoda	Arachnida	Araneae	Actinopodidae		6
https://biodiversity.org.au/afd/taxa/a3e4c2f2-360b-4685-801a-da4073ac45f9	Lasioglossum (Chilalictus) supralucens	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		6
https://biodiversity.org.au/afd/taxa/aaef2128-4dba-4619-86ef-8ba5ed6f1559	Cercophonius sulcatus	Kraepelin, 1908	species	Animalia	Arthropoda	Arachnida	Scorpiones	Bothriuridae		6
https://biodiversity.org.au/afd/taxa/adf11871-c02e-4864-83ae-393d528614b7	Nesoptilotis leucotis	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-eared Honeyeater	6
https://biodiversity.org.au/afd/taxa/ae27a30b-e5c5-4399-aba4-1ded9f037c58	Myandra bicincta	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Prodidomidae	Long-spinneret Ground Spider	6
https://biodiversity.org.au/afd/taxa/affdbb83-357b-4b56-8899-eba55333f2ea	Araneus talipedatus	(Keyserling, 1887)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	6
https://biodiversity.org.au/afd/taxa/b2d8f15f-9dc2-4caf-aaaa-06ecaf31a242	Afurcagobius suppositus	(Sauvage, 1880)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Southwestern Goby	6
https://biodiversity.org.au/afd/taxa/c1d86cba-7f06-4639-b524-7f7c0818c4e6	Paralastor ignotus	Perkins, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		6
https://biodiversity.org.au/afd/taxa/c70d0758-9a34-438e-b910-c1f319538d8a	Thrips imaginis	Bagnall, 1926	species	Animalia	Arthropoda	Insecta	Thysanoptera	Thripidae	Plague Thrips	6
https://biodiversity.org.au/afd/taxa/caf3685c-fbeb-41b9-b832-dcf48802875f	Ctenotus ora	Kay & Keogh, 2012	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Coastal Plains Skink	6
https://biodiversity.org.au/afd/taxa/d4682c56-5ca7-4dc0-b057-f973112d859a	Ecnomus pansus	Neboiss, 1982	species	Animalia	Arthropoda	Insecta	Trichoptera	Ecnomidae	Caddisfly	6
https://biodiversity.org.au/afd/taxa/d560c2ba-faff-4973-a2d1-f4dbcf06bbf0	Clogmia albipunctata	(Williston, 1893)	species	Animalia	Arthropoda	Insecta	Diptera	Psychodidae	Moth Fly	6
https://biodiversity.org.au/afd/taxa/d8d2f323-d106-4c6d-abc3-6cd608ff3771	Acroaspis olorina	Karsch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		6
https://biodiversity.org.au/afd/taxa/d9d5caed-f028-4a4c-97cb-c686690ea582	Agrius convolvuli	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Convolvulus Hawk Moth	6
https://biodiversity.org.au/afd/taxa/e73171f0-298e-416c-a892-cfe479ea2762	Leioproctus (Exleycolletes) microdontus	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		6
https://biodiversity.org.au/afd/taxa/e9726b26-7bdb-4a63-9a92-3aa9166b3f28	Synalus angustus	(L. Koch, 1876)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	6
https://biodiversity.org.au/afd/taxa/e9b8abc4-1198-4c3f-bf21-fd1aa411305f	Taractrocera papyria	(Boisduval, 1832)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	White-banded Grass-dart	6
https://biodiversity.org.au/afd/taxa/ef38683f-5276-4c12-9061-5e86a8c77880	Hemidactylus frenatus	DumÃ©ril & Bibron, 1836	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	House Gecko	6

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/f0dd2cc5-3d75-4810-9bd2-4bf32765c700	Uroctena westralis	(Chilton, 1925)	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Paramelitidae	Amphipod	6
https://biodiversity.org.au/afd/taxa/f5902d4c-02e6-4ffb-b26b-9830c892bac9	Leioproctus (Urocolletes) rhodurus	Michener, 1965	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		6
https://id.biodiversity.org.au/name/apni/51306673	Hibbertia semipilosa	K.R.Thiele	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		6
https://id.biodiversity.org.au/node/apni/2886123	Lomandra suaveolens	(Endl.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		6
https://id.biodiversity.org.au/node/apni/2886127	Lotus angustissimus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Slender Bird's-foot Trefoil	6
https://id.biodiversity.org.au/node/apni/2886948	Gladiolus undulatus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Wild Gladiolus	6
https://id.biodiversity.org.au/node/apni/2887445	Pimelea sulphurea	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Yellow Banjine	6
https://id.biodiversity.org.au/node/apni/2887606	Nicotiana glauca	Graham	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Tree Tobacco	6
https://id.biodiversity.org.au/node/apni/2887708	Austrostipa variabilis	(Hughes) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		6
https://id.biodiversity.org.au/node/apni/2888285	Eriachne ovata	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Swamp Wanderrie	6
https://id.biodiversity.org.au/node/apni/2889469	Tecticornia halocnemoides	(Nees) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Red Glasswort	6
https://id.biodiversity.org.au/node/apni/2889691	Schoenus capillifolius	D.A.Cooke	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		6
https://id.biodiversity.org.au/node/apni/2889833	Eucalyptus macrocarpa	Hook.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Blue Bush	6
https://id.biodiversity.org.au/node/apni/2889836	Thysanotus anceps	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		6
https://id.biodiversity.org.au/node/apni/2891057	Cytogonidium leptocarpoides	(Benth.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		6
https://id.biodiversity.org.au/node/apni/2893343	Allocasuarina huegeliana	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Rock Sheoak	6
https://id.biodiversity.org.au/node/apni/2893482	Utricularia inaequalis	A.DC.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae		6
https://id.biodiversity.org.au/node/apni/2894269	Oxalis perennans	Haw.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Native Sorrel	6
https://id.biodiversity.org.au/node/apni/2895312	Drosera zonaria	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Painted Sundew	6
https://id.biodiversity.org.au/node/apni/2896030	Hakea laurina	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Pincushion Hakea	6
https://id.biodiversity.org.au/node/apni/2897215	Conostylis bracteata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		6
https://id.biodiversity.org.au/node/apni/2897537	Gastridium phleoides	(Nees & Meyen) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Nit-grass	6
https://id.biodiversity.org.au/node/apni/2898045	Banksia pteridifolia	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		6
https://id.biodiversity.org.au/node/apni/2898610	Stylidium lateriticola	Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		6
https://id.biodiversity.org.au/node/apni/2899072	Rytidosperma acerosum	(Vickery) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		6
https://id.biodiversity.org.au/node/apni/2901018	Baeometra uniflora	(Jacq.) G.J.Lewis	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Baeometra	6
https://id.biodiversity.org.au/node/apni/2902607	Liparophyllum capitatum	(Nees ex Lehm.) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		6
https://id.biodiversity.org.au/node/apni/2903335	Drosera pulchella	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Pretty Sundew	6
https://id.biodiversity.org.au/node/apni/2903833	Schoenus sculptus	(Nees) Boeckeler	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Gimlet Bog-rush	6
https://id.biodiversity.org.au/node/apni/2904003	Bossiaea concinna	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		6
https://id.biodiversity.org.au/node/apni/2904465	Corynotheca micrantha	(Lindl.) Druce	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Sand Lily	6
https://id.biodiversity.org.au/node/apni/2904956	Eleusine indica	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Crowsfoot Grass	6
https://id.biodiversity.org.au/node/apni/2905345	Banksia prionotes	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Acorn Banksia	6
https://id.biodiversity.org.au/node/apni/2905578	Halgania corymbosa	Lindl.	species	Plantae	Charophyta	Equisetopsida		Boraginaceae		6
https://id.biodiversity.org.au/node/apni/2905672	Ferraria crispa	Burm.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Black Flag	6
https://id.biodiversity.org.au/node/apni/2905984	Utricularia violacea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Violet Bladderwort	6
https://id.biodiversity.org.au/node/apni/2906381	Ipomoea batatas	(L.) Lam.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Sweet Potato	6
https://id.biodiversity.org.au/node/apni/2906496	Chorizandra enodis	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Black Bristle-sedge	6
https://id.biodiversity.org.au/node/apni/2908047	Hypolaena pubescens	(R.Br.) Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		6
https://id.biodiversity.org.au/node/apni/2908333	Pelargonium capitatum	(L.) L'HÃ©r.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Rose-scented Pelargonium	6
https://id.biodiversity.org.au/node/apni/2910010	Bacopa monnieri	(L.) Wettst.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Water Hyssop	6
https://id.biodiversity.org.au/node/apni/2910308	Ornduffia submersa	(Aston) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		6
https://id.biodiversity.org.au/node/apni/2910424	Bossiaea aquifolium	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Water Bush	6
https://id.biodiversity.org.au/node/apni/2910515	Stenotaphrum secundatum	(Walter) Kuntze	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Buffalo Grass	6
https://id.biodiversity.org.au/node/apni/2911719	Gratiola pubescens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Glandular Brooklime	6
https://id.biodiversity.org.au/node/apni/2912118	Thysanotus arenarius	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Sand-dune Fringed Lily	6
https://id.biodiversity.org.au/node/apni/2913921	Amaryllis belladonna	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Amaryllidaceae	Belladonna Lily	6
https://id.biodiversity.org.au/node/apni/2914378	Cyathochaeta teretifolia	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		6
https://id.biodiversity.org.au/node/apni/2914460	Stenanthemum humile	Benth.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		6
https://id.biodiversity.org.au/node/apni/2914552	Hensmania turbinata	(Endl.) W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae		6
https://id.biodiversity.org.au/node/apni/2916204	Hibbertia montana	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		6

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https://id.biodiversity.org.au/node/apni/2916443	Selaginella gracillima	(Kunze) Spring ex Salomon	species	Plantae	Charophyta	Equisetopsida	Selaginellales	Selaginellaceae	Tiny Clubmoss	6
https://id.biodiversity.org.au/node/apni/2916725	Tribolium uniolae	(L.f.) Renvoize	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Secund Desmazeria	6
https://id.biodiversity.org.au/node/apni/2916956	Microlaena stipoides	(Labill.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Weeping Grass	6
https://id.biodiversity.org.au/node/apni/2917465	Haemodorum paniculatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Mardja	6
https://id.biodiversity.org.au/node/apni/2917990	Haemodorum brevisepalum	Benth.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		6
https://id.biodiversity.org.au/node/apni/2918603	Callitriche stagnalis	Scop.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Common Water-starwort	6
https://id.biodiversity.org.au/node/apni/2920769	Watsonia borbonica	(Pourr.) Goldblatt	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Rosy Watsonia	6
https://id.biodiversity.org.au/node/apni/7079512	Symphyotrichum squamatum	(Spreng.) G.L.Nesom	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bushy Starwort	6
https://id.biodiversity.org.au/node/apni/7080900	Symphyotrichum subulatum	(Michx.) G.L.Nesom	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Wild Aster	6
https://id.biodiversity.org.au/node/apni/7120186	Lepidosperma apricola	R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		6
https://id.biodiversity.org.au/node/apni/7746707	Bromus hordeaceus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Soft Brome	6
https://id.biodiversity.org.au/node/apni/7984728	Stylidium despectum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Hundreds And Thousands	6
https://id.biodiversity.org.au/node/apni/8507720	Dillwynia retorta	(J.C.Wendl.) Druce	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		6
https://id.biodiversity.org.au/node/ausmoss/10110349	Rosulabryum billarderii	(SchwÃ¤gr.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Common Thread-moss	6
https://id.biodiversity.org.au/node/ausmoss/2890300	Fossombronia cultriformis	G.A.M.Scott & D.C.Pike	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Frillwort	6
https://id.biodiversity.org.au/node/fungi/60113293	Phyllachora grevilleae	(LÃ©v.) Sacc.	species	Fungi	Ascomycota	Sordariomycetes	Phyllachorales	Phyllachoraceae		6
https://id.biodiversity.org.au/taxon/apni/51283232	Calectasia grandiflora	L.Preiss	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Blue Tinsel Lily	6
https://id.biodiversity.org.au/taxon/apni/51289066	Calothamnus hirsutus	Hawkeswood	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		6
https://id.biodiversity.org.au/taxon/apni/51291672	Persicaria decipiens	(R.Br.) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Slender Knotweed	6
https://id.biodiversity.org.au/taxon/apni/51300125	Gastrolobium epacridoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		6
https://id.biodiversity.org.au/taxon/apni/51300296	Lythrum hyssopifolia	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Lythraceae	Lesser Loosestrife	6
https://id.biodiversity.org.au/taxon/apni/51311636	Boronia crenulata	Sm.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Aniseed Boronia	6
https://id.biodiversity.org.au/taxon/apni/51399004	Caladenia filamentosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Daddy Long-legs	6
https://id.biodiversity.org.au/taxon/apni/51399251	Caladenia pectinata	R.S.Rogers	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	King Spider Orchid	6
https://id.biodiversity.org.au/taxon/apni/51404307	Diuris porrifolia	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Rosy-cheeked Donkey Orchid	6
https://id.biodiversity.org.au/taxon/apni/51404321	Diuris purdiei	Diels	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Purdie's Donkey Orchid	6
https://id.biodiversity.org.au/taxon/apni/51406465	Leptoceras menziesii	(R.Br.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Hare Orchid	6
https://id.biodiversity.org.au/taxon/apni/51429001	Melaleuca nesophila	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Showy Honey Myrtle	6
https://id.biodiversity.org.au/taxon/apni/51434660	Machaerina rubiginosa	(Spreng.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Baumea	6
https://id.biodiversity.org.au/taxon/apni/51436646	Acacia pycnantha	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Golden Wattle	6
https://id.biodiversity.org.au/taxon/apni/51445154	Pontederia crassipes	Mart.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Pontederiaceae	Water Hyacinth	6
https://id.biodiversity.org.au/taxon/apni/51447742	Solanum americanum	Mill.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Solanum	6
https://id.biodiversity.org.au/taxon/apni/51744686	Lagenophora platysperma	Jian Wang ter & A.R.Bean	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		6
NZOR-6-115963	Chara australis	R.Br.	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae		5
https://biodiversity.org.au/afd/taxa/00f30921-852f-4f4a-91d1-b85959785c80	Maroga melanostigma	(Wallengren, 1861)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Fruit Stem Borer Moth	5
https://biodiversity.org.au/afd/taxa/03282ece-e33d-4147-a841-dd9f0896e319	Sidymella trapezia	(L. Koch, 1874)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Trapezium Crab Spider	5
https://biodiversity.org.au/afd/taxa/05349d8f-bf20-4914-b43b-d6a4fa132008	Plebs eburnus	(Keyserling, 1886)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Bush Orb-weaver Spider	5
https://biodiversity.org.au/afd/taxa/092991a6-b6b2-4602-a6d6-a410fa13a9fd	Arniscus humeralis	(Dallas, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		5
https://biodiversity.org.au/afd/taxa/092b9246-16a8-461b-ac39-4363bebc9ce9	Hypertropha chlaenota	Meyrick, 1887	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hypertrophidae	Moth	5
https://biodiversity.org.au/afd/taxa/09d59f0a-e8fe-465c-9db3-13efc6a8e31c	Numenius (Phaeopus) phaeopus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Whimbrel	5
https://biodiversity.org.au/afd/taxa/0a42c6d5-1234-4fd8-bc53-8b70d17729c9	Mnesampela privata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Autumn Gum Moth	5
https://biodiversity.org.au/afd/taxa/0b9f8deb-6503-48e0-b952-383fcb924ce6	Laccotrephes (Laccotrephes) tristis	(StÃ¥l, 1854)	species	Animalia	Arthropoda	Insecta	Hemiptera	Nepidae	Water Scorpion	5
https://biodiversity.org.au/afd/taxa/0cb3491d-03fe-431e-bd4a-9f6447b4d644	Epicyme rubropunctaria	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	5
https://biodiversity.org.au/afd/taxa/114e0ff1-c98a-4c05-9a6b-8a3aa15a95a5	Epicoccus acaciae	(Maskell, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		5
https://biodiversity.org.au/afd/taxa/13c0e45c-84fa-4a64-a138-e163fc3ee7af	Cormocephalus turneri	Pocock, 1901	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		5
https://biodiversity.org.au/afd/taxa/17ce98f0-73f8-4fdd-89ca-b04992162b77	Campion rubellus	NavÃ¡s, 1914	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		5
https://biodiversity.org.au/afd/taxa/1f4cf48a-ad72-4f16-99bf-2ea2ee1b8f7a	Myrmecia vindex	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bull Ant	5
https://biodiversity.org.au/afd/taxa/29c3647e-1457-4fb1-b0a3-e31a78e538d1	Eurostopodus (Eurostopodus) argus	(Hartert, 1892)	species	Animalia	Chordata	Aves	Caprimulgiformes	Caprimulgidae	Spotted Nightjar	5
https://biodiversity.org.au/afd/taxa/2b6dcb32-6507-4553-970d-d06229af401e	Pygopus lepidopodus	(LacÃ©pÃ¨de, 1804)	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Common Scaly-foot	5
https://biodiversity.org.au/afd/taxa/2d51ff56-997d-4a12-963f-d2bf47489f49	Thyreus waroonensis	(Cockerell, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Apidae	Cuckoo Bee	5

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/2f3cda32-b7ee-4a78-b03b-58cc369b4d45	Lerista distinguenda	(Werner, 1910)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	South-western Orange-tailed Slider	5
https://biodiversity.org.au/afd/taxa/2f41ce76-55c9-472e-97de-eda04be5fde5	Destolmia lineata	Walker, 1855	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Moth	5
https://biodiversity.org.au/afd/taxa/30ee9d69-b5f3-4f81-8b7c-10074fbdc485	Capra hircus	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Artiodactyla	Bovidae	Goat	5
https://biodiversity.org.au/afd/taxa/315f1776-5722-408a-b07e-77530f5731e1	Gasteruption bicarinatum	(Turner, 1981)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		5
https://biodiversity.org.au/afd/taxa/34207a50-3aad-4820-840a-68d5447c9b9f	Campion tenuistrigus	(Gerstaecker, 1885)	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		5
https://biodiversity.org.au/afd/taxa/345f6fa3-17f1-49bb-9def-9744c97ec73c	Anomalomydas mackerrasi	(Norris, 1938)	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		5
https://biodiversity.org.au/afd/taxa/3a53429b-45eb-4421-bcd7-661345957310	Drymaplaneta semivitta	(Walker, 1868)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Gisborne Cockroach	5
https://biodiversity.org.au/afd/taxa/3defc558-7f2a-497c-96ad-f6c80bb61d6f	Nyctemera amicus	(White, 1841)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	5
https://biodiversity.org.au/afd/taxa/4090ad27-9c69-454d-aa47-23860b9ee50b	Xenus cinereus	(GÃ¼ldenstÃ¤dt, 1775)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Terek Sandpiper	5
https://biodiversity.org.au/afd/taxa/489058be-ee9b-4fe6-bc74-159c10ea620d	Cryptocheilus bicolor	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae	Orange Spider Wasp	5
https://biodiversity.org.au/afd/taxa/49061f27-9c42-440c-9539-6300536ff3f5	Cylindraustralia tindalei	GÃ¼nther, 1992	species	Animalia	Arthropoda	Insecta	Orthoptera	Cylindrachetidae		5
https://biodiversity.org.au/afd/taxa/4bddd400-b075-4b08-967c-2c98a3e84b7c	Myrmeleon acer	Walker, 1853	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Common Antlion	5
https://biodiversity.org.au/afd/taxa/4cee8a8f-3848-4095-8734-254056585182	Galaxias occidentalis	Ogilby, 1899	species	Animalia	Chordata	Actinopterygii	Salmoniformes	Galaxiidae	Western Galaxias	5
https://biodiversity.org.au/afd/taxa/4d4c38e1-650b-4cf5-b331-7aa2fb0a5e06	Catasarcus bilineatus	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		5
https://biodiversity.org.au/afd/taxa/4f8d196e-6b81-44cb-beeb-64cd15c2ae19	Lychas marmoreus	(C.L. Koch, 1845)	species	Animalia	Arthropoda	Arachnida	Scorpiones	Buthidae	Marbled Scorpion	5
https://biodiversity.org.au/afd/taxa/5526c312-451f-4c90-a69e-088b55be6956	Pluvialis fulva	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Pacific Golden Plover	5
https://biodiversity.org.au/afd/taxa/588a782c-be72-4e20-a241-af5f3876a658	Bembix littoralis	Turner, 1908	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	5
https://biodiversity.org.au/afd/taxa/5ac1cf3f-ff43-490d-ac23-ea3ca00005e3	Hygraula nitens	(Butler, 1880)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Pond Moth	5
https://biodiversity.org.au/afd/taxa/5ea9c3a8-567a-4ab0-8a14-39d4de6ccf47	Delma fraseri	Gray, 1831	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Fraser's Delma	5
https://biodiversity.org.au/afd/taxa/5f40deca-aff7-4fbb-97ea-b9c89c99c237	Nyctophilus geoffroyi	Leach, 1821	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Lesser Long-eared Bat	5
https://biodiversity.org.au/afd/taxa/6167accb-7377-4534-b284-cc09e98441e6	Ectrephes formicarum	Pascoe, 1866	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		5
https://biodiversity.org.au/afd/taxa/65da4cb2-b431-408e-acb8-f480fd3c5679	Eudesmeola lawsoni	(R. Felder & Rogenhofer, 1874)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	5
https://biodiversity.org.au/afd/taxa/6c406e1a-690c-411a-b407-34c78dc7b612	Poecilometis apicalis	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	5
https://biodiversity.org.au/afd/taxa/6dbaeb00-dd98-4be8-9bce-3be6188b7581	Nisista galearia	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	5
https://biodiversity.org.au/afd/taxa/6f559bab-779d-4f8e-8212-eac8bff0a47e	Adelium brevicorne	Blessig, 1861	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae	Ground Beetle Sp 1	5
https://biodiversity.org.au/afd/taxa/70b173fb-a9cc-4b73-a9ee-598d1b5289a6	Limosa limosa	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Black-tailed Godwit	5
https://biodiversity.org.au/afd/taxa/71aa0370-adeb-4c36-ac1e-b89db30d3f84	Camponotus nigriceps	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Black-headed Sugar Ant	5
https://biodiversity.org.au/afd/taxa/8070e8d7-5c38-4954-8f76-7a18ce826cba	Metaparagia maculata	(Meade-Waldo, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		5
https://biodiversity.org.au/afd/taxa/834e771e-c391-4107-ba54-6f65dc0b3619	Cryptoblepharus plagiocephalus	(Cocteau, 1836)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	PÃ©ron's Snake-eyed Skink	5
https://biodiversity.org.au/afd/taxa/8708ed8d-1fe9-40c2-bd3e-aaf2e2bed5ce	Hypobapta barnardi	Goldfinch, 1929	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	5
https://biodiversity.org.au/afd/taxa/87d9866d-6df6-481b-aa61-721fdfd09879	Artamus (Campbellornis) personatus	(Gould, 1841)	species	Animalia	Chordata	Aves	Passeriformes	Artamidae	Masked Woodswallow	5
https://biodiversity.org.au/afd/taxa/889257cc-10fa-4ad9-9d8d-0101377b083e	Creiis periculosus	(Olliff, 1895)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae		5
https://biodiversity.org.au/afd/taxa/8c7319ee-c6f9-4f11-98ee-e8ca0ebe465d	Rhinotia suturalis	(MacLeay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Belidae	Tailed Weevil	5
https://biodiversity.org.au/afd/taxa/8eab29fe-cfc3-450c-8718-074cae5164a2	Lehmannia nyctelia	(Bourguignat, 1861)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae	Striped Field Slug	5
https://biodiversity.org.au/afd/taxa/95f77dfd-5319-499c-a275-7e588db9b12e	Iridomyrmex conifer	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Coned Tyrant Ant	5
https://biodiversity.org.au/afd/taxa/9824ad43-a8bf-4693-8f06-0ae2a99592bf	Calosoma (Australodrepa) schayeri	Erichson, 1842	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae	Green Carab Beetle	5
https://biodiversity.org.au/afd/taxa/9ac99027-d2f3-4d56-90c6-8c7bc47405f2	Nacaduba biocellata	(C. & R. Felder, 1865)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Two-spotted Line-blue	5
https://biodiversity.org.au/afd/taxa/a8c12e04-6382-44e8-9093-ac103f333d6d	Acantholophus dumosus	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		5
https://biodiversity.org.au/afd/taxa/b50cfabc-67a2-43b8-810c-20d0aef16c4e	Tmarus marmoreus	(L. Koch, 1876)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		5
https://biodiversity.org.au/afd/taxa/b817ed58-14c6-4169-bcad-66f7a227e72a	Amblyomma triguttatum	Koch, 1844	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		5
https://biodiversity.org.au/afd/taxa/b82607ab-9c04-48af-8bbf-8f4266eb36ef	Castiarina rufipennis	(Kirby, 1818)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		5
https://biodiversity.org.au/afd/taxa/babedf46-96f6-42b5-b817-963228c553c1	Corasoides occidentalis	Humphrey, 2017	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae		5
https://biodiversity.org.au/afd/taxa/bfbb0bdc-3365-41b7-b15f-766c522c4cc6	Acantholophus lateralis	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		5
https://biodiversity.org.au/afd/taxa/c188e141-68f6-47ad-8327-c9fe56075c0a	Synemon leucospila	Meyrick, 1891	species	Animalia	Arthropoda	Insecta	Lepidoptera	Castniidae		5
https://biodiversity.org.au/afd/taxa/c2056f1b-fcde-45b9-904b-1cab280368d1	Canis familiaris	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Carnivora	Canidae	Common Dog	5
https://biodiversity.org.au/afd/taxa/c650dca9-69e3-4051-ace8-86444b0ee972	Egretta sacra	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Eastern Reef Egret	5
https://biodiversity.org.au/afd/taxa/c8c6a91a-bc1b-43e9-8a4a-c79ef1866e90	Macrosiphum (Macrosiphum) rosae	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphididae	Rose Aphid	5
https://biodiversity.org.au/afd/taxa/cd3dc353-d08a-4747-b031-eecf684971e0	Melobasis cuprifera	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		5
https://biodiversity.org.au/afd/taxa/cd4e3b1b-4387-4338-8fc8-0da4f30a9e0b	Burhinus (Burhinus) grallarius	(Latham, 1801)	species	Animalia	Chordata	Aves	Charadriiformes	Burhinidae	Bush Stone-curlew	5
https://biodiversity.org.au/afd/taxa/d045f508-3c75-470e-b1c7-83d2029e2d98	Paropsides calypso	(Blackburn, 1898)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		5
https://biodiversity.org.au/afd/taxa/d1756a83-ed3c-4593-8df6-99904d056089	Buddelundia opaca	(Budde-Lund, 1912)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Armadillidae		5
https://biodiversity.org.au/afd/taxa/dc21add3-0376-4164-9dfe-dacc5c50ef40	Micromus tasmaniae	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Neuroptera	Hemerobiidae	Tasmanian Brown Lacewing	5
https://biodiversity.org.au/afd/taxa/deae26a7-c580-4208-8183-0922cd0c6f9a	Ophiusa tirhaca	(Cramer, 1777)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	5

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/ec93619c-59cc-4ada-bee3-e6680ddd1b54	Hurleya kalamundae	StraÅjkraba, 1966	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Paramelitidae	Amphipod	5
https://biodiversity.org.au/afd/taxa/ecb2030b-0309-43f2-8fb3-22776db1b98d	Ixobrychus flavicollis	(Latham, 1790)	species	Animalia	Chordata	Aves	Ciconiiformes	Ardeidae	Black Bittern	5
https://biodiversity.org.au/afd/taxa/f0052736-ed3a-4170-a7b2-94bde6d36d19	Phalaenoides glycinae	Lewin, 1805	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Grapevine Moth	5
https://biodiversity.org.au/afd/taxa/f7c7c697-c589-4ac5-bf3f-7d6bc33d3f58	Dictyotus conspicuus	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	5
https://biodiversity.org.au/afd/taxa/f95f3be8-a197-490f-a687-8666c9a0b149	Tympanophora similis	Riek, 1976	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		5
https://id.biodiversity.org.au/name/apni/51346839	Drosera sp. Branched styles (S.C.Coffey 193)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		5
https://id.biodiversity.org.au/name/apni/57527	Machaerina articulata	(R.Br.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Jointed Twig-rush	5
https://id.biodiversity.org.au/node/apni/2886311	Dielsia stenostachya	(W.Fitzg.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		5
https://id.biodiversity.org.au/node/apni/2886391	Mirbelia dilatata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Holly-leaved Mirbelia	5
https://id.biodiversity.org.au/node/apni/2886851	Allium triquetrum	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae	Angled Onion	5
https://id.biodiversity.org.au/node/apni/2886878	Sparaxis tricolor	(Schneev.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Tricolor Harlequin Flower	5
https://id.biodiversity.org.au/node/apni/2887332	Mesomelaena graciliceps	(C.B.Clarke) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2887548	Nicotiana rotundifolia	Lindl.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Round-leaf Tobacco	5
https://id.biodiversity.org.au/node/apni/2888413	Cotula australis	(Sieber ex Spreng.) Hook.f.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Cotula	5
https://id.biodiversity.org.au/node/apni/2888471	Ottelia ovalifolia	(R.Br.) Rich.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Swamp Lily	5
https://id.biodiversity.org.au/node/apni/2888893	Stylidium divaricatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Daddy-long-legs	5
https://id.biodiversity.org.au/node/apni/2889330	Podotheca gnaphalioides	Graham	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Golden Long-heads	5
https://id.biodiversity.org.au/node/apni/2890692	Calectasia cyanea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Dasypogonales	Dasypogonaceae	Blue Tinsel Lily	5
https://id.biodiversity.org.au/node/apni/2890894	Eremophila nivea	Chinnock	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Silky Eremophila	5
https://id.biodiversity.org.au/node/apni/2891026	Andersonia heterophylla	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		5
https://id.biodiversity.org.au/node/apni/2891185	Schoenus benthamii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2891369	Platysace ramosissima	(Benth.) C.Norman	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2891485	Melaleuca cuticularis	Labill.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Western Swamp-paperbark	5
https://id.biodiversity.org.au/node/apni/2891607	Leucopogon sp. Great Southern (R.S.Cowan A-586)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		5
https://id.biodiversity.org.au/node/apni/2891773	Suaeda australis	(R.Br.) Moq.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Austral Seablite	5
https://id.biodiversity.org.au/node/apni/2892410	Crassula natans	Thunb.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Swamp Stonecrop	5
https://id.biodiversity.org.au/node/apni/2894412	Hydrocotyle striata	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae		5
https://id.biodiversity.org.au/node/apni/2894492	Pithocarpa corymbulosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Corymbose Pithocarpa	5
https://id.biodiversity.org.au/node/apni/2895283	Lepidosperma scabrum	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Scabrid Sword-sedge	5
https://id.biodiversity.org.au/node/apni/2895786	Pilostyles hamiltoniorum	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Malvales	Apodanthaceae		5
https://id.biodiversity.org.au/node/apni/2895938	Xanthosia ciliata	Hook.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2896895	Thunbergia alata	Bojer ex Sims	species	Plantae	Charophyta	Equisetopsida	Lamiales	Acanthaceae	Black-eyed Susan	5
https://id.biodiversity.org.au/node/apni/2896952	Templetonia retusa	(Vent.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cockies Tongue	5
https://id.biodiversity.org.au/node/apni/2897804	Xanthorrhoea brunonis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Xanthorrhoeaceae		5
https://id.biodiversity.org.au/node/apni/2898538	Myoporum caprarioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Slender Myoporum	5
https://id.biodiversity.org.au/node/apni/2899003	Meionectes brownii	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Swamp Raspwort	5
https://id.biodiversity.org.au/node/apni/2899271	Diplolaena drummondii	(Benth.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Lesser Diplolaena	5
https://id.biodiversity.org.au/node/apni/2899876	Eucalyptus caesia	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Silver Princess	5
https://id.biodiversity.org.au/node/apni/2900052	Schoenus clandestinus	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2900260	Andersonia caerulea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Foxtails	5
https://id.biodiversity.org.au/node/apni/2900655	Stachys arvensis	(L.) L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Stagger Weed	5
https://id.biodiversity.org.au/node/apni/2901201	Tecticornia lepidosperma	(Paul G.Wilson) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Wa Samphire	5
https://id.biodiversity.org.au/node/apni/2901786	Gastrolobium calycinum	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	York Road Poison	5
https://id.biodiversity.org.au/node/apni/2903182	Daviesia pedunculata	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		5
https://id.biodiversity.org.au/node/apni/2903963	Schoenolaena juncea	Bunge	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2904415	Acacia microbotrya	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Manna Wattle	5
https://id.biodiversity.org.au/node/apni/2904884	Grammatotheca bergiana	(Cham.) C.Presl	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae		5
https://id.biodiversity.org.au/node/apni/2906267	Millotia myosotidifolia	(Benth.) Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Broad-leaf Millotia	5
https://id.biodiversity.org.au/node/apni/2906728	Austrostipa bronweniae	A.R.Williams	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		5
https://id.biodiversity.org.au/node/apni/2906811	Atriplex hymenotheca	Moq.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae		5
https://id.biodiversity.org.au/node/apni/2907093	Ranunculus muricatus	L.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Pricklefruit Buttercup	5
https://id.biodiversity.org.au/node/apni/2907978	Hibbertia cunninghamii	Aiton ex Hook.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		5
https://id.biodiversity.org.au/node/apni/2908061	Opercularia apiciflora	Labill. ex Juss.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae		5

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https://id.biodiversity.org.au/node/apni/2908502	Amphipogon amphipogonoides	(Steud.) Vickery	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		5
https://id.biodiversity.org.au/node/apni/2908591	Sphaerolobium vimineum	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Leafless Globe-pea	5
https://id.biodiversity.org.au/node/apni/2908720	Marianthus erubescens	Putt.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Red Billardiera	5
https://id.biodiversity.org.au/node/apni/2909143	Dimorphotheca ecklonis	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cape Daisy	5
https://id.biodiversity.org.au/node/apni/2909503	Tribulus terrestris	L.	species	Plantae	Charophyta	Equisetopsida	Zygophyllales	Zygophyllaceae	Goathead Burr	5
https://id.biodiversity.org.au/node/apni/2909517	Ixia maculata	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Yellow Ixia	5
https://id.biodiversity.org.au/node/apni/2909603	Stuckenia pectinata	(L.) Borner	species	Plantae	Charophyta	Equisetopsida	Alismatales	Potamogetonaceae	Fennel Pondweed	5
https://id.biodiversity.org.au/node/apni/2909747	Ficinia nodosa	(Rottb.) Goetgh., Muasya & D.A.Simpson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Knobby Club-rush	5
https://id.biodiversity.org.au/node/apni/2910059	Fumaria muralis	Sond. ex W.D.J.Koch	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Papaveraceae	Fumitory	5
https://id.biodiversity.org.au/node/apni/2910094	Xanthosia atkinsoniana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		5
https://id.biodiversity.org.au/node/apni/2910171	Cyathochaeta clandestina	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/node/apni/2910721	Dischisma capitatum	Choisy	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Woolly-head Dichisma	5
https://id.biodiversity.org.au/node/apni/2910785	Haemodorum simulans	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		5
https://id.biodiversity.org.au/node/apni/2910937	Ornduffia albiflora	(F.Muell.) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		5
https://id.biodiversity.org.au/node/apni/2911396	Lomandra brittanii	T.S.Choo	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		5
https://id.biodiversity.org.au/node/apni/2912523	Lepyrodia muirii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		5
https://id.biodiversity.org.au/node/apni/2912661	Xylomelum angustifolium	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Sandplain Woody Pear	5
https://id.biodiversity.org.au/node/apni/2913105	Wurmbea tenella	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae	Eight Nancy	5
https://id.biodiversity.org.au/node/apni/2913574	Crepis foetida	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Foetid Hawk's-beard	5
https://id.biodiversity.org.au/node/apni/2913998	Gnephosis tenuissima	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Dwarf Golden-tip	5
https://id.biodiversity.org.au/node/apni/2914200	Leucopogon tenuis	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		5
https://id.biodiversity.org.au/node/apni/2914405	Trithuria bibracteata	Stapf ex D.A.Cooke	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae		5
https://id.biodiversity.org.au/node/apni/2914483	Acacia anomala	C.A.Gardner ex Court	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grass Wattle	5
https://id.biodiversity.org.au/node/apni/2916225	Cephalipterum drummondii	A.Gray	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pompom Head	5
https://id.biodiversity.org.au/node/apni/2916854	Conospermum incurvum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Plume Smokebush	5
https://id.biodiversity.org.au/node/apni/2916912	Scaevola nitida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Shining Fanflower	5
https://id.biodiversity.org.au/node/apni/2917914	Dodonaea ericoides	Miq.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		5
https://id.biodiversity.org.au/node/apni/2917991	Chasmanthe floribunda	(Salisb.) N.E.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	African Cornflag	5
https://id.biodiversity.org.au/node/apni/2919175	Lolium rigidum	Gaudin	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wimmera Ryegrass	5
https://id.biodiversity.org.au/node/apni/2919233	Pimelea preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		5
https://id.biodiversity.org.au/node/apni/2919467	Philydrella drummondii	L.G.Adams	species	Plantae	Charophyta	Equisetopsida	Commelinales	Philydraceae	Greater Butterfly Flowers	5
https://id.biodiversity.org.au/node/apni/2919554	Triglochin mucronata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Prickly Arrowgrass	5
https://id.biodiversity.org.au/node/apni/2920108	Vachellia karroo	(Hayne) Banfi & Galasso	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Karroo Thorn	5
https://id.biodiversity.org.au/node/apni/2920874	Poranthera huegelii	Klotzsch	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Heath Poranthera	5
https://id.biodiversity.org.au/node/apni/7455751	Pauridia glabella	(R.Br.) Snijman & Kocyan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hypoxidaceae		5
https://id.biodiversity.org.au/node/apni/7776299	Sorghum halepense	(L.) Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Johnson Grass	5
https://id.biodiversity.org.au/node/apni/8505665	Daviesia incrassata	Sm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		5
https://id.biodiversity.org.au/node/apni/8655662	Rhodanthe manglesii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		5
https://id.biodiversity.org.au/node/ausmoss/10083595	Fissidens taylorii	MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Pygmy Pocket-moss	5
https://id.biodiversity.org.au/node/fungi/60091637	Coprinus comatus	(O.F.MÃ¼ll.) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Shaggy Mane	5
https://id.biodiversity.org.au/node/fungi/60102877	Batrachochytrium dendrobatidis	Longcore, Pessier & D.K.Nichols	species	Fungi	Chytridiomycota	Chytridiomycetes	Rhizophydiales		Chytrid Fungus	5
https://id.biodiversity.org.au/node/fungi/60103887	Diachea leucopodia	(Bull.) Rostaf.	species	Protista	Amoebozoa	Myxogastrea	Stemonitida	Stemonitidaceae		5
https://id.biodiversity.org.au/taxon/apni/51249803	Pteridium esculentum	(G.Forst.) Cockayne	species	Plantae	Charophyta	Equisetopsida	Polypodiales	Dennstaedtiaceae	Austral Bracken	5
https://id.biodiversity.org.au/taxon/apni/51268439	Eclipta prostrata	(L.) L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	White Eclipta	5
https://id.biodiversity.org.au/taxon/apni/51270276	Polycarpon tetraphyllum	(L.) L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Four-leaf Allseed	5
https://id.biodiversity.org.au/taxon/apni/51283626	Drosera neesii	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Jewel Rainbow	5
https://id.biodiversity.org.au/taxon/apni/51283630	Drosera occidentalis	Morrison	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Western Sundew	5
https://id.biodiversity.org.au/taxon/apni/51289308	Calothamnus torulosus	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		5
https://id.biodiversity.org.au/taxon/apni/51290266	Regelia ciliata	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		5
https://id.biodiversity.org.au/taxon/apni/51291059	Bellardia viscosa	(L.) Fisch. & C.A.Mey.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Orobanchaceae	Yellow Bartsia	5
https://id.biodiversity.org.au/taxon/apni/51293786	Leptocarpus roycei	B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		5
https://id.biodiversity.org.au/taxon/apni/51299910	Brachypodium distachyon	(L.) P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	False Brome	5
https://id.biodiversity.org.au/taxon/apni/51300244	Juncus caespiticius	E.Mey.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Grassy Rush	5
https://id.biodiversity.org.au/taxon/apni/51398787	Caladenia arenicola	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Carousel Spider Orchid	5
https://id.biodiversity.org.au/taxon/apni/51404335	Diuris setacea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bristly Donkey Orchid	5
https://id.biodiversity.org.au/taxon/apni/51409835	Prasophyllum ovale	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Little Leek Orchid	5
https://id.biodiversity.org.au/taxon/apni/51414424	Thelymitra stellata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Star Sunorchid	5

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https://id.biodiversity.org.au/taxon/apni/51433771	Burchardia bairdiae	Keighery	species	Plantae	Charophyta	Equisetopsida	Liliales	Colchicaceae		5
https://id.biodiversity.org.au/taxon/apni/51434704	Machaerina vaginalis	(Benth.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		5
https://id.biodiversity.org.au/taxon/apni/51439052	Hibiscus diversifolius	Jacq.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Swamp Hibiscus	5
https://id.biodiversity.org.au/taxon/apni/51441918	Pterostylis orbiculata	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Coastal Banded Greenhood	5
https://id.biodiversity.org.au/taxon/apni/51445859	Cheilanthes distans	(R.Br.) Mett.	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Bristly Cloak-fern	5
https://id.biodiversity.org.au/taxon/apni/51446276	Acaena echinata	Nees	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Sheep's Burr	5
https://id.biodiversity.org.au/taxon/ausmoss/10144080	Ceratodon purpureus	(Hedw.) Brid.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Redshank Moss	5
https://id.biodiversity.org.au/taxon/ausmoss/10152539	Campylopus bicolor	(MÃ¼ll.Hal.) Wilson	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Swan-neck Moss	5
https://id.biodiversity.org.au/taxon/fungi/60115577	Morchella rufobrunnea	GuzmÃįn & F.Tapia	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Morchellaceae		5
ALA_DR22913_251	Gryllodes sigillatus		species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllidae	Indian House Cricket	4
NZOR-6-124554	Pseudocyphellaria neglecta	(MÃ¼ll.Arg.) H.Magn.	species	Fungi	Ascomycota	Lecanoromycetes	Peltigerales	Lobariaceae		4
NZOR-6-99607	Flavoparmelia rutidota	(Hook.f. & Taylor) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae	Common Biscuit Lichen	4
https://biodiversity.org.au/afd/taxa/01570ffa-e917-489c-82ae-9d25d307dd35	Myrmecia picta	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bull Ant	4
https://biodiversity.org.au/afd/taxa/0a1ad736-943a-49f8-afc8-c14624e58731	Donuca spectabilis	Walker, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	White-spotted Owl Moth	4
https://biodiversity.org.au/afd/taxa/0acf0128-8670-42e2-ac5c-d9efbb3c864f	Plesiolaea maritima	(Lower, 1897)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		4
https://biodiversity.org.au/afd/taxa/0c810db5-846a-41a5-a620-cf84f3e68529	Eurymelita terminalis	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	4
https://biodiversity.org.au/afd/taxa/0ebe0386-6f5c-4310-b96f-156edd5e4d68	Coleocoptus senio	(Newman, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		4
https://biodiversity.org.au/afd/taxa/0fa7937f-8452-4c0d-bb08-b9308f97680b	Ocirrhoe unimaculata	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	4
https://biodiversity.org.au/afd/taxa/111e0393-12a6-4948-8929-bbc7e15ecbcd	Maratus chrysomelas	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Variable Peacock Spider	4
https://biodiversity.org.au/afd/taxa/146f01aa-333f-4744-a8a2-f90a8e9c6050	Hellula hydralis	GuenÃ©e, 1854	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	4
https://biodiversity.org.au/afd/taxa/183f936d-aaf1-4846-8538-ae785e70edce	Stenocotis depressa	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Black Flat-head Leafhopper	4
https://biodiversity.org.au/afd/taxa/1bf24d7e-3b21-4aba-9ea1-df66908afcf4	Carassius auratus	(Linnaeus, 1758)	species	Animalia	Chordata	Actinopterygii	Cypriniformes	Cyprinidae	Goldfish	4
https://biodiversity.org.au/afd/taxa/1d3e7e69-3f81-49ac-9753-955c078efa76	Gehyra punctata	(Fry, 1914)	species	Animalia	Chordata	Reptilia	Squamata	Gekkonidae	Spotted Dtella	4
https://biodiversity.org.au/afd/taxa/20e14885-ca48-4d37-9535-35bf3b315500	Polyzosteria fulgens	Mackerras, 1965	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		4
https://biodiversity.org.au/afd/taxa/21607ba9-1045-4c34-ba1d-b78ba19dc64e	Plectostenus gracilicornis	Lea, 1910	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		4
https://biodiversity.org.au/afd/taxa/22172391-4315-46fa-8a31-ca8d8ec1af40	Cormocephalus rubriceps	(Newport, 1843)	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		4
https://biodiversity.org.au/afd/taxa/22573748-d817-4c7c-b93c-ed5655e6958f	Coleotichus costatus	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Hemiptera	Scutelleridae	Shield Bug	4
https://biodiversity.org.au/afd/taxa/24d6a8c0-f177-4af4-bbe5-e550cfadc8fa	Triclista singularis	(Macquart, 1846)	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		4
https://biodiversity.org.au/afd/taxa/26c234cf-9d6c-4be6-8ef3-8f5b055addb2	Hemisaga denticulata	(White, 1841)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		4
https://biodiversity.org.au/afd/taxa/2b80bafc-727d-4091-8792-718349a9c9e9	Cyrtophora parnasia	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		4
https://biodiversity.org.au/afd/taxa/2f467813-b673-40ad-bbb9-1d5f55de837c	Cryptachaea veruculata	(Urquhart, 1886)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	4
https://biodiversity.org.au/afd/taxa/31b7f51d-fcdb-4e53-a761-2d385fe0a18d	Bostrychopsis jesuita	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bostrichidae	Large Auger Beetle	4
https://biodiversity.org.au/afd/taxa/32564987-a33c-47fc-8e4d-97432f50f77a	Cubicorhynchus dohrnii	(Waterhouse, 1854)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		4
https://biodiversity.org.au/afd/taxa/342960c5-65b1-4763-94e6-70c34d2be7ed	Tiracerus subcylindricornis	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		4
https://biodiversity.org.au/afd/taxa/3b05d614-aca5-4d6e-b4b9-8bd7ac7f7ee6	Calidris (Crocethia) alba	(Pallas, 1764)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Sanderling	4
https://biodiversity.org.au/afd/taxa/3db44d56-129a-48f4-a792-a37dfd8da6e5	Tranes vigorsii	Boheman, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		4
https://biodiversity.org.au/afd/taxa/443310b4-9a91-4780-940c-57f4d6ffe370	Talaurinus roei	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		4
https://biodiversity.org.au/afd/taxa/44f66303-f4ba-48de-b180-9c2b65ca8018	Lioponera nigriventris	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		4
https://biodiversity.org.au/afd/taxa/4987409b-ea0a-4150-b9ae-93f3ebe971b7	Campion australasiae	(GuÃ©rin-MÃ©neville, 1844)	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		4
https://biodiversity.org.au/afd/taxa/49e68d00-63c0-4482-8378-d67daa2fe05a	Harpobittacus similis	Esben-Petersen, 1935	species	Animalia	Arthropoda	Insecta	Mecoptera	Bittacidae		4
https://biodiversity.org.au/afd/taxa/4e0362a8-d3d2-4c4b-b663-38de6d734dbd	Taylorilygus apicalis	(Fieber, 1861)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Brokenbacked Bug	4
https://biodiversity.org.au/afd/taxa/5076c757-134a-477f-b7fe-cf4cd6f39527	Agrotis infusa	(Boisduval, 1832)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Bogong Moth	4
https://biodiversity.org.au/afd/taxa/573a0067-0dd1-48f8-b48b-26f67e2ab976	Australomisidia cruentata	(L. Koch, 1874)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	4
https://biodiversity.org.au/afd/taxa/5816c5ce-a661-48a3-ae72-377337f34752	Distoplectron gerstaeckeri	(Esben-Petersen, 1918)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		4
https://biodiversity.org.au/afd/taxa/58986fee-b686-47c7-9bf9-a9a5e37df1d5	Paropsisterna crocata	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		4
https://biodiversity.org.au/afd/taxa/5b9af1d5-307d-4835-8a12-0ee1d9e24df6	Uroctena affinis	Nicholls, 1926	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Paramelitidae	Amphipod	4
https://biodiversity.org.au/afd/taxa/5c372eff-84ce-4e35-95f1-b2276e6530fc	Tramea stenoloba	(Watson, 1962)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Narrow-lobed Glider	4
https://biodiversity.org.au/afd/taxa/5e43e5d8-2b6f-4d8e-bd66-09340850f327	Acmonotus incusifer	McLachlan, 1871	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae		4
https://biodiversity.org.au/afd/taxa/5ebff4cf-11b2-444a-b60c-6ff6a17ba18d	Aphis (Aphis) nerii	Boyer de Fonscolombe, 1841	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphididae	Oleander Aphid	4
https://biodiversity.org.au/afd/taxa/5ff29bca-f02f-468f-9f96-9ae956015e01	Numenius (Numenius) madagascariensis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Eastern Curlew	4
https://biodiversity.org.au/afd/taxa/615d55e1-fdb9-4d6e-962b-4f4caa203622	Trachylestes turneri	(Miller, 1958)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	4
https://biodiversity.org.au/afd/taxa/61f6bef9-58d4-4fee-9295-212f4e224c97	Quedius diversipennis	Fauvel, 1878	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		4
https://biodiversity.org.au/afd/taxa/6653e981-88aa-45d8-8db6-55d61ff33b0d	Trachycosmus sculptilis	Simon, 1893	species	Animalia	Arthropoda	Arachnida	Araneae	Trochanteriidae	Spider	4
https://biodiversity.org.au/afd/taxa/6792227d-4b9a-4287-8089-376ff354de96	Smicrophylax australis	(Ulmer, 1908)	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Caddisfly	4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/67ae9c55-f9e2-4c3e-971e-ceaab5c01e98	Uloborus barbipes	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Uloboridae		4
https://biodiversity.org.au/afd/taxa/6e380202-046a-42a1-bc63-db5ee340fa39	Branta canadensis	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Canada Goose	4
https://biodiversity.org.au/afd/taxa/6e4ae4ec-b6ca-459f-9e81-c286fc715ce1	Todiramphus (Cyanalcyon) pyrrhopygius	(Gould, 1840)	species	Animalia	Chordata	Aves	Coraciiformes	Alcedinidae	Red-backed Kingfisher	4
https://biodiversity.org.au/afd/taxa/758122b8-e4df-4e44-abd2-ebaf7998851c	Entometa guttularis	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lasiocampidae	Boxtree Moth	4
https://biodiversity.org.au/afd/taxa/7729490c-b662-4bc5-add8-cf6ce6d99ca9	Diphucrania leucosticta	(Kirby, 1818)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		4
https://biodiversity.org.au/afd/taxa/810e0f87-63ad-4f0a-81ea-80508ee82da8	Hyalarcta nigrescens	(Doubleday, 1845)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Psychidae	Ribbed Bagworm Moth	4
https://biodiversity.org.au/afd/taxa/82875ca4-24ba-4672-81fe-60baf09a331b	Westralunio carteri	Iredale, 1934	species	Animalia	Mollusca	Bivalvia	Unionida	Hyriidae	Ambiguus Mussel	4
https://biodiversity.org.au/afd/taxa/82a5f234-3a9d-40f7-ab5d-bf823942ad96	Cossodes lyonetii	White, 1841	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cossidae		4
https://biodiversity.org.au/afd/taxa/83bf9ae3-eaab-48dd-aaf4-af410f9b073d	Tatea huonensis	(Tenison-Woods, 1876)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Tateidae		4
https://biodiversity.org.au/afd/taxa/844259fc-4f98-44d4-bd44-b25024d7543a	Pletholax gracilis	Cope, 1864	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Keeled Legless Lizard	4
https://biodiversity.org.au/afd/taxa/88ab4486-1ae6-4179-b62e-163fc33fd95f	Falcunculus frontatus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Falcunculidae	Crested Shrike-tit	4
https://biodiversity.org.au/afd/taxa/88dc84d9-a155-41c7-9bcc-e683b8ef4589	Stanwatkinsius subcarinifrons	(Thomson, 1879)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		4
https://biodiversity.org.au/afd/taxa/89ed70a3-7cb2-47cb-bedd-d39808f27559	Melanacanthus margineguttatus	Distant, 1911	species	Animalia	Arthropoda	Insecta	Hemiptera	Alydidae		4
https://biodiversity.org.au/afd/taxa/9117b44e-259a-462c-a238-fd59e180dad7	Plesiochrysa ramburi	(Schneider, 1851)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		4
https://biodiversity.org.au/afd/taxa/913336ed-f521-44cc-98e3-7f8dcfa69f57	Lasioglossum (Chilalictus) vitripenne	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	4
https://biodiversity.org.au/afd/taxa/92f392a9-7d6d-4115-861c-0f5f0a772dcf	Hoggicosa storri	(McKay, 1973)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		4
https://biodiversity.org.au/afd/taxa/958714ac-bc5d-4a8b-96d3-58d295df91c6	Arotrophora arcuatalis	(Walker, 1866)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Moth	4
https://biodiversity.org.au/afd/taxa/967145f0-a34d-4d2c-bef1-d6aac08e83ee	Megachile atrella	Cockerell, 1906	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	4
https://biodiversity.org.au/afd/taxa/97e7e30d-a7c4-40a7-b7d5-a2511ef7d091	Poecilasthena pulchraria	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	4
https://biodiversity.org.au/afd/taxa/9851cdd7-0e2e-400a-92cc-fa35698e3575	Hesperilla dirphia	Hewitson, 1868	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Western Brown Skipper	4
https://biodiversity.org.au/afd/taxa/9c64e037-478d-45c9-8222-f72a2a3a41fa	Cricotopus (Cricotopus) albitarsis	Drayson, Cranston & Krosch, 2015	species	Animalia	Arthropoda	Insecta	Diptera	Chironomidae		4
https://biodiversity.org.au/afd/taxa/9d91bf6c-a3be-4865-9bd0-d8727a1b6ad4	Pasiphilodes testulata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	4
https://biodiversity.org.au/afd/taxa/9e1860a5-8499-4ca9-9231-b1dfc3f3c249	Pardillana limbata	(StÃ¥l, 1878)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		4
https://biodiversity.org.au/afd/taxa/a11d18da-7b14-4a92-8081-2784c828aa68	Hololepta (Hololepta) australica	Marseul, 1853	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		4
https://biodiversity.org.au/afd/taxa/a1f0c554-0f01-45ec-8f24-3f611567f4b1	Telecrates laetiorella	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	4
https://biodiversity.org.au/afd/taxa/a51a34fa-2536-4a9d-ba11-603a9656bb75	Crematogaster laeviceps	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Cocktail Ant	4
https://biodiversity.org.au/afd/taxa/a8b54d4a-70b9-458a-80f4-79109fc46226	Garrha idiosema	(Turner, 1917)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	4
https://biodiversity.org.au/afd/taxa/ac0e451c-3718-4ba0-a87b-afdde2fc2f8f	Doleromyrma darwiniana	(Forel, 1907)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Brown House Ant	4
https://biodiversity.org.au/afd/taxa/b08d6ba1-a92e-4f16-aaab-c76e926d5219	Eublemma cochylioides	(GuenÃ©e, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Eublemma Moth	4
https://biodiversity.org.au/afd/taxa/b32a2ec6-315c-48cf-84b3-4898e39f4b57	Sugomel niger	(Gould, 1838)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Black Honeyeater	4
https://biodiversity.org.au/afd/taxa/b518a4b3-4f64-499b-8747-5642bab6bd79	Symonicoccus chorizandrae	Koteja & Brookes, 1981	species	Animalia	Arthropoda	Insecta	Hemiptera	Coccidae		4
https://biodiversity.org.au/afd/taxa/b595892a-6bb6-4886-91be-f0b8ae503a4e	Bruchophagus fellis	(Girault, 1928)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Eurytomidae		4
https://biodiversity.org.au/afd/taxa/b795f19e-ff71-417d-8741-1d0c157df381	Pachyprosopis (Pachyprosopula) purnongensis	(Rayment, 1928)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		4
https://biodiversity.org.au/afd/taxa/b7d21fef-2f99-4724-a8ec-2376eae1c0cc	Bibio imitator	Walker, 1835	species	Animalia	Arthropoda	Insecta	Diptera	Bibionidae	Garden Maggot	4
https://biodiversity.org.au/afd/taxa/b98ba854-85a8-4f6d-b709-b9a9e5ed887d	Monomorium sordidum	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	4
https://biodiversity.org.au/afd/taxa/b9cc8d40-274f-482a-be2a-e50074a8642e	Epithrix australis	Bryant, 1953	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		4
https://biodiversity.org.au/afd/taxa/b9d06f62-63da-4649-80ba-33986ea058e1	Notamacropus eugenii	(Desmarest, 1817)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Tammar Wallaby	4
https://biodiversity.org.au/afd/taxa/ba92e10f-6023-47bd-bd6d-fafaf8922700	Rhytidoponera rufonigra	Clark, 1936	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		4
https://biodiversity.org.au/afd/taxa/bd332ca4-dab5-4fda-8d68-04b678ffcdb4	Ninox (Hieracoglaux) connivens	(Latham, 1801)	species	Animalia	Chordata	Aves	Strigiformes	Strigidae	Barking Owl	4
https://biodiversity.org.au/afd/taxa/c115b3ea-ecdb-40fb-86db-05176d709d4b	Parapharyngodon anomalus	Hobbs, 1996	species	Animalia	Nematoda	Chromadorea	Spirurida	Pharyngodonidae		4
https://biodiversity.org.au/afd/taxa/c53ceb06-6818-409e-84d3-4505f5abc003	Demansia reticulata	(Gray, 1842)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Yellow-faced Whipsnake	4
https://biodiversity.org.au/afd/taxa/c6c2ad9d-4f52-451b-b123-6680187d8794	Pseudanapaea denotata	(Walker, 1865)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Limacodidae		4
https://biodiversity.org.au/afd/taxa/c79eed6c-2a4d-49fe-bf1b-58244f7d9d60	Chlaenius (Pelasmomimus) greyanus	White, 1841	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		4
https://biodiversity.org.au/afd/taxa/c9c959b4-b873-4b03-9fab-ef5f6bb1e224	Ischnochiton (Ischnochiton) contractus	(Reeve, 1847)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		4
https://biodiversity.org.au/afd/taxa/d0c0d859-e9e5-4131-a19b-9929f18c3688	Hogna crispipes	(L. Koch, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	4
https://biodiversity.org.au/afd/taxa/d27e6ae5-3c52-4e93-be9a-a2f638754917	Callohesma aureopicta	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		4
https://biodiversity.org.au/afd/taxa/d2f7fdb2-9d78-4cc1-a8bc-95d1e8b28504	Idaea inversata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	4
https://biodiversity.org.au/afd/taxa/d586fcd4-e1ef-47c9-85c1-3b59fac23686	Neohavinthus pentatoma	(Herrich-Schaeffer, 1853)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/d5bec3d6-3c2c-4335-94aa-2d9679032ed4	Numida meleagris	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Galliformes	Numididae	Helmeted Guineafowl	4
https://biodiversity.org.au/afd/taxa/d687fa91-59fa-46cb-b205-a62e4066b80c	Clitemnestra guttatula	(Turner, 1936)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		4
https://biodiversity.org.au/afd/taxa/d76a6b06-4639-4ca4-badc-bad4c14efcdc	Fluviolanatus subtortus	(Dunker, 1857)	species	Animalia	Mollusca	Bivalvia	Cardiida	Trapezidae	Clam	4
https://biodiversity.org.au/afd/taxa/d787efdd-7ad5-4304-a53d-a083ed6dfee2	Coptocercus rubripes	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		4
https://biodiversity.org.au/afd/taxa/d8013c80-f75c-4e4e-951b-690e7298bb28	Gonocephalum elderi	(Blackburn, 1892)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae	Vegetable Beetle	4
https://biodiversity.org.au/afd/taxa/d9a08fe7-10ac-41b0-8093-fd1ac19a682b	Acanthophis antarcticus	(Shaw & Nodder, 1802)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Common Death Adder	4
https://biodiversity.org.au/afd/taxa/d9f671eb-44c0-4d35-9090-273a56acb4d5	Helochares tristis	(W.J. Macleay, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	4
https://biodiversity.org.au/afd/taxa/dc2918a1-3d48-4628-b156-cf38c14c6c97	Faveria tritalis	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Couchgrass Webworm Moth	4
https://biodiversity.org.au/afd/taxa/dcdd893a-d906-471b-9ec9-31659c15ead1	Anthrenus (Nathrenus) verbasci	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae	Varied Carpet Beetle	4
https://biodiversity.org.au/afd/taxa/dd552b84-a313-4879-ada9-80d55b57d407	Cryptolaemus montrouzieri	Mulsant, 1853	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		4
https://biodiversity.org.au/afd/taxa/df461ff0-0913-4824-8db8-07421c1eb02a	Austroagrion cyane	(Selys, 1876)	species	Animalia	Arthropoda	Insecta	Odonata	Coenagrionidae	South-western Billabongfly	4
https://biodiversity.org.au/afd/taxa/e05c41be-d2ac-46d1-8efd-c858133211c0	Megachile (Austrochile) remotula	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		4
https://biodiversity.org.au/afd/taxa/e130fae3-af3b-4cca-968c-a40e04243152	Antigastra catalaunalis	(Duponchel, 1831)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		4
https://biodiversity.org.au/afd/taxa/e2e7f865-9843-46dc-bbb9-8161d26c8c21	Pediana occidentalis	Hogg, 1903	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		4
https://biodiversity.org.au/afd/taxa/ee06a32c-c7f3-423c-bc29-6962cd9bfa6b	Coelioxys froggatti	Cockerell, 1911	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	4
https://biodiversity.org.au/afd/taxa/f1c0ca04-8d30-40f4-ab25-103c74f430d2	Tyto novaehollandiae	(Stephens, 1826)	species	Animalia	Chordata	Aves	Strigiformes	Tytonidae	Masked Owl	4
https://biodiversity.org.au/afd/taxa/f39bc28e-8c11-40bc-9029-3c4da640c925	Nannophya dalei	(Tillyard, 1908)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Eastern Pygmyfly	4
https://biodiversity.org.au/afd/taxa/f6d35146-7837-44f4-91a0-172b5807dcbb	Lichenaula onychodes	Turner, 1898	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	4
https://biodiversity.org.au/afd/taxa/f8527af2-27e2-4c87-bc4d-48c5c9095d3a	Megachile semiluctuosa	Smith, 1853	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	4
https://biodiversity.org.au/afd/taxa/f941d4ec-007c-4c73-8952-994801e178e2	Hippotion scrofa	(Boisduval, 1832)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Scrofa Hawk Moth	4
https://biodiversity.org.au/afd/taxa/fa60490f-3102-4caa-afda-a148fd902c3d	Caenoplana coerulea	Moseley, 1877	species	Animalia	Platyhelminthes	Rhabditophora	Tricladida	Geoplanidae		4
https://biodiversity.org.au/afd/taxa/fcfe302b-2089-4057-9b01-12a05c60c78a	Pseudonaja nuchalis	GÃ¼nther, 1858	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Northern Brown Snake	4
https://biodiversity.org.au/afd/taxa/fdbd03de-719e-42d9-ba5c-7afb7aeb97fb	Choreutis ophiosema	(Lower, 1896)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Choreutidae		4
https://biodiversity.org.au/afd/taxa/fe577a22-f8c6-4f30-84af-bcd35da0a2ca	Aedes (Dobrotworskyius) alboannulatus	(Macquart, 1850)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Mosquito	4
https://id.biodiversity.org.au/name/apni/51370379	Rumicastrum uncinellum	(Obbens) Hershk.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae		4
https://id.biodiversity.org.au/node/apni/2886364	Cenchrus longisetus	M.C.Johnst.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Feathertop	4
https://id.biodiversity.org.au/node/apni/2886595	Bolboschoenus fluviatilis	(Torr.) SojÃ¡k	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tall Club-sedge	4
https://id.biodiversity.org.au/node/apni/2886663	Tetratheca setigera	Endl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		4
https://id.biodiversity.org.au/node/apni/2887514	Melaleuca quinquenervia	(Cav.) S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Paperbark	4
https://id.biodiversity.org.au/node/apni/2887728	Logfia gallica	(L.) Coss. & Germ.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Narrow Cudweed	4
https://id.biodiversity.org.au/node/apni/2888386	Schoenus rigens	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2888694	Trifolium incarnatum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Crimson Clover	4
https://id.biodiversity.org.au/node/apni/2888695	Hemiandra glabra	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		4
https://id.biodiversity.org.au/node/apni/2888954	Drosera platystigma	Lehm.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Black-eyed Sundew	4
https://id.biodiversity.org.au/node/apni/2889532	Anthotium junciforme	(de Vriese) D.A.Morrison	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Rush-like Anthotium	4
https://id.biodiversity.org.au/node/apni/2889582	Daviesia debilior	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2889922	Eragrostis curvula	(Schrad.) Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	African Love-grass	4
https://id.biodiversity.org.au/node/apni/2890286	Schoenus subfascicularis	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2890909	Oenothera laciniata	Hill	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Cut-leaf Evening-primrose	4
https://id.biodiversity.org.au/node/apni/2891017	Bossiaea spinescens	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2891029	Xerochrysum bracteatum	(Vent.) Tzvelev	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Golden Everlasting	4
https://id.biodiversity.org.au/node/apni/2891158	Brassica x napus	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Rape	4
https://id.biodiversity.org.au/node/apni/2891273	Euphorbia maculata	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Eyebane	4
https://id.biodiversity.org.au/node/apni/2891391	Olax scalariformis	A.S.George	species	Plantae	Charophyta	Equisetopsida	Santalales	Olacaceae		4
https://id.biodiversity.org.au/node/apni/2891639	Agave americana	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Century Plant	4
https://id.biodiversity.org.au/node/apni/2892873	Schoenus natans	(F.Muell.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Floating Bog-rush	4
https://id.biodiversity.org.au/node/apni/2892966	Siloxerus filifolius	(Benth.) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2893227	Lotus uliginosus	Schkuhr	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Greater Bird's-foot Trefoil	4
https://id.biodiversity.org.au/node/apni/2893373	Lotus subbiflorus	Lag.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hairy Bird's-foot Trefoil	4
https://id.biodiversity.org.au/node/apni/2893990	Cheiranthera preissiana	Putt.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		4
https://id.biodiversity.org.au/node/apni/2894273	Romulea flava	(Lam.) M.P.de Vos	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		4
https://id.biodiversity.org.au/node/apni/2894809	Lomandra integra	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		4

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2895392	Polygala myrtifolia	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Myrtle-leaf Milkwort	4
https://id.biodiversity.org.au/node/apni/2896265	Schoenus laevigatus	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Short-leaf Bog-sedge	4
https://id.biodiversity.org.au/node/apni/2896412	Schoenus latitans	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2896767	Calytrix depressa	(Turcz.) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		4
https://id.biodiversity.org.au/node/apni/2896953	Stenopetalum filifolium	Benth.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae		4
https://id.biodiversity.org.au/node/apni/2896978	Cymbopogon obtectus	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Silky-heads	4
https://id.biodiversity.org.au/node/apni/2897276	Physalis peruviana	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Cape Gooseberry	4
https://id.biodiversity.org.au/node/apni/2899267	Schoenus subbarbatus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Bearded Bog-rush	4
https://id.biodiversity.org.au/node/apni/2900668	Isopogon divergens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spreading Coneflower	4
https://id.biodiversity.org.au/node/apni/2901115	Poa annua	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Meadow-grass	4
https://id.biodiversity.org.au/node/apni/2901234	Billardiera floribunda	(Putt.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	White Flowered Billardiera	4
https://id.biodiversity.org.au/node/apni/2901671	Banksia praemorsa	Andrews	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Cut-leaf Banksia	4
https://id.biodiversity.org.au/node/apni/2902508	Daviesia decipiens	(E.Pritz.) Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2902832	Acacia celastrifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Glowing Wattle	4
https://id.biodiversity.org.au/node/apni/2902944	Dodonaea hackettiana	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae	Hackett's Hopbush	4
https://id.biodiversity.org.au/node/apni/2903078	Myriophyllum echinatum	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		4
https://id.biodiversity.org.au/node/apni/2903272	Drosera nitidula	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Shining Sundew	4
https://id.biodiversity.org.au/node/apni/2903995	Hyalosperma simplex	(Steetz) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2905033	Trifolium subterraneum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Subterranean Clover	4
https://id.biodiversity.org.au/node/apni/2905316	Chorizandra multiarticulata	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2907569	Gompholobium capitatum	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Yellow Pea	4
https://id.biodiversity.org.au/node/apni/2907999	Acacia horridula	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2908460	Juncus subsecundus	N.A.Wakef.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Finger Rush	4
https://id.biodiversity.org.au/node/apni/2908930	Hydrocotyle diantha	DC.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae	Kangaroo Island Pennywort	4
https://id.biodiversity.org.au/node/apni/2909130	Asteridea gracilis	A.Gray	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2909229	Macarthuria apetala	Harv.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Limeaceae		4
https://id.biodiversity.org.au/node/apni/2909307	Acacia truncata	(Burm.f.) Hoffmanns.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2909339	Athrotaxis cupressoides	D.Don	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Pencil Pine	4
https://id.biodiversity.org.au/node/apni/2909611	Isolepis multicaulis	Schltdl.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Grassy Club-rush	4
https://id.biodiversity.org.au/node/apni/2909879	Dampiera trigona	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Angled-stem Dampiera	4
https://id.biodiversity.org.au/node/apni/2910179	Kunzea baxteri	(Klotzsch) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Crimson Kunzea	4
https://id.biodiversity.org.au/node/apni/2910345	Trihaloragis hexandra	(F.Muell.) M.L.Moody & Les	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		4
https://id.biodiversity.org.au/node/apni/2910480	Myriophyllum crispatum	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Upright Milfoil	4
https://id.biodiversity.org.au/node/apni/2911372	Isolepis cyperoides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2911382	Grevillea speciosa	(Knight) McGill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Red Spider Flower	4
https://id.biodiversity.org.au/node/apni/2911613	Gahnia trifida	Labill.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Cutting Grass	4
https://id.biodiversity.org.au/node/apni/2911942	Stylidium rhynchocarpum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Black-beaked Triggerplant	4
https://id.biodiversity.org.au/node/apni/2912425	Amphipogon debilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		4
https://id.biodiversity.org.au/node/apni/2912435	Grevillea leucopteris	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Old Socks	4
https://id.biodiversity.org.au/node/apni/2913581	Lonicera japonica	Thunb.	species	Plantae	Charophyta	Equisetopsida	Dipsacales	Caprifoliaceae	Japanese Honeysuckle	4
https://id.biodiversity.org.au/node/apni/2914002	Hyparrhenia hirta	(L.) Stapf	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Tambookie Grass	4
https://id.biodiversity.org.au/node/apni/2915131	Gastrolobium spinosum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Prickly Poison	4
https://id.biodiversity.org.au/node/apni/2915404	Centratherum punctatum	Cass.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Brazilian Button Flower	4
https://id.biodiversity.org.au/node/apni/2915528	Cenchrus macrourus	(Trin.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	African Feather Grass	4
https://id.biodiversity.org.au/node/apni/2915549	Urospermum picroides	(L.) Scop. ex F.W.Schmidt	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	False Hawkbit	4
https://id.biodiversity.org.au/node/apni/2915808	Acacia sphacelata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2915809	Campsis x tagliabuana	(Vis.) Rehder	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Trumpet Creeper	4
https://id.biodiversity.org.au/node/apni/2916002	Oenothera jamesii	Torr. & A.Gray	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae		4
https://id.biodiversity.org.au/node/apni/2916418	Grevillea vestita	(Endl.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		4
https://id.biodiversity.org.au/node/apni/2917189	Myriocephalus appendiculatus	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		4
https://id.biodiversity.org.au/node/apni/2917192	Hakea ceratophylla	(Sm.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Horned Leaf Hakea	4
https://id.biodiversity.org.au/node/apni/2918187	Asteridea pulverulenta	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Bristle Daisy	4
https://id.biodiversity.org.au/node/apni/2918237	Jacksonia condensata	Crisp & J.R.Wheeler	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		4
https://id.biodiversity.org.au/node/apni/2918415	Schoenus subbulbosus	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4

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https://id.biodiversity.org.au/node/apni/2918542	Euphorbia terracina	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	False Caper	4
https://id.biodiversity.org.au/node/apni/2918776	Watsonia marginata	(L.f.) Ker Gawl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Bordered Watsonia	4
https://id.biodiversity.org.au/node/apni/2918954	Acacia decurrens	Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Early Black-wattle	4
https://id.biodiversity.org.au/node/apni/2919170	Euphorbia peplus	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Cancer Weed	4
https://id.biodiversity.org.au/node/apni/2919217	Lachnagrostis filiformis	(G.Forst.) Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Common Blown-grass	4
https://id.biodiversity.org.au/node/apni/2919289	Dodonaea ceratocarpa	Endl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		4
https://id.biodiversity.org.au/node/apni/2920101	Chamaecytisus palmensis	(Christ) F.A.Bisby & K.W.Nicholls	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tree Lucerne	4
https://id.biodiversity.org.au/node/apni/2920220	Calandrinia liniflora	Fenzl	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Parakeelya	4
https://id.biodiversity.org.au/node/apni/2920458	Schoenus elegans	S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		4
https://id.biodiversity.org.au/node/apni/2920854	Isolepis cernua	(Vahl) Roem. & Schult.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Nodding Club Rush	4
https://id.biodiversity.org.au/node/apni/3588334	Eleocharis keigheryi	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Keighery's Eleocharis	4
https://id.biodiversity.org.au/node/apni/6289292	Conostylis festucacea	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		4
https://id.biodiversity.org.au/node/apni/6986247	Erigeron bonariensis	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Flaxleaf Fleabane	4
https://id.biodiversity.org.au/node/apni/7814427	Grevillea curviloba	McGill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		4
https://id.biodiversity.org.au/node/apni/8453517	Utricularia tenella	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Pink Bladderwort	4
https://id.biodiversity.org.au/node/ausmoss/10073014	Eccremidium arcuatum	(Hook.f. & Wilson) MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Earth Moss	4
https://id.biodiversity.org.au/node/ausmoss/10086019	Grimmia laevigata	(Brid.) Brid.	species	Plantae	Bryophyta	Bryopsida	Grimmiales	Grimmiaceae	Salt And Pepper	4
https://id.biodiversity.org.au/node/ausmoss/10086346	Grimmia pulvinata	(Hedw.) Sm.	species	Plantae	Bryophyta	Bryopsida	Grimmiales	Grimmiaceae		4
https://id.biodiversity.org.au/node/ausmoss/2912228	Fossombronia cerebriformis	G.A.M.Scott & D.C.Pike	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Brainwort	4
https://id.biodiversity.org.au/node/fungi/60091619	Chlorophyllum brunneum	(Farl. & Burt) Vellinga	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		4
https://id.biodiversity.org.au/node/fungi/60095421	Gymnopilus junonius	(Fr.) P.D.Orton	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		4
https://id.biodiversity.org.au/node/fungi/60099129	Pycnoporus coccineus	(Fr.) Bondartsev & Singer	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae		4
https://id.biodiversity.org.au/node/fungi/60103751	Fuligo septica	(L.) F.H.Wigg.	species	Protista	Amoebozoa	Myxogastrea	Physarida	Physaraceae		4
https://id.biodiversity.org.au/node/lichen/30088882	Xanthoparmelia antleriformis	(Elix) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		4
https://id.biodiversity.org.au/taxon/apni/51269064	Verbesina encelioides	(Cav.) Benth. & Hook.f. ex A.Gray	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Crownbeard	4
https://id.biodiversity.org.au/taxon/apni/51291262	Digitaria ciliaris	(Retz.) Koeler	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Summer Grass	4
https://id.biodiversity.org.au/taxon/apni/51291422	Phalaris angusta	Nees ex Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		4
https://id.biodiversity.org.au/taxon/apni/51294359	Stylidium araeophyllum	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Stilt Walker	4
https://id.biodiversity.org.au/taxon/apni/51294410	Stylidium striatum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Fan-leaved Triggerplant	4
https://id.biodiversity.org.au/taxon/apni/51310608	Acacia paradoxa	DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Kangaroo Thorn	4
https://id.biodiversity.org.au/taxon/apni/51399002	Caladenia ferruginea	Nicholls	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Rusty Spider Orchid	4
https://id.biodiversity.org.au/taxon/apni/51399379	Caladenia splendens	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Splendid Spider Orchid	4
https://id.biodiversity.org.au/taxon/apni/51409741	Prasophyllum cyphochilum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pouched Leek Orchid	4
https://id.biodiversity.org.au/taxon/apni/51412234	Pterostylis nana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dwarf Greenhood	4
https://id.biodiversity.org.au/taxon/apni/51414250	Thelymitra canaliculata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Blue Sun Orchid	4
https://id.biodiversity.org.au/taxon/apni/51414364	Thelymitra nuda	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Plain Sun Orchid	4
https://id.biodiversity.org.au/taxon/apni/51429703	Tricoryne humilis	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae		4
https://id.biodiversity.org.au/taxon/apni/51438096	Sparaxis pillansii	L.Bolus	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Harlequin Flower	4
https://id.biodiversity.org.au/taxon/apni/51441703	Eriochilus sp. Roleystone (G.Brockman 1140)		species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae		4
https://id.biodiversity.org.au/taxon/apni/51744770	Monoculus monstrosus	(Burm.f.) B.Nord.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Tripteris	4
NZOR-6-123377	Phacodinium metchnikoffi	(Certes, 1891)	species	Protista	Ciliophora	Spirotrichea	Phacodiniida	Phacodiniidae		3
NZOR-6-31101	Xanthoparmelia metaclystoides	(Kurok. & Filson) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		3
NZOR-6-40364	Cladia aggregata	(Sw.) Nyl.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae	Common Coral-lichen	3
NZOR-6-52611	Puccinia coronata	Corda	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		3
NZOR-6-55751	Xanthoparmelia verrucella	(Essl.) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		3
NZOR-6-73977	Nothoscordum gracile	(Aiton) Stearn	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae		3
NZOR-6-78122	Cladonia cervicornis	(Ach.) Flot.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae	Cup Lichen	3
https://biodiversity.org.au/afd/taxa/0120164e-ebea-4367-863d-0bbf72ad8379	Numenius (Mesoscolopax) minutus	Gould, 1841	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Little Curlew	3
https://biodiversity.org.au/afd/taxa/04404f52-68f5-49fe-b879-10dacbbdb7de	Asadipus kunderang	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/05971198-3c77-43d8-adf7-f58a14c0823b	Polyrhachis (Campomyrma) phryne	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	3
https://biodiversity.org.au/afd/taxa/0947ed77-b443-46e1-9b7d-0b15ce4d2a6c	Icerya purchasi	Maskell, 1879	species	Animalia	Arthropoda	Insecta	Hemiptera	Monophlebidae	Cottony Cushion Scale	3
https://biodiversity.org.au/afd/taxa/0a489981-08f6-4819-9891-3bcb33c54f27	Spodoptera mauritia	(Boisduval, 1833)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae		3
https://biodiversity.org.au/afd/taxa/0c29b165-7dfd-478e-9a3b-371baa59dea3	Australonereis ehlersi	(Augener, 1913)	species	Animalia	Annelida	Polychaeta		Nereididae	Estuarine Bait Worm	3
https://biodiversity.org.au/afd/taxa/0e3cb986-21af-4dae-a912-558bb361f6b9	Melobasis rectipilosa	Levey, 2012	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/10a05291-3acd-4c2f-8c5a-bde2a2b1f01b	Dolichoderus rufotibialis	Clark, 1930	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		3
https://biodiversity.org.au/afd/taxa/18359185-4e14-4e47-ab55-0b92a5a036b3	Amitermes obeuntis	(Silvestri, 1909)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		3
https://biodiversity.org.au/afd/taxa/184e2ad8-9000-42bf-b1f6-161a679afcd5	Stilbopteryx napoleo	(LefÃ¨bvre, 1842)	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae		3
https://biodiversity.org.au/afd/taxa/18fb0aad-dd51-4e28-a5bb-71dfb48a78c0	Tapeigaster paramonovi	McAlpine & Kent, 1982	species	Animalia	Arthropoda	Insecta	Diptera	Heteromyzidae	Fly	3
https://biodiversity.org.au/afd/taxa/19465e79-c34b-4da6-acf1-266d00c7b4d3	Halobaena caerulea	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Procellariiformes	Procellariidae	Blue Petrel	3
https://biodiversity.org.au/afd/taxa/1b3e2bd5-0b41-43cc-8b83-425639f57353	Phanomorpha icelomorpha	(Turner, 1908)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		3
https://biodiversity.org.au/afd/taxa/1ee1766b-a109-4c67-b816-59c620606a7d	Paropsisterna debilis	(Chapuis, 1877)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		3
https://biodiversity.org.au/afd/taxa/21a03741-e847-42c5-87e6-7515ee3d4b68	Isopeda magna	Hirst, 1992	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Huntsman Spider	3
https://biodiversity.org.au/afd/taxa/28663829-709e-4dc3-99c1-7ce68b4c1e8b	Musgraveia sulciventris	(StÃ¥l, 1863)	species	Animalia	Arthropoda	Insecta	Hemiptera	Tessaratomidae	Bronze Orange Bug	3
https://biodiversity.org.au/afd/taxa/2a15ae5b-7938-4bab-89af-040bc1bc7700	Oncocoris apicalis	(Dallas, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	3
https://biodiversity.org.au/afd/taxa/2ec8e91c-ba47-4548-9147-b3887461e15c	Mythimna (Pseudaletia) convecta	(Walker, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Common Armyworm Moth	3
https://biodiversity.org.au/afd/taxa/2f34e183-2260-4d8c-84bb-ef57c66dde1f	Conocephalus (Chloroxiphidion) upoluensis	(Karny, 1907)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		3
https://biodiversity.org.au/afd/taxa/2fa47871-3637-4b3a-bfd8-89750d53e8fa	Arenaria interpres	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Ruddy Turnstone	3
https://biodiversity.org.au/afd/taxa/312f6611-ea11-4fe2-bd34-a60f61cf7c14	Prietocella barbara	(Linnaeus, 1758)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Small Pointed Snail	3
https://biodiversity.org.au/afd/taxa/373313a9-9570-4386-9060-58a73bb77481	Gonipterus citrophagus	Lea, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/383daf29-74b1-40b1-9014-51bbf3af8898	Chlidonias (Chlidonias) leucopterus	(Temminck, 1815)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	White-winged Black Tern	3
https://biodiversity.org.au/afd/taxa/39dcb491-26b8-42bd-bade-f199025506a0	Meyriccia latro	(Zeller, 1873)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	3
https://biodiversity.org.au/afd/taxa/3b2e834b-434e-45fa-aaea-220fd741ce18	Stenosmylus tenuis	(Walker, 1853)	species	Animalia	Arthropoda	Insecta	Neuroptera	Osmylidae	Brown Lacewing	3
https://biodiversity.org.au/afd/taxa/3b6365fd-f3b1-4079-b012-2c072f9bcf2a	Anilicus loricatus	CandÃ¨ze, 1863	species	Animalia	Arthropoda	Insecta	Coleoptera	Elateridae		3
https://biodiversity.org.au/afd/taxa/3c4408af-6088-4850-890b-9952fb44faed	Culex (Culex) annulirostris	Skuse, 1889	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Common Banded Mosquito	3
https://biodiversity.org.au/afd/taxa/3d64be53-c8a6-48dd-b067-b9056bd76372	Theridion pyramidale	L. Koch, 1867	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae		3
https://biodiversity.org.au/afd/taxa/3e5370e0-fe92-4275-abe0-b5cf5d4fbdb4	Hemiergis peronii	(Gray, 1831)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Lowlands Earless Skink	3
https://biodiversity.org.au/afd/taxa/3e6071cc-886f-4bfa-ba71-ccefe29c3563	Zanessa rubrovariegata	Kirkaldy, 1902	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Plant Bug	3
https://biodiversity.org.au/afd/taxa/426f7c7a-fb95-49cc-989d-4fab897aa9d1	Gallus gallus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Red Junglefowl	3
https://biodiversity.org.au/afd/taxa/44048a97-0c9d-47f6-974a-c8e20e35ee72	Catasarcus spinipennis	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/441e4fdd-fedb-44ef-956f-72a0c37e172e	Mallada signatus	(Schneider, 1851)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae	Green Lacewing	3
https://biodiversity.org.au/afd/taxa/45f49e98-84dc-4eb7-b379-1aa2baa882a2	Catasarcus impressipennis	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Redlegged Weevil	3
https://biodiversity.org.au/afd/taxa/48e09a45-e2af-4b68-a012-92fc13a4d09f	Blackbolbus frontalis	(GuÃ©rin-MÃ©neville, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		3
https://biodiversity.org.au/afd/taxa/4a29e778-8bb9-4336-bbc0-5b2c0f2b5d0a	Cormocephalus strigosus	Kraepelin, 1908	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		3
https://biodiversity.org.au/afd/taxa/4a2c0a2c-ca61-4997-a1ae-3e5d869c9998	Myrmecia desertorum	Wheeler, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bull Ant	3
https://biodiversity.org.au/afd/taxa/4b6a7cc9-8846-4d3d-a574-bb60acb9335c	Araneus circulissparsus	(Keyserling, 1887)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	3
https://biodiversity.org.au/afd/taxa/4c6b91d4-58ee-4f6f-bb76-d2178cb1da3c	Aonychus luctuosus	Pascoe, 1872	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/4e18a350-7bfd-4ec6-b0ae-fb07e66066eb	Cybister tripunctatus	(Olivier, 1795)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/4f8a4899-77c3-4386-aadd-91cd264bb032	Ophiusa parcemacula	(T.P. Lucas, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	3
https://biodiversity.org.au/afd/taxa/5166fc12-1bfd-4adf-bd6a-d3628f9bc8d5	Artoria flavimana	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Yellow-handed Forest Runner	3
https://biodiversity.org.au/afd/taxa/520f38e2-b08b-45de-ba8e-3c1ea2f21304	Carcinops (Carcinops) pumilio	(Erichson, 1834)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae	Predacious Hister Beetle	3
https://biodiversity.org.au/afd/taxa/53930942-2452-48ea-9494-bda46232284b	Gryllotalpa monanka	Otte & Alexander, 1983	species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllotalpidae	Dark Night Mole Cricket	3
https://biodiversity.org.au/afd/taxa/56b25185-6748-4161-9fb9-b33ce1f2b70a	Geloptera tuberculata	Baly, 1861	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		3
https://biodiversity.org.au/afd/taxa/58ba8c81-1a56-4f45-a8a0-fc71db73d805	Euoplos inornatus	(Rainbow & Pulleine, 1918)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae	Inornate Trapdoor Spider (northern Jarrah Forest)	3
https://biodiversity.org.au/afd/taxa/590143f6-f894-4a85-962e-f4c5d0630dc9	Nesidovelia peramoena	(Hale, 1925)	species	Animalia	Arthropoda	Insecta	Hemiptera	Veliidae	Riffle Bug	3
https://biodiversity.org.au/afd/taxa/5b10883a-c1d2-40bb-a8c4-2608f118737b	Palaemonetes australis	Dakin, 1915	species	Animalia	Arthropoda	Malacostraca	Decapoda	Palaemonidae	Shrimp	3
https://biodiversity.org.au/afd/taxa/5c1e8868-d577-4d81-afeb-7082a773f073	Rhipicera (Agathorhipis) reichei	GuÃ©rin-MÃ©neville, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Rhipiceridae		3
https://biodiversity.org.au/afd/taxa/5c845241-e00c-4761-a10a-446f73542b0e	Ctenotus gemmula	Storr, 1974	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Jewelled Sandplain Ctenotus	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/5f10759b-120d-4fc7-a726-9beba1e71010	Eucyclodes buprestaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Bordered Emerald	3
https://biodiversity.org.au/afd/taxa/6223329a-2506-4dec-b8d3-74180605b770	Synothele durokoppin	Raven, 1994	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		3
https://biodiversity.org.au/afd/taxa/6476145d-ace2-4c7c-ad0e-7c0f424728ff	Morethia lineoocellata	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	West Coast Morethia Skink	3
https://biodiversity.org.au/afd/taxa/65441a04-e79c-4d39-8cb3-e2c5d1e738e4	Neosparassus calligaster	(Thorell, 1870)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Huntsman Spider	3
https://biodiversity.org.au/afd/taxa/65fddb92-b360-4148-a2d3-c7bef955b321	Dingosa serrata	(L. Koch, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	3
https://biodiversity.org.au/afd/taxa/666b4abe-5b24-424d-b3d5-585a46c1ed3e	Sandalodes superbus	(Karsch, 1878)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Jumping Spider	3
https://biodiversity.org.au/afd/taxa/69bb2340-d214-48bd-8b07-31bd2083ce84	Phonognatha melania	(L. Koch, 1871)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		3
https://biodiversity.org.au/afd/taxa/6a9fa450-e819-4c2f-912c-acef335ef3b1	Procordulia affinis	(Selys, 1871)	species	Animalia	Arthropoda	Insecta	Odonata	Corduliidae	Western Swamp Emerald	3
https://biodiversity.org.au/afd/taxa/6d1aeef1-b551-4b14-9136-7b66c7078aa2	Sphenarches anisodactylus	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae		3
https://biodiversity.org.au/afd/taxa/6fc52f95-2870-46ee-a735-edaccc9ed1ef	Xenostrobus securis	(Lamarck, 1819)	species	Animalia	Mollusca	Bivalvia	Mytilida	Mytilidae	Little Brown Mussel	3
https://biodiversity.org.au/afd/taxa/7033613a-175e-4c6d-b588-c178c181cd7c	Camponotus cinereus	Mayr, 1876	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Mallee Black Sugar Ant	3
https://biodiversity.org.au/afd/taxa/716f3c48-65fe-4fd2-8ae3-e12a6b9e272f	Chlamydopsis inquilina	Lewis, 1885	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		3
https://biodiversity.org.au/afd/taxa/768fc522-cdb2-47fb-8d83-ba89ac62f77e	Anous tenuirostris	(Temminck, 1823)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Lesser Noddy	3
https://biodiversity.org.au/afd/taxa/77135229-9379-4e48-872f-9d453ce12eb9	Frankliniella occidentalis	(Pergande, 1895)	species	Animalia	Arthropoda	Insecta	Thysanoptera	Thripidae	Western Flower Thrips	3
https://biodiversity.org.au/afd/taxa/795759eb-1311-4fdc-9c77-d120fe3fe1e5	Hydrophilus (Hydrophilus) latipalpus	Castelnau, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Large Water Beetle	3
https://biodiversity.org.au/afd/taxa/7b537819-13c2-4974-969e-c95c6b00201d	Melanodryas (Melanodryas) cucullata	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Petroicidae	Hooded Robin	3
https://biodiversity.org.au/afd/taxa/7b636ab5-e3e4-4c70-b39e-4edac05fb21a	Hylaeus (Rhodohylaeus) proximus	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3
https://biodiversity.org.au/afd/taxa/7c306f93-0f29-439f-9331-8437ae917ab2	Xederra gwynnei	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		3
https://biodiversity.org.au/afd/taxa/7dace421-a63b-43b3-9599-fb638fdc603b	Sphex fumipennis	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		3
https://biodiversity.org.au/afd/taxa/7e6f280b-1869-4b45-8cda-9e85e232fde2	Bothriembryon (Bothriembryon) bulla	(Menke, 1843)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		3
https://biodiversity.org.au/afd/taxa/7eb4fd6b-d734-4aec-8479-dd95e2cfa7bf	Colymbomorpha vittata	Britton, 1959	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Spring Beetle	3
https://biodiversity.org.au/afd/taxa/818816c1-4ecb-46d4-9c6c-6221017d1dac	Glenoleon osmyloides	(Gerstaecker, 1885)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		3
https://biodiversity.org.au/afd/taxa/81b56db9-b213-4021-8da4-9211d9991442	Catasarcus asphaltinus	Thompson, 1968	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/8271b6c5-bcc4-461e-bb3a-a686080a895a	Egernia napoleonis	(Gray, 1838)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	South-western Crevice-skink	3
https://biodiversity.org.au/afd/taxa/82933e92-4a6e-4c68-ad04-c879c4e91ce5	Castiarina sanguinolenta	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/872642c1-0c9b-43df-9a01-5c85c58f3fbd	Merimna atrata	(Gory & Laporte, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae	Fire Beetle	3
https://biodiversity.org.au/afd/taxa/894eebde-7708-4d07-816c-44705f21b23b	Limbodessus inornatus	(Sharp, 1882)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/8af958df-95ab-4fa8-9468-3df275de414b	Pimelopus nothus	Burmeister, 1847	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		3
https://biodiversity.org.au/afd/taxa/8c26f157-5a75-4c27-8866-a9375718eebf	Urnisa rugosa	de Saussure, 1884	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		3
https://biodiversity.org.au/afd/taxa/8c4b3f88-1b80-47a9-9253-72752cec9e40	Archaeosynthemis leachii	(Selys, 1871)	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Twinspot Tigertail	3
https://biodiversity.org.au/afd/taxa/8e4bd073-9dae-4ec0-b1f8-d82286cdeb7e	Eristalinus (Lathyrophthalmus) punctulatus	(Macquart, 1847)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Native Drone Fly	3
https://biodiversity.org.au/afd/taxa/8f78ddbe-507e-4bf1-b136-c2417608d81a	Bothriomutilla rugicollis	(Westwood, 1843)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Mutillidae		3
https://biodiversity.org.au/afd/taxa/8f97f5a0-d09b-4bab-bf72-a7ca598482c1	Gryllotalpa pluvialis	(MjÃ¶berg, 1913)	species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllotalpidae		3
https://biodiversity.org.au/afd/taxa/928f9b98-d671-4c9d-8ffc-0698b21271f9	Pollanisus cupreus	Walker, 1854	species	Animalia	Arthropoda	Insecta	Lepidoptera	Zygaenidae		3
https://biodiversity.org.au/afd/taxa/933d9577-360e-41a3-8b6d-c58f7915dcfc	Melanozosteria obscura	(Tepper, 1893)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Cockroach	3
https://biodiversity.org.au/afd/taxa/9372ffa6-b5d5-4445-a117-8848bd9a8db9	Leucania diatrecta	Butler, 1886	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Dark-barred Wainscot	3
https://biodiversity.org.au/afd/taxa/9433b5cc-6e48-4f6f-bc00-0a32b394cd82	Wingia aurata	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Golden Leaf Moth	3
https://biodiversity.org.au/afd/taxa/95fdd700-ab8c-4be1-a7ea-0d8b663c90fc	Culex (Culex) australicus	Dobrotworsky & Drummond, 1953	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Australian House Mosquito	3
https://biodiversity.org.au/afd/taxa/960a92a7-4ffd-4c97-a0ff-499972640aa4	Camponotus terebrans	(Lowne, 1865)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Brown Bearded Sugar Ant	3
https://biodiversity.org.au/afd/taxa/96bf9e24-0480-4eec-920a-792ce5676569	Austrolestes io	(Selys, 1862)	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Iota Ringtail	3
https://biodiversity.org.au/afd/taxa/97b364bd-8144-48d7-aeef-6c4f8a1a30bd	Arachnura higginsi	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Scorpion Tailed Spider	3
https://biodiversity.org.au/afd/taxa/97c6160f-903b-4e12-88f3-d16bce3dc9bb	Turnix (Alphaturnia) velox	(Gould, 1841)	species	Animalia	Chordata	Aves	Turniciformes	Turnicidae	Little Button-quail	3
https://biodiversity.org.au/afd/taxa/9853b9e2-9bac-4068-a384-d9aed06d8b16	Ctenotus impar	Storr, 1969	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Odd-striped Ctenotus	3
https://biodiversity.org.au/afd/taxa/98fc76ef-ed4e-45fb-ab12-93666966aa8c	Heliothis punctifera	Walker, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	3
https://biodiversity.org.au/afd/taxa/9d1f8e18-31f1-434e-963e-1aac866a18a3	Arthritica semen	(Menke, 1843)	species	Animalia	Mollusca	Bivalvia	Cardiida	Lasaeidae	Mound Springs Mussel	3
https://biodiversity.org.au/afd/taxa/9d3d787b-1a6d-49f7-8d57-f063bb66df00	Lampropholis delicata	(De Vis, 1888)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Dark-flecked Garden Sunskink	3
https://biodiversity.org.au/afd/taxa/9eb3842d-26f6-4f33-a84c-ed04d524b0cc	Craspedoplax variabilis	(H. Adams & Angas, 1864)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Acanthochitonidae		3
https://biodiversity.org.au/afd/taxa/9ef64a31-2ba4-4a76-8334-f038b40ea381	Anthomyia punctipennis	Wiedemann, 1830	species	Animalia	Arthropoda	Insecta	Diptera	Anthomyiidae	Fly	3
https://biodiversity.org.au/afd/taxa/a0758ac2-d01d-4593-bb18-06846b47b1e3	Cernuella virgata	(Da Costa, 1778)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Vineyard Snail	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/a081c2de-aa17-49ca-a4ff-e7e78e447b31	Cyclosa trilobata	(Urquhart, 1885)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Three Lobed Spider	3
https://biodiversity.org.au/afd/taxa/a5757f21-b709-4e34-9904-a5e58b32700b	Hellyethira litua	Wells, 1979	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	3
https://biodiversity.org.au/afd/taxa/a63f8b9c-d378-4bc5-a6cc-9b65b50ea7a0	Acanthiza (Geobasileus) uropygialis	Gould, 1838	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Chestnut-rumped Thornbill	3
https://biodiversity.org.au/afd/taxa/a874274e-07dc-416a-b25e-99bd9633aaf3	Euryglossa rubricata	Smith, 1879	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3
https://biodiversity.org.au/afd/taxa/abf2af2e-941a-4d1a-b6da-861c0d8d7003	Tiracerus duboulayi	(Waterhouse, 1864)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		3
https://biodiversity.org.au/afd/taxa/ac463aa3-eb82-4d5c-af5c-61c44b7dbb33	Pachyprosopis (Pachyprosopis) haematostoma	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3
https://biodiversity.org.au/afd/taxa/ac67791b-5e52-4a7f-acfc-e07e28b16a54	Zonioploca pallida	Shelford, 1909	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		3
https://biodiversity.org.au/afd/taxa/ae56080e-4e73-457d-93a1-0be6a1d50f34	Malurus (Malurus) cyaneus	(Ellis, 1782)	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Superb Fairy-wren	3
https://biodiversity.org.au/afd/taxa/afcfd026-3915-4d62-9cf5-f8042055fd55	Epicyrtica oostigma	(Turner, 1929)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		3
https://biodiversity.org.au/afd/taxa/b19c31b6-db31-4e0b-b92a-aafbcebbd5e8	Dicax cephalotes	Fauvel, 1878	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		3
https://biodiversity.org.au/afd/taxa/b200510f-c3f7-4a51-a22e-ed0b58d9bd15	Spectrotrota fimbrialis	Warren, 1891	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	3
https://biodiversity.org.au/afd/taxa/b2496ba9-f04d-4983-b5e4-66ab6b37935a	Anachloris uncinata	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	3
https://biodiversity.org.au/afd/taxa/b32f831c-79bf-44f8-ace3-f7e0140ab09f	Lerista lineata	Bell, 1833	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Perth Slider	3
https://biodiversity.org.au/afd/taxa/b6a5b715-df02-430e-940a-d1a67f392b63	Nycterephes coracopa	Turner, 1906	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		3
https://biodiversity.org.au/afd/taxa/ba1babd0-8422-4129-bb33-51d9fa18ea99	Thallarcha eremicola	Pescott, 1951	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		3
https://biodiversity.org.au/afd/taxa/ba2e5761-2348-4b28-87bf-3a7137fb424b	Stomorhina subapicalis	(Macquart, 1847)	species	Animalia	Arthropoda	Insecta	Diptera	Rhiniidae	Blow Fly	3
https://biodiversity.org.au/afd/taxa/bde957d4-9876-45b4-be00-b223c7d95a3e	Necterosoma undecimlineatum	(Babington, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/beaaadce-092f-4143-9bb5-965f1741e271	Decienus sphasodes	Pascoe, 1873	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/c19269de-2a8f-48e4-b838-f10d31335c78	Poliaspis nitens	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		3
https://biodiversity.org.au/afd/taxa/c1cbc4ca-5b2a-4329-a9a8-b00181054bdb	Garrha oncospila	(Turner, 1946)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		3
https://biodiversity.org.au/afd/taxa/c237e01c-1e79-4bb0-9b54-00fe6c84421e	Chrysodeixis eriosoma	(Doubleday, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Green Looper Moth	3
https://biodiversity.org.au/afd/taxa/c2a587b7-2091-4e74-9637-8d896db83164	Lasioglossum (Parasphecodes) lichatum	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		3
https://biodiversity.org.au/afd/taxa/c2abad6a-b416-4300-875b-f412f4f67f5c	Phalacrinus umbratus	Blackburn, 1902	species	Animalia	Arthropoda	Insecta	Coleoptera	Phalacridae		3
https://biodiversity.org.au/afd/taxa/c3db9c89-1e8a-43ed-ae75-357e7f0d0f0a	Culex (Neoculex) latus	Dobrotworsky, 1956	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae		3
https://biodiversity.org.au/afd/taxa/c3f85f86-be9b-4d51-9fff-6be0a416bc50	Neocuris discoflava	Fairmaire, 1877	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/c461a291-1853-4588-bf8d-547d46d3af53	Megachile ferox	Smith, 1879	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	3
https://biodiversity.org.au/afd/taxa/c6eaf329-6dde-4220-b4fa-6bcb8294b5bf	Lioponera brevis	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		3
https://biodiversity.org.au/afd/taxa/cab281ba-f166-4fc2-bd1d-36ad059c9946	Sondra aurea	(L. Koch, 1880)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		3
https://biodiversity.org.au/afd/taxa/cdb5e630-7450-48d6-b7fa-59d2f47259a6	Novakiella trituberculosa	(Roewer, 1942)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	3
https://biodiversity.org.au/afd/taxa/ceb735ff-60b9-4d69-93b3-b4bda6f5930e	Aedriodes nodipennis	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		3
https://biodiversity.org.au/afd/taxa/cec9b490-3fb0-47d9-a5fe-6c65ad316335	Sphex modestus	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		3
https://biodiversity.org.au/afd/taxa/cf20257c-15d5-4102-92d6-bf967fa7ac66	Perga christii	Westwood, 1880	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	3
https://biodiversity.org.au/afd/taxa/d1f0b96c-7d32-405d-8d1a-d07110909369	Tetranychus evansi	Baker & Pritchard, 1960	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Tetranychidae	Tomato Red Spider Mite	3
https://biodiversity.org.au/afd/taxa/d45055e0-0db3-40ad-b421-76bdb7f0859f	Melobasis regalis	Carter, 1923	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/d65742aa-b0e4-4961-b2de-5801773b0cdb	Anthela varia	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Anthelidae	Lappet Moth	3
https://biodiversity.org.au/afd/taxa/da5968bc-6406-41bd-af91-52aea31ed9a4	Phoracantha punctata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		3
https://biodiversity.org.au/afd/taxa/dd33af1e-19e7-4fcd-9485-8726d84a664e	Darwinocoris australicus	Slater, 1962	species	Animalia	Arthropoda	Insecta	Hemiptera	Pachygronthidae		3
https://biodiversity.org.au/afd/taxa/ddb5feb3-b2ec-49fb-8623-bdae82518257	Paederus meyricki	Blackburn, 1891	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		3
https://biodiversity.org.au/afd/taxa/dead8e60-8756-4563-9fbe-93c7ed83bed3	Coracina (Pteropodocys) maxima	(RÃ¼ppell, 1839)	species	Animalia	Chordata	Aves	Passeriformes	Campephagidae	Ground Cuckoo-shrike	3
https://biodiversity.org.au/afd/taxa/e1d15b68-77f2-4aee-9700-c50e7371cb90	Alpheus euphrosyne	de Man, 1897	species	Animalia	Arthropoda	Malacostraca	Decapoda	Alpheidae		3
https://biodiversity.org.au/afd/taxa/e2717954-7da9-48e0-8850-70ebd9987c22	Oxyethira (Trichoglene) retracta	Wells, 1981	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	3
https://biodiversity.org.au/afd/taxa/e290c38c-be5b-45e6-b031-b29a3ed293ef	Chrysopasta elegans	(Macquart, 1846)	species	Animalia	Arthropoda	Insecta	Diptera	Tachinidae		3
https://biodiversity.org.au/afd/taxa/e4d2e8d1-ef4b-4754-aa4a-4890cbed19c6	Naupactus cervinus	Boheman, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Fuller's Rose Weevil	3
https://biodiversity.org.au/afd/taxa/e53bf0ab-d0aa-468b-bcbc-26a7ac911110	Ecnolagria aeneoviolacea	(Champion, 1895)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		3
https://biodiversity.org.au/afd/taxa/e628d7f1-f1b4-41ca-bdad-f9c83f5773b2	Lasioglossum (Chilalictus) occiduum	Walker, 1999	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		3
https://biodiversity.org.au/afd/taxa/e62dbf80-13b0-465f-8706-b667dd5ba2a0	Heteropternis obscurella	(Blanchard, 1853)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		3
https://biodiversity.org.au/afd/taxa/e667825e-8c15-4026-951a-8308e2408ed7	Agapophytus annamariae	Winterton & Irwin, 2001	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		3
https://biodiversity.org.au/afd/taxa/e73fc62b-de69-427d-a7b8-c89fa2063665	Melanozosteria fulva	Princis, 1954	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		3
https://biodiversity.org.au/afd/taxa/e7d3accb-9518-4626-a134-1274dcb5e419	Synechocera elongata	Thomson, 1879	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		3
https://biodiversity.org.au/afd/taxa/f05e4133-2784-42a1-8507-e34d53f707d6	Prionyx globosus	(Smith, 1856)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae	Wasp	3
https://biodiversity.org.au/afd/taxa/f18785ad-b806-42e0-9bcd-8aee456360a6	Leioproctus (Lamprocolletes) chalybeatus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/f4112526-84ba-4407-8fc0-aebf9c89c461	Ambicodamus kochi	Harvey, 1995	species	Animalia	Arthropoda	Arachnida	Araneae	Nicodamidae		3
https://biodiversity.org.au/afd/taxa/f660c6e6-0c6d-41d4-9ecf-e59f3535205c	Platynectes (Platynectes) aenescens	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	3
https://biodiversity.org.au/afd/taxa/f6f6d149-b76d-4e58-aa3c-7f9406175b45	Monopis icterogastra	(Zeller, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tineidae	Wool Moth	3
https://biodiversity.org.au/afd/taxa/f747ca2d-7a60-4390-ae1b-3fe2d6270cc2	Hylaeus (Macrohylaeus) alcyoneus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Species Of Yellowfaced Bee	3
https://biodiversity.org.au/afd/taxa/f85bdff9-9db3-4ef2-b636-d22dd7aee827	Ocirrhoe inconspicua	(Dallas, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	3
https://biodiversity.org.au/afd/taxa/fc6053da-0825-4ba6-ac56-40997ffa6c30	Theba pisana	(MÃ¼ller, 1774)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Helicidae	White Italian Snail	3
https://biodiversity.org.au/afd/taxa/fd887322-79d1-42f2-8190-abb54e4bb39d	Earias paralella	T.P. Lucas, 1898	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae	Tuft Moth	3
https://biodiversity.org.au/afd/taxa/fe80ca2f-f41d-4d5b-b2d1-b1197f8764ec	Agrotis porphyricollis	GuenÃ©e, 1852	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	3
https://id.biodiversity.org.au/name/apni/51682635	Hypocalymma suave	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Tall White Myrtle	3
https://id.biodiversity.org.au/node/apni/2886205	Tremulina tremula	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Quivery Cord Rush	3
https://id.biodiversity.org.au/node/apni/2887024	Stylidium ecorne	(F.Muell. ex F.L.Erickson & J.H.Willis) P.G.Farrell & S.H.James	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Foot Triggerplant	3
https://id.biodiversity.org.au/node/apni/2888587	Myriocephalus occidentalis	(F.Muell.) P.S.Short	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/node/apni/2888798	Andersonia longifolia	(Benth.) L.Watson	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		3
https://id.biodiversity.org.au/node/apni/2889233	Oxalis debilis	Kunth	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Pink Shamrock	3
https://id.biodiversity.org.au/node/apni/2890064	Myriophyllum limnophilum	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2890441	Stylidium bicolor	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Northern Sandplain Triggerplant	3
https://id.biodiversity.org.au/node/apni/2890640	Hibbertia polystachya	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		3
https://id.biodiversity.org.au/node/apni/2890840	Callitris acuminata	(Parl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae		3
https://id.biodiversity.org.au/node/apni/2891073	Isolepis stellata	(C.B.Clarke) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Star Club-rush	3
https://id.biodiversity.org.au/node/apni/2891074	Melaleuca aspalathoides	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		3
https://id.biodiversity.org.au/node/apni/2891182	Linum marginale	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Linaceae	Native Flax	3
https://id.biodiversity.org.au/node/apni/2891952	Podolepis nutans	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/node/apni/2892423	Digitaria longiflora	(Retz.) Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Digitaria	3
https://id.biodiversity.org.au/node/apni/2892570	Pultenaea ochreata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2893048	Cyperus vorsteri	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2893781	Triglochin striata	Ruiz & Pav.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Streaked Arrowgrass	3
https://id.biodiversity.org.au/node/apni/2894260	Triglochin nana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Dwarf Arrowgrass	3
https://id.biodiversity.org.au/node/apni/2894435	Comesperma volubile	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Love Creeper	3
https://id.biodiversity.org.au/node/apni/2894665	Gastrolobium bilobum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Heart-leaved Poison	3
https://id.biodiversity.org.au/node/apni/2894677	Typha orientalis	C.Presl	species	Plantae	Charophyta	Equisetopsida	Poales	Typhaceae	Bullrush	3
https://id.biodiversity.org.au/node/apni/2894708	Allocasuarina microstachya	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae		3
https://id.biodiversity.org.au/node/apni/2894970	Schoenoplectus tabernaemontani	(C.C.Gmel.) Palla	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	River Club-rush	3
https://id.biodiversity.org.au/node/apni/2895388	Samolus repens	(J.R.Forst. & G.Forst.) Pers.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae	Creeping Brookweed	3
https://id.biodiversity.org.au/node/apni/2895570	Astartea affinis	(Endl.) Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	West-coast Astartea	3
https://id.biodiversity.org.au/node/apni/2896169	Adiantum aethiopicum	L.	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Common Maidenhair	3
https://id.biodiversity.org.au/node/apni/2896899	Amphipogon laguroides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		3
https://id.biodiversity.org.au/node/apni/2897222	Darwinia apiculata	N.G.Marchant	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Scarp Darwinia	3
https://id.biodiversity.org.au/node/apni/2897264	Brachyscome glandulosa	(Steetz) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Sticky Daisy	3
https://id.biodiversity.org.au/node/apni/2897449	Erodium cygnorum	Nees	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Erodium	3
https://id.biodiversity.org.au/node/apni/2897463	Borya scirpoidea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae		3
https://id.biodiversity.org.au/node/apni/2897938	Lemna disperma	Hegelm.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Common Duckweed	3
https://id.biodiversity.org.au/node/apni/2898177	Leucopogon racemulosus	DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		3
https://id.biodiversity.org.au/node/apni/2899160	Indigofera australis	Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Australian Indigo	3
https://id.biodiversity.org.au/node/apni/2899597	Phylloglossum drummondii	Kunze	species	Plantae	Charophyta	Equisetopsida	Lycopodiales	Lycopodiaceae	Pigmy Clubmoss	3
https://id.biodiversity.org.au/node/apni/2899734	Isolepis oldfieldiana	(S.T.Blake) K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2899812	Nerium oleander	L.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Oleander	3
https://id.biodiversity.org.au/node/apni/2899846	Astartea leptophylla	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	River-bank Astartea	3
https://id.biodiversity.org.au/node/apni/2900162	Lepyrodia curvescens	B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		3
https://id.biodiversity.org.au/node/apni/2900289	Adenanthos sericeus	Labill.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Coastal Woollybush	3
https://id.biodiversity.org.au/node/apni/2900587	Spyridium globulosum	(Labill.) Benth.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Basket Bush	3
https://id.biodiversity.org.au/node/apni/2901308	Setaria parviflora	(Poir.) Kerguelen	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Pigeon Grass	3
https://id.biodiversity.org.au/node/apni/2901311	Hibbertia amplexicaulis	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2901642	Cycnogeton huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae		3
https://id.biodiversity.org.au/node/apni/2901856	Rubus laciniatus	Willd.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Blackberry	3
https://id.biodiversity.org.au/node/apni/2902158	Stenanthemum tridentatum	(Steud.) Reissek	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		3
https://id.biodiversity.org.au/node/apni/2902615	Gonocarpus nodulosus	Nees	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2902759	Austrostipa semibarbata	(R.Br.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Fibrous Spear-grass	3
https://id.biodiversity.org.au/node/apni/2902839	Jacksonia angulata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2902871	Rhodanthe pygmaea	(DC.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pigmy Daisy	3
https://id.biodiversity.org.au/node/apni/2903310	Conospermum capitatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2903567	Pimelea lehmanniana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		3
https://id.biodiversity.org.au/node/apni/2903669	Centrolepis cephaloformis	Reader	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		3
https://id.biodiversity.org.au/node/apni/2903693	Callistemon viminalis	(Sol. ex Gaertn.) G.Don	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Creek Bottlebrush	3
https://id.biodiversity.org.au/node/apni/2904031	Samolus junceus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae		3
https://id.biodiversity.org.au/node/apni/2904060	Schoenus caespititius	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tufted Bog-rush	3
https://id.biodiversity.org.au/node/apni/2904130	Goodenia pulchella	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		3
https://id.biodiversity.org.au/node/apni/2904382	Centrolepis glabra	(F.Muell. ex Sond.) Hieron.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae	Smooth Centrolepis	3
https://id.biodiversity.org.au/node/apni/2904829	Verticordia picta	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	China Cups	3
https://id.biodiversity.org.au/node/apni/2905546	Caesia occidentalis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pale Grass Lily	3
https://id.biodiversity.org.au/node/apni/2906045	Campsis radicans	(L.) Seem. ex Bureau	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae		3
https://id.biodiversity.org.au/node/apni/2906198	Schoenus plumosus	Rye	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2906385	Erythrina x sykesii	Barneby & Krukoff	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Thorny Coral Tree	3
https://id.biodiversity.org.au/node/apni/2906711	Ehrharta brevifolia	Schrad.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Veldt Grass	3
https://id.biodiversity.org.au/node/apni/2907105	Sporobolus africanus	(Poir.) Robyns & Tournay	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Rat-tail Grass	3
https://id.biodiversity.org.au/node/apni/2907602	Jacksonia gracillima	Chappill	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2907696	Angianthus micropodioides	(Benth.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/node/apni/2907819	Vitis vinifera	L.	species	Plantae	Charophyta	Equisetopsida	Vitales	Vitaceae	Grape Vine	3
https://id.biodiversity.org.au/node/apni/2907896	Kunzea praestans	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		3
https://id.biodiversity.org.au/node/apni/2908504	Pimelea rosea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Rose Banjine	3
https://id.biodiversity.org.au/node/apni/2908539	Schoenus variicellae	Rye	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/node/apni/2909633	Conospermum canaliculatum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2910012	Olax benthamiana	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Olacaceae		3
https://id.biodiversity.org.au/node/apni/2910276	Juncus planifolius	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Broad-leaf Rush	3
https://id.biodiversity.org.au/node/apni/2910494	Melaleuca armillaris	(Sol. ex Gaertn.) Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Giant Honey Myrtle	3
https://id.biodiversity.org.au/node/apni/2910636	Vallisneria nana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Vallisneria	3
https://id.biodiversity.org.au/node/apni/2911351	Velleia trinervis	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		3
https://id.biodiversity.org.au/node/apni/2911428	Lepidosperma sieberi	Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spreading Sword-sedge	3
https://id.biodiversity.org.au/node/apni/2912478	Stachystemon sp. Keysbrook (R.Archer 17/11/99)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Picrodendraceae		3
https://id.biodiversity.org.au/node/apni/2913117	Calytrix sapphirina	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		3
https://id.biodiversity.org.au/node/apni/2913225	Cassia fistula	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Golden Shower	3
https://id.biodiversity.org.au/node/apni/2913361	Hydrocotyle alata	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Apiales	Araliaceae		3
https://id.biodiversity.org.au/node/apni/2913538	Lepidium rotundum	(Desv.) DC.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Veined Peppercress	3
https://id.biodiversity.org.au/node/apni/2914146	Haemodorum sparsiflorum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Mardja	3
https://id.biodiversity.org.au/node/apni/2914831	Gratiola peruviana	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Austral Brooklime	3
https://id.biodiversity.org.au/node/apni/2915119	Templetonia drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/apni/2915504	Goodenia incana	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Hoary Goodenia	3
https://id.biodiversity.org.au/node/apni/2915591	Centrolepis alepyroides	(Nees) Walp.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		3
https://id.biodiversity.org.au/node/apni/2916194	Petrophile juncifolia	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2916341	Acacia denticulosa	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sandpaper Wattle	3
https://id.biodiversity.org.au/node/apni/2916565	Tecoma capensis	(Thunb.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Cape Honeysuckle	3
https://id.biodiversity.org.au/node/apni/2916688	Sagina apetala	Ard.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Common Pearlwort	3
https://id.biodiversity.org.au/node/apni/2917056	Meionectes tenuifolia	(Benth.) M.L.Moody & Les	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2917330	Luzula meridionalis	H.Nordensk.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Common Wood-rush	3
https://id.biodiversity.org.au/node/apni/2918442	Utricularia volubilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Twining Bladderwort	3
https://id.biodiversity.org.au/node/apni/2918908	Acacia glaucoptera	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Clay Wattle	3
https://id.biodiversity.org.au/node/apni/2919624	Hemigenia argentea	Bartl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		3
https://id.biodiversity.org.au/node/apni/2919773	Cyperus eragrostis	Lam.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Drain Flat-sedge	3

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https://id.biodiversity.org.au/node/apni/2919993	Pandorea jasminoides	(G.Don) K.Schum.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Bower Vine	3
https://id.biodiversity.org.au/node/apni/2920009	Ptychosema pusillum	Benth. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Dwarf Pea	3
https://id.biodiversity.org.au/node/apni/2920093	Sida fibulifera	Lindl.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Pin Sida	3
https://id.biodiversity.org.au/node/apni/2920325	Grevillea crithmifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2920423	Grevillea pimeleoides	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		3
https://id.biodiversity.org.au/node/apni/2920461	Oxalis exilis	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Short-fruit Oxalis	3
https://id.biodiversity.org.au/node/apni/2920492	Gonocarpus paniculatus	(Benth.) Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		3
https://id.biodiversity.org.au/node/apni/2920725	Hemigenia sericea	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Silky Hemigenia	3
https://id.biodiversity.org.au/node/apni/4335051	Ptilotus pyramidatus	(Moq.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Pyramid Mullamulla	3
https://id.biodiversity.org.au/node/apni/7061040	Pseudognaphalium luteoalbum	(L.) Hilliard & B.L.Burtt	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Jersey Cudweed	3
https://id.biodiversity.org.au/node/apni/7194281	Euphorbia drummondii	Boiss.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Mat Spurge	3
https://id.biodiversity.org.au/node/apni/7775640	Sorghum bicolor	(L.) Moench	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Grain Sorghum	3
https://id.biodiversity.org.au/node/apni/7867056	Azolla rubra	R.Br.	species	Plantae	Charophyta	Equisetopsida	Salviniales	Salviniaceae	Pacific Azolla	3
https://id.biodiversity.org.au/node/apni/7990061	Stylidium roseoalatum	F.L.Erickson & J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pink-winged Triggerplant	3
https://id.biodiversity.org.au/node/apni/8506340	Daviesia gracilis	Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/node/ausmoss/10104031	Pleuridium ecklonii	(Mitt.) Snider	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae		3
https://id.biodiversity.org.au/node/ausmoss/10129376	Gemmabryum pachytheca	(MÃ¼ll.Hal.) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Acorn-fruited Thread-moss	3
https://id.biodiversity.org.au/node/ausmoss/2919920	Riccia bifurca	Hoffm.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Lizard Crystalwort	3
https://id.biodiversity.org.au/node/fungi/60091529	Agaricus xanthodermus	Genev.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Yellow Stainer	3
https://id.biodiversity.org.au/node/fungi/60091909	Leucocoprinus birnbaumii	(Corda) Singer	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		3
https://id.biodiversity.org.au/node/fungi/60093425	Fistulina hepatica	(Schaeff.) With.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Fistulinaceae		3
https://id.biodiversity.org.au/node/fungi/60095449	Gymnopilus purpuratus	(Cooke & Massee) Singer	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		3
https://id.biodiversity.org.au/node/fungi/60095661	Pholiota drummondii	(Berk.) Pegler	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		3
https://id.biodiversity.org.au/node/fungi/60096317	Austroboletus occidentalis	Watling & N.M.Greg.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		3
https://id.biodiversity.org.au/node/fungi/60096449	Boletus sinapecruentus	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		3
https://id.biodiversity.org.au/node/fungi/60096945	Scleroderma cepa	Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae		3
https://id.biodiversity.org.au/node/fungi/60098939	Phaeotrametes decipiens	(Berk.) Lloyd ex J.E.Wright	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae		3
https://id.biodiversity.org.au/node/fungi/60099241	Trametes versicolor	(L.) Lloyd	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae	Turkey-tail	3
https://id.biodiversity.org.au/node/fungi/60099693	Russula erumpens	Cleland & Cheel	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		3
https://id.biodiversity.org.au/node/fungi/60101241	Uromycladium tepperianum	(Sacc.) McAlpine	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pileolariaceae		3
https://id.biodiversity.org.au/node/fungi/60101939	Tilletia viennotii	Syd.	species	Fungi	Basidiomycota	Exobasidiomycetes	Tilletiales	Tilletiaceae		3
https://id.biodiversity.org.au/node/fungi/60104095	Ceratiomyxa fruticulosa	(O.F.MÃ¼ll.) T.Macbr.	species	Protista	Amoebozoa	Protostelea	Protostelida	Ceratiomyxaceae	Honeycomb Coral Slime Mold	3
https://id.biodiversity.org.au/taxon/apni/51266598	Narcissus tazetta	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Amaryllidaceae	Polyanthus Narcissus	3
https://id.biodiversity.org.au/taxon/apni/51268021	Centaurea melitensis	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Maltese Cockspur	3
https://id.biodiversity.org.au/taxon/apni/51268572	Leontodon rhagadioloides	(L.) Enke & Zidorn	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Hedypnois	3
https://id.biodiversity.org.au/taxon/apni/51268985	Solidago chilensis	Meyen	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Brazilian Arnica	3
https://id.biodiversity.org.au/taxon/apni/51269204	Spathodea campanulata	P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	West African Tulip Tree	3
https://id.biodiversity.org.au/taxon/apni/51269943	Canna x generalis	L.H.Bailey	species	Plantae	Charophyta	Equisetopsida	Zingiberales	Cannaceae	Canna	3
https://id.biodiversity.org.au/taxon/apni/51283567	Drosera indumenta	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		3
https://id.biodiversity.org.au/taxon/apni/51283596	Drosera micra	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		3
https://id.biodiversity.org.au/taxon/apni/51290626	Prasophyllum cuneatum	D.L.Jones & G.Brockman	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Wedge Leek Orchid	3
https://id.biodiversity.org.au/taxon/apni/51291363	Hordeum hystrix	Roth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Mediterranean Barley-grass	3
https://id.biodiversity.org.au/taxon/apni/51291653	Muehlenbeckia polybotrya	Meisn.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae		3
https://id.biodiversity.org.au/taxon/apni/51294367	Stylidium hesperium	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Western Reed Triggerplant	3
https://id.biodiversity.org.au/taxon/apni/51300007	Cotula cotuloides	(Steetz) Druce	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Smooth Cotula	3
https://id.biodiversity.org.au/taxon/apni/51300341	Rhodanthe chlorocephala	(Turcz.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/taxon/apni/51312751	Drosera marchantii	DeBuhr	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Bridal Rainbow	3
https://id.biodiversity.org.au/taxon/apni/51399000	Caladenia falcata	(Nicholls) M.A.Clem. & Hopper	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Green Spider Orchid	3
https://id.biodiversity.org.au/taxon/apni/51400251	Calochilus stramenicola	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Wandoo Beard Orchid	3
https://id.biodiversity.org.au/taxon/apni/51401348	Cyrtostylis huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Midge Orchid	3
https://id.biodiversity.org.au/taxon/apni/51404189	Diuris carinata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Bee Orchid	3
https://id.biodiversity.org.au/taxon/apni/51404219	Diuris emarginata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Late Donkey Orchid	3

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51409707	Prasophyllum brownii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Christmas Leek Orchid	3
https://id.biodiversity.org.au/taxon/apni/51414248	Thelymitra campanulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Shirt Orchid	3
https://id.biodiversity.org.au/taxon/apni/51414440	Thelymitra vulgaris	Jeanes	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Sun Orchid	3
https://id.biodiversity.org.au/taxon/apni/51429596	Swainsona canescens	(Benth. ex Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Grey Swainson-pea	3
https://id.biodiversity.org.au/taxon/apni/51432117	Erigeron sumatrensis	Retz.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Tall Fleabane	3
https://id.biodiversity.org.au/taxon/apni/51434552	Machaerina arthrophylla	(Nees) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Baumea	3
https://id.biodiversity.org.au/taxon/apni/51434579	Machaerina juncea	(R.Br.) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Bare Twig-rush	3
https://id.biodiversity.org.au/taxon/apni/51434593	Machaerina laxa	(Nees) T.Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Lax Twig-rush	3
https://id.biodiversity.org.au/taxon/apni/51434627	Machaerina preissii	(Nees) L.A.S.Johnson & T. Koyama	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		3
https://id.biodiversity.org.au/taxon/apni/51435519	Beyeria lechenaultii	(DC.) Baill.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Pale Turpentine-bush	3
https://id.biodiversity.org.au/taxon/apni/51436112	Gastrolobium retusum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		3
https://id.biodiversity.org.au/taxon/apni/51436514	Acacia cochlearis	(Labill.) H.L.Wendl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Rigid Wattle	3
https://id.biodiversity.org.au/taxon/apni/51437552	Haemodorum loratum	T.D.Macfarl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		3
https://id.biodiversity.org.au/taxon/apni/51438395	Cassytha pubescens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Downy Dodder-laurel	3
https://id.biodiversity.org.au/taxon/apni/51439689	Corymbia ficifolia	(F.Muell.) K.D.Hill & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Red-flowering Gum	3
https://id.biodiversity.org.au/taxon/apni/51440334	Rinzia crassifolia	Turcz.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Darling Range Rinzia	3
https://id.biodiversity.org.au/taxon/apni/51440862	Epilobium billardiereanum	Ser.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Variable Willow-herb	3
https://id.biodiversity.org.au/taxon/apni/51442674	Eragrostis cilianensis	(All.) Vignolo ex Janch.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lovegrass	3
https://id.biodiversity.org.au/taxon/apni/51442740	Lachnagrostis plebeia	(R.Br.) Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Coarse Blowngrass	3
https://id.biodiversity.org.au/taxon/apni/51446415	Malus domestica	(Suckow) Borkh.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Apple	3
https://id.biodiversity.org.au/taxon/apni/51462044	Podolepis aristata	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/taxon/apni/51695391	Hyalosperma glutinosum	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		3
https://id.biodiversity.org.au/taxon/apni/51696571	Vitex trifolia	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Beach Vitex	3
https://id.biodiversity.org.au/taxon/apni/51726301	Grevillea preissii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Spider Net Grevillea	3
https://id.biodiversity.org.au/taxon/apni/51735708	Alternanthera denticulata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Lesser Joyweed	3
https://id.biodiversity.org.au/taxon/apni/51743538	Euchiton sphaericus	(Willd.) Holub	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Cudweed	3
https://id.biodiversity.org.au/taxon/ausmoss/10154625	Fissidens megalotis	Schimp. ex MÃ¼ll.Hal.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Curly Pocket-moss	3
ALA_DR22913_870	Steatoda triangulosa		species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Triangulate Bud Spider	2
NZOR-6-106546	Xanthoparmelia flavescentireagens	(Gyeln.) D.J.Galloway	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-106961	Cladia schizopora	(Nyl.) Nyl.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		2
NZOR-6-125271	Paraporpidia leptocarpa	(Nyl.) Rambold & Hertel	species	Fungi	Ascomycota	Lecanoromycetes	Lecideales	Porpidiaceae		2
NZOR-6-12872	Cladia muelleri	(Hampe) Parnmen & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		2
NZOR-6-134199	Paraporpidia glauca	(Taylor) Rambold	species	Fungi	Ascomycota	Lecanoromycetes	Lecideales	Porpidiaceae		2
NZOR-6-21961	Xanthoparmelia amplexula	(Stirt.) Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-2359	Xanthoparmelia notata	(Kurok.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-25217	Tubulicrinis calothrix	(Pat.) Donk	species	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Hymenochaetaceae		2
NZOR-6-26299	Bartramia stricta	Brid.	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae		2
NZOR-6-30899	Thysanothecium scutellatum	(Fr.) D.J.Galloway	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		2
NZOR-6-38820	Pediastrum duplex	Meyen	species	Plantae	Chlorophyta	Chlorophyceae	Chlorococcales	Hydrodictyaceae	Green Microalga	2
NZOR-6-39489	Psora crystallifera	(Taylor) MÃ¼ll.Arg.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Physciaceae		2
NZOR-6-40053	Trichia crateriformis	G.W. Martin	species	Protista	Amoebozoa	Myxogastrea	Trichiida	Trichiaceae		2
NZOR-6-53387	Cryptococcus gattii	(Vanbreus. & Takashio) Kwon-Chung & Boekhout	species	Fungi	Basidiomycota	Tremellomycetes	Tremellales	Tremellaceae		2
NZOR-6-55950	Diplocarpon mespili	(Sorauer) B. Sutton	species	Fungi	Ascomycota	Leotiomycetes	Helotiales	Dermateaceae		2
NZOR-6-61826	Citrullus lanatus	(Thunb.) Matsum. & Nakai	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Camel Melon	2
NZOR-6-66105	Buellia homophylia	(C.Knight) Zahlbr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Physciaceae		2
NZOR-6-85163	Eutypella citricola	Speg., 1898	species	Fungi	Ascomycota	Sordariomycetes	Xylariales	Diatrypaceae		2
NZOR-6-8578	Xanthoparmelia xanthomelaena	(MÃ¼ll.Arg.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
NZOR-6-98323	Phaeohelotium undulatum	Baral, R. Galan & R. Tena	species	Fungi	Ascomycota	Leotiomycetes	Helotiales	Helotiaceae		2
https://biodiversity.org.au/afd/taxa/00ca4509-b346-4749-aff4-cf5e16c9a7e9	Hesperoedura reticulata	(Bustard, 1969)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Reticulated Velvet Gecko	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/011a81cd-6cc5-4c51-8106-2a5dda16a9d1	Megachile (Chalicodomoides) aethiops	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		2
https://biodiversity.org.au/afd/taxa/031eb198-85f9-48a8-824e-5d370df8c3ea	Casbia rectaria	Walker, 1866	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/04c593e5-86aa-41ea-ba76-38d9576ca6ae	Gerres subfasciatus	Cuvier, 1830	species	Animalia	Chordata	Actinopterygii	Perciformes	Gerreidae	Common Silverbiddy	2
https://biodiversity.org.au/afd/taxa/057d6fe4-d2ea-40f7-8b90-4e0f9e7ff665	Coptotermes acinaciformis	(Froggatt, 1898)	species	Animalia	Arthropoda	Insecta	Blattodea	Rhinotermitidae	Subterranean Termite	2
https://biodiversity.org.au/afd/taxa/07dd3637-6c43-4a94-a983-7c4a2d86fdf8	Apiomorpha munita	(Schrader, 1863)	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae	Felt Scale Insect	2
https://biodiversity.org.au/afd/taxa/09cf0906-bf05-4678-a652-d38b7657c2fe	Pheidole antipodum	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/0b488763-6bba-4502-8cc9-364cb97319ad	Hypobapta tachyhalotaria	Hausmann, Sommerer, Rougerie & Hebert, 2009	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/0c2a87a0-37ec-4fdc-82dd-95809b933370	Calochrysa extranea	(Esben-Petersen, 1917)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		2
https://biodiversity.org.au/afd/taxa/0e647393-fbcb-470a-994f-068aebecfceb	Rostratula australis	(Gould, 1838)	species	Animalia	Chordata	Aves	Charadriiformes	Rostratulidae	Australian Painted Snipe	2
https://biodiversity.org.au/afd/taxa/0f93e4c0-5239-42d4-934e-33699fe81774	Anischys luteovarius	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Acanthosomatidae	Shield Bug	2
https://biodiversity.org.au/afd/taxa/0feb2ee4-75fe-4a58-9a70-520b489a38ae	Ischnochiton (Autochiton) virgatus	(Reeve, 1848)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		2
https://biodiversity.org.au/afd/taxa/10291c9b-8838-4814-82df-621a6e24ca3e	Artoriopsis eccentrica	Framenau, 2007	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	2
https://biodiversity.org.au/afd/taxa/115dba46-0725-4c43-b1a9-826353ec5a20	Sphex cognatus	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		2
https://biodiversity.org.au/afd/taxa/124663d8-5fcb-41c7-a1a1-7684666d45dd	Perga schiodtei	Westwood, 1880	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae		2
https://biodiversity.org.au/afd/taxa/125b31ca-2272-4354-96a5-9378c94e1e4a	Maratus michaelseni	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/132c56b5-d6e7-414d-9d11-76a9a1153543	Mutusca brevicornis	(Dallas, 1852)	species	Animalia	Arthropoda	Insecta	Hemiptera	Alydidae	Broad-headed Bug	2
https://biodiversity.org.au/afd/taxa/14498669-20db-425e-a1ae-0b216004acd7	Ischnochiton (Ischnochiton) elongatus	(Blainville, 1825)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		2
https://biodiversity.org.au/afd/taxa/1462cee2-d70e-490a-828f-c096d633943e	Psychopsis mimica	Newman, 1842	species	Animalia	Arthropoda	Insecta	Neuroptera	Psychopsidae		2
https://biodiversity.org.au/afd/taxa/1494e01c-a2ab-47d4-92fc-9dbdcb053016	Paropsis geographica	Baly, 1866	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/16ac4ef9-4b82-486f-8f77-61d9135c1f54	Eupeodes (Macrosyrphus) confrater	(Wiedemann, 1830)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		2
https://biodiversity.org.au/afd/taxa/16df7f9d-0926-434b-ba7d-527fb517850f	Euryglossina (Euryglossina) lynettae	(Rayment, 1955)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/175f8ced-fb8e-46f1-939a-16657169f7b9	Scopula sublinearia	(Walker, 1866)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/18ce1fc8-3045-4136-8a45-f5c94d2ef96f	Acanthopagrus butcheri	(Munro, 1949)	species	Animalia	Chordata	Actinopterygii	Perciformes	Sparidae	Black Bream	2
https://biodiversity.org.au/afd/taxa/1a6bc12f-2692-4b5d-a743-9f6488ff6993	Alcaeus lignicolor	Walker, 1867	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	2
https://biodiversity.org.au/afd/taxa/1af2276a-f00a-4985-8af9-1e6595aca0ed	Nephila pilipes	(Fabricius, 1793)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Giant Wood-spider	2
https://biodiversity.org.au/afd/taxa/1b2b899d-fb07-42ca-89d1-df1dead540b4	Polyzosteria cuprea	Saussure, 1863	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/1d662d0e-95ed-4fbc-8c17-be793e3d300f	Cygnus olor	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Mute Swan	2
https://biodiversity.org.au/afd/taxa/1e3e13fa-ae40-4962-bf58-7c110e98e12b	Nyllius asperatus	StÃ¥l, 1859	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae		2
https://biodiversity.org.au/afd/taxa/1f1634bf-7fe5-4198-b6c4-d1e449578690	Pelororhinus crassus	Blackburn, 1892	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Horse-nosed Weevil	2
https://biodiversity.org.au/afd/taxa/20366a2e-d1dd-4a72-9c4a-574b72ce1333	Hortophora transmarina	(Keyserling, 1865)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/208f08d6-08c1-4a4f-bff3-23407f094174	Nisista notodontaria	Walker, 1860	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/215e78cc-1a38-42eb-b2be-10f384551158	Unixenus attemsi	Nguyen Duy-Jacquemin & CondÃ©, 1967	species	Animalia	Arthropoda	Diplopoda	Polyxenida	Polyxenidae		2
https://biodiversity.org.au/afd/taxa/21d77c3f-e18a-4d8b-ae77-2cc3d0a9d6e9	Masasteron mas	(JocquÃ©, 1991)	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae	Ant Spider	2
https://biodiversity.org.au/afd/taxa/22c519a0-6ada-4589-b4a2-e99dfe0e59d8	Ctenoplusia albostriata	(Bremer & Grey, 1853)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae		2
https://biodiversity.org.au/afd/taxa/24c21411-d78c-415d-a848-f0abb83b615a	Platalea (Platalea) regia	Gould, 1838	species	Animalia	Chordata	Aves	Ciconiiformes	Threskiornithidae	Royal Spoonbill	2
https://biodiversity.org.au/afd/taxa/24c67cec-7ed0-475f-8106-7de443f2a059	Melobasis sexplagiata	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/267a88c1-c1e2-498c-bbfb-47f6fc6956bb	Colobopsis gasseri	(Forel, 1894)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/2750f911-a2ef-44ab-a726-c12298cfaacc	Antiporus hollingsworthi	Watts, 1997	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae		2
https://biodiversity.org.au/afd/taxa/27654b34-2642-47a3-b70e-9ae7ba37a857	Chalinolobus morio	(J.E. Gray, 1841)	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Chocolate Wattled Bat	2
https://biodiversity.org.au/afd/taxa/2803a6a4-1911-4441-be94-c7c30505e44e	Pomatostomus (Morganornis) superciliosus	(Vigors & Horsfield, 1827)	species	Animalia	Chordata	Aves	Passeriformes	Pomatostomidae	White-browed Babbler	2
https://biodiversity.org.au/afd/taxa/28b4606f-1d98-4d0b-bd95-5d100792fd91	Williamsita manifestata	(Turner, 1915)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		2
https://biodiversity.org.au/afd/taxa/29dadb84-8bde-410f-a621-838468de471d	Ligyra cingulata	(Wulp, 1885)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		2
https://biodiversity.org.au/afd/taxa/29e7a46f-f067-4a43-aecf-8a164fac3e4e	Brachyurophis fasciolatus	(GÃ¼nther, 1872)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Narrow-banded Shovel-nosed Snake	2
https://biodiversity.org.au/afd/taxa/2b04f62e-59c0-44e7-92a9-605efc204ba7	Monoctenia smerintharia	Felder & Rogenhofer, 1875	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Dark Leaf Moth	2
https://biodiversity.org.au/afd/taxa/2b5a549b-91f5-4f3b-b95a-5a95f9864194	Theristria rieki	Lambkin, 1986	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		2
https://biodiversity.org.au/afd/taxa/2c57687d-234e-4b7c-b557-57773afab1aa	Syllitus tabidus	Pascoe, 1871	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/2c656f7f-76e6-48e9-9d7d-ce94f7fc64b8	Caridina indistincta	Calman, 1926	species	Animalia	Arthropoda	Malacostraca	Decapoda	Atyidae	Freshwater Shrimp	2
https://biodiversity.org.au/afd/taxa/2df0b623-0614-4655-8b03-3ed620603c71	Parapsilocephala frontalis	(KrÃ¶ber, 1912)	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/2e2fc888-ea54-47c1-9b34-45825bc830d0	Siphanta acuta	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Flatidae	Green Planthopper	2
https://biodiversity.org.au/afd/taxa/2eb53c4d-a293-4a33-a1ac-277a385a8bd4	Cuspicona simplex	Walker, 1867	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Green Potato Bug	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/32d826d7-b0df-4969-85f2-29b34a6aadb8	Chrysis impostor	MocsÃ¡ry, 1887	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		2
https://biodiversity.org.au/afd/taxa/33c5fa84-076b-4c8c-bd36-bccc7da67f7b	Trapezites argenteoornatus	(Hewitson, 1868)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Silver-spotted Skipper	2
https://biodiversity.org.au/afd/taxa/340b0c41-f809-48ed-ab11-96324150bb09	Myrmecia tepperi	Emery, 1898	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bucktoothed Bull Ant	2
https://biodiversity.org.au/afd/taxa/34a7d9e6-6841-4bd5-a08c-9b6deff1d5d6	Callipappus farinosus	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Callipappidae		2
https://biodiversity.org.au/afd/taxa/361c724c-0281-4544-81ae-508abeb9647b	Astraeus (Astraeus) flavopictus	Laporte & Gory, 1837	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/362fdb55-25d0-4f22-a4ba-d9f232421d76	Hyles livornicoides	(T.P. Lucas, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Sphingidae	Whitelined Hawk Moth	2
https://biodiversity.org.au/afd/taxa/37076260-bbd1-4850-8077-ed2372db1d52	Iridomyrmex chasei	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/37b02e04-e785-4d10-80bc-884778546415	Gonolabis woodwardi	Burr, 1908	species	Animalia	Arthropoda	Insecta	Dermaptera	Anisolabididae		2
https://biodiversity.org.au/afd/taxa/38d46ddf-c4c9-47e9-bc2f-040cad0b8bc7	Ceratitis capitata	(Wiedemann, 1824)	species	Animalia	Arthropoda	Insecta	Diptera	Tephritidae	Medfly	2
https://biodiversity.org.au/afd/taxa/38eed9c6-3461-4f19-9505-5bef5a21606f	Aspidiotus nerii	BouchÃ©, 1833	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae	Ivy Scale	2
https://biodiversity.org.au/afd/taxa/390bb87e-bf1b-4261-bdaa-bc8d07db76ce	Lepturidea occidentalis	(Blackburn, 1891)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		2
https://biodiversity.org.au/afd/taxa/39505c08-30cc-4288-9ecd-e6020bb948a1	Cercartetus concinnus	(Gould, 1845)	species	Animalia	Chordata	Mammalia	Diprotodontia	Burramyidae	Western Pygmy-possum	2
https://biodiversity.org.au/afd/taxa/39c742b1-995e-42ae-b23b-8d318c99b1cf	Oenochroma pallida	Warren, 1898	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/39d10a65-b06e-4acd-89f7-eef17edda1af	Porcellionides pruinosus	(Brandt, 1833)	species	Animalia	Arthropoda	Malacostraca	Isopoda	Porcellionidae		2
https://biodiversity.org.au/afd/taxa/39d75a99-00bb-4f61-b828-fee07b2a5ad5	Thynnus pulchralis	Smith, 1859	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		2
https://biodiversity.org.au/afd/taxa/39ef4fbe-9676-4a9f-9330-327a4315b8ac	Dingosa murata	Framenau & Baehr, 2007	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae	Wolf Spider	2
https://biodiversity.org.au/afd/taxa/3c0b1e29-2ac5-4ff2-a6e1-73d368ae2753	Euzosteria lata	Mackerras, 1965	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/3c7d43b8-fd9c-481d-9939-b1ac5b70f4d5	Kapunda troughtoni	(Distant, 1910)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Variable Shield Bug	2
https://biodiversity.org.au/afd/taxa/3c9021e9-5319-42e5-95ea-0a21889de974	Tapeigaster nigricornis	(Macquart, 1851)	species	Animalia	Arthropoda	Insecta	Diptera	Heteromyzidae	Fly	2
https://biodiversity.org.au/afd/taxa/3db50e7b-dd77-4987-afa7-543d077e95ac	Limacus flavus	(Linnaeus, 1758)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae	Yellow Cellar Slug	2
https://biodiversity.org.au/afd/taxa/3e3ceb5b-8ad5-4d46-b238-48b5e8f36bf8	Suta nigriceps	(GÃ¼nther, 1863)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Mitchell's Short-tailed Snake	2
https://biodiversity.org.au/afd/taxa/3e52278d-42f9-44db-9586-82e8267f2f24	Lycosa ariadnae	McKay, 1979	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		2
https://biodiversity.org.au/afd/taxa/3e965e97-4f98-40bd-bb72-efafd9f93e4f	Megachile rufolobata	Cockerell, 1913	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		2
https://biodiversity.org.au/afd/taxa/3f6b4cd7-592b-4cc3-aecb-d11642836ad3	Lampona brevipes	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		2
https://biodiversity.org.au/afd/taxa/3f738e26-7d59-4878-8436-ddf94ae0e662	Megachile (Rhodomegachile) deanii	Rayment, 1935	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		2
https://biodiversity.org.au/afd/taxa/40de4fe8-f73c-47e4-a982-25b24437ee5d	Sphex formosellus	van der Vecht, 1957	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		2
https://biodiversity.org.au/afd/taxa/43600036-0bfd-4cf9-bb16-c6b28fdbb377	Myrmecia urens	Lowne, 1865	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Baby Bull Ant	2
https://biodiversity.org.au/afd/taxa/45506d3a-f0a9-42d4-8b0f-3af63ebf22a1	Nysius vinitor	Bergroth, 1891	species	Animalia	Arthropoda	Insecta	Hemiptera	Lygaeidae	Rutherglen Bug	2
https://biodiversity.org.au/afd/taxa/458318db-a0c0-4e3c-94d8-53039c5f3ba6	Nanexila armeniacum	Winterton & Irwin, 1999	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/460f5b70-28df-4f40-b120-bdc61b08990a	Mecyclothorax (Mecyclothorax) punctipennis	(Macleay, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		2
https://biodiversity.org.au/afd/taxa/46306d30-cfa1-4528-906b-cae2e9c5c0e8	Vanellus (Lobipluvia) miles	(Boddaert, 1783)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Masked Lapwing	2
https://biodiversity.org.au/afd/taxa/46b7236e-c41f-4148-847b-31e64fc5c789	Milvus migrans	(Boddaert, 1783)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Black Kite	2
https://biodiversity.org.au/afd/taxa/46d5eed0-3d80-4d46-9114-3ad170982193	Pseudosuccinea columella	(Say, 1817)	species	Animalia	Mollusca	Gastropoda		Lymnaeidae	Striated Pond Snail	2
https://biodiversity.org.au/afd/taxa/4750c68e-007d-4ded-ba91-c87fd4a751fe	Withius piger	(Simon, 1878)	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Withiidae		2
https://biodiversity.org.au/afd/taxa/47da66c3-9b6f-405e-8d7e-6a98183dc1b1	Melanozosteria subinclusa	(Princis, 1966)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/486655ac-9826-4629-8d86-bb7de0e9fc3c	Acupalpa dolichorhyncha	Winterton, 2011	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/49a31f74-a891-4f2a-a301-48909305ec68	Eleale reichei	(Spinola, 1844)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		2
https://biodiversity.org.au/afd/taxa/4a54a9d8-b2fe-4885-868c-c0be9e812d3b	Monomorium fieldi	Forel, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Little Black Mono Ant	2
https://biodiversity.org.au/afd/taxa/4ce54a4c-1e96-47fc-bf00-95b2740388f3	Hydroptila losida	Mosely, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	2
https://biodiversity.org.au/afd/taxa/4d1ac502-b2dd-42d6-8594-9b4bdd8b031e	Paralastor occidentalis	Perkins, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		2
https://biodiversity.org.au/afd/taxa/4d4bffe8-6ebf-456a-afc7-4bf3b925a8cb	Parascolaimus brevisetus	Hourston & Warwick, 2011	species	Animalia	Nematoda	Chromadorea	Monhysterida	Axonolaimidae		2
https://biodiversity.org.au/afd/taxa/4d9e0149-ff93-4808-ae26-d1506c3b0d28	Dinophalus bathrosema	(Prout, 1911)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/4e6444ca-82b4-43f3-acea-0cc2e1edef4c	Aleyrodes proletella	(Linneaus, 1758)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aleyrodidae	Whitefly	2
https://biodiversity.org.au/afd/taxa/4e854a33-0826-4ef0-86a2-a9d996453002	Taenogerella nigrapicalis	(Mann, 1928)	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae	Stiletto Fly	2
https://biodiversity.org.au/afd/taxa/4eeb2e0b-c08a-4fc5-8956-6830f70cab38	Hesperilla donnysa	Hewitson, 1868	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Varied Sedge-skipper	2
https://biodiversity.org.au/afd/taxa/4f327985-3668-4c66-8fd5-67f291918126	Tharpyna campestrata	L. Koch, 1874	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	2
https://biodiversity.org.au/afd/taxa/4f5ab623-d62d-4df2-9cad-05a3857a5988	Etiella chrysoporella	Meyrick, 1879	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	2
https://biodiversity.org.au/afd/taxa/5062fed7-5347-4632-8e96-15e2e31fa5aa	Rhytidoponera foveolata	Crawley, 1925	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/5093c51f-d856-459c-ac0b-bd72f39eeaca	Geotria australis	Gray, 1851	species	Animalia	Chordata		Petromyzontiformes	Geotriidae	Pouch Lamprey	2
https://biodiversity.org.au/afd/taxa/51d984c5-2c66-4914-9b86-dd219c858560	Amblyomma fimbriatum	Koch, 1844	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		2
https://biodiversity.org.au/afd/taxa/5230b25e-16cb-4800-9548-0319899ea233	Notonecta (Enitharonecta) handlirschi	Kirkaldy, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Notonectidae	Backswimmer	2
https://biodiversity.org.au/afd/taxa/52f4272d-6d31-4bee-bc8a-bc658e0030eb	Tiracerus bipartitus	(Raffray, 1900)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/56720da5-179b-47fa-bf5c-30d87d8384ed	Austronomus australis	(J.E. Gray, 1838)	species	Animalia	Chordata	Mammalia	Chiroptera	Molossidae	White-striped Freetail-bat	2
https://biodiversity.org.au/afd/taxa/570290dc-c175-46d0-9c5c-7446068cb01e	Parathelandros maini	Inglis, 1968	species	Animalia	Nematoda	Chromadorea	Spirurida	Pharyngodonidae		2
https://biodiversity.org.au/afd/taxa/59c2b9e3-61d6-4b9a-aa7f-11ea63821870	Hellyethira malleoforma	Wells, 1979	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Caddisfly	2
https://biodiversity.org.au/afd/taxa/59e82e98-687a-4498-95d0-6d45d42a14ac	Camponotus rufus	Crawley, 1925	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/5aa24b0f-1c97-4bb0-b8c5-a0696a796d7d	Rubria informis	(Kirkaldy, 1906)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	2
https://biodiversity.org.au/afd/taxa/5acf09e2-44c5-4a7b-9d8b-4e285110dca2	Callomelitta antipodes	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/5c372f0e-d257-4cdb-b558-f1383c53c3ee	Ardenna pacifica	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Procellariiformes	Procellariidae	Wedge-tailed Shearwater	2
https://biodiversity.org.au/afd/taxa/5cc13781-b672-463e-909b-909a8813f915	Temognatha bruckii	(Thomson, 1878)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/5ce40890-05fd-4f55-a62d-872d5cdf7567	Dicranolaius bellulus	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Melyridae	Red And Blue Beetle	2
https://biodiversity.org.au/afd/taxa/5cec64e4-8896-4473-9d46-f4ab08237c22	Cuspicona cygniterrae	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		2
https://biodiversity.org.au/afd/taxa/5cff3e97-ac5d-40cf-9b4c-d1d248b1c439	Araneus eburneiventris	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/5e01cb65-7243-4988-b0f9-461af9fc8d0a	Nabis (Tropiconabis) kinbergii	Reuter, 1872	species	Animalia	Arthropoda	Insecta	Hemiptera	Nabidae	Pacific Damsel Bug	2
https://biodiversity.org.au/afd/taxa/5e0ef3d9-24f1-4769-8bc7-5c0e249aee74	Dictyotus caenosus	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Brown Shield Bug	2
https://biodiversity.org.au/afd/taxa/5f6bc245-a9c9-4310-a27b-65355262299b	Aedes (Ochlerotatus) vigilax	(Skuse, 1889)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Black Bush-mosquito	2
https://biodiversity.org.au/afd/taxa/620d2713-5d09-4770-b6ab-1cf52145e6c2	Rhinotia melanocephala	(Boheman, 1839)	species	Animalia	Arthropoda	Insecta	Coleoptera	Belidae		2
https://biodiversity.org.au/afd/taxa/6241dbfb-be39-489c-871b-d015710a8e94	Isala palliolata	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		2
https://biodiversity.org.au/afd/taxa/64680109-7a87-4e1c-870b-2ef54d359de0	Anabarhynchus spinosus	Lyneborg, 2001	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/64bbd521-e1ad-4768-9c40-bce5f6630095	Heterotermes platycephalus	Froggatt, 1897	species	Animalia	Arthropoda	Insecta	Blattodea	Rhinotermitidae		2
https://biodiversity.org.au/afd/taxa/64c70778-de1a-45ad-a1e3-4e1a3c7efc5f	Phaulacridium vittatum	(SjÃ¶stedt, 1920)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Wingless Grasshopper	2
https://biodiversity.org.au/afd/taxa/65010c48-3882-4bbc-be99-6b3e286f1b96	Urocentrum turbo	MÃ¼ller, 1786	species	Protista	Ciliophora	Oligohymenophorea	Peniculida	Urocentridae		2
https://biodiversity.org.au/afd/taxa/66e5e0cc-bbcb-41cd-8cf2-859d6310eb30	Diphucrania tyrrhena	(Carter, 1923)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/67515890-92af-4c56-9349-ab5fc58aef78	Noongara issoides	(Distant, 1905)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		2
https://biodiversity.org.au/afd/taxa/6867e3d4-e6c7-4c6c-928a-b32f5f905c96	Paropsisterna decolorata	(Chapuis, 1877)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/68942162-d312-4934-b633-aee95c166e00	Neophoca cinerea	(PÃ©ron, 1816)	species	Animalia	Chordata	Mammalia	Carnivora	Otariidae	Australian Sea-lion	2
https://biodiversity.org.au/afd/taxa/694a8fde-c6b1-4947-bae1-801541614999	Circus assimilis	Jardine & Selby, 1828	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Spotted Harrier	2
https://biodiversity.org.au/afd/taxa/6995f7a1-f7ba-4a9a-8293-b72d85328f6c	Malurus (Leggeornis) pulcherrimus	Gould, 1844	species	Animalia	Chordata	Aves	Passeriformes	Maluridae	Blue-breasted Fairy-wren	2
https://biodiversity.org.au/afd/taxa/69a82c67-5b1a-4411-9fde-f6625bf2dcbd	Meranoplus oceanicus	Smith, 1862	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/6a6c553c-0a70-4a44-8cca-a80b30e27e08	Lioponera clarus	(Clark, 1930)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/6a7fcc1a-2447-411a-97b1-648432872683	Astenus (Astenus) indicus	(Kraatz, 1859)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2
https://biodiversity.org.au/afd/taxa/6b57c1e7-5996-46e2-a21c-c6edbdc1a8ed	Ardozyga catarrhacta	(Meyrick, 1904)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gelechiidae		2
https://biodiversity.org.au/afd/taxa/7343b302-c8f0-42e2-b7f5-e4a26042ba48	Amarinus laevis	(Targioni Tozzetti, 1877)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Hymenosomatidae	Estuarine Spider Crab	2
https://biodiversity.org.au/afd/taxa/7361418f-6c31-47c3-9975-171c924b37e8	Icerya acaciae	(Morrison & Morrison, 1923)	species	Animalia	Arthropoda	Insecta	Hemiptera	Monophlebidae		2
https://biodiversity.org.au/afd/taxa/737198bf-0ca6-43e1-a428-f9e0f257f5c3	Chalcites osculans	Gould, 1847	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Black-eared Cuckoo	2
https://biodiversity.org.au/afd/taxa/741d7a82-42fa-4e10-9983-b972f7bc2963	Cleobora mellyi	(Mulsant, 1850)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Southern Ladybird	2
https://biodiversity.org.au/afd/taxa/7461ad03-4c20-485f-b0f2-b90f8ed8257a	Xederra squamiger	Ander, 1938	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		2
https://biodiversity.org.au/afd/taxa/747b1f24-ddf5-438a-ac5e-b174c30a64e2	Myrmecia nigriceps	Mayr, 1862	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Bullant	2
https://biodiversity.org.au/afd/taxa/74d644fd-a8c9-4d49-9c91-978b6de7797c	Ixodes fecialis	Warburton & Nuttall, 1909	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		2
https://biodiversity.org.au/afd/taxa/74eab0f4-2fce-4374-b772-2965eb7fcc94	Dolophones conifera	(Keyserling, 1886)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/7641c494-49bb-49e8-b2ee-89e4fe430a3f	Litoria infrafrenata	(GÃ¼nther, 1867)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	White-lipped Tree Frog	2
https://biodiversity.org.au/afd/taxa/76da646c-b4af-4438-be45-19fb1902bff6	Ischnochiton (Ischnochiton) lineolatus	(Blainville, 1825)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		2
https://biodiversity.org.au/afd/taxa/79066b7d-cc60-4665-b1ce-fbacbd95a2ae	Iridomyrmex discors	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/797fbfbd-a7e1-4ac7-a030-540caf6f29b2	Drosophila (Sophophora) melanogaster	Meigen, 1830	species	Animalia	Arthropoda	Insecta	Diptera	Drosophilidae		2
https://biodiversity.org.au/afd/taxa/7a4fca39-a032-4f13-8764-d39911ca72a5	Macrobrachium australiense	Holthuis, 1950	species	Animalia	Arthropoda	Malacostraca	Decapoda	Palaemonidae	Freshwater Prawn	2
https://biodiversity.org.au/afd/taxa/7c1392ff-c0bc-43b8-87a5-889f43887b43	Sericophorus relucens	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	2
https://biodiversity.org.au/afd/taxa/7dddc8c7-cbc2-4f5f-878b-2136873a5f89	Horistothrips australiae	Morgan, 1913	species	Animalia	Arthropoda	Insecta	Thysanoptera	Phlaeothripidae		2
https://biodiversity.org.au/afd/taxa/7f6e1013-9cb4-403d-a913-0e2cb0913d60	Iridomyrmex mjobergi	Forel, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/7fe9fdf6-a0d6-46d4-8a33-ccc0a3c11074	Labiobulura (Labiobulura) inglisi	(Mawson, 1960)	species	Animalia	Nematoda	Chromadorea	Spirurida	Subuluridae		2
https://biodiversity.org.au/afd/taxa/80a78c62-166b-4fa4-897b-aede8aeacb66	Pungalina albobarbata	(L. Koch, 1879)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/810174f7-a7ce-4844-9b66-23c4d6148fd3	Iridomyrmex bicknelli	Emery, 1898	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Black Trail Ant	2
https://biodiversity.org.au/afd/taxa/821d1856-e616-43d3-9a05-46d3b7d5695c	Dolichoderus clusor	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/824f963d-e953-410a-806b-b9a27f3d29af	Myandra cambridgei	Simon, 1887	species	Animalia	Arthropoda	Arachnida	Araneae	Prodidomidae	Long-spinneret Ground Spider	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/84b2e7c5-484a-432b-8653-3be1ea41eae1	Temognatha secularis	(Thomson, 1857)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/84e61fe7-0965-4673-871f-14dc25f48f7e	Agathodes ostentalis	(Geyer, 1837)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		2
https://biodiversity.org.au/afd/taxa/864ada43-ba7c-452f-9851-ad6ccb5fb1c8	Platycephalus westraliae	(Whitley, 1938)	species	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae		2
https://biodiversity.org.au/afd/taxa/87d165e8-aad1-419d-a6b4-244105bb5981	Amorbus alternatus	Dallas, 1852	species	Animalia	Arthropoda	Insecta	Hemiptera	Coreidae	Leaf-footed Bug	2
https://biodiversity.org.au/afd/taxa/87f4e8aa-7338-4510-9c60-1e13073f364a	Blattella germanica	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattellidae	German Cockroach	2
https://biodiversity.org.au/afd/taxa/8824ca8e-a555-4578-b112-fb74339074d3	Oxyopes variabilis	L. Koch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae		2
https://biodiversity.org.au/afd/taxa/8959ac58-6dcc-438c-ac61-01302af030ce	Diphucrania speciosa	(Barker, 2001)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/8966347d-9290-4bc2-a624-959b625faa2c	Piezodorus oceanicus	(Montrouzier, 1864)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	2
https://biodiversity.org.au/afd/taxa/89aa5df3-6df7-4a7c-9207-910563d816b6	Idiodes idiocrossa	(Turner, 1947)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		2
https://biodiversity.org.au/afd/taxa/89b97b17-6abc-4a49-99dd-8ee7c36d6f9c	Eroschema atricolle	Pascoe, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/8ab87508-1f4e-45b9-af9e-89dacaa35195	Italochrysa insignis	(Walker, 1853)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		2
https://biodiversity.org.au/afd/taxa/8b055877-14a0-4c33-bdde-8ff84d385ca5	Tepperia brachychitonis	Marshall, 1936	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/8bef4266-f6d3-4432-801e-0641e9022453	Synothele harveyi	Churchill & Raven, 1994	species	Animalia	Arthropoda	Arachnida	Araneae	Barychelidae		2
https://biodiversity.org.au/afd/taxa/8c14795a-1a73-4261-8a29-15f7696426b4	Helea subseriata	(Blackburn, 1899)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		2
https://biodiversity.org.au/afd/taxa/8ee25988-9391-4b92-a152-ac5f3af14e39	Phoracantha acanthocera	(W.S. Macleay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/8ef0e945-0b77-4fdc-ab85-208454f35b8e	Cherax destructor	Clark, 1936	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Common Yabbie	2
https://biodiversity.org.au/afd/taxa/9002dfbf-9018-47e5-aeb1-d2dca8dd23df	Neocuris thoracica	Fairmaire, 1877	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/90faa6db-ce6d-4194-9d00-c008d03764f0	Opisthoncus polyphemus	(L. Koch, 1867)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/928530f2-5eee-492c-a3f1-b9bbec4a45e3	Servaea spinibarbis	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/9383ad39-a679-45ac-9255-e8bdcb5902cb	Compsotropha selenias	Meyrick, 1884	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	2
https://biodiversity.org.au/afd/taxa/939d747c-7709-41fe-b914-8366b6af6bec	Suphalomitus difformis	(McLachlan, 1871)	species	Animalia	Arthropoda	Insecta	Neuroptera	Ascalaphidae		2
https://biodiversity.org.au/afd/taxa/942a8190-5c3c-4de3-bfed-72eb1ee4ba83	Diaphanops westermanni	Boheman, 1845	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/9458875f-bb0d-472f-8bdd-c89b11fa60e5	Cryptes baccatus	(Maskell, 1892)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coccidae	Wattle Tick Scale	2
https://biodiversity.org.au/afd/taxa/97072b75-111b-4769-8f80-e246c737a311	Socca pustulosa	(Walckenaer, 1842)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae		2
https://biodiversity.org.au/afd/taxa/972536c3-d00f-443b-aba5-7821b9d49dcc	Aphantes melanochorda	(Turner, 1919)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/9830b287-00de-4c5a-a72f-811de43fa336	Lucilia cuprina	(Wiedemann, 1830)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae	Australian Sheep Blowfly	2
https://biodiversity.org.au/afd/taxa/9ab8f7bc-49ea-4664-be26-4807057090e3	Hyphesma atromicans	(Cockerell, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/9aeef589-2845-4876-a57b-b62fcbc49275	Charadrius (Charadrius) leschenaultii	Lesson, 1826	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Greater Sand Plover	2
https://biodiversity.org.au/afd/taxa/9c0bd8bd-1d4b-4917-ad6a-6e00811b2c80	Temognatha westwoodii	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/9f7e9c31-be4d-48b7-bcbc-5566bfaf0769	Philonthus (Philonthus) longicornis	Stephens, 1832	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2
https://biodiversity.org.au/afd/taxa/a0c1e061-de48-4b68-ba11-892b38cf0706	Labdia deliciosella	Walker, 1864	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cosmopterigidae	Cosmet Moth	2
https://biodiversity.org.au/afd/taxa/a1496645-d1fd-4349-88b3-c45c05c7fffc	Pseudorhiza haeckelii	Haacke, 1884	species	Animalia	Cnidaria	Scyphozoa	Rhizostomeae	Lychnorhizidae		2
https://biodiversity.org.au/afd/taxa/a203fcd1-2e58-4e58-99ab-c7d4fd36626f	Eutittha mordax	(L. Koch, 1866)	species	Animalia	Arthropoda	Arachnida	Araneae	Cheiracanthiidae	Yellow Nightstalking Sac Spider	2
https://biodiversity.org.au/afd/taxa/a46d03ea-8754-4916-b3d6-cd5a1ca8501e	Sphenophorus brunnipennis	(Germar, 1824)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	La Plata Weevil	2
https://biodiversity.org.au/afd/taxa/a50e3e8b-7f1b-493a-95f9-91bee9056977	Corgatha pleuroplaca	Turner, 1936	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		2
https://biodiversity.org.au/afd/taxa/a5b1896e-ef50-4571-ac94-7c1f1c031049	Calidris (Erolia) melanotos	(Vieillot, 1819)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Pectoral Sandpiper	2
https://biodiversity.org.au/afd/taxa/a64e9ee1-50a2-4033-8d5e-7d33cf4d1ae9	Diphucrania rubicunda	(Kerremans, 1898)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/a7aae644-2be2-4949-b8c2-28d40fbf2a4f	Eleale aulicodes	Gorham, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		2
https://biodiversity.org.au/afd/taxa/a81d7ce8-2bc0-40e5-a142-9fb8ee2554a2	Rhytidoponera punctata	(Smith, 1858)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/ac7082cd-3cea-42c5-8d99-e418abcf5c95	Melobasis rubromarginata	Saunders, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/af095c94-cfb2-486d-981b-73610327aa82	Oxytelus sculptus	Gravenhorst, 1806	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		2
https://biodiversity.org.au/afd/taxa/b0321d70-51a9-4edc-813f-0c133923a843	Cymbacha ocellata	L. Koch, 1874	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae	Crab Spider	2
https://biodiversity.org.au/afd/taxa/b0ab734d-9131-44f0-a12e-602cc0ef8c1a	Theristria smithersi	Lambkin, 1986	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		2
https://biodiversity.org.au/afd/taxa/b3629a6d-7a14-4c4e-8abc-6a3d4909bb29	Monacanthus chinensis	(Osbeck, 1765)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	Fanbelly Leatherjacket	2
https://biodiversity.org.au/afd/taxa/b52c2f49-9912-4a13-910b-ea8a3e61f6b9	Megaporus howittii	(Clark, 1862)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	2
https://biodiversity.org.au/afd/taxa/b6c58fd5-7e06-4605-b9c6-adcc4f5e81ef	Lipotriches (Austronomia) purnongensis	(Cockerell, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		2
https://biodiversity.org.au/afd/taxa/b801fe91-4646-40c9-aa27-4dc4b7ed2c70	Pachyprosopis (Parapachyprosopis) eucyrta	Exley, 1972	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		2
https://biodiversity.org.au/afd/taxa/b8775f30-7c2a-4bfc-a433-a4f0a5070be3	Eurhopalus ocellifer	(Blackburn, 1891)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae		2
https://biodiversity.org.au/afd/taxa/b91c0efd-df7b-48f6-b070-51d88166b3de	Brachyponera lutea	(Mayr, 1862)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/b92cbe4c-891e-4a1e-a24d-9a42f0dcafaf	Carneodon pecuarius	(Reiche, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/b9c1f0aa-3238-4d12-ab8a-85f2ba3e2978	Diplocotes carinaticeps	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		2
https://biodiversity.org.au/afd/taxa/b9ed5948-d9de-4acc-8ed6-2067bfae7888	Austrokatanga monteithi	Weirauch, Rabitsch & Redei, 2009	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae		2
https://biodiversity.org.au/afd/taxa/ba47071e-2b75-4ebe-ab47-d373ac00bf9f	Cubicorhynchus spinicollis	Macleay, 1866	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/bb9ca04b-020d-4e1d-a71b-ccf52e57e6ae	Euchaetis inceptella	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	2
https://biodiversity.org.au/afd/taxa/bcc33691-4468-4aa8-90dc-ccd04e3ffb80	Pelororhinus stellio	(Pascoe, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/bd058cad-e107-405d-bdb6-3454d51e0d20	Chelmonops curiosus	Kuiter, 1986	species	Animalia	Chordata	Actinopterygii	Perciformes	Chaetodontidae	Western Talma	2
https://biodiversity.org.au/afd/taxa/bdee5510-0759-439e-9280-ac29a737a8b9	Eucyrtops latior	(O.P.-Cambridge, 1877)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		2
https://biodiversity.org.au/afd/taxa/bf079286-4589-4065-90df-d7f05340bc0c	Peltoschema nigroconspersa	(Clark, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		2
https://biodiversity.org.au/afd/taxa/bf279c0c-e132-4ab7-a723-9173126b38a6	Anilara longicollis	ThÃ©ry, 1911	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/c1e020d1-7bfd-49dd-accd-e0ba4eb1a834	Macrothynnus insignis	(Smith, 1959)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		2
https://biodiversity.org.au/afd/taxa/c3294d20-8bae-4798-a3fe-53b1541e202c	Physeema labyrinthica	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Dune Ticker	2
https://biodiversity.org.au/afd/taxa/c3557641-53e4-4392-84f3-8e95d9f8e971	Auscala flammea	Emery, Emery & Hutchinson, 2020	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		2
https://biodiversity.org.au/afd/taxa/c3a8fb30-7831-47d8-bc37-ececf8bb6e74	Oecetis pechana	Mosely, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	2
https://biodiversity.org.au/afd/taxa/c5729ef4-fa09-40e0-a144-6e0b7e2a6373	Porrostoma rhipidium	(W.S. Macleay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Lycidae	Long-nosed Lycid Beetle	2
https://biodiversity.org.au/afd/taxa/c6094998-5082-45ae-999c-15736f268171	Eupselia hypsichora	Meyrick, 1906	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hypertrophidae		2
https://biodiversity.org.au/afd/taxa/c66de17a-c6af-4dae-91ba-7cebbf6d7868	Lasioglossum (Chilalictus) seminitens	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		2
https://biodiversity.org.au/afd/taxa/cb87bd5c-225d-42e8-8c08-0b97a8e84298	Myrmecia rugosa	Wheeler, 1933	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/ccf1c2b3-f663-4f04-8779-94b18dbd6c6f	Pantala flavescens	(Fabricius, 1798)	species	Animalia	Arthropoda	Insecta	Odonata	Libellulidae	Wandering Glider	2
https://biodiversity.org.au/afd/taxa/cd7709bc-ac13-4b4b-b751-1e18f7d2f3b6	Storena formosa	Thorell, 1870	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae	Ant Spider	2
https://biodiversity.org.au/afd/taxa/ce707c69-b21b-478f-94e5-0e8b0fa96528	Euhesma (Euhesma) platyrhina	(Cockerell, 1915)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		2
https://biodiversity.org.au/afd/taxa/cecb7827-4539-45dd-8908-4b85a1e67dbe	Tamopsis perthensis	Baehr & Baehr, 1987	species	Animalia	Arthropoda	Arachnida	Araneae	Hersiliidae		2
https://biodiversity.org.au/afd/taxa/cf59710d-eb5c-4bc9-98a6-f412eb8a5c72	Gotra luctuosa	(BrullÃ©, 1846)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		2
https://biodiversity.org.au/afd/taxa/d057765c-a936-4673-8518-2131e76bf335	Scoparia exhibitalis	Walker, 1866	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		2
https://biodiversity.org.au/afd/taxa/d09a7b97-32cf-43d9-80ab-d73f50820bf1	Homoneura (Homoneura) binotata	Kim, 1994	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae		2
https://biodiversity.org.au/afd/taxa/d109c7fb-b2c3-4e85-8527-026f33be871f	Menemerus bivittatus	(Dufour, 1831)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		2
https://biodiversity.org.au/afd/taxa/d1ac34d1-a098-4a42-9631-53db287b869a	Ctenophorus adelaidensis	(Gray, 1841)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Western Heath Dragon	2
https://biodiversity.org.au/afd/taxa/d2f0de09-cccc-4231-b082-514121d8d64a	Sclerorrhinella granuliceps	Ferguson, 1912	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/d4679f5e-1a5a-4401-805d-00dfcbaf2689	Buciara bipartita	Walker, 1869	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	2
https://biodiversity.org.au/afd/taxa/d542dc24-d4d1-4848-890a-013cb2f46879	Anterhynchium (Epiodynerus) nigrocinctum	(Saussure, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		2
https://biodiversity.org.au/afd/taxa/d5bb2d23-a535-44ba-9e4d-1cbc2255a322	Hyocephalus aprugnus	Bergroth, 1906	species	Animalia	Arthropoda	Insecta	Hemiptera	Hyocephalidae		2
https://biodiversity.org.au/afd/taxa/d7c1de23-5ff9-42b8-88d8-a6f6c23ed2cd	Peraglyphis scepasta	Common, 1963	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		2
https://biodiversity.org.au/afd/taxa/d7d0749b-65e9-4f6b-9a30-9fd146f36515	Papyrius nitidus	(Mayr, 1862)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	2
https://biodiversity.org.au/afd/taxa/d93672a5-4948-4dd2-a978-57ddbfb6908f	Neodialineura bifaria	Winterton, 2009	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		2
https://biodiversity.org.au/afd/taxa/d9d29f79-0c30-4dfd-ab2e-1fffb126ead1	Artema atlanta	Walckenaer, 1837	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae		2
https://biodiversity.org.au/afd/taxa/daf67e3e-e7ab-494b-bfc7-120859f758ed	Ctenaphides maculatus	(Pascoe, 1873)	species	Animalia	Arthropoda	Insecta	Coleoptera	Brentidae		2
https://biodiversity.org.au/afd/taxa/db161d0f-72a7-4986-9348-81231ef8f3b2	Myrmecia swalei	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		2
https://biodiversity.org.au/afd/taxa/dbb25453-ce45-43a0-bea0-e01f1ba3fe90	Bigenditia zuytdorp	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		2
https://biodiversity.org.au/afd/taxa/dc3536ae-17ea-45f8-bdf5-a8d978243f57	Engraulis australis	(White, 1790)	species	Animalia	Chordata	Actinopterygii	Clupeiformes	Engraulidae	Australian Anchovy	2
https://biodiversity.org.au/afd/taxa/df5c846f-14a9-4f0a-93f4-92710cdb4cd7	Pseudocheirus occidentalis	(Thomas, 1888)	species	Animalia	Chordata	Mammalia	Diprotodontia	Pseudocheiridae	Western Ringtail Possum	2
https://biodiversity.org.au/afd/taxa/df91f299-b48d-4c65-9cc6-6f732619d43c	Metallesthes metallescens	(White, 1859)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/e04ebe9b-2cd3-4905-822f-10a115bf29c3	Bothriembryon (Bothriembryon) kendricki	Hill, Johnson & Merrifield, 1983	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		2
https://biodiversity.org.au/afd/taxa/e2671c3e-5a1a-4f5e-8217-47b2f684f2dc	Chlorobapta frontalis	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/e29da430-bf35-402b-8699-bc9aa0400d06	Rastriopes handschini	(Womersley, 1932)	species	Animalia	Arthropoda	Collembola	Symphypleona	Bourletiellidae		2
https://biodiversity.org.au/afd/taxa/e39cb54a-db5b-4994-bd72-5fc825d0dbe9	Gonipterus scutellatus	Gyllenhal, 1833	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Eucalyptus Weevil	2
https://biodiversity.org.au/afd/taxa/e44def65-b785-4ff3-afc0-d7cf0b6c48c0	Atrapsalta dolens	(Walker, 1850)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae		2
https://biodiversity.org.au/afd/taxa/e57056d0-fccd-4e65-9704-41d96be7a07c	Sphodropoda tristis	(Saussure, 1871)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		2
https://biodiversity.org.au/afd/taxa/e5fc1964-35c5-4afa-bd0a-737cba2f8fa9	Cherax preissii	(Erichson, 1846)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae		2
https://biodiversity.org.au/afd/taxa/e6c4d416-e95f-4f2e-81e3-395458f034b1	Ciampa arietaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Brown Pasture Looper Moth	2
https://biodiversity.org.au/afd/taxa/e83e7f85-bf56-4d2f-8db3-7c1b0a814645	Apertochrysa edwardsi	(Banks, 1940)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		2
https://biodiversity.org.au/afd/taxa/e9127388-e51c-41bd-88f8-51d3bfaa6773	Melanozosteria morosa	Shelford, 1909	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		2
https://biodiversity.org.au/afd/taxa/e947e093-d0d0-40a5-9433-ca8071b6dcdf	Meomyia fasciculata	(Macquart, 1840)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	2
https://biodiversity.org.au/afd/taxa/e9cc09f0-bfc4-40a1-8b5b-a7f4beb3271d	Neophema (Neophema) pulchella	(Shaw, 1792)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Turquoise Parrot	2
https://biodiversity.org.au/afd/taxa/ea7087ca-2b95-4b8b-bbef-3090be7a9a96	Entometa fervens	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lasiocampidae	Gum Snout Moth	2
https://biodiversity.org.au/afd/taxa/ec282f38-442d-4241-a1c5-1ec6ae739022	Anoplostethus roseus	Blanchard, 1851	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/ec6fe7e0-a195-49b1-8175-769a1937b003	Ctenophorus reticulatus	(Gray, 1845)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Western Netted Dragon	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/ec835f12-ad32-4789-af28-44183c852e34	Chortoicetes terminifera	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Australian Plague Locust	2
https://biodiversity.org.au/afd/taxa/ed0c7fe2-1ec2-4c8e-9458-5743c9af06fc	Argyrodes antipodianus	O.P.-Cambridge, 1880	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Dew Drop Spider	2
https://biodiversity.org.au/afd/taxa/eef5517c-7b7b-48f4-bef6-1ada3b4bf32a	Maevius indecorus	StÃ¥l, 1874	species	Animalia	Arthropoda	Insecta	Hemiptera	Hyocephalidae		2
https://biodiversity.org.au/afd/taxa/f0088853-6045-404b-b866-9f4d6bf15015	Glossopsitta concinna	(Shaw, 1791)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Musk Lorikeet	2
https://biodiversity.org.au/afd/taxa/f0ac3396-77cc-46e5-86ec-744ffce298f9	Halotydeus destructor	(Tucker, 1925)	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Penthaleidae	Redlegged Earth Mite	2
https://biodiversity.org.au/afd/taxa/f1914775-1d91-42cb-8bcd-ab63d129846d	Rhytiphora frenchiana	Breuning, 1961	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		2
https://biodiversity.org.au/afd/taxa/f239f36d-803c-4fd9-a1d8-bb1aeae3f75f	Euryglossina (Microdontura) mellea	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/f3053f62-1109-4eaa-94bf-f9f676259f85	Trachyspina mundaring	Platnick, 2002	species	Animalia	Arthropoda	Arachnida	Araneae	Trochanteriidae		2
https://biodiversity.org.au/afd/taxa/f3bdcaa0-602d-40a4-80bb-b6fad4859647	Temognatha mnizechii	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		2
https://biodiversity.org.au/afd/taxa/f6058722-c010-490c-8486-bd95e3332a40	Epyaxa sodaliata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	2
https://biodiversity.org.au/afd/taxa/f85f8549-58b1-4a9a-87da-19e9e499b8a2	Litoria peronii	(Tschudi, 1838)	species	Animalia	Chordata	Amphibia	Anura	Pelodryadidae	Peron's Tree Frog	2
https://biodiversity.org.au/afd/taxa/f86a7bb3-0165-4c78-8e85-9bec266d729c	Euborellia annulipes	(Lucas, 1847)	species	Animalia	Arthropoda	Insecta	Dermaptera	Anisolabididae	Ring-legged Earwig	2
https://biodiversity.org.au/afd/taxa/f938a8f5-efd0-4c40-ad29-9bb9f81a9754	Trichorhachus nitidus	Kirby, 1882	species	Animalia	Arthropoda	Insecta	Hymenoptera	Argidae		2
https://biodiversity.org.au/afd/taxa/f9536f86-e011-4f6c-b065-b87b4d9ffc57	Stilbum cyanurum	(Foerster, 1771)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		2
https://biodiversity.org.au/afd/taxa/fa5bfcff-c89e-4dda-b7ed-1f61bdf0d1ea	Mugil cephalus	Linnaeus, 1758	species	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	Sea Mullet	2
https://biodiversity.org.au/afd/taxa/fab40ec7-0902-4041-8c50-0aed840c326a	Polyphrades laticollis	FÃ¥hraeus, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/fae5b036-4167-4d6b-8e52-50093bc58a12	Acantholophus transitus	Macleay, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/fb182002-3838-4f64-b056-3f2f8c6ae8f5	Hylaeus (Hylaeorhiza) nubilosus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	2
https://biodiversity.org.au/afd/taxa/fbe268f9-ac0c-4e77-bfbc-c85f58eea3d5	Hyderodes crassus	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	2
https://biodiversity.org.au/afd/taxa/fd91c6f4-1219-4aab-9c0c-667f3b7764e0	Aplopsis lineoligera	Blanchard, 1850	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		2
https://biodiversity.org.au/afd/taxa/ff034710-5f08-4685-a348-ed5f58056118	Thudaca haplonota	Meyrick, 1893	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hypertrophidae		2
https://biodiversity.org.au/afd/taxa/ff25f9cd-f25e-4df6-a38e-5a20a70119b7	Limnochares australica	Lundblad, 1941	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Limnocharidae	Mite	2
https://biodiversity.org.au/afd/taxa/ff60e8fa-d91b-4846-b30c-9070badb8e71	Pelororhinus sulcirostris	(Lea, 1904)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		2
https://biodiversity.org.au/afd/taxa/ffd0b271-5135-4a10-9c76-555669ca7200	Mimaglossa nauplialis	(Walker, 1859)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Grass Moth	2
https://biodiversity.org.au/afd/taxa/ffd5e948-989e-411b-8883-cc0bc05efa42	Oxycarenus (Oxycarenus) luctuosus	(Montrouzier, 1861)	species	Animalia	Arthropoda	Insecta	Hemiptera	Oxycarenidae	Cottonseed Bug	2
https://id.biodiversity.org.au/node/apni/2886078	Leucopogon parviflorus	(Andrews) Lindl.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Coast Beard-heath	2
https://id.biodiversity.org.au/node/apni/2886084	Lysimachia minima	(L.) U.Manns & Anderb.	species	Plantae	Charophyta	Equisetopsida	Ericales	Primulaceae	Chaffweed	2
https://id.biodiversity.org.au/node/apni/2886103	Melilotus indicus	(L.) All.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sweet Melilot	2
https://id.biodiversity.org.au/node/apni/2886441	Trifolium tomentosum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Woolly Clover	2
https://id.biodiversity.org.au/node/apni/2886608	Isotoma scapigera	(R.Br.) G.Don	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Salt Isotome	2
https://id.biodiversity.org.au/node/apni/2886982	Juncus holoschoenus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Joint-leaf Rush	2
https://id.biodiversity.org.au/node/apni/2887023	Psoralea pinnata	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	African Scurf-pea	2
https://id.biodiversity.org.au/node/apni/2887122	Leucopogon cryptanthus	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Smallflowered Leucopogon	2
https://id.biodiversity.org.au/node/apni/2887223	Adiantum capillus-veneris	L.	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Maidenhair	2
https://id.biodiversity.org.au/node/apni/2887545	Ricinocarpos tuberculatus	MÃ¼ll.Arg.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae		2
https://id.biodiversity.org.au/node/apni/2887615	Hordeum leporinum	Link	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Barley Grass	2
https://id.biodiversity.org.au/node/apni/2887830	Macroptilium atropurpureum	(DC.) Urb.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Siratro	2
https://id.biodiversity.org.au/node/apni/2887949	Malva parviflora	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Small-flower Mallow	2
https://id.biodiversity.org.au/node/apni/2887979	Juncus pauciflorus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Loose-flower Rush	2
https://id.biodiversity.org.au/node/apni/2888637	Malva preissiana	Miq.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Australian Hollyhock	2
https://id.biodiversity.org.au/node/apni/2888654	Stylidium crossocephalum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Posy Triggerplant	2
https://id.biodiversity.org.au/node/apni/2888841	Trifolium hirtum	All.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Rose Clover	2
https://id.biodiversity.org.au/node/apni/2889101	Pimelea rara	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Summer Pimelea	2
https://id.biodiversity.org.au/node/apni/2889415	Dampiera lavandulacea	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		2
https://id.biodiversity.org.au/node/apni/2889436	Doryanthes excelsa	Correa	species	Plantae	Charophyta	Equisetopsida	Asparagales	Doryanthaceae	Gymea Lily	2
https://id.biodiversity.org.au/node/apni/2889510	Lepidium didymum	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Lesser Swine's-cress	2
https://id.biodiversity.org.au/node/apni/2889741	Banksia victoriae	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Woolly Orange Banksia	2
https://id.biodiversity.org.au/node/apni/2889999	Austrostipa hemipogon	(Benth.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Half-bearded Spear-grass	2
https://id.biodiversity.org.au/node/apni/2890025	Cyperus involucratus	Rottb.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Umbrella Plant	2
https://id.biodiversity.org.au/node/apni/2890176	Aphelia brizula	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		2
https://id.biodiversity.org.au/node/apni/2890275	Ranunculus colonorum	Endl.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Common Buttercup	2
https://id.biodiversity.org.au/node/apni/2890446	Prunus cerasifera	Ehrh.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Purple-leaf Cherry-plum	2
https://id.biodiversity.org.au/node/apni/2890582	Sida hookeriana	Miq.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2890656	Acacia implexa	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hickory Wattle	2
https://id.biodiversity.org.au/node/apni/2890819	Drosera leucoblasta	Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Wheel Sundew	2
https://id.biodiversity.org.au/node/apni/2890923	Hibbertia lasiopus	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Large Hibbertia	2
https://id.biodiversity.org.au/node/apni/2890991	Loxocarya striata	(F.Muell.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/node/apni/2891131	Boronia spathulata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Boronia	2
https://id.biodiversity.org.au/node/apni/2891145	Conospermum glumaceum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Hooded Smokebush	2
https://id.biodiversity.org.au/node/apni/2891195	Senecio vulgaris	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Groundsel	2
https://id.biodiversity.org.au/node/apni/2891241	Homalanthus populifolius	Graham	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Bleeding-heart Tree	2
https://id.biodiversity.org.au/node/apni/2891248	Isolepis prolifera	(Rottb.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Proliferous Club-sedge	2
https://id.biodiversity.org.au/node/apni/2891374	Melaleuca lanceolata	Otto	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Dryland Tea-tree	2
https://id.biodiversity.org.au/node/apni/2891488	Cyperus alterniflorus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Nutgrass	2
https://id.biodiversity.org.au/node/apni/2891611	Ptilotus stirlingii	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		2
https://id.biodiversity.org.au/node/apni/2891835	Bromus diandrus	Roth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Great Brome	2
https://id.biodiversity.org.au/node/apni/2892165	Atriplex semibaccata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Berry Saltbush	2
https://id.biodiversity.org.au/node/apni/2892200	Synaphea decorticans	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2892274	Eryngium sp. Subdecumbens (G.J.Keighery 5390)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		2
https://id.biodiversity.org.au/node/apni/2892384	Hemiandra incana	Bartl.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		2
https://id.biodiversity.org.au/node/apni/2892440	Thomasia triphylla	(Labill.) J.Gay	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		2
https://id.biodiversity.org.au/node/apni/2893120	Casuarina glauca	Sieber ex Spreng.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Swamp Oak	2
https://id.biodiversity.org.au/node/apni/2893138	Rhamnus alaternus	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Blowfly Bush	2
https://id.biodiversity.org.au/node/apni/2893199	Acacia benthamii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bentham's Wattle	2
https://id.biodiversity.org.au/node/apni/2893220	Eucalyptus lane-poolei	Maiden	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Salmonbark	2
https://id.biodiversity.org.au/node/apni/2893357	Anthocercis anisantha	Endl.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae		2
https://id.biodiversity.org.au/node/apni/2893457	Senecio quadridentatus	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cotton Groundsel	2
https://id.biodiversity.org.au/node/apni/2893701	Petrophile media	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2893819	Callistachys lanceolata	Vent.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Greenbush	2
https://id.biodiversity.org.au/node/apni/2893822	Calandrinia granulifera	Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae	Pigmy Purslane	2
https://id.biodiversity.org.au/node/apni/2894047	Persicaria maculosa	Gray	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Slender Knotweed	2
https://id.biodiversity.org.au/node/apni/2894102	Lepidosperma costale	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2894147	Drosera stricticaulis	(Diels) O.H.Sarg.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Erect Sundew	2
https://id.biodiversity.org.au/node/apni/2894152	Tritonia gladiolaris	(Lam.) Goldblatt & J.C.Manning	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Lined Tritonia	2
https://id.biodiversity.org.au/node/apni/2894398	Gahnia decomposita	(R.Br.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2894713	Linum usitatissimum	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Linaceae	Field Flax	2
https://id.biodiversity.org.au/node/apni/2894906	Solidago canadensis	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Golden Rod	2
https://id.biodiversity.org.au/node/apni/2894962	Calandrinia composita	(Nees) Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Portulacaceae		2
https://id.biodiversity.org.au/node/apni/2895029	Scaevola phlebopetala	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Velvet Fanflower	2
https://id.biodiversity.org.au/node/apni/2895169	Leptospermum erubescens	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Roadside Teatree	2
https://id.biodiversity.org.au/node/apni/2895519	Phalaris paradoxa	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Paradox Canary-grass	2
https://id.biodiversity.org.au/node/apni/2895654	Crassula peduncularis	(Sm.) F.Meigen	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Purple Stonecrop	2
https://id.biodiversity.org.au/node/apni/2896463	Andersonia involucrata	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2896484	Rorippa nasturtium-aquaticum	(L.) Hayek	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Watercress	2
https://id.biodiversity.org.au/node/apni/2896596	Actinotus glomeratus	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		2
https://id.biodiversity.org.au/node/apni/2896718	Tetraria australiensis	C.B.Clarke	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2896776	Stellaria media	(L.) Vill.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Chickweed	2
https://id.biodiversity.org.au/node/apni/2896873	Leucopogon australis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Spike Beard-heath	2
https://id.biodiversity.org.au/node/apni/2896896	Opuntia monacantha	Haw.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Drooping Prickly Pear	2
https://id.biodiversity.org.au/node/apni/2896979	Callistemon glaucus	Sweet	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Albany Bottlebrush	2
https://id.biodiversity.org.au/node/apni/2897057	Veronica arvensis	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Wall Speedwell	2
https://id.biodiversity.org.au/node/apni/2897211	Ophioglossum lusitanicum	L.	species	Plantae	Charophyta	Equisetopsida	Ophioglossales	Ophioglossaceae	Austral Adders Tongue	2
https://id.biodiversity.org.au/node/apni/2897452	Leucopogon cymbiformis	A.Cunn. ex DC.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2897517	Phyllopodium cordatum	(Thunb.) Hilliard	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Cordate-leaved Phyllopodium	2
https://id.biodiversity.org.au/node/apni/2897549	Amaranthus albus	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Stiff Tumbleweed	2
https://id.biodiversity.org.au/node/apni/2897553	Tricostularia exsul	(C.B.Clarke) K.L.Wilson & R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Robust Tricostularia	2
https://id.biodiversity.org.au/node/apni/2897578	Dysphania ambrosioides	(L.) Mosyakin & Clemants	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Mexican Tea	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2897770	Dillwynia dillwynioides	(Meisn.) Druce	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2897908	Enchylaena tomentosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Ruby Saltbush	2
https://id.biodiversity.org.au/node/apni/2898173	Banksia undata	A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2898181	Helianthus annuus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Sunflower	2
https://id.biodiversity.org.au/node/apni/2898294	Utricularia menziesii	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Redcoats	2
https://id.biodiversity.org.au/node/apni/2898669	Ptilotus polystachyus	(Gaudich.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Long Tails	2
https://id.biodiversity.org.au/node/apni/2900247	Frankenia pauciflora	DC.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Frankeniaceae	Southern Sea-heath	2
https://id.biodiversity.org.au/node/apni/2900267	Acacia incurva	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2900569	Calycopeplus paucifolius	(Klotzsch) Baill.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae		2
https://id.biodiversity.org.au/node/apni/2900645	Aotus gracillima	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2900848	Setaria incrassata	(Hochst.) Hack.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Setaria	2
https://id.biodiversity.org.au/node/apni/2900870	Centranthus macrosiphon	Boiss.	species	Plantae	Charophyta	Equisetopsida	Dipsacales	Caprifoliaceae	Pretty Betsy	2
https://id.biodiversity.org.au/node/apni/2900880	Synaphea petiolaris	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Synaphea	2
https://id.biodiversity.org.au/node/apni/2901160	Acacia myrtifolia	(Sm.) Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Myrtle Wattle	2
https://id.biodiversity.org.au/node/apni/2901412	Trifolium fragiferum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Strawberry Clover	2
https://id.biodiversity.org.au/node/apni/2901414	Anarthria gracilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		2
https://id.biodiversity.org.au/node/apni/2901445	Schoenus griffinianus	K.L.Wilson	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2901489	Stylidium junceum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Reed Triggerplant	2
https://id.biodiversity.org.au/node/apni/2901610	Geranium retrorsum	L'HÃ©r. ex DC.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Grassland Crane's-bill	2
https://id.biodiversity.org.au/node/apni/2901626	Senecio gilbertii	Turcz.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2901930	Stylidium scabridum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Moth Triggerplant	2
https://id.biodiversity.org.au/node/apni/2902036	Utricularia gibba	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lentibulariaceae	Bladderwort	2
https://id.biodiversity.org.au/node/apni/2902050	Melaleuca pauciflora	Turcz.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/node/apni/2902209	Synaphea reticulata	(Sm.) Druce	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2902224	Grevillea maccutcheonii	Keighery & Cranfield	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Mccutcheon's Grevillea	2
https://id.biodiversity.org.au/node/apni/2902241	Noltea africana	(L.) Endl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Noltea	2
https://id.biodiversity.org.au/node/apni/2902272	Marsilea drummondii	A.Braun	species	Plantae	Charophyta	Equisetopsida	Salviniales	Marsileaceae	Clover Fern	2
https://id.biodiversity.org.au/node/apni/2902521	Erymophyllum tenellum	(Turcz.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2902593	Allium ampeloprasum	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae	Great-head Garlic	2
https://id.biodiversity.org.au/node/apni/2902831	Musa acuminata	Colla	species	Plantae	Charophyta	Equisetopsida	Zingiberales	Musaceae	Edible Banana	2
https://id.biodiversity.org.au/node/apni/2902833	Allocasuarina decussata	(Benth.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Karri Oak	2
https://id.biodiversity.org.au/node/apni/2902868	Hibiscus mutabilis	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		2
https://id.biodiversity.org.au/node/apni/2902954	Austrostipa flavescens	(Labill.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Coast Spear-grass	2
https://id.biodiversity.org.au/node/apni/2902984	Cymbalaria muralis	G.Gaertn., B.Mey. & Scherb.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Ivy-leaf Toadflax	2
https://id.biodiversity.org.au/node/apni/2903048	Acacia cochlocarpa	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2903242	Schoenus andrewsii	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2903360	Banksia sphaerocarpa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Fox Banksia	2
https://id.biodiversity.org.au/node/apni/2903406	Cassytha micrantha	Meisn.	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae		2
https://id.biodiversity.org.au/node/apni/2903489	Schoenus odontocarpus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2903527	Nicandra physalodes	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Apple Of Peru	2
https://id.biodiversity.org.au/node/apni/2903560	Cerastium glomeratum	Thuill.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Common Mouse-ear Chickweed	2
https://id.biodiversity.org.au/node/apni/2903561	Solanum linnaeanum	Hepper & P.-M.L.Jaeger	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Apple Of Sodom	2
https://id.biodiversity.org.au/node/apni/2903725	Gastrolobium lehmannii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cranbrook Pea	2
https://id.biodiversity.org.au/node/apni/2903975	Senecio leucoglossus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2904374	Acacia suaveolens	(Sm.) Willd.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sweet Wattle	2
https://id.biodiversity.org.au/node/apni/2904542	Oxalis bowiei	W.T.Aiton ex G.Don	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Bowie Wood-sorrel	2
https://id.biodiversity.org.au/node/apni/2904646	Elatine gratioloides	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Elatinaceae	Waterwort	2
https://id.biodiversity.org.au/node/apni/2904697	Cyanella hyacinthoides	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Tecophilaeaceae		2
https://id.biodiversity.org.au/node/apni/2904795	Chordifex sphacelatus	(R.Br.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/node/apni/2905058	Comesperma griffinii	Keighery	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		2
https://id.biodiversity.org.au/node/apni/2905094	Boronia humifusa	Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		2
https://id.biodiversity.org.au/node/apni/2905168	Cassytha aurea	J.Z.Weber	species	Plantae	Charophyta	Equisetopsida	Laurales	Lauraceae	Dodder Laurel	2
https://id.biodiversity.org.au/node/apni/2905224	Dampiera pedunculata	Rajput & Carolin	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		2
https://id.biodiversity.org.au/node/apni/2905235	Deyeuxia quadriseta	(Labill.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Reed Bent-grass	2
https://id.biodiversity.org.au/node/apni/2905276	Anredera cordifolia	(Ten.) Steenis	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Basellaceae	Madeira Vine	2
https://id.biodiversity.org.au/node/apni/2906501	Gastrolobium polystachyum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2907019	Corrigiola litoralis	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Strapwort	2
https://id.biodiversity.org.au/node/apni/2907149	Pelargonium littorale	HÃ¼gel ex Endl.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Native Pelargonium	2
https://id.biodiversity.org.au/node/apni/2907151	Crotalaria agatiflora	Schweinf.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2907262	Phyllanthus tenellus	Roxb.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae	Hen And Chicken	2
https://id.biodiversity.org.au/node/apni/2907347	Chenopodium album	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Fat Hen	2
https://id.biodiversity.org.au/node/apni/2907528	Cryptandra myriantha	Diels	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Western Heath Cryptandra	2
https://id.biodiversity.org.au/node/apni/2907567	Chamaexeros serra	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		2
https://id.biodiversity.org.au/node/apni/2907658	Austrostipa mollis	(R.Br.) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Soft Speargrass	2
https://id.biodiversity.org.au/node/apni/2907757	Coreopsis lanceolata	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Tickseed	2
https://id.biodiversity.org.au/node/apni/2907827	Drosera tubaestylis	N.G.Marchant & Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		2
https://id.biodiversity.org.au/node/apni/2907927	Plantago exilis	Decne.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae		2
https://id.biodiversity.org.au/node/apni/2907935	Epilobium ciliatum	Raf.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Glandular Willow-herb	2
https://id.biodiversity.org.au/node/apni/2908016	Phyllangium palustre	(W.Fitzg.) Dunlop	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		2
https://id.biodiversity.org.au/node/apni/2908086	Grevillea paniculata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Kerosene Bush	2
https://id.biodiversity.org.au/node/apni/2908256	Lepidosperma striatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2908422	Avena fatua	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wild Oats	2
https://id.biodiversity.org.au/node/apni/2909230	Xanthosia rotundifolia	DC.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Southern Cross	2
https://id.biodiversity.org.au/node/apni/2909232	Dampiera sericantha	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		2
https://id.biodiversity.org.au/node/apni/2909349	Melaleuca subtrigona	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/node/apni/2909421	Cryptandra scoparia	Reissek	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		2
https://id.biodiversity.org.au/node/apni/2909696	Azolla pinnata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Salviniales	Salviniaceae	Ferny Azolla	2
https://id.biodiversity.org.au/node/apni/2909697	Trifolium repens	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	White Clover	2
https://id.biodiversity.org.au/node/apni/2909736	Grevillea wickhamii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Holly-leaved Grevillea	2
https://id.biodiversity.org.au/node/apni/2909806	Stenopetalum gracile	Bunge	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae		2
https://id.biodiversity.org.au/node/apni/2910167	Papaver somniferum	L.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Papaveraceae	Opium Poppy	2
https://id.biodiversity.org.au/node/apni/2910254	Epilobium hirtigerum	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Hairy Willow-herb	2
https://id.biodiversity.org.au/node/apni/2910309	Cephalosorus carpesioides	(Turcz.) P.S.Short	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2910549	Billardiera variifolia	DC.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		2
https://id.biodiversity.org.au/node/apni/2910578	Sorghum x drummondii	(Nees ex Steud.) Millsp. & Chase	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		2
https://id.biodiversity.org.au/node/apni/2910693	Schoenus discifer	Tate	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tiny Bog-rush	2
https://id.biodiversity.org.au/node/apni/2910698	Poranthera drummondii	Klotzsch	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae		2
https://id.biodiversity.org.au/node/apni/2910812	Bossiaea disticha	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2910954	Stylidium aceratum	Lowrie & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		2
https://id.biodiversity.org.au/node/apni/2910985	Leucopogon strictus	Benth.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2911309	Hakea auriculata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/2911343	Astroloma serratifolium	(DC.) Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Kondrung	2
https://id.biodiversity.org.au/node/apni/2911607	Rytidosperma pilosum	(R.Br.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Large Velvet Wallaby-grass	2
https://id.biodiversity.org.au/node/apni/2912115	Glischrocaryon angustifolium	(Nees) M.L.Moody & Les	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Golden Pennants	2
https://id.biodiversity.org.au/node/apni/2912670	Amaranthus powellii	S.Watson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Powell's Amaranth	2
https://id.biodiversity.org.au/node/apni/2913147	Andersonia sprengelioides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Sprengelia-like Andersonia	2
https://id.biodiversity.org.au/node/apni/2913336	Rhodanthe pyrethrum	(Steetz) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/node/apni/2913443	Limnobium laevigatum	(Humb. & Bonpl. ex Willd.) Heine	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Amazon Frogbit	2
https://id.biodiversity.org.au/node/apni/2913468	Brachychiton populneus	(Schott & Endl.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Kurrajong	2
https://id.biodiversity.org.au/node/apni/2913640	Bossiaea spinosa	(Turcz.) Domin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/node/apni/2913655	Centrolepis inconspicua	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		2
https://id.biodiversity.org.au/node/apni/2914057	Borya constricta	Churchill	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae		2
https://id.biodiversity.org.au/node/apni/2914150	Leptocarpus laxus	(R.Br.) B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/node/apni/2914375	Cryptandra pungens	Steud.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		2
https://id.biodiversity.org.au/node/apni/2914596	Lachenalia bulbifera	(Cirillo) Engl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Red Lachenalia	2
https://id.biodiversity.org.au/node/apni/2914668	Cycnogeton procerum	(R.Br.) Buchenau	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae	Common Water-ribbons	2
https://id.biodiversity.org.au/node/apni/2914995	Grevillea pulchella	(R.Br.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Beautiful Grevillea	2
https://id.biodiversity.org.au/node/apni/2915024	Amphibromus nervosus	(Hook.f.) Baill.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Swamp Wallaby Grass	2
https://id.biodiversity.org.au/node/apni/2915203	Acacia baileyana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cootamundra Wattle	2
https://id.biodiversity.org.au/node/apni/2915551	Dysphania glomulifera	(Nees) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Dysphania	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2915852	Amphibromus vickeryae	S.W.L.Jacobs & Lapinpuro	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		2
https://id.biodiversity.org.au/node/apni/2916283	Landoltia punctata	(G.Mey.) Les & D.J.Crawford	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Thin Duckweed	2
https://id.biodiversity.org.au/node/apni/2916328	Schoenus sublateralis	(Steud.) C.B.Clarke	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		2
https://id.biodiversity.org.au/node/apni/2916674	Centipeda cunninghamii	(DC.) A.Braun & Asch.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Sneezeweed	2
https://id.biodiversity.org.au/node/apni/2917147	Leptospermum continentale	Joy Thomps.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Prickly Tea-tree	2
https://id.biodiversity.org.au/node/apni/2917718	Leucopogon oxycedrus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		2
https://id.biodiversity.org.au/node/apni/2917792	Senecio pinnatifolius	A.Rich.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Variable Groundsel	2
https://id.biodiversity.org.au/node/apni/2918338	Heliophila pusilla	L.f.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Fine Sunflax	2
https://id.biodiversity.org.au/node/apni/2918410	Phytolacca octandra	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Phytolaccaceae	Red-ink Weed	2
https://id.biodiversity.org.au/node/apni/2918462	Marianthus ringens	(Drumm. ex Harv.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		2
https://id.biodiversity.org.au/node/apni/2918471	Carex appressa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Tall Sedge	2
https://id.biodiversity.org.au/node/apni/2919007	Cichorium intybus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Chicory	2
https://id.biodiversity.org.au/node/apni/2919152	Salix cinerea	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Salicaceae	Grey Sallow	2
https://id.biodiversity.org.au/node/apni/2919295	Aphelia drummondii	(Hieron.) Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		2
https://id.biodiversity.org.au/node/apni/2919385	Plantago bellardii	All.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Hairy Plantain	2
https://id.biodiversity.org.au/node/apni/2919582	Hypocalymma xanthopetalum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Myrtle	2
https://id.biodiversity.org.au/node/apni/2919780	Carex tereticaulis	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Poong'ort	2
https://id.biodiversity.org.au/node/apni/2920067	Sporobolus virginicus	(L.) Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Marine Couch	2
https://id.biodiversity.org.au/node/apni/2920314	Vicia benghalensis	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Purple Vetch	2
https://id.biodiversity.org.au/node/apni/2920526	Verbascum virgatum	Stokes	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Twiggy Mullein	2
https://id.biodiversity.org.au/node/apni/2920740	Chamaescilla spiralis	(Endl.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		2
https://id.biodiversity.org.au/node/apni/2920929	Scaevola striata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Royal Robe	2
https://id.biodiversity.org.au/node/apni/2920956	Passiflora filamentosa	Cav.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Passifloraceae	Palmate Passionflower	2
https://id.biodiversity.org.au/node/apni/2921040	Eucalyptus camaldulensis	Dehnh.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Red Gum	2
https://id.biodiversity.org.au/node/apni/2921234	Melaleuca holosericea	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/node/apni/2921307	Abutilon grandifolium	(Willd.) Sweet	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Hairy Abutilon	2
https://id.biodiversity.org.au/node/apni/7692612	Kunzea ericifolia	(Sm.) Heynh.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spearwood	2
https://id.biodiversity.org.au/node/apni/7742937	Poranthera moorokatta	R.L.Barrett	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Phyllanthaceae		2
https://id.biodiversity.org.au/node/apni/7831290	Persoonia sulcata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/node/apni/8495539	Levenhookia dubia	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Hairy Stylewort	2
https://id.biodiversity.org.au/node/apni/8669896	Stylidium emarginatum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Biddy-four-legs	2
https://id.biodiversity.org.au/node/ausmoss/10058457	Archidium rehmannii	Mitt.	species	Plantae	Bryophyta	Bryopsida	Archidiales	Archidiaceae		2
https://id.biodiversity.org.au/node/ausmoss/10063237	Calymperastrum latifolium	(Hampe) I.G.Stone	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae		2
https://id.biodiversity.org.au/node/ausmoss/10079394	Fissidens curvatus	Hornsch.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Portuguese Pocket-moss	2
https://id.biodiversity.org.au/node/ausmoss/10102878	Philonotis tenuis	(Taylor) Reichardt	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae	Apple Moss	2
https://id.biodiversity.org.au/node/ausmoss/10104241	Pleuridium nervosum	(Hook.) Mitt.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Earth Moss	2
https://id.biodiversity.org.au/node/ausmoss/10108619	Racopilum cuspidigerum	(SchwÃ¤gr.) Ã…ngstr.	species	Plantae	Bryophyta	Bryopsida	Hypnodendrales	Racopilaceae	Carpet Moss	2
https://id.biodiversity.org.au/node/ausmoss/10110398	Rosulabryum campylothecium	(Taylor) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Sand Thread-moss	2
https://id.biodiversity.org.au/node/ausmoss/10110448	Rosulabryum capillare	(Hedw.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Capillary Thread-moss	2
https://id.biodiversity.org.au/node/ausmoss/10114913	Syntrichia laevipila	Brid.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Screw Moss	2
https://id.biodiversity.org.au/node/ausmoss/10117982	Tetrapterum cylindricum	(Taylor) A.Jaeger	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Pottia	2
https://id.biodiversity.org.au/node/ausmoss/10119510	Tortula muralis	Hedw.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Common Wall-moss	2
https://id.biodiversity.org.au/node/ausmoss/2888536	Paracromastigum longiscyphum	(Taylor) R.M.Schust. & J.J.Engel	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Lepidoziaceae	Fingerwort	2
https://id.biodiversity.org.au/node/ausmoss/2890163	Fossombronia intestinalis	Taylor	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Bubble Frillwort	2
https://id.biodiversity.org.au/node/ausmoss/2890539	Riccia limbata	Bisch.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Black-border Crystalwort	2
https://id.biodiversity.org.au/node/ausmoss/2893336	Fossombronia altilamellosa	G.A.M.Scott & D.C.Pike ex Cargill	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Crimson Frillwort	2
https://id.biodiversity.org.au/node/ausmoss/2903860	Fossombronia wattsii	Steph.	species	Plantae	Marchantiophyta	Jungermanniopsida	Fossombroniales	Fossombroniaceae	Frillwort	2
https://id.biodiversity.org.au/node/ausmoss/2917625	Riccia sorocarpa	Bisch.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Fleur-de-lys Crystalwort	2
https://id.biodiversity.org.au/node/fungi/60092335	Amanita ochroterrea	Gentilli ex Bas	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		2
https://id.biodiversity.org.au/node/fungi/60092361	Amanita preissii	(Fr.) Sacc.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae	Cinnamon-ring Lepidella	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/fungi/60092449	Amanita wadjukiorum	E.M.Davison	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		2
https://id.biodiversity.org.au/node/fungi/60092503	Bolbitius titubans	(Bull.) Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Bolbitiaceae		2
https://id.biodiversity.org.au/node/fungi/60092723	Cortinarius archeri	Berk.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		2
https://id.biodiversity.org.au/node/fungi/60095471	Hebeloma aminophilum	R.N.Hilton & O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		2
https://id.biodiversity.org.au/node/fungi/60097563	Coltricia cinnamomea	(Jacq.) Murrill	species	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Hymenochaetaceae		2
https://id.biodiversity.org.au/node/fungi/60097863	Rickenella fibula	(Bull.) Raithelh.	species	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Repetobasidiaceae		2
https://id.biodiversity.org.au/node/fungi/60098029	Fomitopsis lilacinogilva	(Berk.) J.E.Wright & J.R.Deschamps	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Fomitopsidaceae		2
https://id.biodiversity.org.au/node/fungi/60098053	Laetiporus portentosus	(Berk.) Rajchenb.	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Fomitopsidaceae	Polypore Fungi	2
https://id.biodiversity.org.au/node/fungi/60098405	Phlebia subceracea	(Wakef.) Nakasone	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Meruliaceae	Golden Splash Tooth	2
https://id.biodiversity.org.au/node/fungi/60102461	Ustilago tepperi	F.Ludw.	species	Fungi	Basidiomycota	Ustilaginomycetes	Ustilaginales	Ustilaginaceae		2
https://id.biodiversity.org.au/node/fungi/60103637	Tubifera ferruginosa	(Batsch) J.F.Gmel.	species	Protista	Amoebozoa	Myxogastrea	Liceida	Tubiferaceae		2
https://id.biodiversity.org.au/node/fungi/60112009	Peziza austrogeaster	(Rodway) Rifai	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pezizaceae		2
https://id.biodiversity.org.au/node/lichen/30086356	Hertelidea pseudobotryosa	R.C.Harris, Ladd & Printzen	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Stereocaulaceae		2
https://id.biodiversity.org.au/node/lichen/30088942	Xanthoparmelia crawfordensis	(Elix) Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/node/lichen/30088961	Xanthoparmelia elevata	Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/node/lichen/30089039	Xanthoparmelia microcephala	Elix & Kantvilas	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/node/lichen/30089081	Xanthoparmelia parvoclystoides	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		2
https://id.biodiversity.org.au/taxon/apni/51266535	Amaranthus viridis	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Green Amaranth	2
https://id.biodiversity.org.au/taxon/apni/51268348	Cirsium vulgare	(Savi) Ten.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Spear Thistle	2
https://id.biodiversity.org.au/taxon/apni/51268901	Pogonolepis stricta	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/taxon/apni/51268996	Sonchus asper	(L.) Hill	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Rough Sow-thistle	2
https://id.biodiversity.org.au/taxon/apni/51269070	Xanthium spinosum	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bathurst Burr	2
https://id.biodiversity.org.au/taxon/apni/51269785	Diplotaxis muralis	(L.) DC.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Wall Rocket	2
https://id.biodiversity.org.au/taxon/apni/51269933	Canna x orchiodes	L.H.Bailey	species	Plantae	Charophyta	Equisetopsida	Zingiberales	Cannaceae	Orchid-flowered Canna	2
https://id.biodiversity.org.au/taxon/apni/51270837	Cucumis myriocarpus	Naudin	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Prickly Paddy Melon	2
https://id.biodiversity.org.au/taxon/apni/51271090	Athrotaxis selaginoides	D.Don	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	King Billy Pine	2
https://id.biodiversity.org.au/taxon/apni/51283517	Drosera calycina	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		2
https://id.biodiversity.org.au/taxon/apni/51283586	Drosera macrophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Showy Sundew	2
https://id.biodiversity.org.au/taxon/apni/51285233	Senna artemisioides	(Gaudich. ex DC.) Randell	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Desert Cassia	2
https://id.biodiversity.org.au/taxon/apni/51286863	Acacia dealbata	Link	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Silver Wattle	2
https://id.biodiversity.org.au/taxon/apni/51288225	Orianthera serpyllifolia	(R.Br.) C.S.P.Foster & B.J.Conn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		2
https://id.biodiversity.org.au/taxon/apni/51288787	Babingtonia urbana	Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Coastal Plain Babingtonia	2
https://id.biodiversity.org.au/taxon/apni/51288966	Calothamnus accedens	Hawkeswood	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/taxon/apni/51289009	Calothamnus brevifolius	Hawkeswood	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		2
https://id.biodiversity.org.au/taxon/apni/51291297	Echinochloa colona	(L.) Link	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Awnless Barnyard-grass	2
https://id.biodiversity.org.au/taxon/apni/51291310	Echinochloa crus-pavonis	(Kunth) Schult.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Barnyard Grass	2
https://id.biodiversity.org.au/taxon/apni/51291699	Rumex acetosella	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Sorrel	2
https://id.biodiversity.org.au/taxon/apni/51293717	Desmocladus lateriflorus	(W.Fitzg.) B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		2
https://id.biodiversity.org.au/taxon/apni/51295029	Petrophile shuttleworthiana	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		2
https://id.biodiversity.org.au/taxon/apni/51303940	Lycianthes rantonnetii	(CarriÃ¨re) Bitter	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Blue Potato Bush	2
https://id.biodiversity.org.au/taxon/apni/51399044	Caladenia georgei	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tuart Spider Orchid	2
https://id.biodiversity.org.au/taxon/apni/51399186	Caladenia magniclavata	Nicholls	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Big Clubbed Spider Orchid	2
https://id.biodiversity.org.au/taxon/apni/51399333	Caladenia roei	Benth.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Ant Orchid	2
https://id.biodiversity.org.au/taxon/apni/51399456	Caladenia vulgata	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Spider Orchid	2
https://id.biodiversity.org.au/taxon/apni/51404213	Diuris drummondii	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Donkey Orchid	2
https://id.biodiversity.org.au/taxon/apni/51406606	Microtis alboviridis	R.J.Bates	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Scented Mignonette Orchid	2
https://id.biodiversity.org.au/taxon/apni/51412076	Pterostylis concava	D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Cupped Banded Greenhood	2
https://id.biodiversity.org.au/taxon/apni/51412104	Pterostylis dilatata	A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Robust Snail Orchid	2
https://id.biodiversity.org.au/taxon/apni/51412424	Pterostylis turfosa	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Bearded Bird Orchid	2

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51414286	Thelymitra fuscolutea	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Chestnut Sun Orchid	2
https://id.biodiversity.org.au/taxon/apni/51414378	Thelymitra pauciflora	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Sun Orchid	2
https://id.biodiversity.org.au/taxon/apni/51414432	Thelymitra variegata	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Queen Of Sheba	2
https://id.biodiversity.org.au/taxon/apni/51414436	Thelymitra villosa	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Custard Orchid	2
https://id.biodiversity.org.au/taxon/apni/51428929	Epitriche demissus	(A.Gray) P.S.Short	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		2
https://id.biodiversity.org.au/taxon/apni/51432712	Brassica oleracea	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Cabbage	2
https://id.biodiversity.org.au/taxon/apni/51433159	Dysphania pumilio	(R.Br.) Mosyakin & Clemants	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Small Crumbweed	2
https://id.biodiversity.org.au/taxon/apni/51438065	Moraea setifolia	(L.f.) Druce	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Thread Iris	2
https://id.biodiversity.org.au/taxon/apni/51439385	Pilularia novae-hollandiae	A.Braun	species	Plantae	Charophyta	Equisetopsida	Salviniales	Marsileaceae	Austral Pillwort	2
https://id.biodiversity.org.au/taxon/apni/51441855	Pterostylis ectypha	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Thick-sepaled Snail Orchid	2
https://id.biodiversity.org.au/taxon/apni/51442519	Aristida holathera	Domin	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Erect Kerosene Grass	2
https://id.biodiversity.org.au/taxon/apni/51442535	Avellinia festucoides	(Link) ValdÃ©s & H.Scholz	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Avellinia	2
https://id.biodiversity.org.au/taxon/apni/51442863	Setaria palmifolia	(J.Koenig) Stapf	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Palm Grass	2
https://id.biodiversity.org.au/taxon/apni/51445257	Banksia marginata	Cav.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Silver Banksia	2
https://id.biodiversity.org.au/taxon/apni/51445645	Hakea lorea	(R.Br.) R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Corkbark Tree	2
https://id.biodiversity.org.au/taxon/apni/51446343	Cotoneaster glaucophyllus	Franch.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Large-leaf Cotoneaster	2
https://id.biodiversity.org.au/taxon/apni/51447920	Stylidium bindoon	Lowrie & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Bindoon Triggerplant	2
https://id.biodiversity.org.au/taxon/apni/51447924	Stylidium diversifolium	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Touch-me-not	2
https://id.biodiversity.org.au/taxon/apni/51471289	Acacia lateriticola	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		2
https://id.biodiversity.org.au/taxon/apni/51633006	Eucalyptus foecunda	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Narrow-leaved Red Mallee	2
https://id.biodiversity.org.au/taxon/apni/51699381	Linaria maroccana	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae		2
https://id.biodiversity.org.au/taxon/apni/51737699	Asparagus officinalis	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Asparagus	2
https://id.biodiversity.org.au/taxon/apni/51742837	Chrysocephalum apiculatum	(Labill.) Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Common Everlasting	2
https://id.biodiversity.org.au/taxon/apni/51743570	Hyalosperma demissum	(A.Gray) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Dwarf Sunray	2
ALA_DR22913_1765	Psittacula krameri		species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Ring-necked Parakeet	1
ALA_DR22913_2197	Corvus splendens		species	Animalia	Chordata	Aves	Passeriformes	Corvidae	House Crow	1
ALA_DR24112_15	Limonium perezii		species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Plumbaginaceae	Sea Lavender	1
ALA_DR24112_151	Freesia alba X leichtlinii		species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		1
ALA_DR24112_24	Acrocephalus stentoreus		species	Animalia	Chordata	Aves	Passeriformes	Acrocephalidae	Clamorous Reed-warbler	1
ALA_DR24112_318	Centaurium erythraea X tenuiflorum		species	Plantae	Charophyta	Equisetopsida	Gentianales	Gentianaceae	Common Centaury X Slender Centaury Hybrid	1
NZOR-6-101149	Rhizopus stolonifer	(Ehrenb.) Vuill.	species	Fungi	Mucoromycota		Mucorales	Rhizopodaceae		1
NZOR-6-103326	Parmotrema robustum	(Degel.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-104765	Chrysothrix xanthina	(Vain.) Kalb	species	Fungi	Ascomycota	Arthoniomycetes	Arthoniales	Chrysothricaceae		1
NZOR-6-105757	Bromus japonicus	Thunb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
NZOR-6-109010	Placoasterella baileyi	(Berk. & Broome) Arx	species	Fungi	Ascomycota	Dothideomycetes	Asterinales	Parmulariaceae		1
NZOR-6-109023	Cladosporium echinulatum	(Berk.) G.A. de Vries	species	Fungi	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae		1
NZOR-6-110207	Xanthoparmelia subimitatrix	(Essl.) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-116386	Trapelia placodioides	Coppins & P.James	species	Fungi	Ascomycota	Lecanoromycetes	Agyriales	Trapeliaceae		1
NZOR-6-117143	Xanthoparmelia cheelii	(Gyeln.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-118121	Siphula coriacea	Nyl.	species	Fungi	Ascomycota	Lecanoromycetes	Pertusariales	Icmadophilaceae		1
NZOR-6-120100	Asparagopsis armata	Harv.	species	Plantae	Rhodophyta	Florideophyceae	Bonnemaisoniales	Bonnemaisoniaceae		1
NZOR-6-123041	Xanthoparmelia imitatrix	(Taylor) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-12393	Trapeliopsis flexuosa	(Fr.) Coppins & P.James	species	Fungi	Ascomycota	Lecanoromycetes	Agyriales	Agyriaceae		1
NZOR-6-124027	Lecidea ochroleuca	Pers.	species	Fungi	Ascomycota	Lecanoromycetes	Lecideales	Lecideaceae		1
NZOR-6-125817	Miyagia pseudosphaeria	(Mont.) JÃ¸rst.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
NZOR-6-126969	Podosphaera pannosa	(Wallr.) de Bary	species	Fungi	Ascomycota	Leotiomycetes	Erysiphales	Erysiphaceae		1
NZOR-6-128446	Ramularia grevilleana	(Oudem.) JÃ¸rst.	species	Fungi	Ascomycota	Dothideomycetes	Capnodiales	Mycosphaerellaceae		1
NZOR-6-129537	Trapelia lilacea	Kantvilas & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Agyriales	Trapeliaceae		1
NZOR-6-130837	Parmotrema perlatum	(Huds.) M.Choisy	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-13114	Ascochyta viciae	Lib.	species	Fungi	Ascomycota	Dothideomycetes	Pleosporales			1
NZOR-6-134014	Coprinopsis patouillardii	(QuÃ©l.) Gminder	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
NZOR-6-134498	Xanthoparmelia filarszkyana	(Gyeln.) Hale	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-15326	Elsinoe ampelina	Shear	species	Fungi	Ascomycota	Dothideomycetes	Myriangiales	Elsinoaceae		1
NZOR-6-25721	Xanthoparmelia digitiformis	(Elix & P.M.Armstr.) Filson	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-28285	Rhodymenia sonderi	P.C.Silva	species	Plantae	Rhodophyta	Florideophyceae	Rhodymeniales	Rhodymeniaceae		1
NZOR-6-33481	Pustula tragopogonis	(Pers.) Thines	species	Chromista	Oomycota	Oomycetes	Albuginales	Albuginaceae		1
NZOR-6-36002	Buellia macularis	Zahlbr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Physciaceae		1
NZOR-6-37339	Uromyces dianthi	(Pers.) Niessl	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
NZOR-6-45586	Uromyces viciae-fabae	(Pers.) J. SchrÃ¶t.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
NZOR-6-48496	Taxodium distichum	(L.) Rich.	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Southern Cypress	1
NZOR-6-50420	Teloschistes chrysophthalmus	(L.) Th.Fr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Teloschistaceae	Golden-eye Lichen	1
NZOR-6-54657	Acarospora citrina	(Taylor) Zahlbr. ex Rech.	species	Fungi	Ascomycota	Lecanoromycetes	Acarosporales	Acarosporaceae		1
NZOR-6-58290	Colletotrichum gloeosporioides	(Penz.) Penz. & Sacc.	species	Fungi	Ascomycota	Sordariomycetes	Glomerellales	Glomerellaceae		1
NZOR-6-59550	Pterocladia lucida	(Turner) J.Agardh	species	Plantae				Pterocladiaceae		1
NZOR-6-59671	Cladonia southlandica	W.Martin	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		1
NZOR-6-62969	Caloplaca cinnabarina	(Ach.) Zahlbr.	species	Fungi	Ascomycota	Lecanoromycetes	Teloschistales	Teloschistaceae		1
NZOR-6-64256	Laurencia brongniartii	J.Agardh (Pennycook & Samuels)	species	Plantae	Rhodophyta	Florideophyceae	Ceramiales	Rhodomelaceae		1
NZOR-6-64318	Neofusicoccum parvum	Crous, Slippers & A.J.L. Phillips	species	Fungi	Ascomycota	Dothideomycetes	Botryosphaeriales	Botryosphaeriaceae		1
NZOR-6-68200	Schizymenium bryoides	Harv.	species	Plantae	Bryophyta	Bryopsida	Bryales	Mniaceae	Copper Moss	1
NZOR-6-73414	Asparagopsis taxiformis	(Delile) Trevis.	species	Plantae	Rhodophyta	Florideophyceae	Bonnemaisoniales	Bonnemaisoniaceae		1
NZOR-6-74083	Xanthoparmelia australasica	D.J.Galloway	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-74117	Rosulabryum billardierei	(SchwÃ¤gr.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae		1
NZOR-6-75681	Hypocenomyce australis	Timdal	species	Fungi	Ascomycota	Lecanoromycetes	Umbilicariales	Ophioparmaceae		1
NZOR-6-79056	Nitella pseudoflabellata	(A. Braun) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae	Green Algae	1
NZOR-6-89950	Cladonia rigida	(Hook.f. & Taylor) Hampe	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		1
NZOR-6-907	Thysanothecium hookeri	Mont. & Berk.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Cladoniaceae		1
NZOR-6-94580	Austroparmelina conlabrosa	(Hale) A. Crespo, Divakar & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
NZOR-6-96037	Rhizocarpon superficiale	(Schaer.) Malme	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Rhizocarpaceae		1
NZOR-6-97541	Lamprothamnium papulosum	(Wallr.) R.D. Wood	species	Plantae	Chlorophyta	Charophyceae	Charales	Characeae		1
NZOR-6-98277	Punctelia subalbicans	(Stirt.) D.J.Galloway & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://biodiversity.org.au/afd/taxa/0033e1ce-0082-4b5d-9332-3f55d6d19c82	Karaops jarrit	Crews & Harvey, 2011	species	Animalia	Arthropoda	Arachnida	Araneae	Selenopidae		1
https://biodiversity.org.au/afd/taxa/00d09e2d-a082-4d00-ae78-1e97a5868eda	Neorhaphiomidas hardyi	Norris, 1936	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/010901ae-4678-4ac4-8fdd-421770459ecd	Harpobittacus phaeoscius	Riek, 1954	species	Animalia	Arthropoda	Insecta	Mecoptera	Bittacidae		1
https://biodiversity.org.au/afd/taxa/01355d97-63da-40a7-ad5e-b5174d4cf0be	Polyphrades pusillus	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/0175df2f-07e1-49ef-8aad-c284da9c1cbc	Primeuchroeus reversus	(Smith, 1874)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		1
https://biodiversity.org.au/afd/taxa/0181c460-ab05-4cec-8fb6-baa4e7631cfb	Coelostoma (Coelostoma) fabricii	(Montrouzier, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae		1
https://biodiversity.org.au/afd/taxa/01f03301-5a76-4fb7-886d-41712c37fc8a	Chloroclystis insigillata	(Walker, 1862)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/01f753dd-0e2c-411b-8262-0e3c0549e96b	Castiarina cyanipes	(Saunders, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae	Jewel Beetle	1
https://biodiversity.org.au/afd/taxa/01fe0fa5-487e-431f-8906-04f27a755d64	Talaurinus carbonarius	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/0217d265-d00e-44d7-84f3-b769c11c098e	Baiami volucripes	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae		1
https://biodiversity.org.au/afd/taxa/0240ea31-fc77-4667-9ac8-60ffb96235d8	Nemestra incerta	Pascoe, 1872	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/02b00011-052c-435f-8e8d-4561eafde34e	Euthenarus comes	Sloane, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/03067cf4-ba2b-454a-9e3b-8286ef8b7173	Velesunio ambiguus	(Philippi, 1847)	species	Animalia	Mollusca	Bivalvia	Unionida	Hyriidae	Southern Mussel	1
https://biodiversity.org.au/afd/taxa/036e9a3b-e700-4e05-af6e-53d811230798	Diadoxus erythrurus	(White, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae	Small Cypress Jewel Beetle	1
https://biodiversity.org.au/afd/taxa/03708a1b-5fa4-4bb9-986b-5114b695fa68	Ericibdela delotis	(Meyrick, 1888)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/039e21af-7b23-4a2a-a423-16a3865121b1	Notoncus gilberti	Forel, 1895	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Smooth Epaulet Ant	1
https://biodiversity.org.au/afd/taxa/04a9f785-5c14-4623-9483-36bbe13e7550	Bembix atrifrons	Smith, 1856	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	1
https://biodiversity.org.au/afd/taxa/05609eaa-f1c7-491c-8124-d35beb0bc8b6	Camponotus prostans	Forel, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/056429cc-4b19-4805-8768-1cbf5ba97197	Scopula optivata	(Walker, 1861)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/05ace6f8-2afc-4a3c-be69-ad22804a7dad	Ctenolepisma (Ctenolepisma) longicaudata	Escherich, 1905	species	Animalia	Arthropoda	Insecta	Zygentoma	Lepismatidae	Silverfish	1
https://biodiversity.org.au/afd/taxa/06543cf1-fca2-4b8f-8231-d163f7427bfe	Leucospis morawitzi	Schletterer, 1890	species	Animalia	Arthropoda	Insecta	Hymenoptera	Leucospidae		1
https://biodiversity.org.au/afd/taxa/06e9edc4-038a-4dcf-85ea-6cc8b07e6c7a	Periclystus laceratus	Gerstaecker, 1888	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		1
https://biodiversity.org.au/afd/taxa/07289600-5b05-4c91-99cd-e2b9a7b25105	Perga konowi	Benson, 1939	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae		1
https://biodiversity.org.au/afd/taxa/072d2786-ca6a-4a7f-bb2f-18344a74ccee	Ocynoma antennatum	Pascoe, 1873	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/0796c4dd-d1c6-4e93-819a-fbe6447c4446	Purnella albifrons	(Gould, 1841)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-fronted Honeyeater	1
https://biodiversity.org.au/afd/taxa/079e885d-57c1-4487-b108-94809234bc35	Platycephalus endrachtensis	Quoy & Gaimard, 1825	species	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae	Northern Sand Flathead	1
https://biodiversity.org.au/afd/taxa/0856b247-88a4-4e4b-933a-753277e7f269	Ochetellus glaber	(Mayr, 1862)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Black House Ant	1
https://biodiversity.org.au/afd/taxa/08794605-a84e-4209-9b6f-70414df90be1	Sandava xylistis	Swinhoe, 1900	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/08d932ef-d644-4067-a5de-004cf8f9694c	Cylindrococcus spiniferus	Maskell, 1892	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae	Casuarina Gall	1
https://biodiversity.org.au/afd/taxa/08fd576b-9e64-4f0a-a7ed-44a294301035	Antichiropus minimus	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		1
https://biodiversity.org.au/afd/taxa/095c20f5-7bc6-4b63-a7ae-9254aa5242e2	Neophema (Neonanodes) petrophila	(Gould, 1841)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Rock Parrot	1
https://biodiversity.org.au/afd/taxa/0974b5aa-f5bf-47cc-9cf3-337dcc113c19	Onychoprion anaethetus	(Scopoli, 1786)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Bridled Tern	1
https://biodiversity.org.au/afd/taxa/097f92fa-3515-4d0e-9ea1-5d95b55f3650	Delena convexa	(Hirst, 1991)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		1
https://biodiversity.org.au/afd/taxa/099bc1ea-9508-4e50-88a0-a0aebacc96e2	Staurostichus hilaris	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		1
https://biodiversity.org.au/afd/taxa/0ab5a3f0-5fcc-4f27-bec2-6991055ceeff	Sandalodes joannae	Zabka, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/0ac89650-67a0-4257-9a6b-5e03bafef2df	Catostylus mosaicus	(Quoy & Gaimard, 1824)	species	Animalia	Cnidaria	Scyphozoa	Rhizostomeae	Catostylidae	Blue Blubber	1
https://biodiversity.org.au/afd/taxa/0acfe418-cf4f-4864-8c9b-48f0b2fab987	Parlatoria pittospori	Maskell, 1891	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae	Scale Insect	1
https://biodiversity.org.au/afd/taxa/0ad6c015-f291-4d81-9fdd-a6d081905e60	Xanthesma (Xenohesma) perpulchra	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/0b7f7692-a1c6-4b97-8ae0-528ee261fb56	Abantiades albofasciatus	(Swinhoe, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae		1
https://biodiversity.org.au/afd/taxa/0bdab8a4-6ff2-4de2-97bb-ce38e2c26ee5	Leptophion tetus	Gauld, 1977	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/0c739559-1821-4357-849d-6432babc7aed	Rodwayia occidentalis	Lea, 1907	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptiliidae		1
https://biodiversity.org.au/afd/taxa/0cacb346-fe84-4fa2-b09f-acaa68730c40	Synsphyronus magnus	Hoff, 1947	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Garypidae		1
https://biodiversity.org.au/afd/taxa/0d0a94ac-fc6d-4877-8110-f69aa1a223a0	Tamopsis darlingtoniana	Baehr & Baehr, 1987	species	Animalia	Arthropoda	Arachnida	Araneae	Hersiliidae		1
https://biodiversity.org.au/afd/taxa/0d6726cc-fd16-437e-bea7-14da24bf8b0f	Diaphania indica	(Saunders, 1851)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		1
https://biodiversity.org.au/afd/taxa/0d7a200d-1f14-4b76-8c84-54d02244fe7b	Simplisetia erythraeensis	Fauvel, 1918	species	Animalia	Annelida	Polychaeta		Nereididae	Rag Worm	1
https://biodiversity.org.au/afd/taxa/0dcae410-bb1b-4708-9074-f0570eac26e1	Amphiclasta lygaea	Turner, 1906	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/0e7c0e43-0c27-43d6-bd02-87ad064d8af4	Gowidon longirostris	(Boulenger, 1883)	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Long-nosed Dragon	1
https://biodiversity.org.au/afd/taxa/0ed5555a-8058-4018-a9a0-70e5a4c3d050	Amphibalanus amphitrite	(Darwin, 1854)	species	Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae		1
https://biodiversity.org.au/afd/taxa/0f40471f-472a-4b31-9805-01a20938c48c	Trichocolletes capillosus	Batley & Houston, 2012	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/0fc00991-5858-409d-bb8f-e1f14fb4f412	Orcus australasiae	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		1
https://biodiversity.org.au/afd/taxa/10094c32-acf3-489f-aad1-0daf83ccf258	Pseudaonidia dryandrae	(Fuller, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/103640bf-ff87-4bc4-94f9-6e4956ea7dca	Chloroclystis catastreptes	(Meyrick, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/112d02bc-0878-49e1-b605-d971d27698e3	Eudynamys orientalis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Cuculiformes	Cuculidae	Eastern Koel	1
https://biodiversity.org.au/afd/taxa/11b2e880-2b65-4431-896a-d91c0988af77	Amblyomma albolimbatum	Neumann, 1906	species	Animalia	Arthropoda	Arachnida	Ixodida	Ixodidae		1
https://biodiversity.org.au/afd/taxa/12521f6f-d06c-4f05-bc88-ac56877c4a1e	Pentasteron securifer	Baehr & JocquÃ©, 2001	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/1265b13a-52b4-462f-8b28-0575df7ff68d	Glareola (Glareola) maldivarum	J.R. Forster, 1795	species	Animalia	Chordata	Aves	Charadriiformes	Glareolidae	Oriental Pratincole	1
https://biodiversity.org.au/afd/taxa/12893c80-8063-4307-b4c9-25a76da45225	Gomphina undulosa	(Lamarck, 1818)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae	Waved Venus	1
https://biodiversity.org.au/afd/taxa/12efb8ec-589f-468f-9df2-a92fc7ae9c66	Kahaono wallacei	Evans, 1966	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	1
https://biodiversity.org.au/afd/taxa/131e4ca3-1d91-440f-93aa-c0c06f667411	Tachystola hemisema	(Meyrick, 1885)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Hemisema Moth	1
https://biodiversity.org.au/afd/taxa/135ae429-04d3-4222-a2ed-a64a45fb567d	Synchonnus corrugatus	Pic, 1923	species	Animalia	Arthropoda	Insecta	Coleoptera	Lycidae		1
https://biodiversity.org.au/afd/taxa/13770e33-7183-4997-a5f9-7a520d3d5e80	Polichne spinulosa	Brunner von Wattenwyl, 1879	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/139377a3-36bd-4f07-a46b-8d1a433b1614	Pergagrapta glabra	(Kirby, 1882)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	1
https://biodiversity.org.au/afd/taxa/13a31834-0f30-4a9c-a68f-a22dd3d3158b	Onychoprion fuscatus	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Sooty Tern	1
https://biodiversity.org.au/afd/taxa/14415184-3538-401b-88ae-80ff8df5f49a	Sidarena hortorum	Irwin & Winterton, 2016	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		1
https://biodiversity.org.au/afd/taxa/14dd4ad6-b963-4156-8783-1bdcd05987e8	Megalopsalis tanisphyros	Taylor, 2011	species	Animalia	Arthropoda	Arachnida	Opiliones	Neopilionidae		1
https://biodiversity.org.au/afd/taxa/152e2c52-de10-4131-bae3-210410b63fac	Tarsostenus univittatus	(Rossi, 1792)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/154ad4d5-98af-4c91-a4fe-3772149bca3f	Camponotus ceriseipes	Clark, 1938	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/15b99c6c-ee4c-44e2-97af-6e7b18c975a0	Abantiades hydrographus	(R. Felder, 1874)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae		1
https://biodiversity.org.au/afd/taxa/15c5f3de-3b2e-4647-adb1-8dd1891dba26	Melanozosteria triangulata	(Brunner von Wattenwyl, 1893)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		1
https://biodiversity.org.au/afd/taxa/15e09f34-5033-424e-a37c-d6bb55f30b26	Rattus norvegicus	(Berkenhout, 1769)	species	Animalia	Chordata	Mammalia	Rodentia	Muridae	Brown Rat	1
https://biodiversity.org.au/afd/taxa/16171fac-8d6c-4327-9fab-f2db864d71bf	Cyprinus carpio	Linnaeus, 1758	species	Animalia	Chordata	Actinopterygii	Cypriniformes	Cyprinidae	European Carp	1
https://biodiversity.org.au/afd/taxa/16539cfc-a465-498f-a258-56e85293c77d	Hydrochus australis	Motschulsky, 1860	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrochidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/1699b7ff-fc43-4b5a-9c00-7a911d203317	Argiope keyserlingi	Karsch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	St Andrew's Cross Spider	1
https://biodiversity.org.au/afd/taxa/16c9e56c-64e6-4c7c-9056-f8b70c29408f	Melobasis gratiosissima	Thomson, 1879	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/171325ce-7d2e-48de-8185-9bcffe4e780e	Temognatha lessonii	(Gory, 1841)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/17856271-c8cf-4e2c-9a72-fff4fd41b12d	Tetramorium striolatum	Viehmeyer, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/17d59974-8572-4bc7-909c-4a97550b1af8	Cheumatopsyche modica	(McLachlan, 1871)	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/184b6687-2d58-4ff2-b0fd-93f462f65333	Syllitus grammicus	(Newman, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Slenderlined Longicorn	1
https://biodiversity.org.au/afd/taxa/18b91b1d-765f-418d-a711-9951c1c43121	Sphallomorpha fallax	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/18ce1ee7-24ab-4da5-88aa-66fafbf0b41a	Garrha amata	(Meyrick, 1914)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/18d4c48a-5500-4c6f-b3ac-997231a7ad86	Cnidoglanis macrocephalus	(Valenciennes, 1840)	species	Animalia	Chordata	Actinopterygii	Siluriformes	Plotosidae	Estuary Cobbler	1
https://biodiversity.org.au/afd/taxa/18dc7440-15cf-442f-9212-21c1ae66ebfe	Tumulitermes apiocephalus	(Silvestri, 1909)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		1
https://biodiversity.org.au/afd/taxa/19606b31-0b98-4ea6-8f6b-bfc7dc817347	Thelohania parastaci	Moodie, Le Jambre & Katz, 2003	species	Protista	Microsporidia	Microsporea	Microsporida	Thelohaniidae		1
https://biodiversity.org.au/afd/taxa/196e0240-e017-4a5d-9010-a80f4334223e	Phenacoccus solenopsis	Tinsley, 1898	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/197536bd-1a87-4329-bb1d-916bff52890c	Platylister (Popinus) strangulatus	(Marseul, 1870)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/19dbb0fd-77c4-442a-989e-e2e6aea38d7a	Androchela milvaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/1a91988e-e958-4565-b936-5c45d072a78e	Copelatus ater	Sharp, 1882	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/1aec2df3-815a-4518-8334-1b9ed529c48f	Storena sinuosa	JocquÃ© & Baehr, 1992	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/1afc2e2d-c021-4cfb-8fa8-b002ac1ed3f2	Charadrius (Charadrius) bicinctus	Jardine & Selby, 1827	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Double-banded Plover	1
https://biodiversity.org.au/afd/taxa/1b38fca7-8fa6-46d6-ad99-ab18b2f68090	Dacnodes shortridgei	(Burr, 1914)	species	Animalia	Arthropoda	Insecta	Dermaptera	Pygidicranidae		1
https://biodiversity.org.au/afd/taxa/1b7907ea-d9a3-4175-9642-e37a3955211a	Pterodontia mellii	Erichson, 1840	species	Animalia	Arthropoda	Insecta	Diptera	Acroceridae	Fly	1
https://biodiversity.org.au/afd/taxa/1c057f71-f2ce-4e03-87a6-6e2f92e97fd5	Paralastor neochromus	Perkins, 1914	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		1
https://biodiversity.org.au/afd/taxa/1c33b27e-4807-4afe-b641-f155f5288947	Castiarina dilatata	(Carter, 1927)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/1c3badff-861f-4c7f-ae9e-cd8bbffb5839	Diphucrania parva	(Blackburn, 1887)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/1c4a0ea9-ce85-4495-9962-235c421f7c99	Stephanopis corticalis	L. Koch, 1876	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		1
https://biodiversity.org.au/afd/taxa/1c8c03f4-93d1-4565-92f8-fc6c96c61fe1	Chrysis australis	Bohart, 1985	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		1
https://biodiversity.org.au/afd/taxa/1c8f1df9-4493-4409-8624-a6f097e4b86b	Lasioglossum (Homalictus) dotatum	(Cockerell, 1912)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/1cddec9c-b60f-4412-9402-e6f18d19350d	Belosquilla laevis	(Hess, 1865)	species	Animalia	Arthropoda	Malacostraca	Stomatopoda	Squillidae	Smooth Mantis Shrimp	1
https://biodiversity.org.au/afd/taxa/1d6a6f13-ab97-4378-811a-5268a4560213	Ametalla spinolae	Hope, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/1d8f8c4b-db14-40b8-a7ca-dd7c244a5c8b	Monistria latevittata	SjÃ¶stedt, 1921	species	Animalia	Arthropoda	Insecta	Orthoptera	Pyrgomorphidae		1
https://biodiversity.org.au/afd/taxa/1d960577-ff89-4d60-88f0-bc38e37de0ac	Pseudanapaea dentifascia	Hering, 1931	species	Animalia	Arthropoda	Insecta	Lepidoptera	Limacodidae		1
https://biodiversity.org.au/afd/taxa/1e91b319-844a-463d-86bb-ebade3d1dd94	Idiosoma cupulifex	(Main, 1957)	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		1
https://biodiversity.org.au/afd/taxa/2038cde4-07ac-4785-8e3a-2f2c0ac3154e	Adelium breviusculum	Gebien, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/20501349-c07a-4c17-94d3-ee2ccd77ca83	Castiarina rufolimbata	(Carter, 1916)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/20812727-98cd-4721-8268-2417298d9b02	Mezium americanum	(Laporte, 1840)	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		1
https://biodiversity.org.au/afd/taxa/2115f89b-129d-4fae-a7a4-e49305f30977	Endoxyla coscinophanes	(Turner, 1945)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cossidae		1
https://biodiversity.org.au/afd/taxa/2169f40c-56f7-4831-a016-d340e8f55cb8	Teleogryllus commodus	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Gryllidae	Black Field Cricket	1
https://biodiversity.org.au/afd/taxa/21734a28-992e-43f6-8686-c8ed4c63d22d	Urodacus manicatus	(Thorell, 1876)	species	Animalia	Arthropoda	Arachnida	Scorpiones	Urodacidae	Black Rock Scorpion	1
https://biodiversity.org.au/afd/taxa/2183dce8-33ec-48bc-9d2c-121e3bc36945	Dichromodes euprepes	Prout, 1910	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/21ccaa12-e1cd-4ea4-9f6f-051d60ee6d21	Paralecanium frenchii	(Maskell, 1891)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coccidae		1
https://biodiversity.org.au/afd/taxa/221440bb-fc69-4184-9cac-fa7377f48e91	Raractocetus kreusleri	(Pascoe, 1864)	species	Animalia	Arthropoda	Insecta	Coleoptera	Lymexylidae		1
https://biodiversity.org.au/afd/taxa/224e55e0-e286-49b6-be9b-8526ef332015	Cerceris gilesi	Turner, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		1
https://biodiversity.org.au/afd/taxa/22558283-355c-4d8a-bdf3-b1a717726059	Neoseiulus dieteri	(Schicha, 1979)	species	Animalia	Arthropoda	Arachnida	Mesostigmata	Phytoseiidae		1
https://biodiversity.org.au/afd/taxa/22ccf62c-3896-42a8-9ff4-33db59a51e76	Gymnapistes marmoratus	(Cuvier, 1829)	species	Animalia	Chordata	Actinopterygii	Scorpaeniformes	Tetrarogidae	Soldier	1
https://biodiversity.org.au/afd/taxa/24e9928c-7cc0-4cd4-b4fe-d3e30ecab9c2	Syntonarcha iriastis	Meyrick, 1890	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		1
https://biodiversity.org.au/afd/taxa/2504bbe5-7b2c-4ab6-af56-395c1ebfbb63	Dysmicoccus waustensis	Qin & Gullan, 1990	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/2553bf22-2538-474e-9baf-79007cf8e8d2	Cryptodus variolosus	White, 1841	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/25875948-bfe9-42e1-ad69-eb06a9263d0e	Oecetis laustra	Mosely, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/25a3be6b-b732-48db-ac2c-709015ae3a8a	Tricoryna punctulativentris	(Girault, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Eucharitidae		1
https://biodiversity.org.au/afd/taxa/25fb5676-7119-4d42-a6ba-ffefa490b12d	Synthemis eustalacta	(Burmeister, 1839)	species	Animalia	Arthropoda	Insecta	Odonata	Synthemistidae	Swamp Tigertail	1
https://biodiversity.org.au/afd/taxa/26795f0f-1248-4104-8b25-569fe5665576	Synaleurodicus serratus	Martin, 1999	species	Animalia	Arthropoda	Insecta	Hemiptera	Aleyrodidae		1
https://biodiversity.org.au/afd/taxa/2681ac8d-6ecb-47e9-8f6b-a4b855760700	Ereiconastes butyrea	(Turner, 1935)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/269a5e22-a158-4966-b5de-f3ac10d4dd44	Dichromodes compsotis	Meyrick, 1890	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/272261b5-5575-473d-9fbf-a0ac39ed2add	Microxeromagna lowei	(Potiez & Michaud, 1838)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Citrus Snail	1
https://biodiversity.org.au/afd/taxa/27798195-db8e-4d18-b3c6-0f5445fccaec	Hybogralius hartmeyeri	(RÃ©gimbart, 1908)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/27a8ae5d-7e58-4bec-b7b2-f4eebda40ae1	Dexerra angularis	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/28667d0e-1cc0-42d4-8d2f-e548c7ec22d2	Symplecta (Trimicra) pilipes	(Fabricius, 1787)	species	Animalia	Arthropoda	Insecta	Diptera	Limoniidae		1
https://biodiversity.org.au/afd/taxa/288c30e9-4ebb-4609-ac9a-6257fd542ff0	Timareta crinita	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/28e32db7-9b48-4247-bbc6-c41878ad4f61	Falsistrellus mackenziei	Kitchener, Caputi & Jones, 1986	species	Animalia	Chordata	Mammalia	Chiroptera	Vespertilionidae	Western False Pipistrelle	1
https://biodiversity.org.au/afd/taxa/292e4eec-920c-4926-9e7d-22ff35fb4dfc	Iridomyrmex splendens	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	1
https://biodiversity.org.au/afd/taxa/29c4ad35-d5e0-47e2-b37d-bcfe1fdd2d59	Tracholena sulfurosa	(Meyrick, 1910)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/29cee780-0fc0-4ddb-a83a-c1d6908dbf39	Phoracantha odewahnii	Pascoe, 1864	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/2a98a8e0-f2ba-4824-b545-9a4ba5032fb2	Hanoniscus tuberculatus	Budde-Lund, 1912	species	Animalia	Arthropoda	Malacostraca	Isopoda	Oniscidae		1
https://biodiversity.org.au/afd/taxa/2a9e3b87-7cc1-43fb-b236-bcc112da1dca	Stiltia isabella	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Charadriiformes	Glareolidae	Australian Pratincole	1
https://biodiversity.org.au/afd/taxa/2ae13397-85e2-45cb-8a6c-6271e92964a4	Limax maximus	Linnaeus, 1758	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Limacidae	Leopard Slug	1
https://biodiversity.org.au/afd/taxa/2b00cb95-b55d-43f7-9aba-b0fa1c06cae1	Platyzosteria fallax	(Walker, 1868)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		1
https://biodiversity.org.au/afd/taxa/2b61c53a-cf16-445c-b03a-a9a9ca163dd4	Megaporus solidus	(Sharp, 1882)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/2ba88fd9-4afa-444f-8165-f1ebb0fbf728	Achyra affinitalis	(Lederer, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/2bea0a2b-a7ad-4f41-8a72-7e35b25efabf	Paracymus pygmaeus	(W.J. Macleay, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/2c610213-bb25-4ed0-9a4b-368dd3e8a555	Australomimetus spinosus	Heimer, 1986	species	Animalia	Arthropoda	Arachnida	Araneae	Mimetidae		1
https://biodiversity.org.au/afd/taxa/2cb66fde-af74-4c50-a6fd-e7906752a396	Aleucosia australensis	(Evenhuis, 1980)	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		1
https://biodiversity.org.au/afd/taxa/2cec2484-ec94-470c-b749-f3765c576a73	Chelaner leae	(Forel, 1913)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	1
https://biodiversity.org.au/afd/taxa/2cef7dd5-fdd4-4529-8bc7-1746cfa680c7	Eufrenchia falcata	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Membracidae	Treehopper	1
https://biodiversity.org.au/afd/taxa/2d412aaa-15e5-4b26-9a44-57fd5fdd1293	Apiomorpha helmsii	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/2d41626a-fc2f-4fb9-8a35-a7bd855c1982	Uraba lugens	Walker, 1863	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae	Gum-leaf Skeletoniser	1
https://biodiversity.org.au/afd/taxa/2d45d64b-8ecf-4aef-847a-69d0af85e098	Molophilus (Molophilus) flavoannulatus	Alexander, 1927	species	Animalia	Arthropoda	Insecta	Diptera	Limoniidae		1
https://biodiversity.org.au/afd/taxa/2d4b1471-5bbc-4f30-9327-7091abf85ffc	Leucauge dromedaria	(Thorell, 1881)	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		1
https://biodiversity.org.au/afd/taxa/2e407d03-f15f-4bfb-8cb0-0e8dab31bb38	Tanyzancla melanocrossa	(Meyrick, 1889)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/2e581b4a-e8bc-4d05-98e8-c3282f57e618	Anomis flava	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/2e7f9078-4aab-425a-8036-66d7b1b8c95a	Tachynomyia aurifrons	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/306ced7b-9c6b-4e40-934b-1c13fe8bbd6a	Debiliana GROUP debiliana	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Leafroller Moth	1
https://biodiversity.org.au/afd/taxa/307e4cb6-baf4-44be-bbe1-8ce6ad7df09c	Leptotarsus (Leptotarsus) kalamundaensis	Dobrotworsky, 1972	species	Animalia	Arthropoda	Insecta	Diptera	Tipulidae		1
https://biodiversity.org.au/afd/taxa/30e51139-20c8-4d9a-b9f4-9be1f34dae3f	Lampona yanchep	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		1
https://biodiversity.org.au/afd/taxa/3103c529-ddbe-4bc0-9067-fbe2e21a5c39	Cherax tenuimanus	(Smith, 1912)	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Yabbies	1
https://biodiversity.org.au/afd/taxa/31389480-c201-4022-801d-bc8180f50352	Leptanilla swani	Wheeler, 1932	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/31d6550b-b03e-48f5-9673-71ba72cd55d1	Questopogon affinis	Daniels, 1976	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/31f1be53-cbd0-4e3c-91c1-3ee9e66893a9	Notagonum submetallicum	(White, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae	Submetallic Ground Beetle	1
https://biodiversity.org.au/afd/taxa/326ba5a9-e3ea-4feb-8c0e-5d71f57a4df9	Camponotus consobrinus	(Erichson, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Banded Sugar Ant	1
https://biodiversity.org.au/afd/taxa/328080c3-b7bc-49fc-954a-3708e59642d1	Phytometra formosalis	(Walker, 1866)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/32b4807d-3132-4691-811a-3497e4241ecd	Dolichoderus parvus	Clark, 1930	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Dolly Ant	1
https://biodiversity.org.au/afd/taxa/32b587ca-bc16-4e9f-9c25-27d55b2c36bb	Scobinichthys granulatus	(White, 1790)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	Rough Leatherjacket	1
https://biodiversity.org.au/afd/taxa/32bd894d-7b06-4788-9732-25b8ce58d4e3	Lasioglossum (Chilalictus) mundulum	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	1
https://biodiversity.org.au/afd/taxa/33210dc1-4501-456d-9112-56b531c45ebe	Perilampomyia notatifrons	Girault, 1916	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/33702f89-60b2-4098-9cb0-20180783514d	Passer (Passer) domesticus	(Linnaeus, 1758)	species	Animalia	Chordata	Aves	Passeriformes	Passeridae	House Sparrow	1
https://biodiversity.org.au/afd/taxa/33780c17-6ce3-4315-8ccf-850a40ed0be6	Carcharhinus leucas	(MÃ¼ller & Henle, 1839)	species	Animalia	Chordata	Chondrichthyes	Carcharhiniformes	Carcharhinidae	Bull Shark	1
https://biodiversity.org.au/afd/taxa/33e5a445-8377-4e00-83ec-a43f5622f493	Tmesiphorus ponerae	Lea, 1910	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/3433fe69-d1e1-4fbc-9741-7e0c516eff48	Leptoperla australica	(Enderlein, 1909)	species	Animalia	Arthropoda	Insecta	Plecoptera	Gripopterygidae	Stonefly	1
https://biodiversity.org.au/afd/taxa/345c3638-d1ea-4967-8137-a1bf8133cdf3	Phoracantha elegans	Blackburn, 1894	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/348b1556-8f9c-473d-986f-4b306a9b5769	Smiliopus quadrinotatus	(Reuter, 1881)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	1
https://biodiversity.org.au/afd/taxa/34a53188-1116-4579-82de-5d3c9c973dbb	Hemicloea sublimbata	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Gnaphosidae		1
https://biodiversity.org.au/afd/taxa/35d18d0a-6f74-4c03-b519-3518ac4a35e4	Ephutomorpha fulvocrinita	Turner, 1940	species	Animalia	Arthropoda	Insecta	Hymenoptera	Mutillidae		1
https://biodiversity.org.au/afd/taxa/36590edf-c9bf-47ac-968d-3bba67f6fb45	Escura nigrosignata	(Tillyard, 1916)	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		1
https://biodiversity.org.au/afd/taxa/36aefc9e-46d8-4751-8dea-09aab3ad771a	Leptoperla bubalus	Theischinger, 1980	species	Animalia	Arthropoda	Insecta	Plecoptera	Gripopterygidae	Stonefly	1
https://biodiversity.org.au/afd/taxa/36fcd47e-c0cb-47a4-96e9-24336b966809	Creontiades dilutus	(StÃ¥l, 1859)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Green Mirid	1
https://biodiversity.org.au/afd/taxa/3726e182-161b-43b0-be02-1959d228edc2	Bothriembryon (Bothriembryon) onslowi	(Cox, 1864)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		1
https://biodiversity.org.au/afd/taxa/3831e65a-7f4d-401d-a93a-8679ede7e0c6	Oligeriops dimorphon	(Ferguson, 1926)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		1
https://biodiversity.org.au/afd/taxa/385fec45-3cfa-4e8a-b698-c14e23f4c8ae	Tachynomyia abdominalis	(GuÃ©rin-MÃ©neville, 1842)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/389b53a8-ada3-4ab6-bc82-1379a034a02e	Gerallus dimidiatus	Raffray, 1900	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/38e8c7f6-f05b-4412-a4a6-14474fb0e2ad	Ctenotus delli	Storr, 1974	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Darling Range South-west Ctenotus	1
https://biodiversity.org.au/afd/taxa/38f74819-5d5b-4b18-8920-d18a35bc6198	Euomus stephensii	(Gyllenhal, 1834)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/390dc7f0-3948-41b4-ae44-880ba8ad8c90	Hister ambulator	Thayer, 1991	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/39a71c86-050b-494c-8bac-bbbbf0989fbb	Anilios bituberculatus	(Peters, 1863)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Prong-snouted Blind Snake	1
https://biodiversity.org.au/afd/taxa/39d03242-c05e-4b87-9345-042baabb315d	Galleria mellonella	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Greater Wax Moth	1
https://biodiversity.org.au/afd/taxa/3a62744d-5707-4970-81a5-2a2b1f970261	Megachile (Mitchellapis) fabricator	Smith, 1868	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		1
https://biodiversity.org.au/afd/taxa/3a83c473-14ad-49e3-961c-0566240f117f	Opodiphthera helena	(White, 1843)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Saturniidae	Helena Emperor Moth	1
https://biodiversity.org.au/afd/taxa/3a9a93ab-d9e5-441d-a7f0-bf7f68bde991	Peridiococcus ethelae	(Fuller, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/3a9e360a-68e1-4f05-9bca-ba7743341473	Myrmecophilus (Myrmecophilus) testaceus	Chopard, 1926	species	Animalia	Arthropoda	Insecta	Orthoptera	Myrmecophilidae		1
https://biodiversity.org.au/afd/taxa/3ad0bfba-4997-49d7-9c8b-a3d7563e63c8	Euryspilus chalcodes	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/3ad981ec-a167-4919-af32-1bc19e5e833d	Ethmia anthracopis	(Meyrick, 1902)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Ethmiidae		1
https://biodiversity.org.au/afd/taxa/3b14af93-c078-439b-84dc-8f6cbafb888d	Aname fuscocincta	Rainbow & Pulleine, 1918	species	Animalia	Arthropoda	Arachnida	Araneae	Anamidae		1
https://biodiversity.org.au/afd/taxa/3b2f1786-163d-4a76-9993-cb606cafd43b	Creophilus erythrocephalus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae	Devil's Coach-horse	1
https://biodiversity.org.au/afd/taxa/3c037e57-9ac2-4a41-a216-1b4b06cc998f	Saiphos equalis	(Gray, 1825)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Three-toed Skink	1
https://biodiversity.org.au/afd/taxa/3c3f838a-6715-49ad-9392-3a4e0a7ed940	Hylaeus (Euprosopellus) chrysaspis	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	1
https://biodiversity.org.au/afd/taxa/3c7aff4c-611f-4837-96d8-0c1aa3f2167d	Conus (Phasmoconus) australis	Holten, 1802	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Conidae		1
https://biodiversity.org.au/afd/taxa/3c7bf226-c110-4374-9432-c11def8e58c7	Onthophagus rupicapra	Waterhouse, 1894	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/3cdfe369-54b7-4e23-9fec-0425c031ea7d	Eupines (Eupines) sulcata	(Sharp, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/3cee982b-508c-4e49-95af-8374d23974c6	Meliphaga (Meliphaga) lewinii	(Swainson, 1837)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	Lewin's Honeyeater	1
https://biodiversity.org.au/afd/taxa/3d32e3ff-1c2f-4225-bb22-b31cf1cc0a05	Mataeomera ligata	(T.P. Lucas, 1895)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/3e1b019f-3659-4c9e-8d45-3e7b357aac4b	Hesperotermes infrequens	(Hill, 1927)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae		1
https://biodiversity.org.au/afd/taxa/3ebec256-3ec0-4f18-941f-8444ca3fb616	Xyroscelis crocata	(Gory & Laporte, 1839)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/3ed5170f-ef70-4b17-bec8-ba7eb9728a3c	Symmachis glaucescens	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/3f5fc994-5c65-4d3d-91f5-cc6d3dc1e223	Isopedella tindalei	Hirst, 1993	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		1
https://biodiversity.org.au/afd/taxa/3f747a74-3509-4ef5-a3d9-bb87bfd89572	Tabanus townsvilli	Ricardo, 1915	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/4074d4b3-f9be-49f8-a1d0-6066b56815c1	Ancylis acromochla	(Turner, 1946)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/420d2f62-b96b-44b8-a39f-b3a6de208002	Putoniessa rivularis	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		1
https://biodiversity.org.au/afd/taxa/424f01ca-b425-4da4-83f8-f9e00c9a7189	Paralaea porphyrinaria	(GuenÃ©e, 1857)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/428774f1-4b44-4cb1-999a-d6be688f016e	Helochares tenuistriatus	RÃ©gimbart, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/42ac8c27-5013-4109-aaf8-3c3761c62b96	Chrysodeixis subsidens	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Australian Cabbage Looper Moth	1
https://biodiversity.org.au/afd/taxa/438e03b2-9110-4434-882f-d29f70429cdf	Poecilohetaerus aquilus	Schneider, 1991	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae	Acalyptrate Fly	1
https://biodiversity.org.au/afd/taxa/43a691ca-b9b9-4c95-9845-437872bc74e2	Chama ruderalis	Lamarck, 1819	species	Animalia	Mollusca	Bivalvia	Cardiida	Chamidae		1
https://biodiversity.org.au/afd/taxa/43be1b66-57f7-4cd6-9178-dc6747b273f8	Hydrophilus (Hydrophilus) albipes	Castelnau, 1840	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae	Water Scavenger Beetle	1
https://biodiversity.org.au/afd/taxa/43bf8e95-0ef2-452b-8a1a-f7cba805ebc3	Paropsis deserti	Blackburn, 1896	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/43cd7d23-b737-42b3-acf4-d4da0cb7f4a2	Eulimnadia vinculuma	Timms, 2015	species	Animalia	Arthropoda	Branchiopoda	Diplostraca	Limnadiidae		1
https://biodiversity.org.au/afd/taxa/43e3f6cd-1f82-4c95-b813-bcb07f33c1c4	Sericopimpla crenator	(Fabricius, 1804)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae	Ichneumon Wasp	1
https://biodiversity.org.au/afd/taxa/440adf48-d5d0-4c0f-baad-0364d27a83cf	Eunatalis hirta	(Blackburn, 1890)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/45074972-af18-41be-a0f6-1742bdd3307a	Rhytiphora callosa	ÅšlipiÅ„ski & Escalona, 2013	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/45406fa2-2d44-4ea2-b071-1b41bc8c5221	Thynnoides berthoudi	Turner, 1912	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/457f603b-c072-4d59-9bde-b816d4cf7975	Acrocercops irrorata	(Turner, 1894)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gracillariidae		1
https://biodiversity.org.au/afd/taxa/45e11bfe-2800-4c6e-9374-2cafdfe96535	Melobasis sordida	Blackburn, 1887	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/45e4f886-5d69-4b1c-98c0-2178c194f9c7	Neophema (Neophema) splendida	(Gould, 1841)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Scarlet-chested Parrot	1
https://biodiversity.org.au/afd/taxa/45f06a8f-abf0-482e-8206-2b923b1433e9	Lestricothynnus optimus	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/4609f4bc-01d7-42ef-bed1-dd58b3f3765b	Camponotus dryandrae	McArthur & Adams, 1996	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/462bbae6-998d-46f0-a587-22fa25e82e5d	Astraeus (Astraeus) macmillani	Barker, 1975	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/46a7a95d-7db6-429e-86f7-9aa142f1e722	Rhytiphora maculicornis	(Pascoe, 1858)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/47368a36-ecdd-4be0-a94c-2f00333aef24	Catopsilia pomona	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Lemon Migrant	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/473b40ac-03bd-4153-8430-1c12eda7467b	Lamponella ainslie	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	1
https://biodiversity.org.au/afd/taxa/47546d20-f18b-4d7e-95cf-0eec489ddec5	Aphaenogaster poultoni	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/47730358-084b-4ff4-9f3f-e1c3c74a4272	Neotemnopteryx fulva	(Saussure, 1863)	species	Animalia	Arthropoda	Insecta	Blattodea	Blattellidae	Cockroach	1
https://biodiversity.org.au/afd/taxa/477d2a77-241d-4474-a673-f49d3d81314a	Creiis corniculatus	(Froggatt, 1900)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae	Psyllid Bug	1
https://biodiversity.org.au/afd/taxa/47f41922-3f79-4f2b-8788-3c58c9e56de5	Castiarina enigma	Barker, 1996	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/486dc705-ba86-4195-a583-cd31a68b02b8	Lissolepis luctuosa	(Peters, 1866)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Western Mourning Skink	1
https://biodiversity.org.au/afd/taxa/4887d549-91d3-4547-9925-5976287dbf5e	Lasioglossum (Homalictus) sphecodopse	(Cockerell, 1905)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/48b98a23-f14e-4a06-ba7c-fdfc9adc4995	Castiarina sieboldi	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/48d24c82-a1a7-4dec-8706-95831d855329	Radinoderus occidentalis	(Alexander, 1925)	species	Animalia	Arthropoda	Insecta	Diptera	Tanyderidae		1
https://biodiversity.org.au/afd/taxa/4953e093-ff93-4ed7-979f-2082e0e739a0	Westrarchaea spinosa	Rix, 2006	species	Animalia	Arthropoda	Arachnida	Araneae	Malkaridae		1
https://biodiversity.org.au/afd/taxa/496ec61a-02c1-409f-ba18-a1ee24c32c30	Cryptoplus tibialis	(Lea, 1898)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Tuart Bud Weevil	1
https://biodiversity.org.au/afd/taxa/4a6524fb-b256-4790-a877-e5f10502da93	Elanus scriptus	Gould, 1842	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Letter-winged Kite	1
https://biodiversity.org.au/afd/taxa/4a6daa33-3471-407b-9764-12ad920505ed	Lucilia sericata	(Meigen, 1826)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae	Green Blowfly	1
https://biodiversity.org.au/afd/taxa/4a8fd679-6384-4176-9f73-9e5ce8d322c2	Rhinodia rostraria	GuenÃ©e, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/4b288594-e949-452a-b7f1-3fe063546068	Proteuxoa tibiata	(GuenÃ©e, 1852)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/4b3e86f0-bad3-4582-9b8f-1f76609d25a2	Podomyrma ferruginea	(Clark, 1934)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/4b961a84-50ea-4e66-87cf-674379a25efc	Phaulomytilus striatus	(Maskell, 1895)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/4ba882cf-ff52-410c-9481-8bae29eadd27	Decilaus squamosus	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/4bbe570d-9e5d-4b6b-a3ae-91067662f4e5	Orosius argentatus	(Evans, 1938)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Common Brown Leafhopper	1
https://biodiversity.org.au/afd/taxa/4bc87f74-2a4d-4dfa-b240-f8e8c3ede298	Acantholophus hypoleucus	(Boheman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/4c5d075a-9612-4f71-9aa7-37686fef640a	Lioponera clarki	(Crawley, 1922)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/4cdea7c9-bbcc-445c-90cb-c441acb696c7	Hemiramphus robustus	GÃ¼nther, 1866	species	Animalia	Chordata	Actinopterygii	Beloniformes	Hemiramphidae	Three-by-two Garfish	1
https://biodiversity.org.au/afd/taxa/4db0d5c5-fa2b-4ba0-80ca-1bd726606018	Pseudonotonophes dumosus	(Macleay, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/4dc409f1-7ce8-4b65-ae90-90612f29d2af	Dietta (Dietta) sperata	Sharp, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Leiodidae		1
https://biodiversity.org.au/afd/taxa/4dd0ff98-3b5d-454d-b49b-d0c8d296c0ca	Agrypnus labiosus	(CandÃ¨ze, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Elateridae		1
https://biodiversity.org.au/afd/taxa/4e2d913d-b3ec-434c-9e2b-e7cababff957	Eurymelops rubrovittata	(Amyot & Serville, 1843)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	1
https://biodiversity.org.au/afd/taxa/4e5b9a55-10cc-407e-8572-90a0bd20dfbd	Crocidosema plebejana	Zeller, 1847	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Cotton Tipworm Moth	1
https://biodiversity.org.au/afd/taxa/4e712566-8c49-4f8f-a8aa-8df157cddc10	Tymbophora peltastis	Meyrick, 1890	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/4e7dad42-0d39-42a4-a12c-4d343542d6d7	Austrotachardia convexa	(Fuller, 1899)	species	Animalia	Arthropoda	Insecta	Hemiptera	Kerriidae		1
https://biodiversity.org.au/afd/taxa/4eda2065-0ea5-48d5-a1f5-0c749378b5f7	Onthophagus taurus	(Schreber, 1759)	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae	Bullhorned Dung Beetle	1
https://biodiversity.org.au/afd/taxa/4ee1f24a-3309-4049-a24b-ae3203e14228	Paraactinoptera prolixa	(Hardy & Drew, 1996)	species	Animalia	Arthropoda	Insecta	Diptera	Tephritidae		1
https://biodiversity.org.au/afd/taxa/4fc894fa-7f87-40d9-b950-19e1ba40fd78	Garrha pudica	(Zeller, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/5018bf3f-2787-4822-bc74-aa5c16aef9a2	Peltohyas australis	(Gould, 1841)	species	Animalia	Chordata	Aves	Charadriiformes	Charadriidae	Inland Dotterel	1
https://biodiversity.org.au/afd/taxa/5020c4f6-95f5-4aa3-9c3b-d8b6d3a8c568	Monilea callifera	(Lamarck, 1822)	species	Animalia	Mollusca	Gastropoda		Trochidae	Shrewd Trochid	1
https://biodiversity.org.au/afd/taxa/518c3dd5-2970-4f87-9cf5-a6dcb19e6424	Oxyopes rubicundus	L. Koch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae		1
https://biodiversity.org.au/afd/taxa/521ff45c-7d85-4306-b4a5-23ffbd30111e	Stangeia xerodes	(Meyrick, 1886)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae	Xerodes Plume Moth	1
https://biodiversity.org.au/afd/taxa/5225ec4e-57cf-48a1-8839-af1542bb54c7	Persectania ewingii	(Westwood, 1839)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Southern Armyworm	1
https://biodiversity.org.au/afd/taxa/522a22ec-3318-4e17-97e7-8d8af150146b	Coptotermes michaelseni	Silvestri, 1909	species	Animalia	Arthropoda	Insecta	Blattodea	Rhinotermitidae		1
https://biodiversity.org.au/afd/taxa/5270dfe7-c74b-405e-88e6-5752d0b93e12	Theclinesthes serpentatus	(Herrich-SchÃ¤ffer, 1869)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Salt-bush Blue	1
https://biodiversity.org.au/afd/taxa/52d566c1-671f-4026-813c-eb94ec31c1f0	Hednota relatalis	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/52f3c1c6-8e4f-4ade-b0f7-17890169efb2	Pavo cristatus	Linnaeus, 1758	species	Animalia	Chordata	Aves	Galliformes	Phasianidae	Indian Peafowl	1
https://biodiversity.org.au/afd/taxa/5345163f-d4e5-4c11-8fe2-52e56d770aac	Hiatula alba	(Lamarck, 1818)	species	Animalia	Mollusca	Bivalvia	Cardiida	Psammobiidae	White Sunset Shell	1
https://biodiversity.org.au/afd/taxa/54656641-c469-480d-97ef-47e37d9573f5	Megachile (Eutricharaea) phenacopyga	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae	Bee	1
https://biodiversity.org.au/afd/taxa/5489676b-7b3c-4baa-9ad6-df21bfe27329	Compsotropha strophiella	Meyrick, 1884	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/549a4089-2722-4a7b-8d61-4549bf3e18b0	Phonognatha graeffei	(Keyserling, 1865)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Leafcurling Spider	1
https://biodiversity.org.au/afd/taxa/54d4776b-0aee-4e1a-bf8f-3f0fff1a811b	Austrammo harveyi	Platnick, 2002	species	Animalia	Arthropoda	Arachnida	Araneae	Ammoxenidae		1
https://biodiversity.org.au/afd/taxa/54d55356-d622-4785-9793-5f3b845dc253	Dasygnathus trituberculatus	Blackburn, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/5560fa1b-9f78-4740-8a08-af149f662abe	Hudsonema aptus	(Neboiss, 1982)	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/56101870-5f8e-4e16-a8ef-0d2967772472	Plodia interpunctella	(HÃ¼bner, 1813)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pyralidae	Snout Moth	1
https://biodiversity.org.au/afd/taxa/56d25dd8-4282-4cd6-9bc7-baaa0b8adfc4	Acridotheres tristis	(Linnaeus, 1766)	species	Animalia	Chordata	Aves	Passeriformes	Sturnidae	Common Myna	1
https://biodiversity.org.au/afd/taxa/5747c83c-6f03-4fc0-8a49-b91cb5345295	Pogonortalis commoni	Paramonov, 1958	species	Animalia	Arthropoda	Insecta	Diptera	Platystomatidae		1
https://biodiversity.org.au/afd/taxa/5785c6d9-4116-4a89-b854-0777ceca8072	Nola pycnopasta	(Turner, 1944)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae		1
https://biodiversity.org.au/afd/taxa/57d9daa6-11ff-4018-9eb5-072e97fab309	Trygonoptera ovalis	Last & Gomon, 1987	species	Animalia	Chordata	Chondrichthyes	Myliobatiformes	Urolophidae	Striped Stingaree	1
https://biodiversity.org.au/afd/taxa/57e3354f-1060-4e1e-9b29-a945eb232731	Diatenes aglossoides	GuenÃ©e, 1852	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Owlet Moth	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/58673967-18a6-42da-b515-e58ec641cd80	Chalcopteroides fastuosus	(Germar, 1848)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/5967f698-9d2f-499b-a1e0-d18711cbf3e9	Indotyphlops braminus	(Daudin, 1803)	species	Animalia	Chordata	Reptilia	Squamata	Typhlopidae	Flowerpot Blind Snake	1
https://biodiversity.org.au/afd/taxa/59a14540-36ab-4dec-86ff-329ec3ce2af0	Garrha platyporphyra	(Turner, 1946)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/59af9b22-26ae-45fa-951c-bbd72d5ee843	Maconellicoccus lanigerus	(Fuller, 1897)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/59ccacd6-de10-4068-a814-3e17d182bf70	Erina hyacinthina	(Semper, 1879)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Varied Dusky-blue	1
https://biodiversity.org.au/afd/taxa/5b409a29-3637-44d2-a907-7d612d2e698f	Rhinotia bidentata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Belidae	Two-spotted Weevil	1
https://biodiversity.org.au/afd/taxa/5b8b3fd7-6934-461a-a059-8d90014848ef	Ectenopsis (Leptonopsis) norrisi	Mackerras, 1956	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/5b8e8de6-f128-4e6b-a3cb-0889aa4ae9ea	Hiatella australis	(Lamarck, 1818)	species	Animalia	Mollusca	Bivalvia	Adapedonta	Hiatellidae	Australian Rock-borer	1
https://biodiversity.org.au/afd/taxa/5d102cf6-53ab-4adb-ab55-da651c9d4d4e	Anthela inornata	(Walker, 1855)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Anthelidae		1
https://biodiversity.org.au/afd/taxa/5d586633-d34a-45ee-b11a-e62e363e8fec	Astraeus (Astraeus) crassus	van de Poll, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/5d71e243-065d-4711-9d08-39e0899a46dc	Melophorus sericothrix	Heterick, Castalanelli & Shattuck, 2017	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/5d749c2c-ac25-44fd-9dbc-df2c13a1c8e0	Rhynchium superbum	Saussure, 1852	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		1
https://biodiversity.org.au/afd/taxa/5d937df2-e9dc-43a1-b829-2087ca5529ff	Ethmostigmus rubripes	(Brandt, 1840)	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		1
https://biodiversity.org.au/afd/taxa/5da5972c-423c-4cee-a83f-18babe1d78cf	Synsphyronus mimulus	Chamberlin, 1943	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Garypidae	Pseudoscorpion	1
https://biodiversity.org.au/afd/taxa/5de13a4d-2e71-42bc-a3c0-2db539875c63	Eriococcus apiomorphae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/5deacb64-f050-43f2-a2bf-bca5ced33f5a	Cryptoplus ferrugineus	(Lea, 1927)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/5e0c639e-dba4-463c-a343-36b17b67447e	Rhipidura (Howeavis) dryas	Gould, 1843	species	Animalia	Chordata	Aves	Passeriformes	Rhipiduridae	Arafura Fantail	1
https://biodiversity.org.au/afd/taxa/5e140231-9384-48d8-bce9-5fb56b64be0a	Quedius sulcicollis	Fauvel, 1877	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/5ea11529-b076-4864-b591-0f07acec12c1	Erytenna consputa	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/5ea3f8e5-0bc6-4c76-9d16-3491fb724102	Aedes (Ochlerotatus) turneri	Marks, 1963	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae		1
https://biodiversity.org.au/afd/taxa/5ead713d-52cd-49fa-8161-243303d192b8	Hypographa aristarcha	Prout, 1910	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/5eb77875-c8b5-4c43-8169-2aee0002994b	Brachyhesma (Brachyhesma) perlutea	(Cockerell, 1916)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/5fd45483-5e66-4215-807e-d13d80b2d4b3	Cerdistus hudsoni	Lavigne, 2011	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/601de6ca-fa8f-41f0-9b6b-b35bd20d922c	Eurhopalus debilius	(Blackburn, 1903)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dermestidae		1
https://biodiversity.org.au/afd/taxa/60456352-b9f6-4fb2-8b3f-4053f49aacfc	Hathynnus rubromaculatus	(Turner, 1908)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/60d38c20-51a3-4a4c-a323-a42a5459431c	Anilara obscura	(Macleay, 1872)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/615599bf-e47e-449c-b228-ce80ce3a0bf8	Anthrax crenatus	Yeates & Lambkin, 1998	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/618397ec-ddff-44b6-ae31-70feb352e94b	Poecilipta lugubris	Raven, 2015	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae		1
https://biodiversity.org.au/afd/taxa/61d33b52-c2f0-425d-891e-a6f6cc30f2e6	Podykipus collinus	Attems, 1911	species	Animalia	Arthropoda	Diplopoda	Spirostreptida	Iulomorphidae		1
https://biodiversity.org.au/afd/taxa/6204ddc9-89fd-4c77-bd45-6eca978c341b	Tropidoderus michaelseni	Werner, 1912	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae	Michaelsenâ€™s Stick-insect	1
https://biodiversity.org.au/afd/taxa/6210ce52-8335-4e3f-999e-92cd5721e0ac	Irus (Irus) irus	(Linneaus, 1758)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae		1
https://biodiversity.org.au/afd/taxa/6231c7a7-3895-483c-b647-c873e4535196	Varanus rosenbergi	Mertens, 1957	species	Animalia	Chordata	Reptilia	Squamata	Varanidae	Heath Monitor	1
https://biodiversity.org.au/afd/taxa/6244882a-b6d7-424f-8bc4-528304334b48	Petalura hesperia	Watson, 1958	species	Animalia	Arthropoda	Insecta	Odonata	Petaluridae	Western Petaltail	1
https://biodiversity.org.au/afd/taxa/624b3559-676b-4da8-8cb6-135e8e0b0a1a	Tetragnatha luteocincta	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		1
https://biodiversity.org.au/afd/taxa/62ab71ed-2d2c-4949-b0de-407e720450e9	Succinea (Succinea) australis	(FÃ©russac, 1821)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Succineidae	Striate Ambersnail	1
https://biodiversity.org.au/afd/taxa/6304a7b8-c3df-419b-a497-b36b0007d4b4	Peliococcus subcorticicola	Williams, 1985	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae		1
https://biodiversity.org.au/afd/taxa/6306a646-2e62-4045-86fc-ef42ed482dfd	Gonorynchus greyi	(Richardson, 1845)	species	Animalia	Chordata	Actinopterygii	Gonorhynchiformes	Gonorynchidae	Beaked Salmon	1
https://biodiversity.org.au/afd/taxa/6311899f-0b83-4f88-adad-afb64fdb36c0	Lasioglossum (Chilalictus) oblitum	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae	Sweat Bee	1
https://biodiversity.org.au/afd/taxa/631b2c6b-8d33-404e-95a5-c9d49707f688	Rhinophthalmus nasutus	(Shuckard, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/638ba2aa-3dde-4e7c-82dc-3b4377c6c21b	Paramixogaster variegatus	(Walker, 1852)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae	Hover Fly	1
https://biodiversity.org.au/afd/taxa/63caac36-9db6-4d03-86c7-e050dae85668	Cryptoplus rubiginosus	(Pascoe, 1870)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/63fc4c07-2d27-4b67-88fd-84dc8b16b8e5	Aleuromarginatus marginiquus	Martin, 1999	species	Animalia	Arthropoda	Insecta	Hemiptera	Aleyrodidae		1
https://biodiversity.org.au/afd/taxa/6407a890-1405-48e3-a945-d52796cb4f3f	Hednota crypsichroa	Lower, 1893	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/647f5964-9593-4cb8-945d-f53a8d3d091d	Tetragnatha demissa	L. Koch, 1872	species	Animalia	Arthropoda	Arachnida	Araneae	Tetragnathidae		1
https://biodiversity.org.au/afd/taxa/648924d8-86d5-4f95-aeac-ef7cd3ddaee5	Megachile (Austrochile) resinifera	Meade-Waldo, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		1
https://biodiversity.org.au/afd/taxa/6502b308-6432-49db-8229-6db6eacd3fb7	Diaspidiotus loranthi	(Laing, 1929)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae	Scale Insect	1
https://biodiversity.org.au/afd/taxa/6513778d-ca61-4b2d-a9b1-13da473a7d6e	Dolichoderus niger	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/65aa5d13-e2e7-4c10-9092-5cc3742b23e7	Endoxyla bipustulatus	(Walker, 1865)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Cossidae		1
https://biodiversity.org.au/afd/taxa/664075bc-95ae-42d6-b8d4-98e1c4089efc	Perga brullei	Westwood, 1880	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pergidae	Sawfly	1
https://biodiversity.org.au/afd/taxa/6666bf89-da47-4595-ac09-2019e23bb4d2	Lantanophaga pusillidactylus	(Walker, 1864)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae	Lantana Plume Moth	1
https://biodiversity.org.au/afd/taxa/66bc7430-68ec-41b9-af68-c18758115008	Miscera mesochrysa	(Lower, 1903)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Brachodidae	Day-flying Moth	1
https://biodiversity.org.au/afd/taxa/66fe917e-044e-4d5a-a6ab-2f0b81a6c4b2	Loweria platydesma	(Lower, 1901)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/670252b6-abf8-4795-9716-69f63935db92	Ecnomus turgidus	Neboiss, 1982	species	Animalia	Arthropoda	Insecta	Trichoptera	Ecnomidae	Caddisfly	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/671aad2c-78e2-4e16-8da3-ccaf09866264	Isara glabra	(Swainson, 1821)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Mitridae	Glabra Mitre	1
https://biodiversity.org.au/afd/taxa/67541bb7-94c2-42ca-b9f1-749c3eefeb5a	Medomega averyi	Winterton & Lambkin, 2012	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		1
https://biodiversity.org.au/afd/taxa/675ea70c-83c6-4847-9a5f-bc0e3399c33d	Diomus notescens	(Blackburn, 1889)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae	Minute Two-spotted Ladybird	1
https://biodiversity.org.au/afd/taxa/67a2c1d2-2219-4452-a877-df283b793e98	Eochrois caminias	(Meyrick, 1889)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/67aa8b67-8453-4be1-ae45-074fd28a5ebd	Longrita insidiosa	(Simon, 1908)	species	Animalia	Arthropoda	Arachnida	Araneae	Trochanteriidae		1
https://biodiversity.org.au/afd/taxa/67c95c72-c7e3-404c-92bf-83d256878cfe	Chledocyon marmoratus	Hansen, 1990	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae		1
https://biodiversity.org.au/afd/taxa/694c9de1-d5b0-4c9c-a66a-b83e4eae809d	Haliotis semiplicata	Menke, 1843	species	Animalia	Mollusca	Gastropoda		Haliotidae		1
https://biodiversity.org.au/afd/taxa/696232b3-a081-41fd-924b-04439177c912	Lioponera inconspicua	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/69dc05cf-fb0f-4cd9-bf6b-c52fe269f066	Syneora mundifera	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/6a393367-c882-434c-beb4-59f03c369258	Eunatalis spinicornis	(Blackburn, 1890)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/6acff150-9b74-4de3-8b4d-f8d69071abfa	Atherinosoma microstoma	(GÃ¼nther, 1861)	species	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	Smallmouth Hardyhead	1
https://biodiversity.org.au/afd/taxa/6ad55d7a-5ead-46fc-a47e-eab7ada13ab5	Rhytiphora lateralis	(Pascoe, 1858)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/6b0b01be-f7e1-4280-9e16-d55fac608650	Cryptoerithus quobba	Platnick & Baehr, 2006	species	Animalia	Arthropoda	Arachnida	Araneae	Prodidomidae		1
https://biodiversity.org.au/afd/taxa/6b3383cc-5a09-479a-861a-3e2325833d52	Sphallomorpha dubia	(Castelnau, 1867)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/6c58b0f8-4792-461c-9c3f-58aa831771cc	Neotoxoptera formosana	(Takahashi, 1921)	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphididae	Onion Aphid	1
https://biodiversity.org.au/afd/taxa/6c72d199-f0f1-44d3-8197-224a2f7cff5f	Myrmecobius fasciatus	Waterhouse, 1836	species	Animalia	Chordata	Mammalia	Dasyuromorphia	Myrmecobiidae	Numbat	1
https://biodiversity.org.au/afd/taxa/6d251288-cc49-45c8-a1dc-369402ee1441	Zeleboria carinata	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/6dcd3fd8-d081-4031-9fb8-726c916d73c9	Haplonyx longipilosus	Lea, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/6dd06bac-1d37-4c8e-a18d-a3c1a35f56e9	Stephanopis monulfi	Chrysanthus, 1964	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		1
https://biodiversity.org.au/afd/taxa/6e043146-bef8-4e77-b139-06e491ef006c	Kyphocotis tessellata	Kirkaldy, 1906	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		1
https://biodiversity.org.au/afd/taxa/6e185207-7959-41fd-b1b1-43b6eaf31f05	Ischnoderus xanthorrhoeae	(Lea, 1906)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/6e214b36-2195-4548-b2a7-6a5a608cf4bf	Acanthaluteres brownii	(Richardson, 1846)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Monacanthidae	Spinytail Leatherjacket	1
https://biodiversity.org.au/afd/taxa/6e8af8d4-f5b1-4474-ae33-fff121758216	Poecilohetaerus albolineatus	Hendel, 1910	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae	Acalyptrate Fly	1
https://biodiversity.org.au/afd/taxa/6eac1e0c-d63c-49a7-8bd5-580a229886dd	Onychohydrus scutellaris	(Germar, 1848)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/6ed45c88-10d0-4db7-9971-d2733ca45455	Dictyotus roei	(Westwood, 1837)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/6ef00bbc-4147-475e-8ded-1e0517b39d27	Ourococcus casuarinae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/6ef3ced2-cc14-4c4f-b65b-07aee2c042e1	Bethelium diversicorne	(White, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Wattle Longhorn	1
https://biodiversity.org.au/afd/taxa/6f30f635-08d7-4dfa-9f57-39cad6747e5e	Listroderes delaiguei	Germain, 1895	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Subterranean Clover Weevil	1
https://biodiversity.org.au/afd/taxa/6f90357f-04ac-4302-879c-0d70b6564bfc	Plaxiphora (Plaxiphora) albida	(Blainville, 1825)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Mopaliidae		1
https://biodiversity.org.au/afd/taxa/7114f0f3-f2ac-4f3e-918e-5038ce269c83	Temognatha mitchellii	(Hope, 1846)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/714e3610-621e-4cda-9f3e-c93556e9f965	Apiomorpha maliformis	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/723e7b56-1ec7-4e78-8c35-e38009a12030	Haplonyx rubiginosus	Chevrolat, 1879	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/7273fb8d-1320-414f-8c32-48c607a2aaa4	Coleocoris ocellatus	Gross, 1958	species	Animalia	Arthropoda	Insecta	Hemiptera	Rhyparochromidae		1
https://biodiversity.org.au/afd/taxa/72a59565-b7b9-4842-be46-0823cd3b3376	Torbia viridissima	(Brunner von Wattenwyl, 1878)	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae	Gum Leaf Katydid	1
https://biodiversity.org.au/afd/taxa/72ae620c-00ad-4edf-8b4d-5c851d7d10ef	Trichocyclus nullarbor	Huber, 2001	species	Animalia	Arthropoda	Arachnida	Araneae	Pholcidae		1
https://biodiversity.org.au/afd/taxa/72b23d0a-7050-413f-9100-3562d383888e	Gelochelidon nilotica	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Gull-billed Tern	1
https://biodiversity.org.au/afd/taxa/730364ff-b5da-4372-b4d2-6d1a635a8ed6	Priocnemis tuberculatus	(Smith, 1855)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae		1
https://biodiversity.org.au/afd/taxa/730637d2-7992-42bf-8386-da5d562b9701	Epipompilus gilesi	(Turner, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae		1
https://biodiversity.org.au/afd/taxa/7339ef4e-da45-4f0f-8c05-8611ed9d1aa7	Stigmacros glauerti	McAreavey, 1957	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/737c5702-0627-4011-bdee-d54605d05865	Capua intractana	(Walker, 1869)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/7408d449-311f-43a0-a166-b97efedb31c1	Campylothynnus assimilis	(Smith, 1859)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/743cc7d8-b198-4c40-9421-6c66ef173db0	Rhabdosargus sarba	(ForsskÃ¥l, 1775)	species	Animalia	Chordata	Actinopterygii	Perciformes	Sparidae	Tarwhine	1
https://biodiversity.org.au/afd/taxa/745e4c08-610c-4f44-9082-2ed093784a5f	Linstowinema cinctum	(Linstow, 1898)	species	Animalia	Nematoda	Chromadorea	Spirurida	Seuratidae		1
https://biodiversity.org.au/afd/taxa/74b0dd71-034e-4c5f-83a6-461e431f5cfa	Eulamprus quoyii	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Eastern Water-skink	1
https://biodiversity.org.au/afd/taxa/74e1b6f6-f9ce-4cde-a8f6-30791e892c9f	Trullifiorinia acaciae	(Maskell, 1892)	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/74f1fa1e-f2bf-4bbd-8b23-18fddfbcb606	Helpis occidentalis	Simon, 1909	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/756116a0-7363-43b8-a556-018b209dfb15	Empicoris rubromaculatus	(Blackburn, 1889)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	1
https://biodiversity.org.au/afd/taxa/7579a9fa-62c5-4e0a-9773-ae87cd8ed30a	Moloch horridus	Gray, 1841	species	Animalia	Chordata	Reptilia	Squamata	Agamidae	Thorny Devil	1
https://biodiversity.org.au/afd/taxa/75e25548-149c-4c22-9251-409c70b75100	Bolborhachium recticorne	(GuÃ©rin-MÃ©neville, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		1
https://biodiversity.org.au/afd/taxa/7683b712-2ddf-4157-8d04-f410c040972d	Heleioporus albopunctatus	Gray, 1841	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Western Spotted Frog	1
https://biodiversity.org.au/afd/taxa/76d15b46-0662-4b01-ae09-93f625dc4d25	Oryzaephilus surinamensis	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Coleoptera	Silvanidae	Sawtoothed Grain Beetle	1
https://biodiversity.org.au/afd/taxa/76ee9811-d8aa-48bf-bc3d-0b188c24b75c	Austrocarea iocephala	(Turner, 1902)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/76f1cf2b-7300-4634-823b-2b9e7a25bc74	Rhytiphora fraserensis	(Blackburn, 1893)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/77101ecd-936c-4664-900f-4c3a2a70bccf	Miltinus cinctus	Paramonov, 1955	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/776b9606-46e9-45b8-ac80-0a06de1bd8bb	Novapus crassus	Sharp, 1875	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/78106ae5-509d-4ab5-aac9-74f23b8ed9ca	Iridonyssus formicans	Raven, 2015	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae		1
https://biodiversity.org.au/afd/taxa/785592cd-c2f7-449e-ae2e-12e73a5a0548	Elythomerus elongatulus	Waterhouse, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Heteroceridae		1
https://biodiversity.org.au/afd/taxa/7890d5ed-3830-435e-98cb-88c6a1103a91	Psephotus haematonotus	(Gould, 1838)	species	Animalia	Chordata	Aves	Psittaciformes	Psittacidae	Red-rumped Parrot	1
https://biodiversity.org.au/afd/taxa/78a54915-5690-4ba2-b7d9-d6adee1ad23c	Oxyops pictipennis	Blackburn, 1894	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/79262e5d-269a-46e5-ac99-01551149d263	Notocistela tibialis	Carter, 1915	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/79324028-528b-4df5-9bd6-a6918b129bbb	Leucania (Acantholeucania) stenographa	Lower, 1900	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Sugarcane Armyworm	1
https://biodiversity.org.au/afd/taxa/798b7706-cf22-48ae-9778-026980b8cb13	Bipalium kewense	Moseley, 1878	species	Animalia	Platyhelminthes	Rhabditophora	Tricladida	Geoplanidae		1
https://biodiversity.org.au/afd/taxa/79e4166f-ebc1-4d8e-a9ea-60f2d714ff65	Brachymeria schuberti	(Girault, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chalcididae		1
https://biodiversity.org.au/afd/taxa/7ad36f76-e999-456e-9a37-dea0e7167eb2	Amorbus bispinus	(Westwood, 1842)	species	Animalia	Arthropoda	Insecta	Hemiptera	Coreidae		1
https://biodiversity.org.au/afd/taxa/7c336d03-ad78-4e9e-9614-3c356e086037	Cherax cainii	Austin, 2002	species	Animalia	Arthropoda	Malacostraca	Decapoda	Parastacidae	Marron	1
https://biodiversity.org.au/afd/taxa/7ccb352b-f920-4057-9cee-af847d8b79da	Dactylosternum abdominale	(Fabricius, 1792)	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydrophilidae		1
https://biodiversity.org.au/afd/taxa/7d082b98-a7a0-4f22-a041-d877fc965cc6	Ascetoderes illusus	(Newman, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Teredidae		1
https://biodiversity.org.au/afd/taxa/7d45270b-79b5-4f32-a464-4232d16f55e6	Cethosia penthesilea	(Cramer, 1777)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae	Orange Lacewing	1
https://biodiversity.org.au/afd/taxa/7d69a9fc-ab80-493b-a008-b75514f70422	Sylvicola dubius	(Macquart, 1850)	species	Animalia	Arthropoda	Insecta	Diptera	Anisopodidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/7ea5e06f-5cd1-4d05-806b-898b4fdda9c1	Tiracerus westwoodi	(Sharp, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/7eb1a29d-ab94-4c28-bb1a-10ae409418cb	Nala lividipes	(Dufour, 1820)	species	Animalia	Arthropoda	Insecta	Dermaptera	Labiduridae	Black Field Earwig	1
https://biodiversity.org.au/afd/taxa/7ef26466-8d45-44a7-b309-78b0f5ca656d	Leioproctus (Odontocolletes) callurus	(Cockerell, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/7f0b5430-3e37-4dd4-8dff-d6b288cde445	Turdus merula	Linnaeus, 1758	species	Animalia	Chordata	Aves	Passeriformes	Turdidae	Eurasian Blackbird	1
https://biodiversity.org.au/afd/taxa/7f86e06f-d65a-43ee-a557-278ed1cb6e86	Servaea melaina	Richardson & Gunter, 2012	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/7fa36d45-f662-40c5-8ca0-5c014dcaace1	Notamacropus irma	(Jourdan, 1837)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Western Brush Wallaby	1
https://biodiversity.org.au/afd/taxa/7fcc0b1c-0366-482f-82d6-799787034e04	Blepharotes flavus	Ricardo, 1913	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/80115d8a-e36b-4944-9005-0b5a5dc69abc	Badumna longinqua	(L. Koch, 1867)	species	Animalia	Arthropoda	Arachnida	Araneae	Desidae	Grey House Spider	1
https://biodiversity.org.au/afd/taxa/803661a0-b7a7-4bcb-ba3d-5c615ed6fcb0	Storeus variegatus	Boheman, 1843	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/80f18583-c869-43f8-a7ef-8cef859e939c	Acantholophus maximus	(Macleay, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/80f42479-70c1-4c9c-8abf-b21639ef32cc	Dosinia (Bonartemis) scalaris	(Menke, 1843)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae	Ridged Dosinia	1
https://biodiversity.org.au/afd/taxa/80fd4d8f-0ac6-4fff-9397-66e0094dff52	Ochrogaster lunifer	Herrich-SchÃ¤ffer, [1855]	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Processionary Caterpillar	1
https://biodiversity.org.au/afd/taxa/81219eb1-546a-441d-8f61-77880bd3bf3d	Delma concinna	Kluge, 1974	species	Animalia	Chordata	Reptilia	Squamata	Pygopodidae	Javelin Lizard	1
https://biodiversity.org.au/afd/taxa/8189969e-66ad-4152-894e-64fa5726ecdf	Notopilo confusus	Bartlett & Lambkin, 2022	species	Animalia	Arthropoda	Insecta	Coleoptera	Cleridae		1
https://biodiversity.org.au/afd/taxa/820d04dd-16ca-4260-9505-72efbe1f6316	Sphaeroscelis pectoralis	Burmeister, 1855	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/82d3ca15-6450-4169-b567-9acab77c66df	Crocodylus johnstoni	Krefft, 1873	species	Animalia	Chordata	Reptilia	Crocodylia	Crocodylidae	Freshwater Crocodile	1
https://biodiversity.org.au/afd/taxa/82df47de-1d49-4efc-acff-3f9e95a7a6a2	Ranatra dispar	Montandon, 1903	species	Animalia	Arthropoda	Insecta	Hemiptera	Nepidae	Needle Bug	1
https://biodiversity.org.au/afd/taxa/8303becb-9813-41cd-9271-60cde8a277ad	Ardozyga dysclyta	(Turner, 1933)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gelechiidae		1
https://biodiversity.org.au/afd/taxa/8308a376-50a5-483b-ac9f-39d702b817ec	Pseudemydura umbrina	Siebenrock, 1901	species	Animalia	Chordata	Reptilia	Testudines	Chelidae	Western Swamp Turtle	1
https://biodiversity.org.au/afd/taxa/837f75fa-8ab2-4fc4-bd1f-3d4243aea9af	Psedna nana	(Rehn, 1953)	species	Animalia	Arthropoda	Insecta	Orthoptera	Pyrgomorphidae	Variable Psedna Grasshopper	1
https://biodiversity.org.au/afd/taxa/842d5feb-69c2-4988-9603-8d5ed50e857c	Castiarina aeraticollis	(Carter, 1930)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/8522374c-a0d1-452a-9e80-7898db3b18c9	Oxycanus occidentalis	Tindale, 1935	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae	Ghost Moth	1
https://biodiversity.org.au/afd/taxa/85551b4f-9b9b-4f38-8115-1d0fb85b5504	Castiarina aquila	(Barker, 1980)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/867af2b5-85f0-44bb-ab2d-7a2e1d4fcce8	Oroderes uniformis	Blackburn, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/869dfe23-30b7-4605-a74e-cfc812e1f6e4	Philobota xanthastis	(Meyrick, 1889)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/86ce8342-eef3-437f-900d-98305d040873	Daerlac picturatus	(Distant, 1904)	species	Animalia	Arthropoda	Insecta	Hemiptera	Rhyparochromidae		1
https://biodiversity.org.au/afd/taxa/8793951c-33f6-4b71-bba9-4135ec60b7a0	Eucrassatella decipiens	(Reeve, 1842)	species	Animalia	Mollusca	Bivalvia	Carditida	Crassatellidae		1
https://biodiversity.org.au/afd/taxa/87e128e0-1bd5-468e-80e6-4e5a58db6e51	Idaea costaria	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	White-edged Wave	1
https://biodiversity.org.au/afd/taxa/88cb3e34-f82f-493a-8a5f-6854c4fca7bc	Neocarenum cylindripenne	Bates, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/88d5edf5-1e1f-497f-856a-50abe7369a6a	Euomus scorpio	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/88fa2e18-a989-43f7-a3e5-a06cc3054e87	Ostrea angasi	Sowerby, 1871	species	Animalia	Mollusca	Bivalvia	Ostreida	Ostreidae	Native Oyster	1
https://biodiversity.org.au/afd/taxa/890f3a6a-b988-4b59-8a5a-4c1eb9133153	Culex (Culex) globocoxitus	Dobrotworsky, 1953	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Mosquito	1
https://biodiversity.org.au/afd/taxa/8983482f-58f5-40b4-ae19-9a8d5fe511f9	Hylaeus (Euprosopoides) rotundiceps	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Plasterer Bee	1
https://biodiversity.org.au/afd/taxa/8a981792-0498-4137-aba0-bbce748c8fbd	Aldrichetta forsteri	(Valenciennes, 1836)	species	Animalia	Chordata	Actinopterygii	Mugiliformes	Mugilidae	Yelloweye Mullet	1
https://biodiversity.org.au/afd/taxa/8a9d2584-efb2-4331-b31b-46ddd481c7b1	Euryglossina (Euryglossina) micheneri	Exley, 1968	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/8af0136d-1e42-4e5e-b978-e7c2e573c575	Macropsis norrisi	(Evans, 1941)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae		1
https://biodiversity.org.au/afd/taxa/8b2912ee-b480-4308-854a-528b30e8dc59	Nacoleia mesochlora	(Meyrick, 1884)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae	Grass Moth	1
https://biodiversity.org.au/afd/taxa/8b3e785f-c57f-4c27-9644-24ca535d8546	Briara basalis	(Schaufuss, 1865)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/8ba3d111-d0b2-4f93-a4c5-d6703abf46d7	Hullia commoni	Paramonov, 1964	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/8c8b4529-43e5-4265-93f0-7691680df106	Gea theridioides	(L. Koch, 1872)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	1
https://biodiversity.org.au/afd/taxa/8cea51fa-0175-4c18-bd2d-de912007f4bf	Ctenochares bicolorus	(Linnaeus, 1767)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/8d05e9ad-7a49-4410-8b38-2db89192ab5d	Gasteruption rugosissimum	(Turner, 1918)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Gasteruptiidae		1
https://biodiversity.org.au/afd/taxa/8d0967e5-ecf5-4691-941e-8cce7954ad68	Eriococcus imperfectus	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/8db18894-6024-4b40-bedc-bf42f0322a8b	Torquigener pleurogramma	(Regan, 1903)	species	Animalia	Chordata	Actinopterygii	Tetraodontiformes	Tetraodontidae	Weeping Toadfish	1
https://biodiversity.org.au/afd/taxa/8e0d2204-fe36-4c58-8d56-54406528706f	Platynectes (Gueorguievtes) decempunctatus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/8f169b28-9241-4a54-aedf-08c1d55ce2fc	Olliffia eucalypti	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/8f42096c-404e-497f-8e3f-c606350a6e42	Bolborhachium triunum	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		1
https://biodiversity.org.au/afd/taxa/8f7dd684-51c0-40ae-898e-a08de807293f	Cleora injectaria	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/8f812790-ca29-4be4-b450-242d5306e13f	Steganopsis melanogaster	(Thomson, 1869)	species	Animalia	Arthropoda	Insecta	Diptera	Lauxaniidae		1
https://biodiversity.org.au/afd/taxa/8fa04648-a19e-455b-96a1-943686426e1a	Carybdea xaymacana	Conant, 1897	species	Animalia	Cnidaria	Cubozoa	Carybdeida	Carybdeidae		1
https://biodiversity.org.au/afd/taxa/8fa8d059-9ce9-41f4-b604-63408d1de0b4	Tringa (Rhyacophilus) stagnatilis	(Bechstein, 1803)	species	Animalia	Chordata	Aves	Charadriiformes	Scolopacidae	Marsh Sandpiper	1
https://biodiversity.org.au/afd/taxa/8fb2c7b3-8fa9-4696-95d2-7bc696335342	Stigmacros clivispina	(Forel, 1902)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/8fc5f9d6-586f-4f0f-a3dc-2b0e8fe77873	Agenioideus nigricornis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae	Spider Wasp	1
https://biodiversity.org.au/afd/taxa/8fdf7d95-b523-43be-83d2-eab563d337c7	Cryptophasa delocentra	(Meyrick, 1890)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/903fe8da-db46-42c2-a150-727909cc5d9a	Myrmecia clarki	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/91220bca-43ec-4fed-901f-2e347c125d10	Hylaeus (Sphaerhylaeus) globuliferus	(Cockerell, 1929)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae	Woolybush Bee	1
https://biodiversity.org.au/afd/taxa/91c04945-b44e-41dd-927a-965820740b6e	Laeviscolia frontalis	(Saussure, 1854)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Scoliidae	Parasitoid Wasp	1
https://biodiversity.org.au/afd/taxa/91c7e7f9-38cd-4007-a026-11907a1b4f54	Oxidus gracilis	(C.L. Koch, 1847)	species	Animalia	Arthropoda	Diplopoda	Polydesmida	Paradoxosomatidae		1
https://biodiversity.org.au/afd/taxa/924778ad-245b-400f-a497-af8700c22674	Pyrrholaemus sagittatus	(Latham, 1801)	species	Animalia	Chordata	Aves	Passeriformes	Acanthizidae	Speckled Warbler	1
https://biodiversity.org.au/afd/taxa/929f397e-4f29-4710-9d10-6a725780410f	Aedes (Ochlerotatus) camptorhynchus	(Thomson, 1869)	species	Animalia	Arthropoda	Insecta	Diptera	Culicidae	Mosquito	1
https://biodiversity.org.au/afd/taxa/92ffed59-42cd-408f-a33a-0ff0f75c3111	Myrmecia michaelseni	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/93094636-e8b5-446e-be22-3e0e30ef2564	Pantoreites micans	Lea, 1898	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/933ce3d3-56dc-434c-bba5-850332e74ca3	Moranila comperei	(Ashmead, 1904)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/93468a26-7ebe-4827-ad2f-7fb4ce55a082	Hydraena cygnus	Zwick, 1977	species	Animalia	Arthropoda	Insecta	Coleoptera	Hydraenidae	Minute Moss Beetle	1
https://biodiversity.org.au/afd/taxa/93852469-f5e8-432e-ad53-fbd871afa035	Sterna (Sterna) dougallii	Montagu, 1813	species	Animalia	Chordata	Aves	Charadriiformes	Laridae	Roseate Tern	1
https://biodiversity.org.au/afd/taxa/942bf5a4-f8ab-42a2-b7f8-daa269882c50	Scaptia minuscula	Mackerras, 1960	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/9436efa2-7a72-457d-9c6d-382cec7a992d	Helea rugosipennis	(Carter, 1910)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/945387ca-e7e8-4822-aa46-4ca19a89abf5	Austalis smaragdi	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Syrphidae		1
https://biodiversity.org.au/afd/taxa/9454e23b-9df7-499f-949d-b9fae8cfcde2	Synsphyronus mimetus	Chamberlin, 1943	species	Animalia	Arthropoda	Arachnida	Pseudoscorpiones	Garypidae	Pseudoscorpion	1
https://biodiversity.org.au/afd/taxa/948d8ca1-62fc-4d03-a79d-4be2de837264	Sus scrofa	Linnaeus, 1758	species	Animalia	Chordata	Mammalia	Artiodactyla	Suidae	Pig	1
https://biodiversity.org.au/afd/taxa/94a2b12e-fff6-4b23-8b6b-07f9a4bb807b	Longepi woodman	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	1
https://biodiversity.org.au/afd/taxa/94b31b15-2e10-4caa-8bd6-217996e8fcfa	Bothriembryon (Bothriembryon) balteolus	Iredale, 1939	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Bothriembryontidae		1
https://biodiversity.org.au/afd/taxa/95989b22-cc7b-4b1c-ac96-b6eb7d23d258	Acanthomima rhipheus	(Westwood, 1859)	species	Animalia	Arthropoda	Insecta	Phasmida	Phasmatidae		1
https://biodiversity.org.au/afd/taxa/964d0334-ac5d-4ccb-bf97-4e513dec2a1d	Sphex bilobatus	Kohl, 1895	species	Animalia	Arthropoda	Insecta	Hymenoptera	Sphecidae		1
https://biodiversity.org.au/afd/taxa/96db6160-ca14-4e1f-9236-e2baaca553da	Anas (Nettion) gracilis	Buller, 1869	species	Animalia	Chordata	Aves	Anseriformes	Anatidae	Grey Teal	1
https://biodiversity.org.au/afd/taxa/96e35cba-e86c-47dd-848e-056377227209	Hamirostra melanosternon	(Gould, 1841)	species	Animalia	Chordata	Aves	Accipitriformes	Accipitridae	Black-breasted Buzzard	1
https://biodiversity.org.au/afd/taxa/970bcf98-2b68-461f-a610-fe4ecba87a04	Stomorhina pollinosa	Dear, 1977	species	Animalia	Arthropoda	Insecta	Diptera	Rhiniidae		1
https://biodiversity.org.au/afd/taxa/97c64d44-eae2-4381-891a-0db6dab2799c	Thyene concinna	(Keyserling, 1881)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae		1
https://biodiversity.org.au/afd/taxa/97dd93a2-fe3f-4083-b21a-4340af658b1f	Pachyneuron emersoni	Girault, 1916	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/97f4d62d-440b-407d-92dc-9bd0c6db3ffb	Turneromyia bassiana	(Turner, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pompilidae	Spider Wasp	1
https://biodiversity.org.au/afd/taxa/98387250-42dc-4eb1-a51c-832e2e92cae9	Coccophagus scutellaris	(Dalman, 1825)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Aphelinidae		1
https://biodiversity.org.au/afd/taxa/984bf7f3-3089-4e55-b494-a285eda21b1d	Motacilla (Budytes) tschutschensis	Gmelin, 1789	species	Animalia	Chordata	Aves	Passeriformes	Motacillidae	Eastern Yellow Wagtail	1
https://biodiversity.org.au/afd/taxa/98b8df13-e1d4-4127-82eb-2dff9484f246	Paropsis ornata	(Marsham, 1808)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/98e067fa-ad65-47d2-aec5-4ec5d8eaff49	Tmesothynnus zelebori	(Saussure, 1868)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/991e8681-74a6-4eb8-b24c-adfc5251e206	Notsodipus muckera	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae	White-tailed Spider	1
https://biodiversity.org.au/afd/taxa/99313ef3-fec4-4262-bbed-43001d777530	Latrodectus geometricus	C.L. Koch, 1841	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Brown Widow Spider	1
https://biodiversity.org.au/afd/taxa/9985033b-2298-4dfd-8ee6-8596b24b88fa	Achaea janata	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/998f68fd-c063-4fd8-921f-c693a83bb6ac	Castiarina octopunctata	Barker, 1995	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/99e0e13e-49d5-421a-a8f2-3d2ec0fdeb60	Dolomedes facetus	L. Koch, 1876	species	Animalia	Arthropoda	Arachnida	Araneae	Pisauridae	Nursery Web Spider	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/9a26c173-90db-40c8-a40a-c941f10b9289	Calliphora (Paracalliphora) dubia	(Macquart, 1855)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae	Blow Fly	1
https://biodiversity.org.au/afd/taxa/9a386f42-e1a0-4109-b295-969d6a6639b8	Hednota bivittella	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Crambidae		1
https://biodiversity.org.au/afd/taxa/9abbd117-3bd0-4e07-9a3d-a69dd6eb938a	Phalacrocorax (Anacarbo) fuscescens	(Vieillot, 1817)	species	Animalia	Chordata	Aves	Pelecaniformes	Phalacrocoracidae	Black-faced Cormorant	1
https://biodiversity.org.au/afd/taxa/9b0a4ad7-4103-41ef-8f27-7274f380413a	Cyphotettix camelus	Rehn, 1952	species	Animalia	Arthropoda	Insecta	Orthoptera	Tetrigidae		1
https://biodiversity.org.au/afd/taxa/9b4016f5-31c8-47b3-9837-8c40703f82ff	Meranoplus aureolus	Crawley, 1921	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/9b64a189-6b45-4901-81bf-d4b120eca329	Mallada tripunctatus	(McLachlan, 1867)	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		1
https://biodiversity.org.au/afd/taxa/9bc8a9ac-453a-44b7-a6fa-943ce38df29c	Delena lapidicola	(Hirst, 1991)	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae		1
https://biodiversity.org.au/afd/taxa/9bd8f66c-ccf4-40af-b2b7-683f59efae8c	Australomimetus auricolatus	(Hickman, 1929)	species	Animalia	Arthropoda	Arachnida	Araneae	Mimetidae	Pirate Spider	1
https://biodiversity.org.au/afd/taxa/9bdbbf80-e6f0-43a7-a44a-590087e34126	Notalina fulva	Kimmins, 1953	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/9c2f4309-3210-4171-9a0c-5d879aade079	Atherinomorus vaigiensis	(Quoy & Gaimard, 1825)	species	Animalia	Chordata	Actinopterygii	Atheriniformes	Atherinidae	Common Hardyhead	1
https://biodiversity.org.au/afd/taxa/9c87fdf1-cda3-4708-87bb-a8a3cac6282c	Platylomalus umbilicatus	(Marseul, 1870)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/9c91710d-757b-40aa-912a-37813d7e8142	Anoeconeossa communis	Taylor, 1987	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae		1
https://biodiversity.org.au/afd/taxa/9c99ed7a-4a64-4174-b37f-558949f64cef	Plebs bradleyi	(Keyserling, 1887)	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Enamelled Spider	1
https://biodiversity.org.au/afd/taxa/9cba92b1-d1c6-43b6-b313-8c691f490d1a	Belenois java	(Linnaeus, 1768)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pieridae	Caper White	1
https://biodiversity.org.au/afd/taxa/9cf82761-df07-4dee-9ef2-1593e20ac825	Monomorium rothsteini	Forel, 1902	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Smiling Mono Ant	1
https://biodiversity.org.au/afd/taxa/9d137712-8748-4601-a698-1c8731a63646	Mygalopsis marki	Bailey, 1980	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/9d9d727f-7066-4e0b-a657-54efb0c5b381	Forficula auricularia	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Dermaptera	Forficulidae	European Earwig	1
https://biodiversity.org.au/afd/taxa/9dd46d49-66ae-44d1-82ab-4f12e88d7084	Miscera centropis	Meyrick, 1907	species	Animalia	Arthropoda	Insecta	Lepidoptera	Brachodidae	Day-flying Moth	1
https://biodiversity.org.au/afd/taxa/9e2b4f17-aff6-4855-82ca-0edb08c542f1	Quasispermophorella neuropunctata	(Esben-Petersen, 1917)	species	Animalia	Arthropoda	Insecta	Neuroptera	Berothidae		1
https://biodiversity.org.au/afd/taxa/9e53e17e-a1a5-46c2-a728-3211b4bac7b9	Phallaria ophiusaria	GuenÃ©e, 1857	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Brown Leaf Moth	1
https://biodiversity.org.au/afd/taxa/9eb24055-3d88-4f4c-9afd-f1b94855d506	Tympanophora pinnaroo	Rentz, 2001	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/9f4ef5f0-7a28-44d0-a263-dea4f05f3cce	Tridentiger trigonocephalus	(Gill, 1860)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Trident Goby	1
https://biodiversity.org.au/afd/taxa/9fe09f0f-809f-467e-a86b-71dbe88857f6	Hesthesis angulatus	Pascoe, 1863	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/9ffc2a82-51a5-4bf6-9c9d-9c787e3dbb68	Eupines (Eupines) flavoapicalis	Lea, 1910	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/a02783da-9f50-4129-b315-26145214e87a	Orcus nummularis	(Boisduval, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Coccinellidae		1
https://biodiversity.org.au/afd/taxa/a067bc8a-75a5-492c-a769-f4fe37e9492d	Copidita erythroderes	Lea, 1917	species	Animalia	Arthropoda	Insecta	Coleoptera	Oedemeridae		1
https://biodiversity.org.au/afd/taxa/a0c26a7b-70b6-44f9-999c-407f91c3e051	Euryglossina (Euryglossina) melanocephala	Exley, 1968	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/a0e29fe2-d56a-45fc-afdc-d65e916b2b2e	Terobiella similis	(Girault, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/a0ed1e30-e941-48ff-9d59-c5868455870d	Protoplectron longitudinale	Tillyard, 1916	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae	Lacewing	1
https://biodiversity.org.au/afd/taxa/a0f00fbc-5825-49c7-aedb-aabd03c19e23	Grammodes oculicola	Walker, 1858	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/a108acef-2255-4866-9bfa-66a49e84fb99	Camponotus walkeri	Forel, 1893	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Sugar Ant	1
https://biodiversity.org.au/afd/taxa/a1e04960-ebbc-40cb-8856-046387888fa3	Euhesma (Euhesma) tubulifera	(Houston, 1983)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/a2074cb8-e146-452c-b326-e2b583f51cc6	Setonix brachyurus	(Quoy & Gaimard, 1830)	species	Animalia	Chordata	Mammalia	Diprotodontia	Macropodidae	Quokka	1
https://biodiversity.org.au/afd/taxa/a32b609d-74fd-4177-897e-19dfe2aa6a31	Evas argenteiventris	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/a427e490-1634-416a-a9e8-25b5fc4ff651	Phryssonotus novaehollandiae	(Silvestri, 1923)	species	Animalia	Arthropoda	Diplopoda	Polyxenida	Synxenidae		1
https://biodiversity.org.au/afd/taxa/a51908b7-0cc9-43b3-bdc8-8f673ab53f0e	Pheidole impressiceps	Mayr, 1876	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/a51dca29-50e7-49b4-ae35-5c35a9c4f854	Synemon plana	Walker, 1854	species	Animalia	Arthropoda	Insecta	Lepidoptera	Castniidae	Golden Sun Moth	1
https://biodiversity.org.au/afd/taxa/a534720d-0c1f-4aad-864e-42b7b561d325	Armactica columbina	Walker, 1865	species	Animalia	Arthropoda	Insecta	Lepidoptera	Nolidae		1
https://biodiversity.org.au/afd/taxa/a556e305-47fa-4ad8-b69f-21c37ddb6d06	Dichromodes leptozona	Turner, 1930	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/a5b927dd-d5ca-4371-aba2-c4d3ff0b8872	Euphanta munda	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Flatidae		1
https://biodiversity.org.au/afd/taxa/a5fbaef3-553a-428a-b452-4f4cf3aab200	Aphanosperma occidentalis	Britton, 1969	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/a7720374-49dd-4688-80f7-3ef95bf3f128	Newmanoperla exigua	(Kimmins, 1951)	species	Animalia	Arthropoda	Insecta	Plecoptera	Gripopterygidae	Stonefly	1
https://biodiversity.org.au/afd/taxa/a7d96973-4c8b-4abb-b0d4-cc4df11bbd14	Habroloma australis	(Macleay, 1888)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/a8c135bf-e736-4eb0-94e7-c7a8e055ace9	Teredo furcifera	von Martens, 1894	species	Animalia	Mollusca	Bivalvia	Myida	Teredinidae		1
https://biodiversity.org.au/afd/taxa/a9470499-c372-4ca8-bd99-c7d0ba0fc5cc	Helpis minitabunda	(L. Koch, 1880)	species	Animalia	Arthropoda	Arachnida	Araneae	Salticidae	Bronze Aussie Jumping Spider	1
https://biodiversity.org.au/afd/taxa/a9523d79-4195-4d4d-80b2-1c8b5117ce09	Castiarina gravis	(Harold, 1869)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/aaed4d86-574b-4626-b99d-be1e22b83d35	Poecilasthena anthodes	(Meyrick, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/ab5501d6-a60b-49d7-9c09-2fcd16e4c860	Bombyx mori	(Linnaeus, 1758)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Bombycidae	Silkworm	1
https://biodiversity.org.au/afd/taxa/abb419a9-49ee-49a9-83f2-1fbb7dcc2196	Coccobius gracilis	(Howard, 1914)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Aphelinidae		1
https://biodiversity.org.au/afd/taxa/ac9a9100-ca22-4683-85ea-72b9fc9ab6bb	Ippatha australiensis	Distant, 1910	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/acbc8672-cd73-4581-acdc-584577441673	Aiolopus thalassinus	(Fabricius, 1781)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/acd10974-44bc-4daa-8321-367ba18d1881	Stenoptilia zophodactylus	(Duponchel, 1840)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Pterophoridae	Plume Moth	1
https://biodiversity.org.au/afd/taxa/ad05a67a-f8ba-4328-ba08-ce113f2914bc	Diplocotes longicornis	(Lea, 1919)	species	Animalia	Arthropoda	Insecta	Coleoptera	Ptinidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/ad577d1f-9153-4a31-a70d-b3364d325ed5	Xanthorhoe vacuaria	(GuenÃ©e, 1857 [1858])	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/ad5c3a33-2d0f-41f8-8f40-f68af8eb19de	Camponotus lownei	Forel, 1895	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Sugar Ant	1
https://biodiversity.org.au/afd/taxa/ad74c785-b255-42bb-9ed9-c5af854ed39c	Cyprotides cyprotus	(Olliff, 1886)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae	Copper Pencilled-blue	1
https://biodiversity.org.au/afd/taxa/adbc1c62-faba-453c-9ba9-2183ceb65a5d	Scolia (Discolia) verticalis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Scoliidae	Parasitoid Wasp	1
https://biodiversity.org.au/afd/taxa/adf7620e-0f85-4c40-9c08-e554fe26ffa9	Marteena rubricincta	(Goding & Froggatt, 1904)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Large Yellow-spotted Cicada	1
https://biodiversity.org.au/afd/taxa/ae72f6c9-047b-44b2-8d06-f06fd4707b03	Lioponera angustata	(Clark, 1924)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/aec73fd3-f93e-4c5d-b523-8bc7998dc015	Chrysis perthensis	(Linsenmaier, 1982)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Chrysididae		1
https://biodiversity.org.au/afd/taxa/af1259ca-0a43-4ad1-9626-105ee00d1521	Psilosticha pristis	(Meyrick, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/af4cdc9c-77f3-4c7d-8004-26e5933c7912	Hesperenoeca leucostemma	(Turner, 1941)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/b0c75774-8550-49de-a2f8-ae2104ad4bd8	Ischnochiton (Haploplax) smaragdinus	(Angas, 1867)	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		1
https://biodiversity.org.au/afd/taxa/b0e3e827-a0b5-4ecd-817b-e90a320a86a9	Ophelimus zealandicus	(Ashmead, 1904)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Eulophidae		1
https://biodiversity.org.au/afd/taxa/b12a16e9-28bf-4dc2-a6be-6bed5674e666	Campion callosus	Lambkin, 1986	species	Animalia	Arthropoda	Insecta	Neuroptera	Mantispidae		1
https://biodiversity.org.au/afd/taxa/b17002de-8cbb-4bcb-b4a5-048afcfea852	Pseudococcus longispinus	(Targioni Tozzetti, 1867)	species	Animalia	Arthropoda	Insecta	Hemiptera	Pseudococcidae	Kimhit Aruqat Zanav	1
https://biodiversity.org.au/afd/taxa/b1b0600f-0f94-48da-a61d-103d9fd5e644	Apsilochorema urdalum	Neboiss, 1962	species	Animalia	Arthropoda	Insecta	Trichoptera	Hydrobiosidae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/b1b3ee6a-6db3-4de9-a360-ea240283d5c9	Idaea philocosma	(Meyrick, 1888)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/b1c41141-c348-4f3f-b597-a35da015da2b	Goniaea vocans	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Slender Gumleaf Grasshopper	1
https://biodiversity.org.au/afd/taxa/b1c7a5ab-ffb8-49c4-a8d0-4594247fbe79	Anthrax maculatus	Macquart, 1846	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/b1ed4690-17be-4f0b-a937-00f1705f71ad	Castiarina recta	(Saunders, 1869)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/b1f2939e-4dbe-4bbd-9f5e-8d943076ddb5	Miltinus stenogaster	(Westwood, 1841)	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/b1ffadc9-ca1e-41fd-a1a8-14f7f476db8e	Dosinia (Fallartemis) sculpta	(Hanley, 1845)	species	Animalia	Mollusca	Bivalvia	Cardiida	Veneridae	Sculptured Dosinia	1
https://biodiversity.org.au/afd/taxa/b229e643-ed65-4914-9c38-87253751eeea	Cercophonius granulosus	Kraepelin, 1908	species	Animalia	Arthropoda	Arachnida	Scorpiones	Bothriuridae		1
https://biodiversity.org.au/afd/taxa/b25baeb6-01ff-4d68-bc7d-52b46aaa214b	Hogna kuyani	Framenau, Gotch & Austin, 2006	species	Animalia	Arthropoda	Arachnida	Araneae	Lycosidae		1
https://biodiversity.org.au/afd/taxa/b2686755-a3b5-42db-9ccd-7c602e036b0c	Masasteron maini	Baehr, 2004	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/b2bc11cf-b219-4416-811e-86493963f82d	Ardozyga stratifera	(Meyrick, 1904)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Gelechiidae	Twirler Moth	1
https://biodiversity.org.au/afd/taxa/b2bda61f-7db9-4439-88cc-7c8af8a67d34	Paragia tricolor	Smith, 1850	species	Animalia	Arthropoda	Insecta	Hymenoptera	Vespidae		1
https://biodiversity.org.au/afd/taxa/b2f41412-2a00-4b03-95ac-ffae95e56719	Fisera hypoleuca	(Turner, 1919)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Russet Crest-moth	1
https://biodiversity.org.au/afd/taxa/b361d98e-0131-43c5-99dd-8e3a8bb69716	Astenus australicus	Bernhauer, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/b36e49fa-7d41-4fb2-8e40-7cb2e42e8892	Misumena bipunctata	Rainbow, 1898	species	Animalia	Arthropoda	Arachnida	Araneae	Thomisidae		1
https://biodiversity.org.au/afd/taxa/b3b4a4fe-34e8-44a0-806e-619f7db7d47f	Pheidole ampla	Forel, 1893	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/b3b57533-1d98-4c53-9ed9-df162701c770	Myrmecia ludlowi	Crawley, 1922	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/b3b6a51a-dec4-40b2-bf95-c06216f2c161	Iphierga chrysopa	Turner, 1917	species	Animalia	Arthropoda	Insecta	Lepidoptera	Psychidae		1
https://biodiversity.org.au/afd/taxa/b4a775e2-4e5f-4320-9057-46f3b0010f18	Scolecobrotus westwoodii	Hope, 1833	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/b4fa5e42-8033-4538-af25-8b87ced8f344	Atrapsalta encaustica	(Germar, 1834)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Black Squeaker	1
https://biodiversity.org.au/afd/taxa/b56d630f-352d-4589-854a-bdd09b14495c	Strongylorhinus ochraceus	Schoenherr, 1847	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	(gregarious Gall Weevil)	1
https://biodiversity.org.au/afd/taxa/b57b7147-da45-4b89-a37f-e9b8feff728b	Strepsicrates ejectana	(Walker, 1863)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae	Guava Bud Moth	1
https://biodiversity.org.au/afd/taxa/b6cac5b0-27cc-4c85-9c94-e076a632acd0	Castiarina robusta	(Saunders, 1869)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/b70bbbbc-741a-4fdf-9a76-413a52658dd5	Anilicoides haemorrhoidalis	(CandÃ¨ze, 1889)	species	Animalia	Arthropoda	Insecta	Coleoptera	Elateridae		1
https://biodiversity.org.au/afd/taxa/b7103846-4983-43d4-915c-25af23d9ced7	Phanerotoma behriae	Zettel, 1988	species	Animalia	Arthropoda	Insecta	Hymenoptera	Braconidae		1
https://biodiversity.org.au/afd/taxa/b81d7156-7904-469c-97a6-0bf0b1117c66	Meroglossa rubricata	(Smith, 1879)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/b83fb8c7-1996-4723-ab74-e3ce8e915827	Neolaemosaccus varius	(Bovie, 1909)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/b8ab34bd-fc31-4e3d-a444-60a769e73699	Cleora displicata	(Walker, 1860)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/b8b7aa72-3fae-4fda-a873-7c1b525182e1	Cyrioides vittigera	(Laporte & Gory, 1835)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/b94ff043-95cf-43a4-8655-db50efb88c5c	Glenbalodectes norrisi	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/b9525759-a794-4d17-8160-fd77a4801d26	Scolopendra morsitans	Linnaeus, 1758	species	Animalia	Arthropoda	Chilopoda	Scolopendromorpha	Scolopendridae		1
https://biodiversity.org.au/afd/taxa/b9a6855d-f095-40d0-bd4f-5e8e2773b89d	Oecetis walpolica	Neboiss, 1982	species	Animalia	Arthropoda	Insecta	Trichoptera	Leptoceridae	Caddisfly	1
https://biodiversity.org.au/afd/taxa/b9f0356d-b0a3-4e1e-912c-b43669ea2420	Astraeus (Astraeus) fraterculus	van de Poll, 1889	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/ba24beae-d4ac-4da0-8026-3e32f5d63dda	Amenia nigromaculata	Malloch, 1929	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae		1
https://biodiversity.org.au/afd/taxa/ba3085be-f4ad-4ba3-9915-0e611cdfda19	Eurymelops latifascia	(Walker, 1851)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadellidae	Leafhopper	1
https://biodiversity.org.au/afd/taxa/bab8dc2c-2f72-42cd-b302-871974162669	Wurda norrisi	Lambkin & Yeates, 2003	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/bac5257b-d89d-4311-9c44-fce1e9b80405	Mauropteron pelago	(Walker, 1849)	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae	Robber Fly	1
https://biodiversity.org.au/afd/taxa/bace597d-d167-4c96-856d-b2fa5c3fed68	Metopochetus (Seva) bickeli	McAlpine, 1998	species	Animalia	Arthropoda	Insecta	Diptera	Micropezidae		1
https://biodiversity.org.au/afd/taxa/bb02f6d8-9507-4886-a33b-b4b59a41b9f5	Bembix leeuwinensis	Turner, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae		1
https://biodiversity.org.au/afd/taxa/bb5bcfcf-a3ef-4d27-acbd-a511c344cc16	Gotra pomonellae	(Cameron, 1912)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/bb5e8c3b-c218-4551-ba78-0873a9af6288	Mogulones larvatus	(Schultze, 1897)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae	Paterson's Curse Crown Weevil	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/bb8df0af-3390-433a-8376-8d116a96b04d	Temognatha reichei	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/bc284369-fd28-45c3-a31d-6d26d5328220	Hypsidia microspila	(Turner, 1942)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Drepanidae		1
https://biodiversity.org.au/afd/taxa/bc3f268c-b467-4db3-9d8e-868580c40b4b	Scoloplos normalis	(Day, 1977)	species	Animalia	Annelida	Polychaeta		Orbiniidae		1
https://biodiversity.org.au/afd/taxa/bc8abf00-d671-49ab-a08f-8c385750f8ff	Tiracerus pascoeus	(Sharp, 1874)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/bd6d5aed-65d7-446b-be6c-3e5c2c7f92ca	Micramicta amolgaea	(Turner, 1938)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae		1
https://biodiversity.org.au/afd/taxa/bede92e7-8579-4f90-af9c-bff648047f2b	Tetramorium impressum	(Viehmeyer, 1925)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/beefc08a-4a28-42aa-a92e-94f44511efde	Blackbolbus taurus	(Westwood, 1848)	species	Animalia	Arthropoda	Insecta	Coleoptera	Bolboceratidae		1
https://biodiversity.org.au/afd/taxa/bf01070a-0f1f-46b1-a527-57c1ca400258	Oncocoris desertus	Bergroth, 1916	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		1
https://biodiversity.org.au/afd/taxa/bf8c0283-f035-473b-893b-e365242738d3	Austrotichus rugosus	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Scutelleridae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/bf8d2470-6c86-4483-b695-51fa1a373ec1	Kalotermes aemulus	Sewell & Gay, 1978	species	Animalia	Arthropoda	Insecta	Blattodea	Kalotermitidae		1
https://biodiversity.org.au/afd/taxa/bfc132cc-2347-4f09-ab96-552132fd2413	Platysoma (Platysoma) georgii	Marseul, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/bfdad07d-4fb1-41ce-8edb-e9e54871b8d6	Lixus breweri	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/c00640fb-38ea-4e6d-9e26-bb631d39f50c	Laetesia mollita	Simon, 1908	species	Animalia	Arthropoda	Arachnida	Araneae	Linyphiidae	Money Spider	1
https://biodiversity.org.au/afd/taxa/c07a0c8d-34e6-434a-b077-b68c325eac8d	Aphneope sericata	Pascoe, 1863	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/c07b4490-d6f9-4cce-bb34-5d30e8ecc999	Ischnochiton (Autochiton) torri	Iredale & May, 1916	species	Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae		1
https://biodiversity.org.au/afd/taxa/c11ca0d9-0413-4ba5-806e-e09ca7803041	Coptocercus pedator	(Pascoe, 1864)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/c142fe83-f2c5-45f4-9406-d716112a18e8	Poecilipta smaragdinea	(Simon, 1909)	species	Animalia	Arthropoda	Arachnida	Araneae	Corinnidae		1
https://biodiversity.org.au/afd/taxa/c1530893-f4d9-4bd9-966e-2eda5f921b46	Megalothynnus friederichi	(Dalla Torre, 1897)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/c2ae2daf-6856-494f-b0fb-37309950da54	Bungulla harrisonae	Rix, Raven & Harvey, 2018	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		1
https://biodiversity.org.au/afd/taxa/c2b9ce1e-762f-4415-ac05-ab41c1cf94c7	Physiphora clausa	(Macquart, 1843)	species	Animalia	Arthropoda	Insecta	Diptera	Ulidiidae		1
https://biodiversity.org.au/afd/taxa/c306e3f1-03aa-435d-bac7-551c9c7d1e46	Delena cancerides	Walckenaer, 1837	species	Animalia	Arthropoda	Arachnida	Araneae	Sparassidae	Flat Huntsman Spider	1
https://biodiversity.org.au/afd/taxa/c35f13a3-d8d0-4bf0-9c78-3654604edb54	Musculus (Musculus) nanulus	Thiele, 1930	species	Animalia	Mollusca	Bivalvia	Mytilida	Mytilidae		1
https://biodiversity.org.au/afd/taxa/c37c3b1a-9bd5-4f63-9ec9-b9b46a2e6266	Chrysopogon melanorrhinus	Clements, 1985	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae	Robber Fly	1
https://biodiversity.org.au/afd/taxa/c3998ce1-74f4-4e95-a41a-7207c932bba9	Mackerrastrongylus mawsonae	Inglis, 1968	species	Animalia	Nematoda	Chromadorea	Rhabditida	Trichostrongylidae		1
https://biodiversity.org.au/afd/taxa/c3d010b9-6067-407f-b451-3a3ce2f22134	Musca vetustissima	Walker, 1849	species	Animalia	Arthropoda	Insecta	Diptera	Muscidae	Bush Fly	1
https://biodiversity.org.au/afd/taxa/c413e82b-40ae-4473-8461-f80ab97f9342	Nasutitermes exitiosus	(Hill, 1925)	species	Animalia	Arthropoda	Insecta	Blattodea	Termitidae	Snouted Termite	1
https://biodiversity.org.au/afd/taxa/c45b74db-e978-4a41-a019-ec13e941230f	Oxyopes punctatus	L. Koch, 1878	species	Animalia	Arthropoda	Arachnida	Araneae	Oxyopidae		1
https://biodiversity.org.au/afd/taxa/c4e1c080-fbeb-4bad-ab3d-8e5e1ee309dc	Sessinia punctum	(W.S. Macleay, 1826)	species	Animalia	Arthropoda	Insecta	Coleoptera	Oedemeridae		1
https://biodiversity.org.au/afd/taxa/c522e1a9-848b-41cc-ad8e-5a9e99dd87e9	Apiomorpha ovicoloides	(Tepper, 1893)	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae	Felt Scale Insect	1
https://biodiversity.org.au/afd/taxa/c548bc5c-49e8-469f-b835-31b594982146	Aphela helopoides	Pascoe, 1865	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/c5f2228b-9844-4072-9cb9-cc9510c54124	Achaea argilla	Swinhoe, 1901	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae		1
https://biodiversity.org.au/afd/taxa/c6531fa7-4305-4fa5-bed1-69958d542aef	Hyphydrus elegans	(Montrouzier, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/c6b5a8d2-b19b-4bcc-ac13-30f4f4d79a2e	Podomyrma chasei	Forel, 1901	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/c7807e28-1ef5-4a18-9954-ef6dce7ff7e1	Hemiaspis signata	(Jan, 1859)	species	Animalia	Chordata	Reptilia	Squamata	Elapidae	Black-bellied Swamp Snake	1
https://biodiversity.org.au/afd/taxa/c7a7d28f-b337-4470-af70-8d24aacae4ae	Encopothynnus spinulosus	Turner, 1915	species	Animalia	Arthropoda	Insecta	Hymenoptera	Tiphiidae		1
https://biodiversity.org.au/afd/taxa/c7c49527-b148-4e8b-ba1f-6be2aa73dfaf	Nauphoeta cinerea	(Olivier, 1789)	species	Animalia	Arthropoda	Insecta	Blattodea	Blaberidae	Speckled Cockroach	1
https://biodiversity.org.au/afd/taxa/c802c55f-80a8-481a-8a31-f7db7923ea9a	Dimorphochilus apicalis	Borchmann, 1908	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/c82559eb-0f2d-495b-9d13-fdf5964f8ccc	Platyzosteria similis	Princis, 1954	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Cockroach	1
https://biodiversity.org.au/afd/taxa/c8262ee9-60df-4c98-9604-e50354f94053	Gaius villosus	Rainbow, 1914	species	Animalia	Arthropoda	Arachnida	Araneae	Idiopidae		1
https://biodiversity.org.au/afd/taxa/c9d2e57d-a4b9-418d-a0a0-4c9477c04416	Araneus ginninderranus	Dondale, 1966	species	Animalia	Arthropoda	Arachnida	Araneae	Araneidae	Orb-weaver Spider	1
https://biodiversity.org.au/afd/taxa/ca0f23e8-b0f0-4980-8991-737b1b394fc5	Erigone prominens	Bosenberg & Strand, 1906	species	Animalia	Arthropoda	Arachnida	Araneae	Linyphiidae	Money Spider	1
https://biodiversity.org.au/afd/taxa/ca42ab9c-74aa-4339-889a-33d4410dacb7	Utetheisa lotrix	(Cramer, 1777)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Moth	1
https://biodiversity.org.au/afd/taxa/cafa2b08-a812-4908-a69c-912b1b419cfc	Paropsis elytrura	Blackburn, 1901	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/cb42bbaa-d172-4617-8a49-ce13b7bcc4f0	Eriococcus hakeae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Eriococcidae		1
https://biodiversity.org.au/afd/taxa/cb4c2b42-e227-4ca5-885a-c2326ae6321c	Molochtus gagates	Pascoe, 1874	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/cc7bddfb-4077-49fd-8bbf-b683564fc0f7	Blatta orientalis	Linnaeus, 1758	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae	Oriental Cockroach	1
https://biodiversity.org.au/afd/taxa/ccea2408-a0f1-4a5f-b080-3e77ff1b38d9	Aonidia banksiae	Fuller, 1897	species	Animalia	Arthropoda	Insecta	Hemiptera	Diaspididae		1
https://biodiversity.org.au/afd/taxa/cd6ad15a-894b-4d91-9e6c-6e6c21fd5091	Allodessus bistrigatus	(Clark, 1862)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/ce69a115-a5e4-4332-b737-23baf53f77e9	Hoplostega ochroma	(Meyrick, 1886)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/cfb39306-586c-4270-9ecb-7679ebe4c563	Frontalia genalis	Malloch, 1929	species	Animalia	Arthropoda	Insecta	Diptera	Pyrgotidae		1
https://biodiversity.org.au/afd/taxa/cfb6c4e0-2899-4322-929a-c47d66a4abfb	Porcellio laevis	Latreille, 1804	species	Animalia	Arthropoda	Malacostraca	Isopoda	Porcellionidae		1
https://biodiversity.org.au/afd/taxa/cfe9eca1-feb1-453d-bbb9-5794c5fb0158	Poecilasthena xylocyma	(Meyrick, 1891)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae	Geometer Moth	1
https://biodiversity.org.au/afd/taxa/cfea8d32-3a6d-4db0-8819-3b5112a5a471	Euryglossina (Euryglossina) perpusilla	(Cockerell, 1910)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/d00b4a1f-ffc3-4636-985d-f640a4e1c316	Conuber conicum	(Lamarck, 1822)	species	Animalia	Mollusca	Gastropoda	Hypsogastropoda	Naticidae	Conical Sand Snail	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/d0448257-ea49-4298-97b2-82cd7df01180	Parathyginus acuminatus	Malipatil, 2021	species	Animalia	Arthropoda	Insecta	Hemiptera	Heterogastridae		1
https://biodiversity.org.au/afd/taxa/d0797ddf-5eaf-40da-84e0-87c2f97e2da5	Castiarina laena	(Thomson, 1879)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/d0845748-65a1-4aa8-9ac6-46bde2e89d72	Polyrhachis (Campomyrma) femorata	Smith, 1858	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae	Ant	1
https://biodiversity.org.au/afd/taxa/d147024b-971d-4eee-b3e0-83c0601cb3d2	Heleioporus inornatus	(Lee & Main, 1954)	species	Animalia	Chordata	Amphibia	Anura	Limnodynastidae	Plains Frog	1
https://biodiversity.org.au/afd/taxa/d169c670-875a-4f1e-a1a9-fbb19430ba10	Melanozosteria occidentalis	Mackerras, 1968	species	Animalia	Arthropoda	Insecta	Blattodea	Blattidae		1
https://biodiversity.org.au/afd/taxa/d17a5660-110b-40a0-80af-93926fbb3056	Pristoderus elongatus	(Blackburn, 1891)	species	Animalia	Arthropoda	Insecta	Coleoptera	Zopheridae		1
https://biodiversity.org.au/afd/taxa/d18210b4-ea60-48e2-8894-078ec46194d2	Scoloplos cylindrifer	Ehlers, 1904	species	Animalia	Annelida	Polychaeta		Orbiniidae		1
https://biodiversity.org.au/afd/taxa/d2d7481a-4639-4993-bcd1-07f97980f962	Bostockia porosa	Castelnau, 1873	species	Animalia	Chordata	Actinopterygii	Perciformes	Percichthyidae	Nightfish	1
https://biodiversity.org.au/afd/taxa/d35aa5f5-3395-4a93-a8be-1f661ef7ea3b	Casbia lithodora	(Meyrick, 1892)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/d4fbd9cd-ac30-4c85-a990-b38f48f2fe25	Euomma testacea	(Carter, 1920)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/d54e4d6d-5901-434f-bedb-0c9e1cf46559	Psalidostetha banksiae	(Lewin, 1805)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Notodontidae	Banksia Moth	1
https://biodiversity.org.au/afd/taxa/d5557f1d-f417-437f-b548-e02f42cc6974	Diplazon laetatorius	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Ichneumonidae		1
https://biodiversity.org.au/afd/taxa/d5776799-414c-4012-87fc-4a069acf84f6	Abantiades lineacurva	Moore & Edwards, 2014	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hepialidae		1
https://biodiversity.org.au/afd/taxa/d599e780-27f9-4077-a4cb-5844d5656444	Lasioglossum (Chilalictus) metallicum	Walker, 1995	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/d59edf76-5bcd-48c5-90ef-8d7948541044	Ciampa melanostrepta	(Lower, 1893)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/d5ad45ee-bed8-4378-8a71-dfece38023f6	Encarsia perseus	(Girault, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Aphelinidae		1
https://biodiversity.org.au/afd/taxa/d5b6c816-b979-4b95-84d8-739d4de6104c	Falco (Hierofalco) subniger	G.R. Gray, 1843	species	Animalia	Chordata	Aves	Falconiformes	Falconidae	Black Falcon	1
https://biodiversity.org.au/afd/taxa/d5e88c70-f981-4c65-a69a-b4feffd955a7	Achaearanea tepidariorum	(C.L. Koch, 1841)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	1
https://biodiversity.org.au/afd/taxa/d6192a35-3f44-458b-9505-a571955fc476	Ptilonorhynchus violaceus	(Vieillot, 1816)	species	Animalia	Chordata	Aves	Passeriformes	Ptilonorhynchidae	Satin Bowerbird	1
https://biodiversity.org.au/afd/taxa/d636d35b-9fca-40f5-bd7f-ee9cde8e96f7	Ectopatria mundoides	(Lower, 1893)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/d6e55051-fd45-4e42-a028-f20ebabb343a	Diplodactylus pulcher	(Steindachner, 1870)	species	Animalia	Chordata	Reptilia	Squamata	Diplodactylidae	Fine-faced Gecko	1
https://biodiversity.org.au/afd/taxa/d722a304-7bbf-48a6-a2d8-81ddd3783af6	Leichenum canaliculatum	(Fabricius, 1798)	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/d7cd95eb-814c-4d43-b97d-cd10ccae072d	Deretaphrus xanthorrhoeae	Lea, 1899	species	Animalia	Arthropoda	Insecta	Coleoptera	Bothrideridae		1
https://biodiversity.org.au/afd/taxa/d80adaad-c1cf-4660-a378-d5bd42b2819e	Aonychus bicruciatus	Lea, 1905	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/d8cdc7df-6049-4fb7-9e2c-48fd75ecca76	Melita matilda	J.L. Barnard, 1972	species	Animalia	Arthropoda	Malacostraca	Amphipoda	Melitidae		1
https://biodiversity.org.au/afd/taxa/da09d8a0-13b4-46ad-a2de-79bfa0e40f02	Syneora leucanthes	(Turner, 1947)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Geometridae		1
https://biodiversity.org.au/afd/taxa/da29fd7f-21ab-4131-a929-852514ef8aef	Codula occidentalis	Clements, 1985	species	Animalia	Arthropoda	Insecta	Diptera	Asilidae		1
https://biodiversity.org.au/afd/taxa/da3e1c04-7a6e-4b1e-ab92-49523cdee86d	Everardia picta	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		1
https://biodiversity.org.au/afd/taxa/da5db081-bc10-4b47-93cf-18ed30d89a1a	Pachyptila desolata	(Gmelin, 1789)	species	Animalia	Chordata	Aves	Procellariiformes	Procellariidae	Antarctic Prion	1
https://biodiversity.org.au/afd/taxa/daa188cc-adc2-4b8b-92e9-d8f4ee0b28d7	Ptilotula penicillata	(Gould, 1837)	species	Animalia	Chordata	Aves	Passeriformes	Meliphagidae	White-plumed Honeyeater	1
https://biodiversity.org.au/afd/taxa/db481bbc-06c2-49c7-a5ae-8f593dd12fe6	Bimia bicolor	White, 1850	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae	Bimia Longicorn	1
https://biodiversity.org.au/afd/taxa/dc92be94-a3e2-4cb2-8614-7087fccece87	Pseudopenthes hesperis	Lambkin & Yeates, 2003	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae		1
https://biodiversity.org.au/afd/taxa/dd1217b7-1867-427d-9e0d-4a70e95e8b8b	Crinia signifera	Girard, 1853	species	Animalia	Chordata	Amphibia	Anura	Myobatrachidae	Common Froglet	1
https://biodiversity.org.au/afd/taxa/ddf4074f-0d90-47fd-85ac-ad5263df7f7c	Eucalyptolyma maideni	Froggatt, 1901	species	Animalia	Arthropoda	Insecta	Hemiptera	Aphalaridae		1
https://biodiversity.org.au/afd/taxa/ded0d1a2-27a2-4cfc-9258-db4715d39441	Teredo bartschi	Clapp, 1923	species	Animalia	Mollusca	Bivalvia	Myida	Teredinidae		1
https://biodiversity.org.au/afd/taxa/dfbaad56-9aab-4357-bbf6-05ed2fa4105a	Pycnostictus seriatus	de Saussure, 1884	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/e02d9fcf-6f09-459f-8384-22f75588f2c6	Moranila australica	(Girault, 1917)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Pteromalidae		1
https://biodiversity.org.au/afd/taxa/e0c730d2-8358-44a1-b947-c21a2c174bd1	Leucospis rieki	Boucek, 1974	species	Animalia	Arthropoda	Insecta	Hymenoptera	Leucospidae		1
https://biodiversity.org.au/afd/taxa/e11bb1ea-81e1-4a79-828e-52172f883337	Ornithophila metallica	(Schiner, 1862)	species	Animalia	Arthropoda	Insecta	Diptera	Hippoboscidae		1
https://biodiversity.org.au/afd/taxa/e15a89fc-7ae7-494e-94c3-0dd2af10fc36	Orthodera gunnii	(Le Guillou, 1841)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae		1
https://biodiversity.org.au/afd/taxa/e1794dc5-33dc-4be8-8064-b1917e87cc7e	Siraton roei	(Boheman, 1843)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/e1efa6f5-427c-4a63-bb71-9c812bba3b70	Xerocincta neglecta	(Draparnaud, 1805)	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Hygromiidae	Dune Snail	1
https://biodiversity.org.au/afd/taxa/e209e388-2b9e-4caa-9b93-490482751cde	Rhynolaccus exsertus	(Pascoe, 1872)	species	Animalia	Arthropoda	Insecta	Coleoptera	Brentidae		1
https://biodiversity.org.au/afd/taxa/e26897ea-feb2-4365-ba7f-aa358505f0cc	Peakesia hospita	(BolÃ-var, 1898)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/e27a2aff-69d1-4f71-b386-17c2b28a1b36	Bettongia penicillata	Gray, 1837	species	Animalia	Chordata	Mammalia	Diprotodontia	Potoroidae	Brush-tailed Bettong	1
https://biodiversity.org.au/afd/taxa/e32c8f98-483a-4b53-b0cd-42c804badef6	Agapophytus asprolepidotos	Winterton & Irwin, 2001	species	Animalia	Arthropoda	Insecta	Diptera	Therevidae		1
https://biodiversity.org.au/afd/taxa/e33f881f-cf28-4a2b-9f34-648b20ce91a0	Lasioglossum (Chilalictus) appositum	(Rayment, 1939)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/e3b842b7-d9f2-487f-a1b6-7fd112051874	Megalopsalis porongorupensis	(Kauri, 1954)	species	Animalia	Arthropoda	Arachnida	Opiliones	Neopilionidae		1
https://biodiversity.org.au/afd/taxa/e3cca9fc-50e3-421f-9513-dd404238a56b	Lerista lineopunctulata	(DumÃ©ril & Bibron, 1839)	species	Animalia	Chordata	Reptilia	Squamata	Scincidae	Dotted-line Robust Slider	1
https://biodiversity.org.au/afd/taxa/e401b14e-7638-4878-95c2-b95babf313a0	Melobasis conica	(Laporte & Gory, 1837)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/e46c14fe-c026-45ae-a89a-a7eb3da76ac0	Chrysonoma fascialis	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Oecophoridae	Concealer Moth	1
https://biodiversity.org.au/afd/taxa/e473834b-a0eb-473c-b59e-55fa06e3c3b4	Rutilia (Rutilia) vivipara	(Fabricius, 1805)	species	Animalia	Arthropoda	Insecta	Diptera	Tachinidae	Horse Fly	1
https://biodiversity.org.au/afd/taxa/e4c6be73-1bf5-45a3-abde-d95f4070f7eb	Anthoglossa plumatus	(Smith, 1853)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Colletidae		1
https://biodiversity.org.au/afd/taxa/e5438d87-4225-46d5-a5eb-c9899dc2aaab	Prolasius antennatus	McAreavey, 1947	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/e55922af-1e4e-4b5f-8a7e-9ab64ed789f2	Leptopius spinosus	(FÃ¥hraeus, 1842)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/e5ebb0bd-d45e-417b-9508-6870ffdae5ab	Sphallomorpha atrata	Baehr, 1993	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/e65f2473-2313-47fd-bf6a-3fc2c6af2ff8	Fletchamia dakini	(Dendy, 1915)	species	Animalia	Platyhelminthes	Rhabditophora	Tricladida	Geoplanidae		1
https://biodiversity.org.au/afd/taxa/e6e22707-a7b6-4345-97fe-65f63bd5cbed	Orphnaeus brevilabiatus	(Newport, 1845)	species	Animalia	Arthropoda	Chilopoda	Geophilomorpha	Oryidae		1
https://biodiversity.org.au/afd/taxa/e71a6c2c-66f1-4107-a0a5-954b4a5960ad	Archiargiolestes pusillissimus	Kennedy, 1925	species	Animalia	Arthropoda	Insecta	Odonata	Argiolestidae	Tiny Flatwing	1
https://biodiversity.org.au/afd/taxa/e78b6579-3ba6-4bd2-b4ac-abed07a68520	Hiarchas crassicornis	(Walker, 1867)	species	Animalia	Arthropoda	Insecta	Hemiptera	Acanthosomatidae	Shield Bug	1
https://biodiversity.org.au/afd/taxa/e7ce580f-103f-4735-8565-2940532a3adb	Stigmodera cancellata	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/e9b81d5d-ea0a-45bb-b315-aa2b7c9b457b	Arcuatula senhousia	(Benson, 1842)	species	Animalia	Mollusca	Bivalvia	Mytilida	Mytilidae	Senhouse's Mussel	1
https://biodiversity.org.au/afd/taxa/e9f7a838-8e31-4a7f-abe4-88c81a0e6960	Munjua erugata	Lambkin & Yeates, 2003	species	Animalia	Arthropoda	Insecta	Diptera	Bombyliidae	Bee Fly	1
https://biodiversity.org.au/afd/taxa/ea820d3f-75c7-4961-bc91-6326d8c16412	Steatoda capensis	Hann, 1990	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae	Tangle-web Spider	1
https://biodiversity.org.au/afd/taxa/ea859860-0730-4425-be76-3402dcfd0d42	Nothancyla verreauxi	NavÃ¡s, 1910	species	Animalia	Arthropoda	Insecta	Neuroptera	Chrysopidae		1
https://biodiversity.org.au/afd/taxa/eac42e58-fc47-49f8-a387-6789533f0f38	Austracris guttulosa	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Spur-throated Locust	1
https://biodiversity.org.au/afd/taxa/eb5326fb-37ea-4938-8400-f5a018945050	Goniaea opomaloides	(Walker, 1870)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Mimetic Gumleaf Grasshopper	1
https://biodiversity.org.au/afd/taxa/eb6dc006-5e99-4c4f-8ea7-05c305cff0fb	Phyllococerus purpurascens	Waterhouse, 1876	species	Animalia	Arthropoda	Insecta	Coleoptera	Scarabaeidae		1
https://biodiversity.org.au/afd/taxa/eb7e9119-1679-4ea8-8acc-d659522fa81a	Castiarina jospilota	(Gory & Laporte, 1838)	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/eb9a653c-8a4d-4a3a-9a4b-b8b984039fc8	Camponotus michaelseni	Forel, 1907	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/ec28f891-3f70-4eef-84f1-92385d6bbc21	Palimbolus dimidiatus	(Raffray, 1900)	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/ec53da8b-a2ed-43d4-840c-1d2acd756b79	Platax teira	(ForsskÃ¥l, 1775)	species	Animalia	Chordata	Actinopterygii	Perciformes	Ephippidae	Roundface Batfish	1
https://biodiversity.org.au/afd/taxa/ec66d36e-fa36-4cec-96a7-6a87cd3f789b	Paralampona marangaroo	Platnick, 2000	species	Animalia	Arthropoda	Arachnida	Araneae	Lamponidae		1
https://biodiversity.org.au/afd/taxa/ecf6c8bb-115b-4a36-83e1-5e7ec2b62bc6	Sternopriscus multimaculatus	(Clark, 1862)	species	Animalia	Arthropoda	Insecta	Coleoptera	Dytiscidae	Diving Beetle	1
https://biodiversity.org.au/afd/taxa/ed2bf6d9-6ad2-422e-a967-393f88f14b7b	Piestolestes obscurus	(Bergroth, 1895)	species	Animalia	Arthropoda	Insecta	Hemiptera	Reduviidae	Assassin Bug	1
https://biodiversity.org.au/afd/taxa/ee17ae8f-1bf8-4391-a2aa-eb0f07fb14b8	Lasioglossum (Chilalictus) impunctatum	Walker, 1999	species	Animalia	Arthropoda	Insecta	Hymenoptera	Halictidae		1
https://biodiversity.org.au/afd/taxa/ee6ad06a-09a2-45a6-8495-44bece443bf3	Ditropidus concolor	(Saunders, 1847)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/eedd1767-9b38-4f83-80ba-a8cbe6867550	Parapalaeosepsis plebeia	(De Meijere, 1906)	species	Animalia	Arthropoda	Insecta	Diptera	Sepsidae	Black Scavenger Fly	1
https://biodiversity.org.au/afd/taxa/ef5385c9-c99a-460d-a444-6374d5d3da87	Cyclochila australasiae	(Donovan, 1805)	species	Animalia	Arthropoda	Insecta	Hemiptera	Cicadidae	Masked Devil	1
https://biodiversity.org.au/afd/taxa/ef76c565-1786-4184-9008-e078877d73fc	Papilio (Princeps) aegeus	Donovan, 1805	species	Animalia	Arthropoda	Insecta	Lepidoptera	Papilionidae	Large Citrus Butterfly	1
https://biodiversity.org.au/afd/taxa/efb997b4-e221-471a-a6d4-fe9ce705e416	Metaballus mucronatus	Rentz, 1985	species	Animalia	Arthropoda	Insecta	Orthoptera	Tettigoniidae		1
https://biodiversity.org.au/afd/taxa/f02c65c2-a5e4-49dd-81dd-5bf8f3e0d989	Myrmeleon pictifrons	Gerstaecker, 1885	species	Animalia	Arthropoda	Insecta	Neuroptera	Myrmeleontidae		1
https://biodiversity.org.au/afd/taxa/f039ed67-d073-496c-94d4-64f70c9fd8bc	Ectosticta ruida	(Pascoe, 1866)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/f0532d93-67da-4415-b8f0-f83524594ab0	Barycistela robusta	Blackburn, 1891	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/f05c6c7f-40ac-441c-80ad-09e379af1d29	Phanacis hypochoeridis	(Kieffer, 1887)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Cynipidae		1
https://biodiversity.org.au/afd/taxa/f0b0926b-d0e7-4f51-b360-7813c27c9ecb	Austrolestes aleison	Watson & Moulds, 1979	species	Animalia	Arthropoda	Insecta	Odonata	Lestidae	Western Ringtail	1
https://biodiversity.org.au/afd/taxa/f129ea27-e47c-44f2-8525-92885ae2e13a	Sphallomorpha castelnaui	(Reiche, 1868)	species	Animalia	Arthropoda	Insecta	Coleoptera	Carabidae		1
https://biodiversity.org.au/afd/taxa/f1674c14-f1e6-45c3-997b-ac1fd78979c2	Olanaea nigricollis	Pascoe, 1873	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/f1e479e6-780a-417d-a223-e2213c9dbc67	Tenodera australasiae	(Leach, 1814)	species	Animalia	Arthropoda	Insecta	Mantodea	Mantidae	Purplewinged Mantid	1
https://biodiversity.org.au/afd/taxa/f204d057-cbea-4981-8cb1-19272e1a0f6e	Hesperocordulia berthoudi	Tillyard, 1911	species	Animalia	Arthropoda	Insecta	Odonata	incertae sedis	Orange Streamcruiser	1
https://biodiversity.org.au/afd/taxa/f2069f0b-639e-4eb9-82d1-a4d73ce9ddca	Aphanasium flexilis	(Pascoe, 1871)	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/f24cd37c-5c49-4c4b-90c2-ebbbfd5a2099	Neorhaphiomidas villosa	Paramonov, 1953	species	Animalia	Arthropoda	Insecta	Diptera	Mydidae		1
https://biodiversity.org.au/afd/taxa/f2694353-defe-4efe-935f-e0412b390127	Ribautia repanda	(Attems, 1911)	species	Animalia	Arthropoda	Chilopoda	Geophilomorpha	Chilenophilidae		1
https://biodiversity.org.au/afd/taxa/f3347f75-029f-4c8f-8309-facfbb48d0a4	Peakesia brunnea	(White, 1841)	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae		1
https://biodiversity.org.au/afd/taxa/f3812aba-d557-457c-bb0b-474bc28ff860	Steatoda nasata	(Chrysanthus, 1975)	species	Animalia	Arthropoda	Arachnida	Araneae	Theridiidae		1
https://biodiversity.org.au/afd/taxa/f3b1ae5d-a616-4c45-b93f-2d1d906cd80b	Sidnia kinbergi	(StÃ¥l, 1859)	species	Animalia	Arthropoda	Insecta	Hemiptera	Miridae	Crop Mirid	1
https://biodiversity.org.au/afd/taxa/f3ff97fe-e194-4240-be77-2e738496ea9b	Homadaula poliodes	Meyrick, 1907	species	Animalia	Arthropoda	Insecta	Lepidoptera	Galacticidae		1
https://biodiversity.org.au/afd/taxa/f41187fe-ab93-4181-a871-41861308c96c	Mocis alterna	(Walker, 1858)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Erebidae	Bean Looper Moth	1
https://biodiversity.org.au/afd/taxa/f485a3fc-16eb-4966-a763-627c1ac55dc9	Zillimata scintillans	(O.P.-Cambridge, 1869)	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae	Ant Spider	1
https://biodiversity.org.au/afd/taxa/f4c8a24b-b057-4d11-b91f-163b59db95a3	Saprinus (Saprinus) cyaneus	(Fabricius, 1775)	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae	Round Green Hister	1
https://biodiversity.org.au/afd/taxa/f5513cb3-95dd-418a-af07-d80722f77ebb	Chrysomya megacephala	(Fabricius, 1794)	species	Animalia	Arthropoda	Insecta	Diptera	Calliphoridae		1
https://biodiversity.org.au/afd/taxa/f582a6af-08e0-4b68-9ca2-9b1b48142efa	Neatypus obliquus	Waite, 1905	species	Animalia	Chordata	Actinopterygii	Perciformes	Microcanthidae	Footballer Sweep	1
https://biodiversity.org.au/afd/taxa/f5b51752-cdba-404f-9b85-79de32a147d7	Peliocis subcylindricus	Lea, 1930	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/f6200723-9c85-4add-8198-69518c5165dd	Holasteron wamuseum	Baehr, 2004	species	Animalia	Arthropoda	Arachnida	Araneae	Zodariidae		1
https://biodiversity.org.au/afd/taxa/f626dc20-da64-4454-923b-7b15f09aed50	Tepperocoris lofteyensis	Gross, 1975	species	Animalia	Arthropoda	Insecta	Hemiptera	Pentatomidae		1
https://biodiversity.org.au/afd/taxa/f629d14e-76d0-4f66-9ba5-fddf7e167747	Ctenisophus patruelis	Raffray, 1900	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/f6600104-28cc-4a15-9218-8116346750a4	Scoloplos simplex	(Hutchings, 1974)	species	Animalia	Annelida	Polychaeta		Orbiniidae		1
https://biodiversity.org.au/afd/taxa/f70036e1-233f-48d8-b7c5-d235bf37eeb7	Vallonia excentrica	Sterki, 1893	species	Animalia	Mollusca	Gastropoda	Stylommatophora	Valloniidae	Eccentric Grass Snail	1
https://biodiversity.org.au/afd/taxa/f78f43e7-4635-49de-8a4f-805d89315c7b	Schizobothrus flavovittatus	SjÃ¶stedt, 1921	species	Animalia	Arthropoda	Insecta	Orthoptera	Acrididae	Disappearing Grasshopper	1
https://biodiversity.org.au/afd/taxa/f7cf1816-1c37-4749-b135-f0ec8f667363	Paederus apteromelas	Lea, 1923	species	Animalia	Arthropoda	Insecta	Coleoptera	Staphylinidae		1
https://biodiversity.org.au/afd/taxa/f7df3501-d354-46d3-80b9-90ebce05bc40	Chlamydopsis macmillani	Caterino, 2003	species	Animalia	Arthropoda	Insecta	Coleoptera	Histeridae		1
https://biodiversity.org.au/afd/taxa/f8417845-df57-40de-8b26-e51c7d1ada33	Croitana croites	(Hewitson, 1874)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Hesperiidae	Croites Skipper	1
https://biodiversity.org.au/afd/taxa/f8c082bc-76ac-4540-9839-184ada49b935	Bembix furcata	Erichson, 1842	species	Animalia	Arthropoda	Insecta	Hymenoptera	Crabronidae	Wasp	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://biodiversity.org.au/afd/taxa/f93906ac-e36c-4cb8-b35a-ff31d178f6b0	Ectenopsis (Parasilvius) fusca	Mackerras, 1956	species	Animalia	Arthropoda	Insecta	Diptera	Tabanidae		1
https://biodiversity.org.au/afd/taxa/f9423ba3-0c6a-4c69-b5b8-6bb8d5d1f441	Remaudiereana inornata	(Walker, 1872)	species	Animalia	Arthropoda	Insecta	Hemiptera	Rhyparochromidae	Seed Bug	1
https://biodiversity.org.au/afd/taxa/f9605a41-8fb7-405f-81de-501891476752	Ancita didyma	Blackburn, 1901	species	Animalia	Arthropoda	Insecta	Coleoptera	Cerambycidae		1
https://biodiversity.org.au/afd/taxa/f97e993b-b70b-45c4-8d79-b34cc6324d38	Chelodina (Chelodina) steindachneri	Siebenrock, 1914	species	Animalia	Chordata	Reptilia	Testudines	Chelidae	Steindachner's Turtle	1
https://biodiversity.org.au/afd/taxa/f99d2ad9-23dc-4c67-893e-254fc9c614a6	Megaptera novaeangliae	(Borowski, 1781)	species	Animalia	Chordata	Mammalia	Cetacea	Balaenopteridae	Humpback Whale	1
https://biodiversity.org.au/afd/taxa/fa2eeec6-4fef-41ec-a5c6-4195af85ff46	Palaeotoma styphelana	Meyrick, 1881	species	Animalia	Arthropoda	Insecta	Lepidoptera	Tortricidae		1
https://biodiversity.org.au/afd/taxa/facc80f3-2301-4192-9e68-55c5a2a80808	Amniataba percoides	(GÃ¼nther, 1864)	species	Animalia	Chordata	Actinopterygii	Perciformes	Terapontidae	Barred Grunter	1
https://biodiversity.org.au/afd/taxa/fae23680-ce18-4c5e-be2c-e0b709f12c38	Peltoschema hamadryas	(StÃ¥l, 1860)	species	Animalia	Arthropoda	Insecta	Coleoptera	Chrysomelidae		1
https://biodiversity.org.au/afd/taxa/fb32df3e-7121-4ae4-a20d-09e0c1537a73	Penthaleus major	(DugÃ¨s, 1834)	species	Animalia	Arthropoda	Arachnida	Trombidiformes	Penthaleidae		1
https://biodiversity.org.au/afd/taxa/fc577fe2-6ce8-4319-ac9c-51e93b77ca74	Austrocroce mira	(McKeown, 1939)	species	Animalia	Arthropoda	Insecta	Neuroptera	Nemopteridae		1
https://biodiversity.org.au/afd/taxa/fd4d5461-f517-4f1a-8ef4-2baf09f9cf7c	Megachile preissi	Cockerell, 1910	species	Animalia	Arthropoda	Insecta	Hymenoptera	Megachilidae		1
https://biodiversity.org.au/afd/taxa/fde4d262-82ac-4f18-826e-5e45e6c4e11f	Apina callisto	(Angas, 1847)	species	Animalia	Arthropoda	Insecta	Lepidoptera	Noctuidae	Owlet Moth	1
https://biodiversity.org.au/afd/taxa/fe4206db-4519-4106-a6ed-5065b1910268	Cubicorhynchus crenicollis	(Waterhouse, 1854)	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/feb31a54-da39-4680-9481-461247aec853	Gerres oyena	(ForsskÃ¥l, 1775)	species	Animalia	Chordata	Actinopterygii	Perciformes	Gerreidae	Blacktip Silverbiddy	1
https://biodiversity.org.au/afd/taxa/fec05b63-c6cf-4ed4-9165-2a7c4f895a90	Chrysobothris viridis	Macleay, 1872	species	Animalia	Arthropoda	Insecta	Coleoptera	Buprestidae		1
https://biodiversity.org.au/afd/taxa/fed4e494-5edb-4453-b65b-e8731e381de1	Lioponera reticulata	(Clark, 1926)	species	Animalia	Arthropoda	Insecta	Hymenoptera	Formicidae		1
https://biodiversity.org.au/afd/taxa/fefb1266-f01c-4770-a4e7-9b2b5e726694	Essolithna rhombus	Pascoe, 1870	species	Animalia	Arthropoda	Insecta	Coleoptera	Curculionidae		1
https://biodiversity.org.au/afd/taxa/ff1ea01a-0cf2-4acf-935c-d322ecd6c4b9	Physalia utriculus	(La MartiniÃ©rÃ©, 1787)	species	Animalia	Cnidaria	Hydrozoa	Siphonophorae	Physaliidae		1
https://biodiversity.org.au/afd/taxa/ff85564b-410b-4259-8304-1afbe2ee8add	Euclarkia costata	Lea, 1919	species	Animalia	Arthropoda	Insecta	Coleoptera	Tenebrionidae		1
https://biodiversity.org.au/afd/taxa/ffa18bff-1f3d-492f-93fa-744995309c58	Hestiochora occidentalis	Tarmann, 2005	species	Animalia	Arthropoda	Insecta	Lepidoptera	Zygaenidae		1
https://id.biodiversity.org.au/name/apni/116669	Lolium perenne x Lolium rigidum		species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Hybrid Ryegrass	1
https://id.biodiversity.org.au/name/apni/161109	Hypericum monogynum	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Hypericaceae	Gold Flower	1
https://id.biodiversity.org.au/name/apni/165877	Salix matsudana	Koidz.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Salicaceae	Peking Willow	1
https://id.biodiversity.org.au/name/apni/51305207	Scholtzia uniovulata	Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Common Scholtzia	1
https://id.biodiversity.org.au/name/apni/51306772	Pentameris patula	(Nees) Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/name/apni/51346968	Pterostylis brevisepala	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Short-eared Snail Orchid	1
https://id.biodiversity.org.au/name/apni/51346971	Pterostylis crispula	(D.L.Jones & C.J.French) D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Snail Orchid	1
https://id.biodiversity.org.au/name/apni/51732102	Drosera hortiorum	T.Krueger & G.Bourke	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Sundews	1
https://id.biodiversity.org.au/name/apni/8946653	Thysanotus sp. Coastal plain (N.H.Brittan 66/63)		species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2886122	Clematis glycinoides	DC.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Forest Headache Vine	1
https://id.biodiversity.org.au/node/apni/2886276	Fimbristylis velata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Veiled Fringe-rush	1
https://id.biodiversity.org.au/node/apni/2886347	Thysanotus formosus	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2886479	Tetratheca affinis	Endl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		1
https://id.biodiversity.org.au/node/apni/2886719	Fallopia convolvulus	(L.) Ã¤Ã¶ve	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Black Bindweed	1
https://id.biodiversity.org.au/node/apni/2886796	Ludwigia repens	J.R.Forst.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Creeping Primrose-willow.	1
https://id.biodiversity.org.au/node/apni/2886806	Goodenia pinnatifida	Schltdl.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Cut-leaf Goodenia	1
https://id.biodiversity.org.au/node/apni/2886811	Banksia squarrosa	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2886876	Epilobium tetragonum	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Square-stalked Willowherb	1
https://id.biodiversity.org.au/node/apni/2886901	Thysanotus glaucus	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2886946	Boronia purdieana	Diels	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Winter Boronia	1
https://id.biodiversity.org.au/node/apni/2887080	Panicum hillmanii	Chase	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Witch-grass	1
https://id.biodiversity.org.au/node/apni/2887114	Hakea marginata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2887177	Bossiaea oxyclada	Turcz.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2887234	Raphanus sativus	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Radish	1
https://id.biodiversity.org.au/node/apni/2887310	Symphytum x uplandicum	Nyman	species	Plantae	Charophyta	Equisetopsida		Boraginaceae	Russian Comfrey	1
https://id.biodiversity.org.au/node/apni/2887387	Tanacetum parthenium	(L.) Sch.Bip.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Feverfew	1
https://id.biodiversity.org.au/node/apni/2887551	Pistia stratiotes	L.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Water Lettuce	1
https://id.biodiversity.org.au/node/apni/2887552	Bromus alopecuros	Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Mediterranean Brome	1
https://id.biodiversity.org.au/node/apni/2887590	Trifolium suffocatum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Suffocated Clover	1
https://id.biodiversity.org.au/node/apni/2887709	Podalyria sericea	(Andrews) R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cape Satin Bush	1
https://id.biodiversity.org.au/node/apni/2887844	Leucopogon hirsutus	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Hairy Beard-heath	1
https://id.biodiversity.org.au/node/apni/2887881	Trifolium glomeratum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Cluster Clover	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2887981	Boronia adamsiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Barbalin Boronia	1
https://id.biodiversity.org.au/node/apni/2888016	Cenchrus echinatus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Mossman River Grass	1
https://id.biodiversity.org.au/node/apni/2888058	Bossiaea linophylla	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Narrow-leaved Bossiaea	1
https://id.biodiversity.org.au/node/apni/2888191	Hakea longiflora	(Benth.) R.M.Barker	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2888212	Oenothera mollissima	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae		1
https://id.biodiversity.org.au/node/apni/2888230	Rhadinothamnus anceps	(DC.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Blister Bush	1
https://id.biodiversity.org.au/node/apni/2888317	Youngia japonica	(L.) DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2888366	Conospermum densiflorum	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2888507	Plantago coronopus	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Bucks-horn Plantain	1
https://id.biodiversity.org.au/node/apni/2888567	Stylidium squamellosum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Maize Triggerplant	1
https://id.biodiversity.org.au/node/apni/2888610	Glycine canescens	F.J.Herm.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Silky Glycine	1
https://id.biodiversity.org.au/node/apni/2888629	Goodenia scapigera	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	White Goodenia	1
https://id.biodiversity.org.au/node/apni/2888724	Parietaria debilis	G.Forst.	species	Plantae	Charophyta	Equisetopsida	Rosales	Urticaceae	Shade Pellitory	1
https://id.biodiversity.org.au/node/apni/2888749	Schoenus pleiostemoneus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2888777	Chenopodium macrospermum	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Red-stem Goosefoot	1
https://id.biodiversity.org.au/node/apni/2888791	Anthosachne scabra	(R.Br.) Nevski	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wheatgrass	1
https://id.biodiversity.org.au/node/apni/2888817	Grevillea dryandroides	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Phalanx Grevillea	1
https://id.biodiversity.org.au/node/apni/2888833	Caesia parviflora	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Pale Grass-lily	1
https://id.biodiversity.org.au/node/apni/2888835	Leucopogon striatus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/node/apni/2888916	Daviesia trigonophylla	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2888969	Spergularia nesophila	L.G.Adams	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae		1
https://id.biodiversity.org.au/node/apni/2889003	Bossiaea atrata	J.H.Ross	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2889062	Scaevola lanceolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Long-leaved Scaevola	1
https://id.biodiversity.org.au/node/apni/2889096	Convolvulus sabatius	Viv.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae		1
https://id.biodiversity.org.au/node/apni/2889153	Ptilotus humilis	(Nees) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		1
https://id.biodiversity.org.au/node/apni/2889171	Juncus amabilis	Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Hollow Rush	1
https://id.biodiversity.org.au/node/apni/2889334	Kennedia nigricans	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Black Coral-pea	1
https://id.biodiversity.org.au/node/apni/2889348	Jacksonia calcicola	Chappill	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2889364	Ammi majus	L.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Bishop's Weed	1
https://id.biodiversity.org.au/node/apni/2889534	Petrophile longifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2889583	Chorizema reticulatum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Showy Flame Pea	1
https://id.biodiversity.org.au/node/apni/2889728	Ipomoea aquatica	Forssk.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Kang Kong	1
https://id.biodiversity.org.au/node/apni/2889912	Lachnostachys verbascifolia	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Lambstail	1
https://id.biodiversity.org.au/node/apni/2890078	Leucochrysum fitzgibbonii	(F.Muell.) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Fitzgibbons Daisy	1
https://id.biodiversity.org.au/node/apni/2890088	Acacia mutabilis	Maslin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2890261	Acacia drewiana	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2890288	Cupaniopsis anacardioides	(A.Rich.) Radlk.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae	Tuckeroo	1
https://id.biodiversity.org.au/node/apni/2890326	Wahlenbergia multicaulis	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tadgell's Bluebell	1
https://id.biodiversity.org.au/node/apni/2890394	Templetonia sulcata	(Meisn.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Flat Mallee Pea	1
https://id.biodiversity.org.au/node/apni/2890460	Hakea francisiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Bottlebrush Hakea	1
https://id.biodiversity.org.au/node/apni/2890555	Humulus lupulus	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Cannabaceae	Hop	1
https://id.biodiversity.org.au/node/apni/2890850	Ixia paniculata	D.Delaroche	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Long-tube Ixia	1
https://id.biodiversity.org.au/node/apni/2890948	Seorsus intratropicus	(F.Muell.) Rye & Trudgen	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Seorsus	1
https://id.biodiversity.org.au/node/apni/2890952	Quisqualis indica	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Combretaceae	Rangoon Creeper	1
https://id.biodiversity.org.au/node/apni/2890994	Wigandia urens	(Ruiz & Pav.) Kunth	species	Plantae	Charophyta	Equisetopsida		Boraginaceae		1
https://id.biodiversity.org.au/node/apni/2891463	Brassica fruticulosa	Cirillo	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Twiggy Turnip	1
https://id.biodiversity.org.au/node/apni/2891467	Erodium moschatum	(L.) L'HÃ©r.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Musky Herons-bill	1
https://id.biodiversity.org.au/node/apni/2891536	Drosera humilis	Planch.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/node/apni/2891583	Pisum sativum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Garden Pea	1
https://id.biodiversity.org.au/node/apni/2891660	Melaleuca acutifolia	(Benth.) Craven & Lepschi	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2891662	Drosera x sidjamesii	Lowrie & Conran	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/node/apni/2891897	Anigozanthos pulcherrimus	Hook.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Yellow Kangaroo Paw	1
https://id.biodiversity.org.au/node/apni/2891958	Gompholobium viscidulum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2891969	Solanum giganteum	Jacq.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae		1
https://id.biodiversity.org.au/node/apni/2892085	Eremophila fraseri	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Burra	1
https://id.biodiversity.org.au/node/apni/2892102	Persoonia longifolia	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Snottygobble	1
https://id.biodiversity.org.au/node/apni/2892240	Alyogyne pinoniana	(Gaudich.) Fryxell	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Sand Hibiscus	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2892249	Trifolium hybridum	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Alsike Clover	1
https://id.biodiversity.org.au/node/apni/2892468	Gamochaeta pensylvanica	(Willd.) Cabrera	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cudweed	1
https://id.biodiversity.org.au/node/apni/2892490	Parkinsonia aculeata	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Jerusalem Thorn	1
https://id.biodiversity.org.au/node/apni/2892585	Eustachys distichophylla	(Lag.) Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Evergreen Chloris	1
https://id.biodiversity.org.au/node/apni/2892713	Stylidium perpusillum	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Tiny Trigger-plant	1
https://id.biodiversity.org.au/node/apni/2892734	Caesia calliantha	R.J.F.Hend.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Blue Grass-lily	1
https://id.biodiversity.org.au/node/apni/2892858	Lolium perenne	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Perennial Rye-grass	1
https://id.biodiversity.org.au/node/apni/2893021	Bossiaea rufa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2893162	Cardamine hirsuta	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Common Bitter-cress	1
https://id.biodiversity.org.au/node/apni/2893281	Guichenotia ledifolia	J.Gay	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2893552	Stylobasium australe	(Hook.) Prance	species	Plantae	Charophyta	Equisetopsida	Fabales	Surianaceae		1
https://id.biodiversity.org.au/node/apni/2893612	Dolichandra unguis-cati	(L.) L.G.Lohmann	species	Plantae	Charophyta	Equisetopsida	Lamiales	Bignoniaceae	Cat's Claw Creeper	1
https://id.biodiversity.org.au/node/apni/2893638	Thomasia brachystachys	Turcz.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2893729	Indigofera colutea	(Burm.f.) Merr.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sticky Indigo	1
https://id.biodiversity.org.au/node/apni/2893800	Epacris longiflora	Cav.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Fuchsia Heath	1
https://id.biodiversity.org.au/node/apni/2893851	Schoenia cassiniana	(Gaudich.) Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Pink Everlasting	1
https://id.biodiversity.org.au/node/apni/2893955	Lachnagrostis drummondiana	(Steud.) S.W.L.Jacobs	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2893977	Scaevola crassifolia	Labill.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Cushion Fanflower	1
https://id.biodiversity.org.au/node/apni/2894087	Schoenus submicrostachyus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2894128	Thysanotus brachiatus	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2894159	Rostraria cristata	(L.) Tzvelev	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Cats-tail	1
https://id.biodiversity.org.au/node/apni/2894228	Petrophile heterophylla	Lindl.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2894235	Dampiera wellsiana	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Wells' Dampiera	1
https://id.biodiversity.org.au/node/apni/2894296	Tagetes minuta	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Stinking Roger	1
https://id.biodiversity.org.au/node/apni/2894403	Hardenbergia violacea	(Schneev.) Stearn	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Native Lilac	1
https://id.biodiversity.org.au/node/apni/2894540	Thysanotus gracilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2894625	Retama raetam	(Forssk.) Webb & Berthel.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	White Weeping Broom	1
https://id.biodiversity.org.au/node/apni/2894680	Carex inversa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Dwarf Sedge	1
https://id.biodiversity.org.au/node/apni/2894765	Hakea scoparia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2894969	Phalaris minor	Retz.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lesser Canary-grass	1
https://id.biodiversity.org.au/node/apni/2894992	Tetratheca pilifera	Lindl.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Elaeocarpaceae		1
https://id.biodiversity.org.au/node/apni/2894994	Lantana montevidensis	(Spreng.) Briq.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Creeping Lantana	1
https://id.biodiversity.org.au/node/apni/2895180	Chloris gayana	Kunth	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Rhodes Grass	1
https://id.biodiversity.org.au/node/apni/2895205	Lomandra longifolia	Labill.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Spiny-headed Mat-rush	1
https://id.biodiversity.org.au/node/apni/2895557	Frankenia punctata	Turcz.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Frankeniaceae	Frankenia	1
https://id.biodiversity.org.au/node/apni/2895645	Actinotus helianthi	Labill.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Flannel Flower	1
https://id.biodiversity.org.au/node/apni/2896123	Medicago sativa	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Lucerne	1
https://id.biodiversity.org.au/node/apni/2896173	Holcus setiger	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Fog	1
https://id.biodiversity.org.au/node/apni/2896294	Wahlenbergia stricta	(R.Br.) Sweet	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Tall Bluebell	1
https://id.biodiversity.org.au/node/apni/2896375	Centranthus ruber	(L.) DC.	species	Plantae	Charophyta	Equisetopsida	Dipsacales	Caprifoliaceae	Red Valerian	1
https://id.biodiversity.org.au/node/apni/2896477	Stylidium asteroideum	F.L.Erickson & J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Star Triggerplant	1
https://id.biodiversity.org.au/node/apni/2896543	Mentha pulegium	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Pennyroyal	1
https://id.biodiversity.org.au/node/apni/2896581	Grevillea tetragonoloba	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2896623	Oenothera glazioviana	Micheli	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Reddish Evening-primrose	1
https://id.biodiversity.org.au/node/apni/2896648	Acacia ataxiphylla	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2896763	Alopecurus myosuroides	Huds.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Fox-tail	1
https://id.biodiversity.org.au/node/apni/2896777	Rosa canina	L.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Dog Rose	1
https://id.biodiversity.org.au/node/apni/2896871	Lagerstroemia indica	L.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Lythraceae	Crepe Myrtle	1
https://id.biodiversity.org.au/node/apni/2897063	Acacia divergens	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2897110	Schoenus pedicellatus	(R.Br.) Poir.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2897117	Glossostigma drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Phrymaceae	Desert Mud-mat	1
https://id.biodiversity.org.au/node/apni/2897237	Spartochloa scirpoidea	(Steud.) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2897263	Stylidium falcatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Slender Beaked Triggerplant	1
https://id.biodiversity.org.au/node/apni/2897472	Melilotus albus	Medik.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Bokhara Clover	1
https://id.biodiversity.org.au/node/apni/2897551	Allium porrum	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Alliaceae	Leek	1
https://id.biodiversity.org.au/node/apni/2897570	Silene vulgaris	(Moench) Garcke	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Bladder Campion	1
https://id.biodiversity.org.au/node/apni/2897822	Tragopogon porrifolius	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Salsify	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2897829	Verbena bonariensis	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Purple-top Verbena	1
https://id.biodiversity.org.au/node/apni/2897943	Vicia hirsuta	(L.) Gray	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hairy Vetch	1
https://id.biodiversity.org.au/node/apni/2898027	Drosera x badgerupii	Cheek	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/node/apni/2898321	Dipogon lignosus	(L.) Verdc.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Common Dolichos Pea	1
https://id.biodiversity.org.au/node/apni/2898395	Rytidosperma penicillatum	(Labill.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Slender Wallaby Grass	1
https://id.biodiversity.org.au/node/apni/2898553	Astroloma glaucescens	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/node/apni/2898563	Petrophile serruriae	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2898628	Bromus catharticus	Vahl	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Prairie Grass	1
https://id.biodiversity.org.au/node/apni/2898676	Exocarpos sparteus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae	Broombush	1
https://id.biodiversity.org.au/node/apni/2898838	Eragrostis australasica	(Steud.) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Lovegrass	1
https://id.biodiversity.org.au/node/apni/2898885	Pimelea calcicola	Rye	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae	Coastal Banjine	1
https://id.biodiversity.org.au/node/apni/2899012	Ageratina riparia	(Regel) R.M.King & H.Rob.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Mistflower	1
https://id.biodiversity.org.au/node/apni/2899031	Plantago major	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Greater Plantain	1
https://id.biodiversity.org.au/node/apni/2899125	Cochlospermum fraseri	Planch.	species	Plantae	Charophyta	Equisetopsida	Malvales	Bixaceae	Kapok Bush	1
https://id.biodiversity.org.au/node/apni/2899134	Thryptomene saxicola	(A.Cunn. ex Hook.) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Rock Thryptomene	1
https://id.biodiversity.org.au/node/apni/2899317	Medicago arabica	(L.) Huds.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Spotted Medic	1
https://id.biodiversity.org.au/node/apni/2899432	Wilsonia humilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Silky Wilsonia	1
https://id.biodiversity.org.au/node/apni/2899735	Lambertia rariflora	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Green Honeysuckle	1
https://id.biodiversity.org.au/node/apni/2899845	Cynanchum floribundum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Native Pear	1
https://id.biodiversity.org.au/node/apni/2899873	Austrostipa macalpinei	(Reader) S.W.L.Jacobs & J.Everett	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Annual Spear-grass	1
https://id.biodiversity.org.au/node/apni/2899913	Myriophyllum aquaticum	(Vell.) Verdc.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae	Brazilian Water Milfoil	1
https://id.biodiversity.org.au/node/apni/2899950	Heliotropium europaeum	L.	species	Plantae	Charophyta	Equisetopsida		Boraginaceae	Common Heliotrope	1
https://id.biodiversity.org.au/node/apni/2900051	Dicrastylis globiflora	(Endl.) Rye	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		1
https://id.biodiversity.org.au/node/apni/2900108	Lolium temulentum	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Darnel	1
https://id.biodiversity.org.au/node/apni/2900147	Actinodium cunninghamii	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Swamp Daisy	1
https://id.biodiversity.org.au/node/apni/2900164	Kickxia spuria	(L.) Dumort.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Plantaginaceae	Round-leaved Toadflax	1
https://id.biodiversity.org.au/node/apni/2900200	Hemarthria uncinata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Matgrass	1
https://id.biodiversity.org.au/node/apni/2900424	Oenothera drummondii	Hook.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Beach Evening Primrose	1
https://id.biodiversity.org.au/node/apni/2900496	Taxandria parviceps	(Schauer) J.R.Wheeler & N.G.Marchant	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Myrtle	1
https://id.biodiversity.org.au/node/apni/2900626	Crassula exserta	(Reader) Ostenf.	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Large-fruit Crassula	1
https://id.biodiversity.org.au/node/apni/2900760	Lomandra drummondii	(Benth.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2900939	Pultenaea aspalathoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2900953	Buddleja madagascariensis	Lam.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Summer Lilac	1
https://id.biodiversity.org.au/node/apni/2900995	Egeria densa	Planch.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Dense Waterweed	1
https://id.biodiversity.org.au/node/apni/2901045	Ehrharta pusilla	Nees ex Trin.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2901153	Artemisia absinthium	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Wormwood	1
https://id.biodiversity.org.au/node/apni/2901178	Gastrolobium parviflorum	(Benth. ex Lindl.) Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Box Poison	1
https://id.biodiversity.org.au/node/apni/2901299	Stylidium cilium	Lowrie, A.H.Burb. & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		1
https://id.biodiversity.org.au/node/apni/2901461	Calytrix chrysantha	Craven	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2901550	Lolium multiflorum	Lam.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Italian Ryegrass	1
https://id.biodiversity.org.au/node/apni/2901632	Euphorbia hyssopifolia	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Euphorbia	1
https://id.biodiversity.org.au/node/apni/2901698	Dodonaea inaequifolia	Turcz.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae		1
https://id.biodiversity.org.au/node/apni/2902128	Bossiaea peduncularis	Turcz.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2902145	Cenchrus clandestinus	(Hochst. ex Chiov.) Morrone	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Kikuyu	1
https://id.biodiversity.org.au/node/apni/2902165	Ornithopus compressus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Neat Bird's-foot	1
https://id.biodiversity.org.au/node/apni/2902199	Trifolium micranthum	Viv.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Slender Suckling Clover	1
https://id.biodiversity.org.au/node/apni/2902216	Juncus hybridus	Brot.	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae		1
https://id.biodiversity.org.au/node/apni/2902237	Acacia fimbriata	A.Cunn. ex G.Don	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Fringed Wattle	1
https://id.biodiversity.org.au/node/apni/2902321	Gahnia aristata	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2902330	Geranium molle	L.	species	Plantae	Charophyta	Equisetopsida	Geraniales	Geraniaceae	Soft Geranium	1
https://id.biodiversity.org.au/node/apni/2902335	Billardiera coriacea	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Billardiera	1
https://id.biodiversity.org.au/node/apni/2902376	Lasiopetalum floribundum	Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Free Flowering Lasiopetalum	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2902426	Arthropodium fimbriatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Nodding Chocolate Lily	1
https://id.biodiversity.org.au/node/apni/2902538	Opercularia spermacocea	Labill. ex Juss.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Rubiaceae		1
https://id.biodiversity.org.au/node/apni/2902541	Leucopogon assimilis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/node/apni/2902762	Setaria verticillata	(L.) P.Beauv.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Whorled Pigeon Grass	1
https://id.biodiversity.org.au/node/apni/2902838	Alocasia brisbanensis	(F.M.Bailey) Domin	species	Plantae	Charophyta	Equisetopsida	Alismatales	Araceae	Cunjevoi	1
https://id.biodiversity.org.au/node/apni/2902904	Panicum capillare	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Common Millet	1
https://id.biodiversity.org.au/node/apni/2903034	Thysanotus fastigiatus	Brittan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2903076	Callitris canescens	(Parl.) S.T.Blake	species	Plantae	Charophyta	Equisetopsida	Pinales	Cupressaceae	Cypress Pine	1
https://id.biodiversity.org.au/node/apni/2903098	Eremophila drummondii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Drummond's Eremophila	1
https://id.biodiversity.org.au/node/apni/2903166	Goodenia pusilliflora	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Small-flower Goodenia	1
https://id.biodiversity.org.au/node/apni/2903348	Calytrix leschenaultii	(Schauer) Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Posy Starflower	1
https://id.biodiversity.org.au/node/apni/2903384	Rytidosperma racemosum	(R.Br.) Connor & Edgar	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Wallaby Grass	1
https://id.biodiversity.org.au/node/apni/2903408	Comesperma integerrimum	Endl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae		1
https://id.biodiversity.org.au/node/apni/2903655	Solanum lycopersicum	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Lycopersicon	1
https://id.biodiversity.org.au/node/apni/2903698	Hemiandra rutilans	O.H.Sarg.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Colourful Snakebush	1
https://id.biodiversity.org.au/node/apni/2903796	Eremophila pantonii	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Broombush	1
https://id.biodiversity.org.au/node/apni/2903941	Comesperma rhadinocarpum	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Fabales	Polygalaceae	Slender-fruited Comesperma	1
https://id.biodiversity.org.au/node/apni/2903978	Olearia strigosa	(Steetz) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Bristly Daisy Bush	1
https://id.biodiversity.org.au/node/apni/2904153	Gastrolobium stipulare	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2904187	Gahnia filum	(Labill.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Thatching Grass	1
https://id.biodiversity.org.au/node/apni/2904192	Schoenus asperocarpus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Poison Sedge	1
https://id.biodiversity.org.au/node/apni/2904246	Calotis erinacea	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Tangled Burr-daisy	1
https://id.biodiversity.org.au/node/apni/2904436	Casuarina cunninghamiana	Miq.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	River She-oak	1
https://id.biodiversity.org.au/node/apni/2904704	Solanum triflorum	Nutt.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Three-flower Nightshade	1
https://id.biodiversity.org.au/node/apni/2904712	Scaevola thesioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Gibbous-fruited Scaevola	1
https://id.biodiversity.org.au/node/apni/2904955	Bromus rubens	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Red Brome	1
https://id.biodiversity.org.au/node/apni/2904969	Dampiera diversifolia	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		1
https://id.biodiversity.org.au/node/apni/2905038	Stylidium rigidulum	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Flagon Triggerplant	1
https://id.biodiversity.org.au/node/apni/2905275	Pimelea sylvestris	R.Br.	species	Plantae	Charophyta	Equisetopsida	Malvales	Thymelaeaceae		1
https://id.biodiversity.org.au/node/apni/2905409	Stylidium glabrifolium	Lowrie & Kenneally	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		1
https://id.biodiversity.org.au/node/apni/2905809	Allocasuarina lehmanniana	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Dune Sheoak	1
https://id.biodiversity.org.au/node/apni/2905944	Gastrolobium hamulosum	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Hookpoint Poison	1
https://id.biodiversity.org.au/node/apni/2905946	Gomphocarpus physocarpus	E.Mey.	species	Plantae	Charophyta	Equisetopsida	Gentianales	Apocynaceae	Balloon Cotton-bush	1
https://id.biodiversity.org.au/node/apni/2906005	Datura innoxia	Mill.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Downy Thornapple	1
https://id.biodiversity.org.au/node/apni/2906069	Acacia parramattensis	Tindale	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Parramatta Wattle	1
https://id.biodiversity.org.au/node/apni/2906147	Ceratopetalum gummiferum	Sm.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Cunoniaceae	Christmas Bush	1
https://id.biodiversity.org.au/node/apni/2906224	Opuntia ficus-indica	(L.) Mill.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Indian Fig	1
https://id.biodiversity.org.au/node/apni/2906277	Daviesia pectinata	Lindl.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Thorny Bitter-pea	1
https://id.biodiversity.org.au/node/apni/2906408	Hydrilla verticillata	(L.f.) Royle	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Hydrilla	1
https://id.biodiversity.org.au/node/apni/2906470	Lawrencia squamata	Nees	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Thorny Lawrencia	1
https://id.biodiversity.org.au/node/apni/2906561	Grevillea obtusifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2906599	Lechenaultia longiloba	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Irwin Leschenaultia	1
https://id.biodiversity.org.au/node/apni/2906788	Salvinia x molesta	D.S.Mitch.	species	Plantae	Charophyta	Equisetopsida	Salviniales	Salviniaceae	Salvinia	1
https://id.biodiversity.org.au/node/apni/2906801	Agave vivipara	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2906891	Melaleuca elliptica	Labill.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2906893	Hakea circumalata	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2906915	Waltheria indica	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Waltheria	1
https://id.biodiversity.org.au/node/apni/2906991	Mentha spicata	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Spearmint	1
https://id.biodiversity.org.au/node/apni/2907046	Oenothera lindheimeri	(Engelm. & A.Gray) W.L.Wagner & Hoch	species	Plantae	Charophyta	Equisetopsida	Myrtales	Onagraceae	Clock Weed	1
https://id.biodiversity.org.au/node/apni/2907123	Anarthria humilis	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		1
https://id.biodiversity.org.au/node/apni/2907128	Schoenus loliaceus	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2907279	Melaleuca fulgens	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Paperbark	1
https://id.biodiversity.org.au/node/apni/2907304	Chondrilla juncea	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Skeleton Weed	1
https://id.biodiversity.org.au/node/apni/2907374	Phyla nodiflora	(L.) Greene	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Carpetweed	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2907494	Silene nocturna	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Caryophyllaceae	Mediterranean Catchfly	1
https://id.biodiversity.org.au/node/apni/2907691	Senegalia rugata	(Lam.) Britton & Rose	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Soap Pod	1
https://id.biodiversity.org.au/node/apni/2907787	Potamogeton crispus	L.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Potamogetonaceae	Curly Pondweed	1
https://id.biodiversity.org.au/node/apni/2907888	Tribonanthes violacea	Endl.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Violet Tiurndin	1
https://id.biodiversity.org.au/node/apni/2908199	Alyogyne huegelii	(Endl.) Fryxell	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Lilac Hibiscus	1
https://id.biodiversity.org.au/node/apni/2908282	Triglochin muelleri	Buchenau	species	Plantae	Charophyta	Equisetopsida	Alismatales	Juncaginaceae		1
https://id.biodiversity.org.au/node/apni/2908384	Cheiranthera parviflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae		1
https://id.biodiversity.org.au/node/apni/2908589	Grevillea nana	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2908934	Verticordia chrysantha	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Yellow Featherflower	1
https://id.biodiversity.org.au/node/apni/2908951	Lophostemon confertus	(R.Br.) Peter G.Wilson & J.T.Waterh.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Brush Box	1
https://id.biodiversity.org.au/node/apni/2908954	Trithuria australis	(Diels) D.D.Sokoloff, Remizowa, T.D.Macfarl. & Rudall	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae		1
https://id.biodiversity.org.au/node/apni/2909030	Bossiaea divaricata	Turcz.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2909084	Cucurbita pepo	L.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Field Pumpkin	1
https://id.biodiversity.org.au/node/apni/2909214	Cenchrus spinifex	Cav.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Spiny Burr Grass	1
https://id.biodiversity.org.au/node/apni/2909264	Lepyrodia glauca	(Nees) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/node/apni/2909280	Conospermum flexuosum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Tangled Smokebush	1
https://id.biodiversity.org.au/node/apni/2909287	Gladiolus angustus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Painted Lady	1
https://id.biodiversity.org.au/node/apni/2909310	Watsonia knysnana	L.Bolus	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		1
https://id.biodiversity.org.au/node/apni/2909491	Robinia pseudoacacia	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Black Locust	1
https://id.biodiversity.org.au/node/apni/2909572	Brachyscome pusilla	Steetz	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2909588	Oxalis corniculata	L.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Creeping Wood-sorrel	1
https://id.biodiversity.org.au/node/apni/2909615	Gladiolus carneus	D.Delaroche	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Broad-leaf Painted Lady	1
https://id.biodiversity.org.au/node/apni/2909752	Lepidosperma pruinosum	KÃ¼k.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2909953	Podolepis capillaris	(Steetz) Diels	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Wiry Podolepis	1
https://id.biodiversity.org.au/node/apni/2910043	Guichenotia sarotes	Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2910128	Desmocladus virgatus	(Benth.) B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/node/apni/2910296	Typha domingensis	Pers.	species	Plantae	Charophyta	Equisetopsida	Poales	Typhaceae	Cumbungi	1
https://id.biodiversity.org.au/node/apni/2910332	Gonocarpus benthamii	Orchard	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		1
https://id.biodiversity.org.au/node/apni/2910497	Phalaris aquatica	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Phalaris	1
https://id.biodiversity.org.au/node/apni/2910541	Solanum laciniatum	Aiton	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Cut-leaf Kangaroo-apple	1
https://id.biodiversity.org.au/node/apni/2910676	Senecio elegans	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Purple Groundsel	1
https://id.biodiversity.org.au/node/apni/2910767	Trifolium pratense	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Red Clover	1
https://id.biodiversity.org.au/node/apni/2910800	Echinochloa esculenta	(A.Braun) H.Scholz	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Japanese Millet	1
https://id.biodiversity.org.au/node/apni/2910933	Korthalsella leucothrix	Barlow	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae	Jointed Mistletoe	1
https://id.biodiversity.org.au/node/apni/2910975	Borya subulata	C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Asparagales	Boryaceae		1
https://id.biodiversity.org.au/node/apni/2911021	Eleocharis acuta	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Common Spike-sedge	1
https://id.biodiversity.org.au/node/apni/2911249	Alyogyne hakeifolia	(Giord.) Alef.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Hakea-leaf Hibiscus	1
https://id.biodiversity.org.au/node/apni/2911324	Scaevola paludosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		1
https://id.biodiversity.org.au/node/apni/2911332	Thysanotus asper	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2911444	Hakea leucoptera	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Needle Hakea	1
https://id.biodiversity.org.au/node/apni/2911522	Banksia calophylla	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2911622	Oxalis caprina	Thunb.	species	Plantae	Charophyta	Equisetopsida	Oxalidales	Oxalidaceae	Goat's Foot	1
https://id.biodiversity.org.au/node/apni/2911683	Lobularia maritima	(L.) Desv.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Sweet Alyssum	1
https://id.biodiversity.org.au/node/apni/2911795	Aira elegantissima	Schur	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Delicate Hair-grass	1
https://id.biodiversity.org.au/node/apni/2911837	Casuarina equisetifolia	L.	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Coastal She-oak	1
https://id.biodiversity.org.au/node/apni/2911850	Acacia lasiocalyx	C.R.P.Andrews	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Shaggy Wattle	1
https://id.biodiversity.org.au/node/apni/2911922	Daviesia brachyphylla	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2911988	Acacia lineolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Dwarf Myall	1
https://id.biodiversity.org.au/node/apni/2912030	Bromus madritensis	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Madrid Brome	1
https://id.biodiversity.org.au/node/apni/2912157	Brassica tournefortii	Gouan	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Wild Turnip	1
https://id.biodiversity.org.au/node/apni/2912217	Isopogon linearis	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2912223	Withania somnifera	(L.) Dunal	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Winter Cherry	1
https://id.biodiversity.org.au/node/apni/2912289	Hymenosporum flavum	(Hook.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Native Frangipani	1

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https://id.biodiversity.org.au/node/apni/2912328	Gastrolobium celsianum	(Lem.) G.Chandler & Crisp	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2912339	Stachystemon axillaris	A.S.George	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Picrodendraceae		1
https://id.biodiversity.org.au/node/apni/2912342	Commersonia densiflora	(Turcz.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2912409	Isoetes drummondii	A.Braun	species	Plantae	Charophyta	Equisetopsida	Isoetales	Isoetaceae	Plain Quillwort	1
https://id.biodiversity.org.au/node/apni/2912460	Ligustrum ovalifolium	Hassk.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Oleaceae	Hedge Privet	1
https://id.biodiversity.org.au/node/apni/2912472	Gladiolus alatus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae		1
https://id.biodiversity.org.au/node/apni/2912506	Lepyrodia riparia	B.G.Briggs & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/node/apni/2912580	Amphipogon caricinus	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Grey-beard Grass	1
https://id.biodiversity.org.au/node/apni/2912595	Hypolaena fastigiata	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae	Tassel Rope Rush	1
https://id.biodiversity.org.au/node/apni/2912620	Cynosurus echinatus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Rough Dog's Tail	1
https://id.biodiversity.org.au/node/apni/2912637	Mirbelia trichocalyx	Domin	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2912697	Lavandula dentata	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	French Lavender	1
https://id.biodiversity.org.au/node/apni/2912706	Boronia dichotoma	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae		1
https://id.biodiversity.org.au/node/apni/2912800	Schinus molle	L.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Anacardiaceae	Pepper-tree	1
https://id.biodiversity.org.au/node/apni/2912835	Hibbertia pungens	Benth.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		1
https://id.biodiversity.org.au/node/apni/2912868	Lupinus albus	L.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2912891	Gamochaeta calviceps	(Fernald) Cabrera	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Cudweed	1
https://id.biodiversity.org.au/node/apni/2913137	Trymalium spatulatum	(Labill.) G.Don	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae		1
https://id.biodiversity.org.au/node/apni/2913241	Rhodanthe spicata	(Steetz) Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2913413	Lomandra pauciflora	(R.Br.) Ewart	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2913696	Hakea recurva	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2913741	Aira praecox	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Early Hair-grass	1
https://id.biodiversity.org.au/node/apni/2913788	Wahlenbergia gracilenta	Lothian	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Hairy Annual-bluebell	1
https://id.biodiversity.org.au/node/apni/2913918	Gladiolus watsonius	Thunb.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Red Afrikander	1
https://id.biodiversity.org.au/node/apni/2913992	Liparophyllum violifolium	(F.Muell.) Tippery & Les	species	Plantae	Charophyta	Equisetopsida	Asterales	Menyanthaceae		1
https://id.biodiversity.org.au/node/apni/2914034	Corymbia maculata	(Hook.) K.D.Hill & L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Spotted Gum	1
https://id.biodiversity.org.au/node/apni/2914075	Helichrysum leucopsideum	DC.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Satin Everlasting	1
https://id.biodiversity.org.au/node/apni/2914160	Banksia fraseri	(R.Br.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2914184	Allocasuarina thuyoides	(Miq.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Horned Sheoak	1
https://id.biodiversity.org.au/node/apni/2914198	Dampiera lindleyi	de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae		1
https://id.biodiversity.org.au/node/apni/2914214	Hibbertia serrata	Hotchk.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae	Serrate-leaved Guinea Flower	1
https://id.biodiversity.org.au/node/apni/2914299	Phyllangium divergens	(Hook.f.) Dunlop	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae	Wiry Mitrewort	1
https://id.biodiversity.org.au/node/apni/2914300	Ricinocarpos undulatus	Lehm.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Wedding Bush	1
https://id.biodiversity.org.au/node/apni/2914307	Tecticornia pergranulata	(J.M.Black) K.A.Sheph. & Paul G.Wilson	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Samphire	1
https://id.biodiversity.org.au/node/apni/2914322	Chorizema ilicifolium	Labill.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Holly Flame Pea	1
https://id.biodiversity.org.au/node/apni/2914401	Grevillea teretifolia	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2914441	Aristida contorta	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Bunched Kerosene Grass	1
https://id.biodiversity.org.au/node/apni/2914530	Banksia hewardiana	(Meisn.) A.R.Mast & K.R.Thiele	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2914642	Iris unguicularis	Poir.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Winter Flowers Iris	1
https://id.biodiversity.org.au/node/apni/2914725	Stylidium leptocalyx	Sond.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Slender-calyxed Trigger Plant	1
https://id.biodiversity.org.au/node/apni/2914771	Lysiosepalum involucratum	(Turcz.) Druce	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2914827	Atriplex hypoleuca	Nees	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae		1
https://id.biodiversity.org.au/node/apni/2914832	Lepidosperma effusum	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spreading Sword-sedge	1
https://id.biodiversity.org.au/node/apni/2914851	Scholtzia laxiflora	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2914852	Polypogon tenellus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2914926	Grevillea juncifolia	Hook.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Honeysuckle Spider Flower	1
https://id.biodiversity.org.au/node/apni/2915094	Boronia heterophylla	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Kalgan Boronia	1
https://id.biodiversity.org.au/node/apni/2915173	Poa porphyroclados	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/node/apni/2915205	Melaleuca huegelii	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Chenille Honeymyrtle	1
https://id.biodiversity.org.au/node/apni/2915272	Dactylis glomerata	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Cocksfoot	1
https://id.biodiversity.org.au/node/apni/2915275	Senecio picridioides	(Turcz.) M.E.Lawr.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Purple-leaf Groundsel	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2915369	Chamaescilla gibsonii	Keighery	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2915383	Centrolepis pilosa	Hieron.	species	Plantae	Charophyta	Equisetopsida	Poales	Centrolepidaceae		1
https://id.biodiversity.org.au/node/apni/2915420	Mentha aquatica	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Water Mint	1
https://id.biodiversity.org.au/node/apni/2915499	Angianthus drummondii	(Turcz.) Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/2915548	Mentha suaveolens	Ehrh.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Apple Mint	1
https://id.biodiversity.org.au/node/apni/2915655	Anigozanthos rufus	Labill.	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Red Kangaroo Paw	1
https://id.biodiversity.org.au/node/apni/2915686	Phoenix canariensis	H.Wildpret	species	Plantae	Charophyta	Equisetopsida	Arecales	Arecaceae	Canary Island Palm	1
https://id.biodiversity.org.au/node/apni/2915695	Senecio diaschides	D.G.Drury	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Shingle Fireweed	1
https://id.biodiversity.org.au/node/apni/2915725	Grevillea flexuosa	(Lindl.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Tangled Grevillea	1
https://id.biodiversity.org.au/node/apni/2915741	Stylidium adpressum	Benth.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Trigger-on-stilits	1
https://id.biodiversity.org.au/node/apni/2915842	Leptospermum spinescens	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/node/apni/2915890	Lamium amplexicaule	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Deadnettle	1
https://id.biodiversity.org.au/node/apni/2915935	Crassula extrorsa	Toelken	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae		1
https://id.biodiversity.org.au/node/apni/2915992	Hovea elliptica	(Sm.) DC.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Tree Hovea	1
https://id.biodiversity.org.au/node/apni/2915996	Cyperus gymnocaulos	Steud.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spiny Flat-sedge	1
https://id.biodiversity.org.au/node/apni/2916274	Opuntia tomentosa	Salm-Dyck	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Velvet Pear	1
https://id.biodiversity.org.au/node/apni/2916294	Ecballium elaterium	(L.) A.Rich.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Squirting Cucumber	1
https://id.biodiversity.org.au/node/apni/2916703	Aphanes australiana	(Rothm.) Rothm.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Australian Piert	1
https://id.biodiversity.org.au/node/apni/2916777	Boronia ericifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Wongan Hills Boronia	1
https://id.biodiversity.org.au/node/apni/2916787	Swainsona swainsonioides	(Benth.) A.T.Lee ex J.M.Black	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Downy Swainson-pea	1
https://id.biodiversity.org.au/node/apni/2916790	Dodonaea bursariifolia	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Sapindaceae	Small Hop-bush	1
https://id.biodiversity.org.au/node/apni/2916876	Grevillea sparsiflora	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Sparse-flowered Grevillea	1
https://id.biodiversity.org.au/node/apni/2916889	Auranticarpa rhombifolia	(A.Cunn. ex Hook.) L.W.Cayzer, Crisp & I.Telford	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Diamond-leaf Pittosporum	1
https://id.biodiversity.org.au/node/apni/2916914	Ailanthus altissima	(Mill.) Swingle	species	Plantae	Charophyta	Equisetopsida	Sapindales	Simaroubaceae	Tree Of Heaven	1
https://id.biodiversity.org.au/node/apni/2916961	Ceratophyllum demersum	L.	species	Plantae	Charophyta	Equisetopsida	Ceratophyllales	Ceratophyllaceae	Hornwort	1
https://id.biodiversity.org.au/node/apni/2917118	Grevillea trifida	(R.Br.) Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2917124	Stylidium cygnorum	W.Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae		1
https://id.biodiversity.org.au/node/apni/2917161	Datura stramonium	L.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Common Thorn-apple	1
https://id.biodiversity.org.au/node/apni/2917239	Schizaea fistulosa	Labill.	species	Plantae	Charophyta	Equisetopsida	Schizaeales	Schizaeaceae	Narrow Comb-fern	1
https://id.biodiversity.org.au/node/apni/2917249	Crassula colligata	Toelken	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Crassulaceae	Slender Stonecrop	1
https://id.biodiversity.org.au/node/apni/2917307	Juncus aridicola	L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Poales	Juncaceae	Tussock Rush	1
https://id.biodiversity.org.au/node/apni/2917351	Anarthria laevis	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Anarthriaceae		1
https://id.biodiversity.org.au/node/apni/2917533	Drosera bulbigena	Morrison	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae	Midget Sundew	1
https://id.biodiversity.org.au/node/apni/2917637	Haloragis scoparia	Fenzl	species	Plantae	Charophyta	Equisetopsida	Saxifragales	Haloragaceae		1
https://id.biodiversity.org.au/node/apni/2917642	Hibiscus rosa-sinensis	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Chinese Hibiscus	1
https://id.biodiversity.org.au/node/apni/2917711	Grevillea olivacea	A.S.George	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Olive Grevillea	1
https://id.biodiversity.org.au/node/apni/2917775	Lobelia erinus	L.	species	Plantae	Charophyta	Equisetopsida	Asterales	Campanulaceae	Lobelia	1
https://id.biodiversity.org.au/node/apni/2917802	Lachenalia reflexa	Thunb.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2917816	Grevillea florida	(McGill.) Makinson	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2917940	Adenanthos drummondii	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/2917995	Lagurus ovatus	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Hare's Tail Grass	1
https://id.biodiversity.org.au/node/apni/2918126	Lepidosperma tuberculatum	Nees	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2918159	Asphodelus fistulosus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asphodelaceae	Onion Weed	1
https://id.biodiversity.org.au/node/apni/2918350	Zaluzianskya divaricata	(Thunb.) Walp.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Scrophulariaceae	Spreading Night-phlox	1
https://id.biodiversity.org.au/node/apni/2918512	Schoenus tenellus	Benth.	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2918757	Lasiopetalum membranaceum	(Steud.) Benth.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/node/apni/2918839	Acacia mearnsii	De Wild.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Black Wattle	1
https://id.biodiversity.org.au/node/apni/2918860	Thelionema caespitosum	(R.Br.) R.J.F.Hend.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hemerocallidaceae	Tufted Lily	1
https://id.biodiversity.org.au/node/apni/2919002	Goodenia pusilla	(de Vriese) de Vriese	species	Plantae	Charophyta	Equisetopsida	Asterales	Goodeniaceae	Delicate Goodenia	1
https://id.biodiversity.org.au/node/apni/2919223	Lindsaea linearis	Sw.	species	Plantae	Charophyta	Equisetopsida	Polypodiales	Lindsaeaceae	Screw Fern	1
https://id.biodiversity.org.au/node/apni/2919399	Leptomeria lehmannii	Miq.	species	Plantae	Charophyta	Equisetopsida	Santalales	Santalaceae		1
https://id.biodiversity.org.au/node/apni/2919497	Acacia stereophylla	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2919621	Verticordia roei	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Roe's Featherflower	1
https://id.biodiversity.org.au/node/apni/2919746	Allocasuarina grevilleoides	(Diels) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae		1
https://id.biodiversity.org.au/node/apni/2919823	Fraxinus angustifolia	Vahl	species	Plantae	Charophyta	Equisetopsida	Lamiales	Oleaceae	Desert Ash	1
https://id.biodiversity.org.au/node/apni/2919990	Parapholis incurva	(L.) C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Curly Ryegrass	1
https://id.biodiversity.org.au/node/apni/2920049	Momordica balsamina	L.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Balsam Apple	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/apni/2920452	Ruppia polycarpa	R.Mason	species	Plantae	Charophyta	Equisetopsida	Alismatales	Ruppiaceae	Widgeon Grass	1
https://id.biodiversity.org.au/node/apni/2920473	Chorizema rhombeum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/2920747	Triadica sebifera	(L.) Small	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Euphorbiaceae	Chinese Tallowood	1
https://id.biodiversity.org.au/node/apni/2920789	Opuntia stricta	(Haw.) Haw.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Cactaceae	Spiny Pest Pear	1
https://id.biodiversity.org.au/node/apni/2920909	Acanthocarpus canaliculatus	A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/node/apni/2921056	Schoenus sp. smooth culms (Newbey 7823)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae		1
https://id.biodiversity.org.au/node/apni/2921061	Chorizema aciculare	(DC.) C.A.Gardner	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Needle-leaved Chorizema	1
https://id.biodiversity.org.au/node/apni/2921072	Silybum marianum	(L.) Gaertn.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Variegated Thistle	1
https://id.biodiversity.org.au/node/apni/2921212	Eucalyptus utilis	Brooker & Hopper	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Coastal Moort	1
https://id.biodiversity.org.au/node/apni/2921221	Aristida ramosa	R.Br.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Cane Wire-grass	1
https://id.biodiversity.org.au/node/apni/2921285	Macropidia fuliginosa	(Hook.) Druce	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae	Black Kangaroo Paw	1
https://id.biodiversity.org.au/node/apni/4663508	Vigna lanceolata	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Parsnip Bean	1
https://id.biodiversity.org.au/node/apni/5234975	Eucalyptus botryoides	Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Southern Mahogany	1
https://id.biodiversity.org.au/node/apni/6291414	Conostylis pauciflora	Hopper	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		1
https://id.biodiversity.org.au/node/apni/6881039	Tetragonia tetragonoides	(Pall.) Kuntze	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Aizoaceae	New Zealand Spinach	1
https://id.biodiversity.org.au/node/apni/7003351	Olearia sp. Kennedy Range (G.Byrne 66)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/node/apni/7022449	Trithuria submersa	Hook.f.	species	Plantae	Charophyta	Equisetopsida	Nymphaeales	Hydatellaceae	Trithuria	1
https://id.biodiversity.org.au/node/apni/7415894	Mentha satureioides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae	Native Pennyroyal	1
https://id.biodiversity.org.au/node/apni/7462962	Pauridia vaginata	(Schltdl.) Snijman & Kocyan	species	Plantae	Charophyta	Equisetopsida	Asparagales	Hypoxidaceae	Yellow Star	1
https://id.biodiversity.org.au/node/apni/7587088	Eucalyptus cladocalyx	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Sugar Gum	1
https://id.biodiversity.org.au/node/apni/7698404	Melaleuca linariifolia	Sm.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Snow-in Summer	1
https://id.biodiversity.org.au/node/apni/7774102	Setaria sphacelata	(Schumach.) Stapf & C.E.Hubb.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Setaria	1
https://id.biodiversity.org.au/node/apni/7809303	Potamogeton drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Potamogetonaceae	Western Pondweed	1
https://id.biodiversity.org.au/node/apni/7828725	Persoonia hakeiformis	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/node/apni/7848556	Boronia scabra	Lindl.	species	Plantae	Charophyta	Equisetopsida	Sapindales	Rutaceae	Rough Boronia	1
https://id.biodiversity.org.au/node/apni/7988035	Stylidium inundatum	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Hundreds And Thousands	1
https://id.biodiversity.org.au/node/apni/7988709	Stylidium periscelianthum	F.L.Erickson & J.H.Willis	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Pantaloon Triggerplant	1
https://id.biodiversity.org.au/node/apni/8489762	Spyridium spathulatum	F.Muell. ex Benth.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rhamnaceae	Spoon-leaved Spyridium	1
https://id.biodiversity.org.au/node/apni/8508892	Eutaxia parvifolia	Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/node/apni/9030685	Amaranthus blitum	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae		1
https://id.biodiversity.org.au/node/ausmoss/10055629	Acaulon mediterraneum	Limpr.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Spiny-spored Pygmy-moss	1
https://id.biodiversity.org.au/node/ausmoss/10060194	Bartramia robusta	Hook.f. & Wilson	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae	Common Apple-moss	1
https://id.biodiversity.org.au/node/ausmoss/10061414	Breutelia pendula	(Sm.) Mitt.	species	Plantae	Bryophyta	Bryopsida	Bartramiales	Bartramiaceae	Mountain Breutelia	1
https://id.biodiversity.org.au/node/ausmoss/10071480	Didymodon australasiae	(Hook. & Grev.) R.H.Zander	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Beard Moss	1
https://id.biodiversity.org.au/node/ausmoss/10071573	Didymodon torquatus	(Taylor) Catches.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Beard Moss	1
https://id.biodiversity.org.au/node/ausmoss/10072295	Ditrichum difficile	(Duby) M.Fleisch.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Ditrichaceae	Common Ditrichum	1
https://id.biodiversity.org.au/node/ausmoss/10075285	Entosthodon apophysatus	(Taylor) Mitt.	species	Plantae	Bryophyta	Bryopsida	Funariales	Funariaceae	Cord Moss	1
https://id.biodiversity.org.au/node/ausmoss/10075601	Entosthodon subnudus	(Taylor) Fife	species	Plantae	Bryophyta	Bryopsida	Funariales	Funariaceae	Cord Moss	1
https://id.biodiversity.org.au/node/ausmoss/10085327	Gigaspermum repens	(Hook.) Lindb.	species	Plantae	Bryophyta	Bryopsida	Gigaspermales	Gigaspermaceae	Pineapple Moss	1
https://id.biodiversity.org.au/node/ausmoss/10107363	Ptychostomum creberrimum	(Taylor) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Thread Moss	1
https://id.biodiversity.org.au/node/ausmoss/10110826	Rosulabryum torquescens	(De Not.) J.R.Spence	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Twisting Thread-moss	1
https://id.biodiversity.org.au/node/ausmoss/10113352	Sematophyllum subhumile	(MÃ¼ll.Hal.) M.Fleisch.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Sematophyllaceae		1
https://id.biodiversity.org.au/node/ausmoss/10114784	Syntrichia antarctica	(Hampe) R.H.Zander	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Bristly Screw-moss	1
https://id.biodiversity.org.au/node/ausmoss/10125240	Weissia controversa	Hedw.	species	Plantae	Bryophyta	Bryopsida	Pottiales	Pottiaceae	Green-tufted Stubble-moss	1
https://id.biodiversity.org.au/node/ausmoss/10126455	Zygodon menziesii	(SchwÃ¤gr.) Arn.	species	Plantae	Bryophyta	Bryopsida	Orthotrichales	Orthotrichaceae	Zygodon	1
https://id.biodiversity.org.au/node/ausmoss/10128650	Gemmabryum chrysoneuron	(MÃ¼ll.Hal.) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Bloody Bryum	1
https://id.biodiversity.org.au/node/ausmoss/10128935	Gemmabryum dichotomum	(Hedw.) J.R.Spence & H.P.Ramsay	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Broody Bryum	1
https://id.biodiversity.org.au/node/ausmoss/10130154	Rhaphidorrhynchium amoenum	(Hedw.) M.Fleisch.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Sematophyllaceae	Common Signal-moss	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/ausmoss/2888572	Riccia lamellosa	Raddi	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	White-rim Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2889883	Marchantia berteroana	Lehm. & Lindenb.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Marchantiaceae	Common Marchantia	1
https://id.biodiversity.org.au/node/ausmoss/2891025	Riccia crozalsii	Levier	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Ciliate Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2893254	Riccia subbifurca	Warnst. ex Croz.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2897895	Riccia nigrella	DC.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Black Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2898327	Marchantia polymorpha	L.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Marchantiaceae		1
https://id.biodiversity.org.au/node/ausmoss/2902663	Enigmella thallina	G.A.M.Scott & K.G.Beckm.	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Acrobolbaceae	Scott's Enigma	1
https://id.biodiversity.org.au/node/ausmoss/2904127	Riccia crystallina	L.	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Blue Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2907672	Goebelobryum unguiculatum	(Hook.f. & Taylor) Grolle	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Acrobolbaceae	Mister Whiskers	1
https://id.biodiversity.org.au/node/ausmoss/2912763	Riccia crinita	Taylor	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Fringed Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2916152	Riccia inflexa	Taylor	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae	Dotted Crystalwort	1
https://id.biodiversity.org.au/node/ausmoss/2918048	Gongylanthus scariosus	(Lehm.) Steph.	species	Plantae	Marchantiophyta	Jungermanniopsida	Jungermanniales	Arnelliaceae	Heath Pouchwort	1
https://id.biodiversity.org.au/node/ausmoss/2918452	Riccia cancellata	Taylor	species	Plantae	Marchantiophyta	Marchantiopsida	Marchantiales	Ricciaceae		1
https://id.biodiversity.org.au/node/fungi/60082667	Saccharata proteae	(Wakef.) Denman & Crous	species	Fungi	Ascomycota	Dothideomycetes	Botryosphaeriales	Botryosphaeriaceae		1
https://id.biodiversity.org.au/node/fungi/60091443	Agaricus campestris	L.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Field Mushroom	1
https://id.biodiversity.org.au/node/fungi/60091547	Battarrea phalloides	(Dicks.) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60091551	Battarrea stevenii	(Libosch.) Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60091685	Cyathus olla	(Batsch) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60091691	Cyathus stercoreus	(Schwein.) De Toni	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60092017	Nidula candida	(Peck) V.S.White	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60092115	Tulostoma obesum	Cooke & Ellis	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/node/fungi/60092239	Amanita farinacea	(Sacc.) Cleland & Cheel	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae	Australian Flour Lepidella	1
https://id.biodiversity.org.au/node/fungi/60092241	Amanita fibrillopes	O.K.Mill.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/node/fungi/60092431	Amanita umbrinella	E.-J.Gilbert & Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/node/fungi/60092489	Torrendia arenaria	O.K.Mill. & E.Horak	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/node/fungi/60092575	Setchelliogaster tenuipes	(Setch.) Pouzar	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Bolbitiaceae		1
https://id.biodiversity.org.au/node/fungi/60092755	Cortinarius austrovenetus	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60092835	Cortinarius erythraeus	Berk.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60092997	Cortinarius subarcheri	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60093001	Cortinarius sublargus	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60093081	Descolea maculata	Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae		1
https://id.biodiversity.org.au/node/fungi/60093467	Laccaria lateritia	MalenÃ§on	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Hydnangiaceae		1
https://id.biodiversity.org.au/node/fungi/60093747	Lichenomphalia umbellifera	(L.) Redhead, Lutzoni, Moncalvo & Vilgalys	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Hygrophoraceae		1
https://id.biodiversity.org.au/node/fungi/60093823	Auritella chamaecephala	Matheny, O.K.Mill. & Bougher ex Matheny, O.K.Mill. & Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/node/fungi/60093861	Crepidotus eucalyptorum	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/node/fungi/60093937	Inocybe fibrillosibrunnea	O.K.Mill. & R.N.Hilton	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/node/fungi/60094569	Mycena nargan	Grgur.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Mycenaceae		1
https://id.biodiversity.org.au/node/fungi/60094775	Armillaria luteobubalina	Watling & Kile	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Physalacriaceae		1
https://id.biodiversity.org.au/node/fungi/60095053	Coprinellus curtus	(Kalchbr.) Vilgalys, Hopple & Jacq.Johnson	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1
https://id.biodiversity.org.au/node/fungi/60095063	Coprinellus flocculosus	(DC.) Vilgalys, Hopple & Jacq.Johnson	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1
https://id.biodiversity.org.au/node/fungi/60095073	Coprinellus pellucidus	(P.Karst.) Redhead, Vilgalys & Moncalvo	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Psathyrellaceae		1
https://id.biodiversity.org.au/node/fungi/60095389	Gymnopilus allantopus	(Berk.) Pegler	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		1
https://id.biodiversity.org.au/node/fungi/60095735	Psilocybe coprophila	(Bull.) P.Kumm.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Strophariaceae		1
https://id.biodiversity.org.au/node/fungi/60095873	Clitocybe dealbata	(Sowerby) P.Kumm.	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae		1
https://id.biodiversity.org.au/node/fungi/60096049	Leucopaxillus lilacinus	Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae		1
https://id.biodiversity.org.au/node/fungi/60096309	Austroboletus lacunosus	(Kuntze) T.W.May & A.E.Wood	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096377	Boletus caesareus	Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096475	Buchwaldoboletus sphaerocephalus	(Barla) Watling & T.H.Li	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096675	Tylopilus fuscobrunneus	Watling	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae		1
https://id.biodiversity.org.au/node/fungi/60096901	Pisolithus arhizus	(Scop.) Rauschert	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/node/fungi/60096973	Scleroderma verrucosum	(Bull.) Pers.	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae		1
https://id.biodiversity.org.au/node/fungi/60096987	Austropaxillus muelleri	(Berk.) Bresinsky & Jarosch	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Serpulaceae		1
https://id.biodiversity.org.au/node/fungi/60097021	Tapinella panuoides	(Fr.) E.-J.Gilbert	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Tapinellaceae		1
https://id.biodiversity.org.au/node/fungi/60098003	Dacryobolus sudans	(Alb. & Schwein.) Fr.	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Fomitopsidaceae		1
https://id.biodiversity.org.au/node/fungi/60098505	Ceriporia purpurea	(Fr.) Donk	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Phanerochaetaceae		1
https://id.biodiversity.org.au/node/fungi/60098897	Panus fasciatus	(Berk.) Pegler	species	Fungi	Basidiomycota	Agaricomycetes	Polyporales	Polyporaceae		1
https://id.biodiversity.org.au/node/fungi/60099609	Lactarius eucalypti	O.K.Mill. & R.N.Hilton	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		1
https://id.biodiversity.org.au/node/fungi/60099739	Russula persanguinea	Cleland	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		1
https://id.biodiversity.org.au/node/fungi/60099785	Zelleromyces australiensis	(Berk. & Broome) Pegler & T.W.K.Young	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae		1
https://id.biodiversity.org.au/node/fungi/60099903	Stereum illudens	Berk.	species	Fungi	Basidiomycota	Agaricomycetes	Russulales	Stereaceae		1
https://id.biodiversity.org.au/node/fungi/60100205	Geastrum triplex	Jungh.	species	Fungi	Basidiomycota	Agaricomycetes	Geastrales	Geastraceae		1
https://id.biodiversity.org.au/node/fungi/60100281	Ramaria capitata	(Lloyd) Corner	species	Fungi	Basidiomycota	Agaricomycetes	Gomphales	Gomphaceae		1
https://id.biodiversity.org.au/node/fungi/60100293	Ramaria filicicola	(S.G.M.Fawc.) Corner	species	Fungi	Basidiomycota	Agaricomycetes	Gomphales	Gomphaceae		1
https://id.biodiversity.org.au/node/fungi/60100605	Colus pusillus	(Berk.) Reichert	species	Fungi	Basidiomycota	Agaricomycetes	Phallales	Phallaceae		1
https://id.biodiversity.org.au/node/fungi/60101265	Puccinia antirrhini	Dietel & Holw.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
https://id.biodiversity.org.au/node/fungi/60101429	Puccinia malvacearum	Bertero ex Mont.	species	Fungi	Basidiomycota	Pucciniomycetes	Pucciniales	Pucciniaceae		1
https://id.biodiversity.org.au/node/fungi/60102411	Ustilago avenae	(Pers.) Rostr.	species	Fungi	Basidiomycota	Ustilaginomycetes	Ustilaginales	Ustilaginaceae		1
https://id.biodiversity.org.au/node/fungi/60102511	Restiosporium restionum	(Nees) VÃ¡nky	species	Fungi	Basidiomycota	Ustilaginomycetes	Ustilaginales	Websdaneaceae		1
https://id.biodiversity.org.au/node/fungi/60103731	Badhamia utricularis	(Bull.) Berk.	species	Protista	Amoebozoa	Myxogastrea	Physarida	Physaraceae		1
https://id.biodiversity.org.au/node/fungi/60103757	Leocarpus fragilis	(Dicks.) Rostaf.	species	Protista	Amoebozoa	Myxogastrea	Physarida	Physaraceae		1
https://id.biodiversity.org.au/node/fungi/60103981	Arcyria cinerea	(Bull.) Pers.	species	Protista	Amoebozoa	Myxogastrea	Trichiida	Arcyriaceae		1
https://id.biodiversity.org.au/node/fungi/60112051	Plicaria endocarpoides	(Berk.) Rifai	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pezizaceae		1
https://id.biodiversity.org.au/node/fungi/60112225	Pyronema omphalodes	(Bull.) Fuckel	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pyronemataceae		1
https://id.biodiversity.org.au/node/fungi/60112265	Sowerbyella rhenana	(Fuckel) J.Moravec	species	Fungi	Ascomycota	Pezizomycetes	Pezizales	Pyronemataceae		1
https://id.biodiversity.org.au/node/lichen/30086135	Flavoparmelia marchantii	Elix, O.Blanco & A.Crespo	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30087572	Pertusaria remota	A.W.Archer	species	Fungi	Ascomycota	Lecanoromycetes	Pertusariales	Pertusariaceae		1
https://id.biodiversity.org.au/node/lichen/30088060	Punctelia pseudocoralloidea	(Gyeln.) Elix & Kantvilas	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30088181	Ramboldia arandensis	(Elix) Kalb, Lumbsch & Elix	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Lecanoraceae		1
https://id.biodiversity.org.au/node/lichen/30088791	Usnea scabrida	Taylor	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30088973	Xanthoparmelia filsonii	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30089001	Xanthoparmelia immutata	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30089082	Xanthoparmelia parvoincerta	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/node/lichen/30089153	Xanthoparmelia succedans	Elix & J.Johnst.	species	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Parmeliaceae		1
https://id.biodiversity.org.au/taxon/apni/51266442	Alstroemeria psittacina	Lehm.	species	Plantae	Charophyta	Equisetopsida	Liliales	Alstroemeriaceae	Parrot Lily	1
https://id.biodiversity.org.au/taxon/apni/51267054	Asparagus plumosus	Baker	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Ferny Climbing Asparagus Fern	1
https://id.biodiversity.org.au/taxon/apni/51269741	Brassica rapa	L.	species	Plantae	Charophyta	Equisetopsida	Brassicales	Brassicaceae	Turnip	1
https://id.biodiversity.org.au/taxon/apni/51270422	Stackhousia sp. Red-blotched corolla (A.Markey 911)	WA Herbarium	species	Plantae	Charophyta	Equisetopsida	Celastrales	Celastraceae		1
https://id.biodiversity.org.au/taxon/apni/51270825	Citrullus amarus	Schrad.	species	Plantae	Charophyta	Equisetopsida	Cucurbitales	Cucurbitaceae	Paddy Melon	1
https://id.biodiversity.org.au/taxon/apni/51283457	Dioscorea bulbifera	L.	species	Plantae	Charophyta	Equisetopsida	Dioscoreales	Dioscoreaceae	Round Yam	1
https://id.biodiversity.org.au/taxon/apni/51283556	Drosera geniculata	(N.G.Marchant & Lowrie) Lowrie	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/taxon/apni/51283637	Drosera squamosa	Benth.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Droseraceae		1
https://id.biodiversity.org.au/taxon/apni/51284002	Leucopogon glabellus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/taxon/apni/51285782	Vicia tetrasperma	(L.) Schreb.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Slender Vetch	1
https://id.biodiversity.org.au/taxon/apni/51288041	Rotheca myricoides	(Hochst.) Steane & Mabb.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Lamiaceae		1
https://id.biodiversity.org.au/taxon/apni/51288204	Orianthera flaviflora	(F.Muell.) C.S.P.Foster & B.J.Conn	species	Plantae	Charophyta	Equisetopsida	Gentianales	Loganiaceae		1
https://id.biodiversity.org.au/taxon/apni/51288506	Hibiscus tiliaceus	L.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae	Cotton Tree	1
https://id.biodiversity.org.au/taxon/apni/51288604	Seringia integrifolia	(Steud.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Malvales	Malvaceae		1
https://id.biodiversity.org.au/taxon/apni/51288703	Glinus lotoides	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Molluginaceae	Hairy Carpet Weed	1
https://id.biodiversity.org.au/taxon/apni/51288833	Beaufortia elegans	Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Elegant Beaufortia	1
https://id.biodiversity.org.au/taxon/apni/51289322	Calothamnus villosus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Hairy Calothamnus	1
https://id.biodiversity.org.au/taxon/apni/51289720	Eremaea beaufortioides	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51290178	Lamarchea hakeifolia	Gaudich.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51290286	Regelia inops	(Schauer) Schauer	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51290390	Eucalyptus decipiens	Endl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Redheart	1
https://id.biodiversity.org.au/taxon/apni/51290399	Eucalyptus drummondii	Benth.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Drummonds Gum	1
https://id.biodiversity.org.au/taxon/apni/51291480	Sporobolus schoenoides	(L.) P.M.Peterson	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae		1
https://id.biodiversity.org.au/taxon/apni/51291704	Rumex hypogaeus	T.M.Schust. & Reveal	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Spiny Emex	1
https://id.biodiversity.org.au/taxon/apni/51293825	Leptocarpus tephrinus	B.G.Briggs	species	Plantae	Charophyta	Equisetopsida	Poales	Restionaceae		1
https://id.biodiversity.org.au/taxon/apni/51294397	Stylidium paludicola	Wege	species	Plantae	Charophyta	Equisetopsida	Asterales	Stylidiaceae	Swamp Reed Triggerplant	1
https://id.biodiversity.org.au/taxon/apni/51294588	Verbena officinalis	L.	species	Plantae	Charophyta	Equisetopsida	Lamiales	Verbenaceae	Common Verbena	1
https://id.biodiversity.org.au/taxon/apni/51294860	Petrophile rigida	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/taxon/apni/51294951	Petrophile carduacea	Meisn.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/taxon/apni/51298267	Convolvulus angustissimus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Solanales	Convolvulaceae	Blushing Bindweed	1
https://id.biodiversity.org.au/taxon/apni/51299776	Albizia procera	(Roxb.) Benth.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Albizia	1
https://id.biodiversity.org.au/taxon/apni/51299886	Banksia meisneri	Lehm.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Scott River Banksia	1
https://id.biodiversity.org.au/taxon/apni/51299936	Calytrix simplex	Lindl.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51300013	Cyathea cooperi	(Hook. ex F.Muell.) Domin	species	Plantae	Charophyta	Equisetopsida	Cyatheales	Cyatheaceae	Straw Tree-fern	1
https://id.biodiversity.org.au/taxon/apni/51300083	Duboisia hopwoodii	(F.Muell.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Solanales	Solanaceae	Pituri	1
https://id.biodiversity.org.au/taxon/apni/51300117	Eutaxia epacridoides	Meisn.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae		1
https://id.biodiversity.org.au/taxon/apni/51311167	Ericomyrtus tenuior	(Ewart) Rye	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae		1
https://id.biodiversity.org.au/taxon/apni/51398823	Caladenia barbarossa	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Dragon Orchid	1
https://id.biodiversity.org.au/taxon/apni/51398841	Caladenia brownii	Hopper	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Karri Spider Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399211	Caladenia nana	Endl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pink Fan Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399255	Caladenia pendens	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Pendant Spider Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399302	Caladenia radialis	R.S.Rogers	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Drooping Spider Orchid	1
https://id.biodiversity.org.au/taxon/apni/51399665	Caleana hortiorum	(Hopper & A.P.Br.) M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae		1
https://id.biodiversity.org.au/taxon/apni/51399674	Caleana nigrita	J.Drumm. ex Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae		1
https://id.biodiversity.org.au/taxon/apni/51404207	Diuris decrementum	D.L.Jones & C.J.French	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Common Bee Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404293	Diuris pauciflora	R.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Donkey Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404653	Drakaea elastica	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Glossy-leaved Hammer Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404657	Drakaea gracilis	Hopper & A.P.Br.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Slender Hammer Orchid	1
https://id.biodiversity.org.au/taxon/apni/51404661	Drakaea livida	J.Drumm.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Warty Hammer Orchid	1
https://id.biodiversity.org.au/taxon/apni/51406614	Microtis brownii	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Sweet Mignonette Orchid	1
https://id.biodiversity.org.au/taxon/apni/51406622	Microtis familiaris	R.J.Bates	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Coastal Mignonette Orchid	1
https://id.biodiversity.org.au/taxon/apni/51406638	Microtis orbicularis	R.S.Rogers	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Swamp Onion-orchid	1
https://id.biodiversity.org.au/taxon/apni/51406644	Microtis quadrata	(R.J.Bates) D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	South Coast Mignonette Orchid	1
https://id.biodiversity.org.au/taxon/apni/51409829	Prasophyllum odoratissimum	D.L.Jones	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Scented Leek Orchid	1
https://id.biodiversity.org.au/taxon/apni/51409877	Prasophyllum sargentii	(Nicholls) A.S.George	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Frilled Leek Orchid	1
https://id.biodiversity.org.au/taxon/apni/51412026	Pterostylis aspera	D.L.Jones & M.A.Clem.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Brown-veined Shell Orchid	1
https://id.biodiversity.org.au/taxon/apni/51412290	Pterostylis pyramidalis	Lindl.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Tall Snail Orchid	1
https://id.biodiversity.org.au/taxon/apni/51414258	Thelymitra cornicina	Rchb.f.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Lilac Sun Orchid	1
https://id.biodiversity.org.au/taxon/apni/51414348	Thelymitra maculata	Jeanes	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Eatern Curly Locks	1
https://id.biodiversity.org.au/taxon/apni/51414362	Thelymitra mucida	Fitzg.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Plum Orchid	1
https://id.biodiversity.org.au/taxon/apni/51414422	Thelymitra spiralis	(Lindl.) F.Muell.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Orchidaceae	Curly-locks	1
https://id.biodiversity.org.au/taxon/apni/51428982	Melaleuca bracteata	F.Muell.	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	River Tea-tree	1
https://id.biodiversity.org.au/taxon/apni/51429048	Petalostylis labicheoides	R.Br.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Butterfly Bush	1
https://id.biodiversity.org.au/taxon/apni/51430587	Amaranthus caudatus	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Love-lies Bleeding	1
https://id.biodiversity.org.au/taxon/apni/51430680	Ptilotus exaltatus	Nees	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Lambs Tail	1
https://id.biodiversity.org.au/taxon/apni/51430945	Carum carvi	L.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae		1
https://id.biodiversity.org.au/taxon/apni/51433033	Allocasuarina littoralis	(Salisb.) L.A.S.Johnson	species	Plantae	Charophyta	Equisetopsida	Fagales	Casuarinaceae	Black Sheoak	1
https://id.biodiversity.org.au/taxon/apni/51433217	Salicornia blackiana	Ulbr.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Chenopodiaceae	Thick-head Samphire	1
https://id.biodiversity.org.au/taxon/apni/51434529	Machaerina acuta	(Labill.) J.Kern	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Pale Twig-rush	1

Species	Species Name	Scientific Name Authorship	Taxon Rank	Kingdom	Phylum	Class	Order	Family	Vernacular Name	Number of records
https://id.biodiversity.org.au/taxon/apni/51434739	Schoenoplectus pungens	(Vahl) Palla	species	Plantae	Charophyta	Equisetopsida	Poales	Cyperaceae	Spiky Club-rush	1
https://id.biodiversity.org.au/taxon/apni/51434940	Hibbertia lineata	Steud.	species	Plantae	Charophyta	Equisetopsida		Dilleniaceae		1
https://id.biodiversity.org.au/taxon/apni/51435268	Brachyloma preissii	Sond.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae	Globe Heath	1
https://id.biodiversity.org.au/taxon/apni/51435350	Styphelia filifolia	Hislop & Puente-Lel.	species	Plantae	Charophyta	Equisetopsida	Ericales	Ericaceae		1
https://id.biodiversity.org.au/taxon/apni/51436312	Swainsona formosa	(G.Don) Joy Thomps.	species	Plantae	Charophyta	Equisetopsida	Fabales	Fabaceae	Sturt Pea	1
https://id.biodiversity.org.au/taxon/apni/51437537	Conostylis latens	Hopper	species	Plantae	Charophyta	Equisetopsida	Commelinales	Haemodoraceae		1
https://id.biodiversity.org.au/taxon/apni/51438032	Ixia polystachya	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Variable Ixia	1
https://id.biodiversity.org.au/taxon/apni/51438116	Watsonia versfeldii	J.W.Mathews & L.Bolus	species	Plantae	Charophyta	Equisetopsida	Asparagales	Iridaceae	Pink Watsonia	1
https://id.biodiversity.org.au/taxon/apni/51439087	Ornithogalum thyrsoides	Jacq.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Chincherinchee	1
https://id.biodiversity.org.au/taxon/apni/51439656	Callistemon citrinus	(Curtis) Skeels	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Crimson Bottlebrush	1
https://id.biodiversity.org.au/taxon/apni/51439812	Eucalyptus grandis	W.Hill	species	Plantae	Charophyta	Equisetopsida	Myrtales	Myrtaceae	Flooded Gum	1
https://id.biodiversity.org.au/taxon/apni/51440805	Najas marina	L.	species	Plantae	Charophyta	Equisetopsida	Alismatales	Hydrocharitaceae	Prickly Water-nymph	1
https://id.biodiversity.org.au/taxon/apni/51442118	Passiflora foetida	L.	species	Plantae	Charophyta	Equisetopsida	Malpighiales	Passifloraceae	Stinking Passionfruit	1
https://id.biodiversity.org.au/taxon/apni/51442338	Bursaria spinosa	Cav.	species	Plantae	Charophyta	Equisetopsida	Apiales	Pittosporaceae	Sweet Native Blackthorn	1
https://id.biodiversity.org.au/taxon/apni/51442708	Hordeum marinum	Huds.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Sea Barley-grass	1
https://id.biodiversity.org.au/taxon/apni/51442763	Lolium arundinaceum	(Schreb.) Darbysh.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Tall Fescue	1
https://id.biodiversity.org.au/taxon/apni/51442778	Lolium pratense	(Huds.) Darbysh.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Meadow Fescue	1
https://id.biodiversity.org.au/taxon/apni/51443078	Paspalum distichum	L.	species	Plantae	Charophyta	Equisetopsida	Poales	Poaceae	Water Couch	1
https://id.biodiversity.org.au/taxon/apni/51444874	Polygonum aviculare	L.	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Prostrate Knotweed	1
https://id.biodiversity.org.au/taxon/apni/51444959	Persicaria lapathifolia	(L.) Delarbre	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Polygonaceae	Woolly Knotweed	1
https://id.biodiversity.org.au/taxon/apni/51445455	Hakea pritzelii	Diels	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae		1
https://id.biodiversity.org.au/taxon/apni/51445472	Isopogon formosus	R.Br.	species	Plantae	Charophyta	Equisetopsida	Proteales	Proteaceae	Rose Coneflower	1
https://id.biodiversity.org.au/taxon/apni/51445678	Anogramma leptophylla	(L.) Link	species	Plantae	Charophyta	Equisetopsida		Pteridaceae	Annual Fern	1
https://id.biodiversity.org.au/taxon/apni/51446156	Ranunculus lappaceus	Sm.	species	Plantae	Charophyta	Equisetopsida	Ranunculales	Ranunculaceae	Native Buttercup	1
https://id.biodiversity.org.au/taxon/apni/51446356	Cotoneaster pannosus	Franch.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Velvet Cotoneaster	1
https://id.biodiversity.org.au/taxon/apni/51446402	Eriobotrya japonica	(Thunb.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Loquat	1
https://id.biodiversity.org.au/taxon/apni/51446458	Rhaphiolepis indica	(L.) Lindl.	species	Plantae	Charophyta	Equisetopsida	Rosales	Rosaceae	Pink Indian Hawthorn	1
https://id.biodiversity.org.au/taxon/apni/51735761	Ptilotus gaudichaudii	(Steud.) J.M.Black	species	Plantae	Charophyta	Equisetopsida	Caryophyllales	Amaranthaceae	Paper Foxtail	1
https://id.biodiversity.org.au/taxon/apni/51736327	Eryngium ovinum	A.Cunn.	species	Plantae	Charophyta	Equisetopsida	Apiales	Apiaceae	Blue Devil	1
https://id.biodiversity.org.au/taxon/apni/51737689	Asparagus aethiopicus	L.	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae	Asparagus Fern	1
https://id.biodiversity.org.au/taxon/apni/51737729	Lachenalia flava	Andrews	species	Plantae	Charophyta	Equisetopsida	Asparagales	Asparagaceae		1
https://id.biodiversity.org.au/taxon/apni/51741614	Bartlettina sordida	(Less.) R.M.King & H.Rob.	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae		1
https://id.biodiversity.org.au/taxon/apni/51741671	Brachyscome perpusilla	(Steetz) J.M.Black	species	Plantae	Charophyta	Equisetopsida	Asterales	Asteraceae	Rayless Daisy	1
https://id.biodiversity.org.au/taxon/ausmoss/10144499	Bryum argenteum	Hedw.	species	Plantae	Bryophyta	Bryopsida	Bryales	Bryaceae	Silver Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10145639	Thuidiopsis sparsa	(Hook.f. & Wilson) Broth.	species	Plantae	Bryophyta	Bryopsida	Hypnales	Thuidiaceae	Weft Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10152537	Campylopus appressifolius	Mitt.	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Swan-neck Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10152548	Campylopus clavatus	Wilson	species	Plantae	Bryophyta	Bryopsida	Dicranales	Leucobryaceae	Broody Swan-neck Moss	1
https://id.biodiversity.org.au/taxon/ausmoss/10154688	Fissidens tenellus	Hook.f. & Wilson	species	Plantae	Bryophyta	Bryopsida	Dicranales	Fissidentaceae	Tiny Pocket-moss	1
https://id.biodiversity.org.au/taxon/fungi/60115527	Gyroporus robinsonii	Davoodian	species	Fungi	Basidiomycota	Agaricomycetes	Boletales	Gyroporaceae		1
https://id.biodiversity.org.au/taxon/fungi/60117702	Inocybe spadicea	Matheny & Bougher	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Inocybaceae		1
https://id.biodiversity.org.au/taxon/fungi/60118699	Macrolepiota turbinata	T.Lebel	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae		1
https://id.biodiversity.org.au/taxon/fungi/60118703	Amanita drummondii	E.M.Davison	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://id.biodiversity.org.au/taxon/fungi/60118707	Amanita quenda	E.M.Davison	species	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Amanitaceae		1
https://www.catalogueoflife.org/data/taxon/496D4	Oligonema schweinitzii	(Berk.) G.W.Martin, 1947	species	Protista	Amoebozoa	Myxogastrea	Trichiida	Trichiaceae		1

APPENDIX 5

Protected Matters Search Tool Report

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 18-Sep-2025

Summary
Details
- Matters of NES
- Other Matters Protected by the EPBC Act
- Extra Information

Caveat
Acknowledgements

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	7
Listed Threatened Species:	60
Listed Migratory Species:	26

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at https://www.dcceew.gov.au/parks-heritage/heritage

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	254
Commonwealth Heritage Places:	None
Listed Marine Species:	30
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	16
Regional Forest Agreements:	1
Nationally Important Wetlands:	2
EPBC Act Referrals:	22
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities [Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.
Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area	In feature area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Community likely to occur within area	In buffer area only
Corymbia calophylla - Kingia australis woodlands on heavy soils of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Empodisma peatlands of southwestern Australia	Endangered	Community may occur within area	In feature area
Shrublands and Woodlands of the eastern Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community may occur within area	In feature area

Listed Threatened Species [Resource Information]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Botaurus poiciloptilus			
Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Phaethon rubricauda westralis Red-tailed Tropicbird (Indian Ocean), Indian Ocean Red-tailed Tropicbird [91824]	Endangered	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In feature area
Zanda baudinii listed as Calyptorhynchus baudinii Baudin's Cockatoo, Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Roosting known to occur within area	In feature area
Zanda latirostris listed as Calyptorhynchus latirostris Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Breeding known to occur within area	In feature area
INSECT			
Leioproctus douglasiellus a short-tongued bee [66756]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
MAMMAL			

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Bettongia penicillata ogilbyi](#) Woylie [66844]	Endangered	Species or species habitat may occur within area	In buffer area only
[Dasyurus geoffroii](#) Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area	In feature area
[Setonix brachyurus](#) Quokka [229]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
OTHER			
[Westralunio carteri](#) Carter's Freshwater Mussel, Ambiguus Mussel [86266]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
PLANT			
[Acacia anomala](#) Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
[Acacia aphylla](#) Leafless Rock Wattle [13553]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Andersonia gracilis](#) Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area	In feature area
[Anigozanthos viridis subsp. terraspectans](#) Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Anthocercis gracilis](#) Slender Tailflower [11103]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
[Banksia mimica](#) Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area	In feature area
[Calytrix breviseta subsp. breviseta](#) Swamp Starflower [23879]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chamelaucium lullfitzii listed as Chamelaucium sp. Gingin (N.G.Marchant 6)			
Gingin Wax [92777]	Endangered (listed as Chamelaucium sp. Gingin	Species or species habitat may occur within area	In feature area
Conospermum undulatum			
Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat known to occur within area	In feature area
Darwinia apiculata			
Scarp Darwinia [8763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Diplolaena andrewsii			
[6601]	Endangered	Species or species habitat likely to occur within area	In feature area
Diuris drummondii			
Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris micrantha			
Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris purdiei			
Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea elastica			
Glossy-leafed Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea micrantha			
Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area	In feature area
Eleocharis keigheryi			
Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Eremophila glabra subsp. chlorella			
[84927]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eucalyptus x balanites			
Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area	In feature area
Grevillea curviloba subsp. incurva			
Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat may occur within area	In feature area
Grevillea flexuosa			
Zig Zag Grevillea [2957]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Macarthuria keigheryi			
Keighery's Macarthuria [64930]	Endangered	Species or species habitat known to occur within area	In feature area
Morelotia australiensis listed as Tetraria australiensis			
Southern Tetraria [92784]	Vulnerable	Species or species habitat may occur within area	In feature area
Synaphea sp. Fairbridge Farm (D.Papenfus 696)			
Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Thelymitra dedmaniarum			
Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area	In feature area
Thelymitra stellata			
Star Sun-orchid [7060]	Endangered	Species or species habitat known to occur within area	In feature area
Trithuria occidentalis			
Swan Hydatella [42224]	Endangered	Species or species habitat likely to occur within area	In buffer area only
REPTILE			
Caretta caretta			
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas			
Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea			
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Sphyrna lewini			
Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species [Resource Information]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis			
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora			
Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans			
Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Macronectes giganteus			
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli			
Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Phaethon rubricauda			
Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche cauta			
Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida			
Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris			
Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi			
White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Marine Species			
Caretta caretta			
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas			
Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea			
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi			
Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris			
Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea			
Grey Wagtail [642]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

Commonwealth Lands [Resource Information]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Commonwealth Land Name	State	Buffer Status
Defence		
Defence - BUSHMEAD RIFLE RANGE [50143]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50258]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - BUSHMEAD TRAINING AREA [50260]	WA	In buffer area only
Defence - BUSHMEAD TRAINING AREA [50259]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50177]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50179]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50176]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50178]	WA	In buffer area only
Defence - PALMER BARRACKS - SOUTH GUILDFORD [50180]	WA	In buffer area only
Unknown		
Commonwealth Land - [51362]	WA	In feature area
Commonwealth Land - [51363]	WA	In feature area
Commonwealth Land - [51364]	WA	In feature area
Commonwealth Land - [51365]	WA	In feature area
Commonwealth Land - [51366]	WA	In feature area
Commonwealth Land - [51367]	WA	In feature area
Commonwealth Land - [51369]	WA	In feature area
Commonwealth Land - [51368]	WA	In feature area
Commonwealth Land - [51194]	WA	In buffer area only
Commonwealth Land - [51195]	WA	In buffer area only
Commonwealth Land - [51355]	WA	In buffer area only
Commonwealth Land - [51271]	WA	In buffer area only
Commonwealth Land - [51198]	WA	In buffer area only
Commonwealth Land - [51907]	WA	In buffer area only
Commonwealth Land - [51339]	WA	In buffer area only
Commonwealth Land - [51197]	WA	In buffer area only
Commonwealth Land - [51221]	WA	In buffer area only
Commonwealth Land - [51906]	WA	In buffer area only
Commonwealth Land - [51222]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [50850]	WA	In buffer area only
Commonwealth Land - [51225]	WA	In buffer area only
Commonwealth Land - [51199]	WA	In buffer area only
Commonwealth Land - [51220]	WA	In buffer area only
Commonwealth Land - [51909]	WA	In buffer area only
Commonwealth Land - [51223]	WA	In buffer area only
Commonwealth Land - [51360]	WA	In buffer area only
Commonwealth Land - [51226]	WA	In buffer area only
Commonwealth Land - [51227]	WA	In buffer area only
Commonwealth Land - [51224]	WA	In buffer area only
Commonwealth Land - [51361]	WA	In feature area
Commonwealth Land - [51246]	WA	In buffer area only
Commonwealth Land - [50859]	WA	In buffer area only
Commonwealth Land - [51908]	WA	In buffer area only
Commonwealth Land - [51265]	WA	In buffer area only
Commonwealth Land - [51270]	WA	In buffer area only
Commonwealth Land - [51172]	WA	In buffer area only
Commonwealth Land - [51345]	WA	In buffer area only
Commonwealth Land - [51267]	WA	In buffer area only
Commonwealth Land - [51247]	WA	In buffer area only
Commonwealth Land - [51264]	WA	In buffer area only
Commonwealth Land - [51307]	WA	In buffer area only
Commonwealth Land - [51261]	WA	In buffer area only
Commonwealth Land - [51346]	WA	In feature area
Commonwealth Land - [51917]	WA	In buffer area only
Commonwealth Land - [51266]	WA	In buffer area only
Commonwealth Land - [51916]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51263]	WA	In buffer area only
Commonwealth Land - [51344]	WA	In feature area
Commonwealth Land - [51915]	WA	In buffer area only
Commonwealth Land - [51178]	WA	In buffer area only
Commonwealth Land - [51347]	WA	In buffer area only
Commonwealth Land - [51914]	WA	In buffer area only
Commonwealth Land - [51304]	WA	In buffer area only
Commonwealth Land - [51262]	WA	In buffer area only
Commonwealth Land - [51228]	WA	In buffer area only
Commonwealth Land - [51229]	WA	In buffer area only
Commonwealth Land - [51912]	WA	In buffer area only
Commonwealth Land - [51913]	WA	In buffer area only
Commonwealth Land - [51910]	WA	In buffer area only
Commonwealth Land - [51911]	WA	In buffer area only
Commonwealth Land - [51341]	WA	In buffer area only
Commonwealth Land - [51340]	WA	In buffer area only
Commonwealth Land - [51343]	WA	In buffer area only
Commonwealth Land - [51342]	WA	In buffer area only
Commonwealth Land - [51349]	WA	In buffer area only
Commonwealth Land - [51348]	WA	In buffer area only
Commonwealth Land - [51323]	WA	In buffer area only
Commonwealth Land - [50853]	WA	In buffer area only
Commonwealth Land - [51176]	WA	In buffer area only
Commonwealth Land - [50849]	WA	In buffer area only
Commonwealth Land - [51184]	WA	In buffer area only
Commonwealth Land - [51177]	WA	In buffer area only
Commonwealth Land - [51322]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51185]	WA	In buffer area only
Commonwealth Land - [51174]	WA	In buffer area only
Commonwealth Land - [51175]	WA	In buffer area only
Commonwealth Land - [51189]	WA	In buffer area only
Commonwealth Land - [51173]	WA	In buffer area only
Commonwealth Land - [51170]	WA	In buffer area only
Commonwealth Land - [51171]	WA	In buffer area only
Commonwealth Land - [51918]	WA	In buffer area only
Commonwealth Land - [51183]	WA	In buffer area only
Commonwealth Land - [51182]	WA	In buffer area only
Commonwealth Land - [51181]	WA	In buffer area only
Commonwealth Land - [51351]	WA	In buffer area only
Commonwealth Land - [51187]	WA	In buffer area only
Commonwealth Land - [51186]	WA	In buffer area only
Commonwealth Land - [51357]	WA	In buffer area only
Commonwealth Land - [51206]	WA	In buffer area only
Commonwealth Land - [51213]	WA	In buffer area only
Commonwealth Land - [51977]	WA	In buffer area only
Commonwealth Land - [51278]	WA	In buffer area only
Commonwealth Land - [51204]	WA	In buffer area only
Commonwealth Land - [51372]	WA	In feature area
Commonwealth Land - [51166]	WA	In buffer area only
Commonwealth Land - [51279]	WA	In buffer area only
Commonwealth Land - [51375]	WA	In feature area
Commonwealth Land - [51167]	WA	In feature area
Commonwealth Land - [51212]	WA	In buffer area only
Commonwealth Land - [51211]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51209]	WA	In buffer area only
Commonwealth Land - [51288]	WA	In buffer area only
Commonwealth Land - [51201]	WA	In buffer area only
Commonwealth Land - [51208]	WA	In buffer area only
Commonwealth Land - [50885]	WA	In buffer area only
Commonwealth Land - [51281]	WA	In buffer area only
Commonwealth Land - [51289]	WA	In buffer area only
Commonwealth Land - [51971]	WA	In buffer area only
Commonwealth Land - [51219]	WA	In buffer area only
Commonwealth Land - [51218]	WA	In buffer area only
Commonwealth Land - [51217]	WA	In buffer area only
Commonwealth Land - [51216]	WA	In buffer area only
Commonwealth Land - [51324]	WA	In feature area
Commonwealth Land - [51215]	WA	In buffer area only
Commonwealth Land - [51214]	WA	In buffer area only
Commonwealth Land - [51300]	WA	In buffer area only
Commonwealth Land - [51301]	WA	In buffer area only
Commonwealth Land - [51269]	WA	In buffer area only
Commonwealth Land - [51268]	WA	In buffer area only
Commonwealth Land - [51299]	WA	In buffer area only
Commonwealth Land - [51305]	WA	In buffer area only
Commonwealth Land - [51210]	WA	In buffer area only
Commonwealth Land - [51972]	WA	In buffer area only
Commonwealth Land - [51200]	WA	In buffer area only
Commonwealth Land - [51202]	WA	In buffer area only
Commonwealth Land - [51203]	WA	In buffer area only
Commonwealth Land - [51292]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51291]	WA	In buffer area only
Commonwealth Land - [50877]	WA	In buffer area only
Commonwealth Land - [50878]	WA	In buffer area only
Commonwealth Land - [51358]	WA	In buffer area only
Commonwealth Land - [51295]	WA	In buffer area only
Commonwealth Land - [51290]	WA	In buffer area only
Commonwealth Land - [51297]	WA	In buffer area only
Commonwealth Land - [50874]	WA	In buffer area only
Commonwealth Land - [50873]	WA	In buffer area only
Commonwealth Land - [51515]	WA	In buffer area only
Commonwealth Land - [51516]	WA	In buffer area only
Commonwealth Land - [51190]	WA	In buffer area only
Commonwealth Land - [51191]	WA	In buffer area only
Commonwealth Land - [51192]	WA	In buffer area only
Commonwealth Land - [51193]	WA	In buffer area only
Commonwealth Land - [51294]	WA	In buffer area only
Commonwealth Land - [51359]	WA	In buffer area only
Commonwealth Land - [51303]	WA	In buffer area only
Commonwealth Land - [51242]	WA	In buffer area only
Commonwealth Land - [51241]	WA	In buffer area only
Commonwealth Land - [51309]	WA	In buffer area only
Commonwealth Land - [50948]	WA	In buffer area only
Commonwealth Land - [50946]	WA	In buffer area only
Commonwealth Land - [51243]	WA	In buffer area only
Commonwealth Land - [51260]	WA	In buffer area only
Commonwealth Land - [51259]	WA	In buffer area only
Commonwealth Land - [51293]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51308]	WA	In buffer area only
Commonwealth Land - [50861]	WA	In buffer area only
Commonwealth Land - [51298]	WA	In buffer area only
Commonwealth Land - [51371]	WA	In feature area
Commonwealth Land - [51248]	WA	In buffer area only
Commonwealth Land - [50860]	WA	In buffer area only
Commonwealth Land - [51249]	WA	In buffer area only
Commonwealth Land - [51244]	WA	In buffer area only
Commonwealth Land - [51245]	WA	In buffer area only
Commonwealth Land - [51280]	WA	In buffer area only
Commonwealth Land - [51373]	WA	In feature area
Commonwealth Land - [51374]	WA	In feature area
Commonwealth Land - [51273]	WA	In buffer area only
Commonwealth Land - [51168]	WA	In buffer area only
Commonwealth Land - [51169]	WA	In buffer area only
Commonwealth Land - [51276]	WA	In buffer area only
Commonwealth Land - [51277]	WA	In buffer area only
Commonwealth Land - [51350]	WA	In buffer area only
Commonwealth Land - [51274]	WA	In buffer area only
Commonwealth Land - [51275]	WA	In buffer area only
Commonwealth Land - [51296]	WA	In buffer area only
Commonwealth Land - [51207]	WA	In buffer area only
Commonwealth Land - [51353]	WA	In buffer area only
Commonwealth Land - [51378]	WA	In buffer area only
Commonwealth Land - [51352]	WA	In buffer area only
Commonwealth Land - [51328]	WA	In buffer area only
Commonwealth Land - [51205]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51286]	WA	In buffer area only
Commonwealth Land - [51285]	WA	In buffer area only
Commonwealth Land - [51254]	WA	In buffer area only
Commonwealth Land - [51284]	WA	In buffer area only
Commonwealth Land - [51255]	WA	In buffer area only
Commonwealth Land - [51252]	WA	In buffer area only
Commonwealth Land - [51253]	WA	In buffer area only
Commonwealth Land - [51258]	WA	In buffer area only
Commonwealth Land - [51256]	WA	In buffer area only
Commonwealth Land - [51257]	WA	In buffer area only
Commonwealth Land - [51251]	WA	In buffer area only
Commonwealth Land - [51250]	WA	In buffer area only
Commonwealth Land - [51922]	WA	In feature area
Commonwealth Land - [51282]	WA	In buffer area only
Commonwealth Land - [51283]	WA	In buffer area only
Commonwealth Land - [50847]	WA	In buffer area only
Commonwealth Land - [51302]	WA	In buffer area only
Commonwealth Land - [51334]	WA	In buffer area only
Commonwealth Land - [51333]	WA	In buffer area only
Commonwealth Land - [51336]	WA	In buffer area only
Commonwealth Land - [51335]	WA	In buffer area only
Commonwealth Land - [51330]	WA	In buffer area only
Commonwealth Land - [51188]	WA	In buffer area only
Commonwealth Land - [51332]	WA	In buffer area only
Commonwealth Land - [51331]	WA	In buffer area only
Commonwealth Land - [51337]	WA	In buffer area only
Commonwealth Land - [51338]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51230]	WA	In buffer area only
Commonwealth Land - [51231]	WA	In buffer area only
Commonwealth Land - [51238]	WA	In buffer area only
Commonwealth Land - [51272]	WA	In buffer area only
Commonwealth Land - [51234]	WA	In buffer area only
Commonwealth Land - [51235]	WA	In buffer area only
Commonwealth Land - [51232]	WA	In buffer area only
Commonwealth Land - [51233]	WA	In buffer area only
Commonwealth Land - [51321]	WA	In buffer area only
Commonwealth Land - [51196]	WA	In buffer area only
Commonwealth Land - [51327]	WA	In buffer area only
Commonwealth Land - [51320]	WA	In buffer area only
Commonwealth Land - [51325]	WA	In buffer area only
Commonwealth Land - [51326]	WA	In buffer area only
Commonwealth Land - [51329]	WA	In buffer area only
Commonwealth Land - [51306]	WA	In buffer area only
Commonwealth Land - [50845]	WA	In buffer area only
Commonwealth Land - [50842]	WA	In buffer area only
Commonwealth Land - [51923]	WA	In feature area
Commonwealth Land - [51379]	WA	In buffer area only
Commonwealth Land - [51921]	WA	In buffer area only
Commonwealth Land - [51920]	WA	In buffer area only
Commonwealth Land - [51370]	WA	In feature area
Commonwealth Land - [50862]	WA	In buffer area only
Commonwealth Land - [51319]	WA	In buffer area only
Commonwealth Land - [51318]	WA	In buffer area only
Commonwealth Land - [51924]	WA	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51237]	WA	In buffer area only
Commonwealth Land - [51236]	WA	In buffer area only
Commonwealth Land - [51316]	WA	In buffer area only
Commonwealth Land - [51310]	WA	In buffer area only
Commonwealth Land - [51313]	WA	In buffer area only
Commonwealth Land - [51311]	WA	In buffer area only
Commonwealth Land - [51314]	WA	In buffer area only
Commonwealth Land - [51317]	WA	In buffer area only
Commonwealth Land - [51312]	WA	In buffer area only
Commonwealth Land - [51315]	WA	In buffer area only

Listed Marine Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos			
Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis			
Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area overfly marine area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area	In feature area
Phaethon rubricauda Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In buffer area only
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thinornis cucullatus as Thinornis rubricollis Hooded Plover, Hooded Dotterel [87735]		Species or species habitat likely to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Beelu	National Park	WA	In buffer area only
Dundas Road	Nature Reserve	WA	In buffer area only
Gooseberry Hill	National Park	WA	In buffer area only
Greenmount	National Park	WA	In buffer area only
Helena River	Management Area	WA	In buffer area only
Kalamunda	National Park	WA	In buffer area only
NTWA Bushland covenant (0074)	Conservation Covenant	WA	In buffer area only
Swan River	Management Area	WA	In buffer area only
Unnamed WA1919/893	Management Area	WA	In buffer area only
Unnamed WA23076	Nature Reserve	WA	In buffer area only
Unnamed WA29815	5(1)(h) Reserve	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA33618	Management Area	WA	In buffer area only
Unnamed WA36440	Management Area	WA	In buffer area only
Unnamed WA37997	Nature Reserve	WA	In buffer area only
Unnamed WA45106	5(1)(g) Reserve	WA	In buffer area only
Unnamed WA49079	Nature Reserve	WA	In buffer area only

Regional Forest Agreements [Resource Information]

Note that all areas with completed RFAs have been included. Please see the associated resource information for specific caveats and use limitations associated with RFA boundary information.

RFA Name	State	Buffer Status
South West WA RFA	Western Australia	In buffer area only

Nationally Important Wetlands [Resource Information]

Wetland Name	State	Buffer Status
Perth Airport Woodland Swamps	WA	In feature area
Swan-Canning Estuary	WA	In buffer area only

EPBC Act Referrals [Resource Information]

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Eradication of the European House Borer, Perth metropolitan area, WA	2009/5027		Completed	In buffer area only
Land Clearing for Light Industrial Development	2022/09419		Completed	In buffer area only
Roe Highway and Great Eastern Highway Bypass Grade Separation Interchange, Hazelmere WA	2020/8784		Post-Approval	In buffer area only
Talbot Road Asbestos Water Supply Pipe Decommissioning Project	2023/09661		Completed	In buffer area only
Controlled action				
Airport & Freight Access Gateway	2010/5384	Controlled Action	Post-Approval	In buffer area only
Bushmead Residential Development, Hazelmere, WA	2015/7414	Controlled Action	Post-Approval	In buffer area only
National Lifestyle Village, Lot 97 Adelaide Street	2009/5141	Controlled Action	Post-Approval	In buffer area only
Native vegetation clearing of Lot 21 Webster Road for Industrial	2011/6186	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Development				
Natural Gas Pipeline Expansion	2006/2813	Controlled Action	Post-Approval	In feature area
Nava-1 Cable System	2001/510	Controlled Action	Completed	In feature area
Roe Highway and Kalamunda Road Interchange upgrade, WA	2018/8316	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Berkshire Road and Roe Highway Interchange, Forrestfield, East Perth, WA	2014/7243	Not Controlled Action	Completed	In buffer area only
Forrestfield Airport Link, WA	2015/7399	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Pipeline Extension, Hazelmere and Helena Valley, WA	2018/8239	Not Controlled Action	Completed	In buffer area only
Residential development of Lots 302, 308, 320 and part of Lot 9502, Hawtin Rd, Forrestfield, WA	2016/7770	Not Controlled Action	Completed	In buffer area only
Ridge Hill Road intersection modification and offsite water main installation, Gooseberry Hill, WA	2020/8842	Not Controlled Action	Completed	In buffer area only
Roe Highway Noise Wall, High Wycombe, WA	2014/7149	Not Controlled Action	Completed	In buffer area only
Tonkin Highway Upgrade, Guildford Road to Great Eastern Highway, WA	2019/8545	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Commercial Estate and Aeronautical Infrastructure Development, Precincts 2A & 2B	2006/3021	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
South West Metropolitan Railway Project	2003/1175	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

-Office of Environment and Heritage, New South Wales
-Department of Environment and Primary Industries, Victoria
-Department of Primary Industries, Parks, Water and Environment, Tasmania
-Department of Environment, Water and Natural Resources, South Australia
-Department of Land and Resource Management, Northern Territory
-Department of Environmental and Heritage Protection, Queensland
-Department of Parks and Wildlife, Western Australia
-Environment and Planning Directorate, ACT
-Birdlife Australia
-Australian Bird and Bat Banding Scheme
-Australian National Wildlife Collection
-Natural history museums of Australia
-Museum Victoria
-Australian Museum
-South Australian Museum
-Queensland Museum
-Online Zoological Collections of Australian Museums
-Queensland Herbarium
-National Herbarium of NSW
-Royal Botanic Gardens and National Herbarium of Victoria
-Tasmanian Herbarium
-State Herbarium of South Australia
-Northern Territory Herbarium
-Western Australian Herbarium
-Australian National Herbarium, Canberra
-University of New England
-Ocean Biogeographic Information System
-Australian Government, Department of Defence
Forestry Corporation, NSW
-Geoscience Australia
-CSIRO
-Australian Tropical Herbarium, Cairns
-eBird Australia
-Australian Government – Australian Antarctic Data Centre
-Museum and Art Gallery of the Northern Territory
-Australian Government National Environmental Science Program
-Australian Institute of Marine Science
-Reef Life Survey Australia
-American Museum of Natural History
-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
-Tasmanian Museum and Art Gallery, Hobart, Tasmania
-Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact us page.

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APPENDIX 6

DBCA TEC and PEC Database Search

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
2503	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
2502	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
500	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
5178	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115002	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
105161	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
105156	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
105157	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
4895	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
4893	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
4897	SCP3a	Corymbia calophylla ΓÇö Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115162	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115145	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115161	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115151	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114996	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114987	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114986	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115008	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115007	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114985	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
117	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115005	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115003	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114992	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
118	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
114989	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114988	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
32	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115004	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115000	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122097	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114991	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114990	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115006	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2501	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
114999	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114998	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114997	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115565	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115450	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114994	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115564	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
33	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115449	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
745	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115535	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115534	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
744	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
716	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115413	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115412	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115411	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115410	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115219	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115409	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115001	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
723	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115538	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
7	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127452	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115442	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115417	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127602	SCP3b	Corymbia calophylla ΓÇö Eucalyptus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (floristic community type 3b as originally described in Gibson et al. 1994)	BCA Endangered		No
115453	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
722	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115451	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115443	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
717	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
5315	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115583	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115567	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
503	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115415	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115414	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115446	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115444	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115445	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115306	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115307	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
502	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115562	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115452	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
718	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115454	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115571	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115556	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115570	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115558	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115557	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115554	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115566	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115576	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125058	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
125057	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115574	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115297	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125055	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115599	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115290	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115291	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115455	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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115573	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122455	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115572	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115456	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115580	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115579	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115423	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125047	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
125054	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115568	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125053	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115422	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125052	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115424	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115581	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115312	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115569	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115582	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125051	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
125056	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
121965	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115421	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115314	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121966	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115313	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122453	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122454	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115578	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125048	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127470	SCP3b	Corymbia calophylla ΓÇö Eucalyptus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (floristic community type 3b as originally described in Gibson et al. 1994)	BCA Endangered		No
115536	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
125050	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115300	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127133	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127137	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127136	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127135	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127134	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115537	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115310	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115603	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
105696	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115596	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115303	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127132	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127131	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
122434	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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122148	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122147	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2498	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
115426	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115425	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122456	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
124929	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
115600	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115418	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115416	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115447	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115604	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115304	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115605	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122173	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122427	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115298	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115584	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127594	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127595	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120927	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5616	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
110888	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5614	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
108844	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108693	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120702	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120961	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120960	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108740	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108739	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108742	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108738	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108813	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108741	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108694	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5615	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
17685	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120934	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120935	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120854	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108860	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120942	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120916	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120911	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120721	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120841	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17168	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
17169	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
120704	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120893	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120959	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120856	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120850	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108852	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110873	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111191	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120742	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120739	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120740	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120741	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120607	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110887	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120743	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127499	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
108814	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108796	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108800	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112592	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112833	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110874	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

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5617	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
5613	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
5612	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	No
126900	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
127498	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120822	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120858	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121137	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120917	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120812	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120833	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120515	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108868	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
108861	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120716	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120938	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120703	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120857	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120915	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120922	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120625	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120624	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120507	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120506	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120675	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120513	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120601	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120512	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120654	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
126902	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
126901	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120768	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120767	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
863	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
120603	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120519	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121138	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121136	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114993	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115221	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115220	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120604	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120605	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120606	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
114995	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120514	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120811	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120509	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120810	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
737	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115226	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120676	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115223	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115311	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115563	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127453	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
715	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115222	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115225	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120763	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120678	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120658	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115227	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
739	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No

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747	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120677	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
862	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
1916	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120791	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120602	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120790	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120788	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120789	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120761	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120787	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120765	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120770	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120764	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120516	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120766	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120805	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120774	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120773	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120772	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120771	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120674	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120673	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120758	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120799	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120762	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120755	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120760	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120786	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120769	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120754	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120753	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120756	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120759	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120757	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120517	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120798	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112741	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112793	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120620	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112740	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120940	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120939	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120909	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111290	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113148	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110880	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111192	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112925	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112926	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112924	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112795	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
110886	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113074	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113073	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112803	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112802	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113071	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112591	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113089	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113072	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113056	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112801	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112800	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112799	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113102	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113114	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113115	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111428	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113101	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112743	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112742	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120621	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120780	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120623	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
120681	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120633	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120680	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120622	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111227	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113076	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113078	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113075	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112632	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113103	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113113	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120749	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120636	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120750	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120797	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120751	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120752	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120642	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120616	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120735	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120651	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120748	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120746	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120804	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120747	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17693	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120785	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120504	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17684	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120499	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120800	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115224	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120737	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120635	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120650	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120738	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120634	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
1930	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
847	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
120679	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120778	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120779	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120744	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120745	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120617	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120498	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115308	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
5175	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115215	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120666	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120505	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
124920	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
124920	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115214	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120493	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115555	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120511	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
1831	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115317	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115216	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120611	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120803	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120802	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120801	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120806	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120736	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120626	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
121751	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115577	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115218	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120613	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120614	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115217	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115296	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120629	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121969	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
8	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120685	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115457	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115575	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120615	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120776	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120796	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120631	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120777	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120775	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120632	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120684	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120808	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120807	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120809	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120781	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120630	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120492	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120612	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120688	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120628	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120609	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120782	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120783	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120784	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120610	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120668	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2552	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120686	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
533	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
121745	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120491	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120672	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120670	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120508	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
689	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
455	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
3	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
1	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
121964	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120669	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
454	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
936	SCP02	Southern wet shrublands, Swan Coastal Plain (floristic community type 2 as originally described in Gibson et al. 1994)	BCA Critically Endangered		No
934	SCP02	Southern wet shrublands, Swan Coastal Plain (floristic community type 2 as originally described in Gibson et al. 1994)	BCA Critically Endangered		No
120659	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120627	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121746	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121744	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120661	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120660	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120641	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
120682	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120665	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120690	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120497	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120656	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120496	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120652	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120683	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120671	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127575	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120662	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127577	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120495	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127576	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120494	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127574	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
449	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
122168	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115305	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121963	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122150	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115601	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122166	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120663	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127588	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120664	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127579	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127573	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127578	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120655	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120644	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
667	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
668	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120510	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120657	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120503	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120643	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120727	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127582	SCP20c	Shrublands and woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20c as originally described in in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120728	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127590	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
127589	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120618	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127571	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
120530	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120532	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120646	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120724	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120723	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120726	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120725	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120619	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120730	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120692	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
127591	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120691	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121752	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
127592	SCP3c	Corymbia calophylla ΓÇö Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (floristic community type 3c as originally described in Gibson et al. 1994)	BCA Endangered	Endangered	No
120521	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120522	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
661	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
120733	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120645	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120732	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
126917	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
120523	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120689	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120526	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120649	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120527	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120529	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120531	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
4079	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
3889	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
120731	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120518	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120734	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120693	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120729	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
4068	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
4067	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
120648	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120525	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120524	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120647	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120528	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
4077	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
4075	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
4070	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
4071	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
4073	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
127164	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
4074	SCP3a	Corymbia calophylla ΓÇô Kingia australis woodlands on heavy soils (floristic community type 3a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
213	SCP07	Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
242	SCP10a	Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. 1994)	BCA Endangered	Critically Endangered	No
3170	SCP21c	Low lying Banksia attenuata woodlands or shrublands	Priority 3	Endangered	No
5075	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
5669	Muchea Limestone	Shrublands and woodlands on Muchea Limestone of the Swan Coastal Plain	BCA Endangered	Endangered	No
120638	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120639	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120640	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120637	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120793	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120794	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120792	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120502	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112927	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112634	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
112633	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
111226	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120795	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
113077	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
120520	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	OCC_CONFID
120653	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115586	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115597	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122170	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115602	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122171	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122169	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122167	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115587	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115585	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115598	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122429	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121753	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122428	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122172	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115607	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115606	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115588	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
456	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
127187	SCP20a	Banksia attenuata woodlands over species rich dense shrublands (floristic community type 20a as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
122151	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115315	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115402	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122175	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115608	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
126908	SCP20b	Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (floristic community type 20b as originally described in Gibson et al. 1994)	BCA Critically Endangered	Endangered	No
115427	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122174	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122153	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121968	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121962	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121967	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115403	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
121754	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122177	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122176	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
122436	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115550	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115309	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
115299	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
2497	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No
122435	Banksia WL SCP	Banksia Woodlands of the Swan Coastal Plain ecological community	Priority 3	Endangered	No
17222	Central Granite Shrublands (Com 5, Markey)	Central Northern Darling Scarp Granite Shrubland Community	Priority 4		No

APPENDIX 7

Conservation Codes

Conservation Codes for Western Australian Flora and Fauna

Threatened, Extinct and Specially Protected fauna or flora are species which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

The lists of Threatened, Extinct and Specially Protected species are listed under Part 2 of the Biodiversity Conservation Act 2016.

Categories of Threatened, Extinct and Specially Protected fauna and flora are:

T Threatened species

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

> ***Threatened fauna*** is the species of fauna that are listed as critically endangered, endangered or vulnerable threatened species.
>
> ***Threatened flora*** is the species of flora that are listed as critically endangered, endangered or vulnerable threatened species.

The assessment of the conservation status of threatened species is in accordance with the BC Act listing criteria and the requirements of Ministerial Guideline (Number 1) and Ministerial Guideline (Number 2) that adopts the use of the International Union for Conservation of Nature (IUCN) Red List of Threatened Species Categories and Criteria 4, and is based on the national distribution of the species.

CR Critically endangered species

> Threatened species considered to be "*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*".
>
> Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines.

EN Endangered species

> Threatened species considered to be "*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*".
>
> Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines.

VU Vulnerable species

> Threatened species considered to be "*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.

Extinct Species

EX Presumed extinct species

Species where "*there is no reasonable doubt that the last member of the species has died*", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

EW Extinct in the wild species

Species that "*is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no threatened fauna or threatened flora species listed as extinct in the wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.

Specially protected species

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

CD Species of special conservation interest (conservation dependent fauna)

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Currently only fauna are listed as species of special conservation interest.

OS Other specially protected species

Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Currently only fauna are listed as species otherwise in need of special protection.

P Priority species

Priority is not a listing category under the BC Act.

All fauna and flora are protected in WA following the provisions in Part 10 of the BC Act. The protection applies even when a species is not listed as threatened or specially protected, and regardless of land tenure (State managed land (Crown land), private land, or Commonwealth land).

Species that may possibly be threatened species that do not meet the criteria for listing under the BC Act because of insufficient survey or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of prioritisation for survey and evaluation of conservation status so that consideration can be given to potential listing as threatened.

Species that are adequately known, meet criteria for near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of priority status is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, for example, agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under immediate threat from known threatening processes. These species are in urgent need of further survey.

Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, for example, national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under threat from known threatening processes. These species are in urgent need of further survey.

Priority 3: Poorly-known species

Species that are known from several locations and the species does not appear to be under imminent threat or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat.

Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. These species need further survey.

Priority 4: Rare, Near Threatened and other species in need of monitoring

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as a conservation dependent specially protected species.

(c) Species that have been removed from the list of threatened species or lists of conservation dependent or other specially protected species, during the past five years for reasons other than taxonomy.

(d) Other species in need of monitoring.

Western Australian Ecological Communities

<u>Threatened Ecological Communities</u>

The BC Act provides for the statutory listing of threatened ecological communities (TECs) by the Minister.

Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally

destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

Endangered (EN)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

Vulnerable (VU)

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

Priority Ecological Communities

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community List under priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community. Ecological communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

Priority One: Poorly-known ecological communities

Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤ 100ha).

Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

Priority Two: Poorly-known ecological communities

Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

Priority Three: Poorly known ecological communities

(i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:

(ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or;

(iii) munities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

Priority Four: Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.

(i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.

(ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for a higher threat category.

(iii) Ecological communities that have been removed from the list of threatened communities during the past five years.

Priority Five: Conservation Dependent ecological communities

Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

Commonwealth of Australia Conservation Codes

Threatened Flora and Fauna

Threatened fauna and flora may be listed under Section 178 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in any one of the following six categories:

Extinct

A native species is eligible to be included in the extinct category at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.

Extinct in the wild

A native species is eligible to be included in the extinct in the wild category at a particular time if, at that time:

a) it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
b) it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.

Critically endangered

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

Endangered

A taxon is Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a very high risk of extinction in the wild.

Vulnerable

A taxon is Vulnerable when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a high risk of extinction in the wild.

Conservation dependent

A native species is eligible to be included in the conservation dependent category at a particular time if, at that time:

a) the species is the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or
b) the following subparagraphs are satisfied:
    i. the species is a species of fish;

ii. the species is the focus of a plan of management that provides for management actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;
iii. the plan of management is in force under a law of the Commonwealth or of a State or Territory;
iv. cessation of the plan of management would adversely affect the conservation status of the species.

The EPBC Act does not provide for listing in a data deficient category. Where sufficient data (evidence) is unavailable to allow assessment by the Threatened Species Scientific Committee against the criteria for listing, the species are found to be ineligible. A recommendation is made to the Minister to not include the species in any category under the EPBC Act. For reasons of transparency and to inform future research, the Threatened Species Scientific Committee publishes the names of those species found to be data deficient. As data deficient is not a listing category under the EPBC Act, this has no statutory implications and the species is not considered to be listed under the EPBC Act.

Threatened Ecological Communities

Threatened Ecological communities under the EPBC Act are listed in three categories.

Critically endangered

If, at that time, an ecological community is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years).

Endangered

If, at that time, an ecological community is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).

Vulnerable

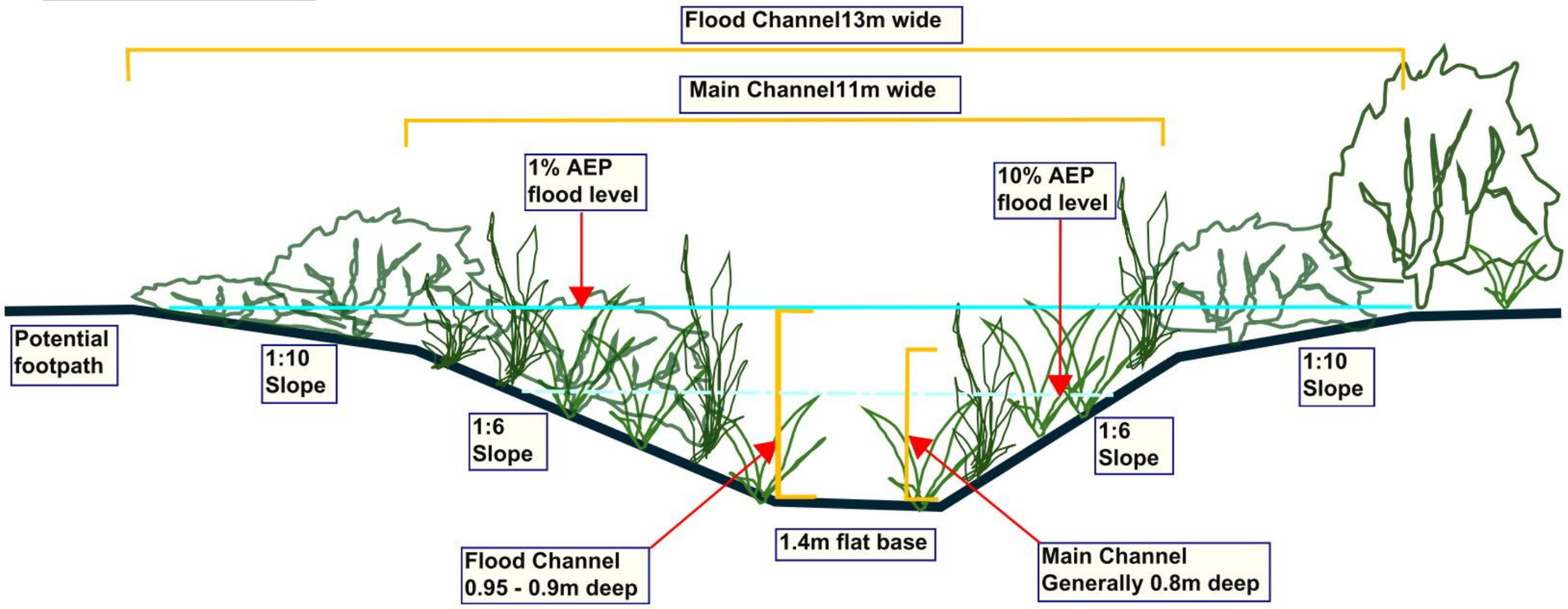
If, at that time, an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium–term future (indicative timeframe being the next 50 years).

APPENDIX 8

Creekline Cross-section

Indicative Living Stream Cross Section

Note: drawing not to scale



APPENDIX 7

Geotechnical Investigation

Report on:

GEOTECHNICAL AND ASS STUDY HATCH COURT LIGHT INDUSTRIAL AREA AND STIRLING CRESCENT PRECINCT HATCH COURT AND STIRLING CRESCENT, HIGH WYCOMBE, WA

WAG250138-01 001 R Rev0

Submitted to:

Dynamic Planning and Developments

PO Box 688

INGLEWOOD WA 6932

26 September 2025

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Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

1. INTRODUCTION

This report presents the outcomes of Galt Geotechnics' (Galt's) geotechnical and acid sulfate soils (ASS) study for the proposed Hatch Court Light Industrial Area (HCLIA) and Stirling Crescent Precinct (SCP), at Hatch Court and Stirling Crescent, High Wycombe ("the site").

This report is to be read in conjunction with the appended "Geotechnical Definitions, Recommendations, Requirements and Limitations". 'Clause GDR1', etc. refer to this Appendix, found at the back of this report.

2. KEY FINDINGS

Over most of both sites, **we encountered SAND, extending to depths of 2.0 m to over 6.2 m, overlying Guildford Formation** (interbedded stiff to hard cohesive soils and medium dense granular soils) at some locations extending beyond investigated depths. In addition to the above:

- The surficial **sand is interbedded with Cemented sand / 'Coffee Rock' layers** (about 0.3 m to 1.0 m thick) below about 2.0 m to 3.4 m depth. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations.
- **Peat / organic soils were encountered** within / adjacent the drainage line in the northern part of the HCLIA site, and within the wetland area near Lewis Road (refer Figure 1). Similar zones of organic soils could be present in lakes at the site (refer Figure 1).
- **Surficial uncontrolled fill about 1.1 m thick was encountered** in the northern corner of site at 27 Hatch Court within the HCLIA (refer Galt report referenced: WAG250256-01 001 R Rev1).

The locations of encountered coffee rock, Guildford Formation and organic soils are summarised in Attached Tables 3 to 7.

Groundwater was encountered at depths ranging from the ground surface to over 3 m. Groundwater was also observed in lakes in southern part of each site, and along drainage line in northern part of HCLIA site.

The sites are considered broadly geotechnically suitable for the proposed development (LSP amendment to industrial use). Standard site preparation measures for sand sites will apply for most of the site area. However, geotechnical challenges relevant to the proposed development are summarised as follows:

- **Peat / organic soils must be removed** if these areas are to be developed. Removal of these soils is likely to require dewatering. Management / treatment of organic / acid sulfate generating soils and acidic groundwater could also possibly be required (refer Section 12);
- **Cemented sand / 'Coffee Rock' layers could have a low permeability**, which could impact the performance of soakwells. Coffee rock also has the potential to be acid generating (if removed) and would require treatment (refer Section 12);
- **Areas of shallow groundwater have been identified** in lower lying areas. Shallow groundwater will impact temporary excavations, and compaction during construction. Dewatering is likely to be required, particularly if construction is undertaken during winter. The potential requirement for and ASSDMP is discussed in Section 12. Shallow groundwater will affect the performance of soakwells and effluent disposal. Control of groundwater levels at the site must be assessed by a suitably qualified civil engineer / hydrogeologist. Subsoil drainage could possibly be required;
- **Surficial uncontrolled fill in the northern corner of the site must be removed**, assessed by a suitably qualified engineer and environmental scientist (refer Section 12), and either removed from site, or (if suitable) reused as approved fill; and
- **Environmental considerations are** discussed in Section 12.

We do not consider that the sites are geotechnically unusual in the context of the nearby area and similar industrial developments. We do not consider that there are any major contamination encumbrances to a proposed rezoning.

3. SITE DESCRIPTION

Table 1: Summary of Site

Item	Comment
Site Extent	Refer to In-line Image 1.
Site Area	Hatch Court Light Industrial Area (HCLIA): ~30 ha (16 lots). Stirling Crescent Precinct (SCP): ~6 ha (11 lots).
Current Site Surface Elevation[1]	Around RL 20 m AHD at the north to RL 24 m AHD at the south.
Vegetation	Vegetation present in landscaped areas surrounding houses and associated infrastructure. Vegetation includes grassed areas, some mature trees and some bushes (refer Figure 1). Dense vegetation along drainage line in northern part of HCLIA site.
Current Land Use	Mostly rural-residential developments and associated infrastructure. South west part of site (Lots 614 and 584) is a hardstand area (refer Figure 1).
Site drainage	Drainage line traverses from west to east in northern part of HCLIA site. Wetland area present in western corner of HCLIA site near Lewis Road. Several damp lands are apparent from historical aerial photos (refer In-line Image 2). Localised lakes are present in southern part of both the HCLIA and SCP sites, which are judged to be expressions of groundwater.
Site History[2]	**Prior to 1979**: Site mostly pastoral / agricultural land. Three residences developed on site. **1979 to 1983**: Development of residential buildings in SCP. **1983 to 1995**: Development of Hatch Court. And associated residential lots / developments. **1995 to 2018**: Site relatively unchanged. Some additional residential buildings and associated infrastructure constructed progressively during this time. **2018**: to Construction of hardstand in western corner of site. **2018 to 2024**: progressive construction of hardstand in western part of site (Lots 614 and 584).

NOTES: ***1.*** *Site elevation based on publicly available data (Landgate).*

2. *Site history based on aerial imagery (Landgate).*



In-line Image 1: Approximate extent of subject area



In-line Image 2: Aerial photo of site in 1961. HCLA marked in red/yellow.

4. PROPOSED DEVELOPMENT

Table 2: Summary of Proposed Development

Item	Comment
Proposed Development	LSP amendment to facilitate subdivision of industrial lots with associated infrastructure
Cut/Fill	Assumed typically up to about ± 1 m. Fill is generally anticipated to be required in low lying areas to achieve adequate clearance to groundwater.
Assumed Retaining Walls	Gravity walls up to about 2 m high
Assumed Stormwater Disposal	Possibly on site via soakwells with overflow to regional drainage.
Assumed Sewage Disposal	On site via leach drains

5. PROJECT OBJECTIVES

The objective of the geotechnical study is to assess the geotechnical suitability of the site for the proposed development. Our scope is limited to undeveloped portion of the HCLIA (i.e. excludes Lots 614 and 584)) and entirety of the SCP.

The objectives of the environmental assessment are to investigate the risk of acid sulfate soils (ASS) across the site through soil and groundwater analysis and provided recommendation for the treatment of ASS of groundwater (if required). No specific infrastructure is proposed at this stage, therefore the assessment is high level for the general assessment of ASS.

Comment is also required on the potential contamination risk within the HCLIA and SCP.

6. PREVIOUS STUDIES

Galt has previously undertaken a number of geotechnical studies for individual lots within and adjacent the site as summarised below:

- **Located within site:**
  - 27 Hatch Court in May 2025 (report reference: WAG250256-01 001 R Rev1);
  - Lots 8 and 16 Stirling Crescent in November 2024 (report reference: WAG240438-01 001 R Rev2);
- ***Located north of site / not within site:***
  - 71 Stirling Crescent in March 2023 (report reference: WAG230133-01 001 R Rev1); and
  - Part of Lot 1499 Stirling Crescent in September 2023 (report reference: WAG230463-01 002 R Rev1).

Test locations from the above reports are shown on Figure 1. Relevant information from the above studies are incorporated into this report.

7. FIELDWORK

7.1. General

Fieldwork was carried out on 25 August and 05 September 2025 and is summarised below.

Table 3: Summary of Fieldwork

Type	Results Appendix	Summary	GDR Clause	Equipment Used	No. Tests	Depth Range (m)
Site Plan	Figure 1	-	-	Hand held GPS[1]	-	-
Photographs	A	-	-	-	-	-
Cone Penetration Tests (CPTs)	B	Section 9.4	GDR3.2	Pagani TG 73-200	16	2.34 to 5.20
Boreholes (BH)	C	Section 9.4	GDR3.3	EVH Scout on utility / 7822DT / Hand Auger	14	1.30 to 3.00
Monitoring Wells (MW)	C	Section 7.3	-	7822DT	3[2]	3.00
Constant Head Permeameter Tests (G)	D	Section 7.2	GDR3.8	Guelph Permeameter	7	0.38 to 0.57

NOTES: ***1.*** *Hand held GPS is accurate to ±5 m.*

2. *One groundwater monitoring well location was unavailable for sampling after installation.*

7.2. Permeability Test Results

Table 4: Permeability Test Results (Constant Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
G01/BH01	SAND (SP)	0.38	25.01	1
G02/BH02	SAND (SP-SM)	0.42	*0.94*[3]	*3*[3]
G03/BH03	SAND (SP)	0.57	9.05	1
G05/BH05	SAND (SP)	0.44	*0.44*[3]	*4*[3]
G07/BH15	SAND (SP)	0.53	9.82	1
G09/BH09	SAND (SP)	0.52	3.94	1
G10/BH10	SAND (SP)	0.47	3.53	1
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
G01	SAND (SP)	0.33	3.56	1
G02	SAND (SP)	0.41	2.82	2
G03	SAND (SP)	0.40	3.31	1
71 Stirling Crescent in March 2023 (WAG230133-01 001 R Rev1, *located north of site / not within site)*				
IT01	SAND (SP)	0.50	1.6	2
IT02	SAND (SP)	0.50	2.1	2
IT03	SAND (SP)	0.55	3.3	1
IT04	SAND (SP)	0.60	2.8	2
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
G01	SAND (SP)	0.44	5.11	1
G02	SAND (SP)	0.50	3.17	1
G03	SAND (SP)	0.39	3.26	1
G04	SAND (SP)	0.40	10.95	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, *located north of site / not within site)*				
G01	SAND (SP)	1.00	3.9	1
G01A	SAND (SP)	0.80	2.3	2
G01B	SAND (SP)	0.53	> 15	1
G02	SAND (SP-SM)	0.90	*0.07*[4]	*-*[4]
G02A	SAND (SP)	0.70	1.74	2
G02B	SAND (SP)	0.70	1.67	2
G02C	SAND (SP)	0.50	>15	1

NOTES:

1. *Constant head Guelph Permeameter tests were carried out in hand-auger boreholes in accordance with Appendix G of AS1547 (2012) "On-site domestic wastewater management".*
2. *Soil type is as per Table 5.2 of AS1547-2012.*
3. *Test results likely to have been influenced by shallow groundwater*
4. *Result considered spurious.*

Table 5: Permeability Test Results (Falling Head)

Test Location	Soil Description	Depth (m)	Minimum Saturated Hydraulic Conductivity, k_{sat} (m/day)	Soil Category[2]
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)				
BH02 / IT01	SAND (SP)	0.84	3.9	1
BH07 / IT02	SAND (SP)	0.90	3.8	1
BH08 / IT03	SAND (SP)	0.84	31.3	1
BH05 / IT04	SAND (SP)	0.84	4.7	1
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)				
BH07 / IT01	SAND (SP)	0.88	> 15	1
BH08 / IT02	SAND (SP)	0.86	6.3	1
BH10 / IT03	SAND (SP)	0.82	3.9	1
BH16 / IT04	SAND (SP)	0.77	7.1	1
BH06 / IT06	SAND (SP)	0.77	> 15	1
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1, l*ocated north of site / not within site)*				
IT01	SAND (SP)	0.95	10.6	1
IT02	SAND (SP)	1.00	9.4	1

NOTES: ***1.*** *Soil type is as per Table 5.2 of AS1547-2012*

2. *Test method described in GDR3.7.*

3. *Test results likely to have been influenced by shallow groundwater*

7.3. Soil Sampling

Soil samples for the ASS study were collected from selected boreholes in accordance with the following guidelines:

- Department of Environmental Regulation (DER) (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes and;*
- Department of Agriculture and Water Resources (DAWR) (2018) National Acid Sulfate Soils Guidance.

Samples collected for acid sulfate soils testing were collected at 0.25 m intervals using dedicated nitrile gloves and placed in laboratory-supplied sample bags. The samples were then placed in an ice chilled cooler in the field, and then transferred to a freezer until field testing was undertaken. All samples scheduled for analysis were transported to the laboratory with sufficient packaging and ice to ensure preservation of sample integrity. The lateral borehole distribution is considered appropriate for the project and in accordance with the aforementioned regulatory guidelines.

7.4. Acid Sulfate Soil Field Testing

A small portion of each soil sample was tested for pH before (pH_F) and after (pH_{FOX}) rapid oxidation with hydrogen peroxide (H_2O_2). The samples were then placed in an ice chilled cooler until submission to the laboratory for chromium reducible sulfur (CRS) analysis.

Samples with field pH values (pH_F) of <3 to 4 indicate the presence of ASS, thus indicating acids in the soil profile have oxidised.

The presence of unoxidized acids or potential acid sulfate soil (PASS) is indicated if:

- a strong reaction with hydrogen peroxide is observed;
- the pH_{FOX} is at least 1 pH unit below pH_F; or
- the pH_{FOX} is <3 to 4 and one or both of the above conditions apply.

The texture based net acidity action criteria presented in the DER (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes* guideline document specifies a value of 0.03 %S based on the anticipated volume of soil to be disturbed being greater than 1,000 tonnes. This value has been adopted for the assessment of net acidity in soils across the site.

7.5. Groundwater Monitoring Wells

Groundwater monitoring wells were installed in boreholes drilled Geoprobe 6620 DT drill rig supplied and operated by Direct Push Probing.

Wells were constructed using 50 mm, class 18 flush-threaded PVC with a 2.5 m screened interval was installed at the base of each well and finished with approximate 0.6 to 0.7 m solid section extending to the surface. Refer to Appendix C for more information on construction details for each well.

A submersible pump was used to remove fine sediments and filter sand from the well. Groundwater levels were measured more than 7 days after installation and development to allow the water in the well to reach hydrostatic levels (refer Attached Table 3).

7.6. Groundwater Sampling

The groundwater wells were sampled in accordance with the following Australian Standards:

- AS/NZS 5667.1:1998 Water Quality Sampling. Part I – Guidance on the Design of Sampling Programs, Sampling Techniques and the Preservation and Handling of Samples; and
- AS/NZS 5667.11:1998 Water Quality Sampling. Part II – Guidance on the Sampling of Groundwater. Groundwater samples were recovered using low-flow methods.

The pump was set at the centre of the screened interval and drawdown measured concurrently whilst pumping to ensure the pump flow rates were less than the recharge capacity of the well. An initial flow rate in the order of 0.5-1.0 L/min was used and adjusted as appropriate to ensure minimal drawdown (<0.1m) during purging. New nitrile disposable gloves were used at each monitoring well location.

Representative samples for laboratory analysis were collected after stabilisation of groundwater physio-chemical parameters was achieved. Measurements of these parameters including temperature, pH, electrical conductivity, redox potential and dissolved oxygen, were taken every 60 seconds using appropriately calibrated equipment.

Stabilisation of groundwater parameters is considered to be achieved when there is less than 10% variation in physiochemical parameters between three successive readings. The groundwater physio-chemical parameters were recorded which included physical observations such as colour and turbidity of the purged water, any indications of the presence of contamination, including odour, sheen, the presence of any foreign material or objects, any quality assurance/quality control (QA/QC) sampling and the unique sample identifier.

Groundwater samples were collected directly from the low-flow pump into appropriately preserved and labelled, laboratory supplied bottles and filled to zero headspace. Samples that required field filtering were collected using an in-line, single-use, 0.45 µm filter.

All samples were stored in an ice chilled cooler during fieldwork and submitted to the laboratory at the conclusion of the field work, with adequate packing to ensure that they arrived intact and at the appropriate temperature to ensure sample preservation.

8. LABORATORY TESTING

8.1. Geotechnical

Geotechnical and chemical laboratory testing of soil samples was undertaken by Western Geotechnical and Laboratory Services (WGLS) and Envirolab Services (WA) at their NATA accredited laboratory. Laboratory test results along with the test methods followed are presented in Appendix E and summarised in Attached Tables 1 and 2.

Chemical test results from previous studies are also included in Attached Table 2.

8.2. Environmental

Environmental laboratory testing was conducted by Eurofins laboratory using the chromium reducible sulfur (CRS) method which provides acid base accounting and quantification of potential acid generation. The selection of samples for laboratory analysis was based on soil type and the results of field testing. Groundwater samples were also analysed by Eurofins laboratory for the Department of Water – Groundwater Quality Suite. All laboratory analysis was undertaken using NATA-accredited methods of analysis.

Laboratory certificate of analysis are presented in Appendix F.

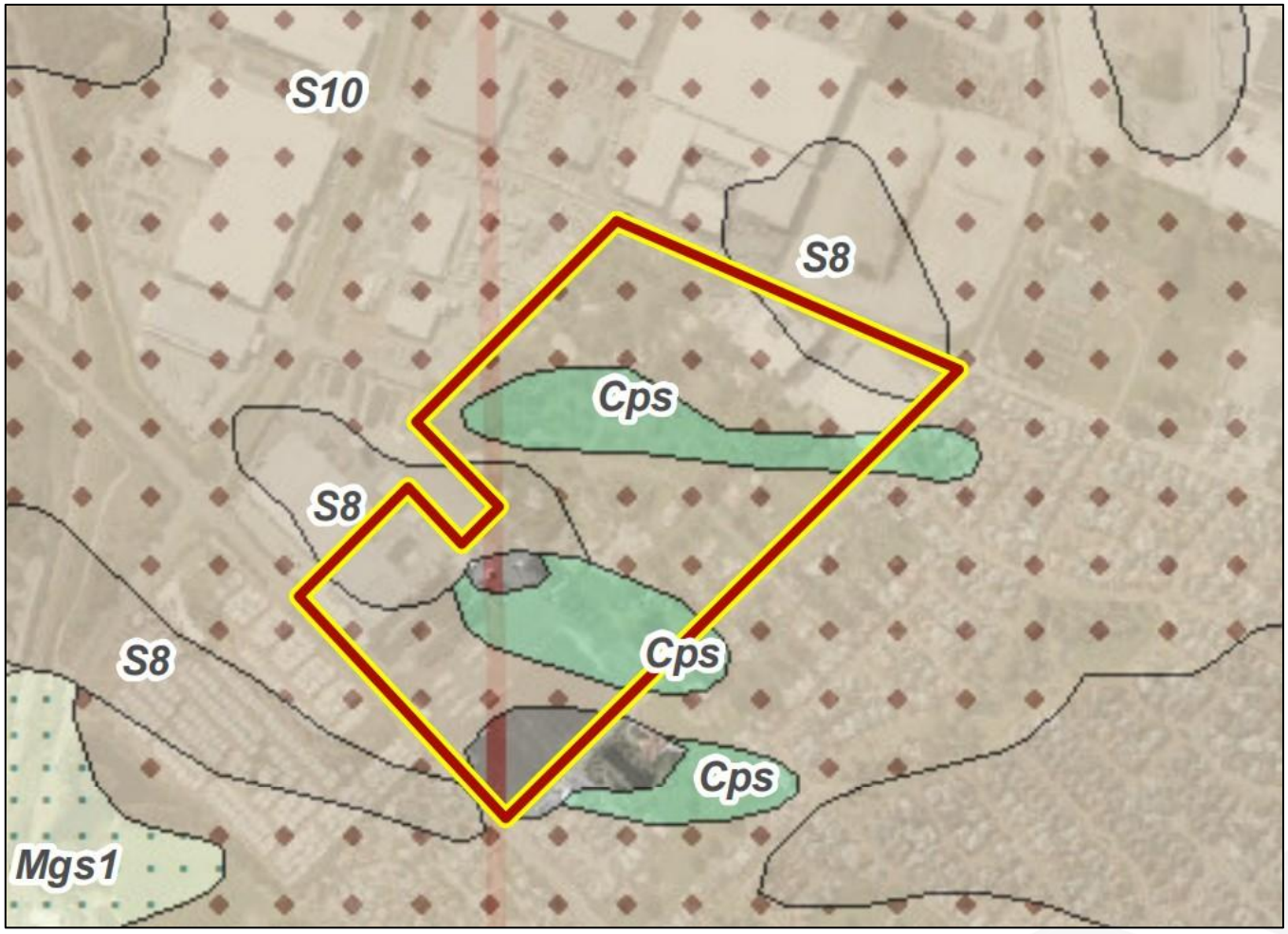
9. SITE CONDITIONS

9.1. Geology

Table 6: Summary of Geology Mapping

Map Sheet	Map Scale	Mapped Soils
Perth	1:50,000	Refer In-Line Image 3 for distribution of following units: **- Cps**: Peaty CLAY: "*dark grey and black with variable sand content of lacustrine origin [Swamp Deposits (Qhw)]*" **- S8**: Bassendean SAND: "*very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin*" **- S10**: "*Thin Bassendean Sand over Guildford formation*"

***NOTE**: Encountered subsurface profile discussed in Section 9.4.*



In-line Image 3: Excerpt from Perth 1:50,000 scale environmental geology map. HCLIA marked in red/yellow.

9.2. Groundwater

Table 7: Summary of Groundwater Levels

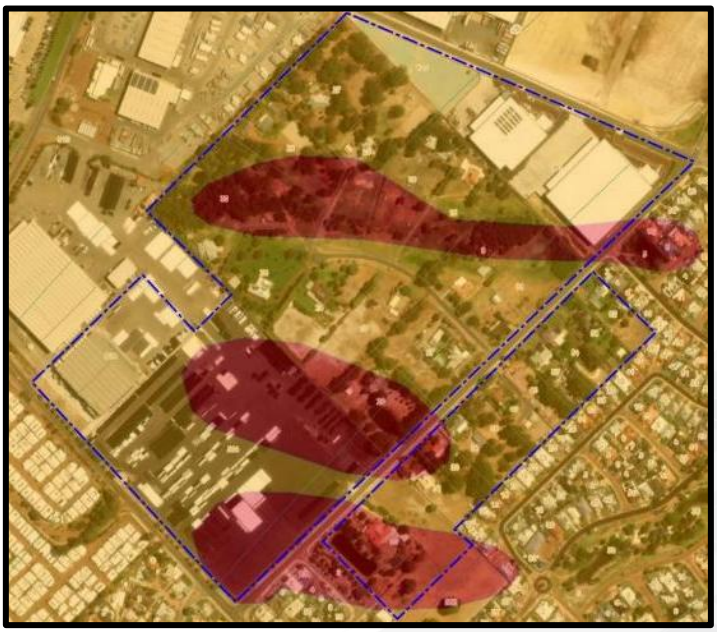
Item	Date	Depth Range (m)	Elevation Range (m AHD)	Comment
Perth Groundwater Atlas	2004	-	North: 13 South: 15	Inferred from levels measured in monitoring wells near the end of summer in 2004 only.
	2019		North west: 15.0 to 17.0 South east: 18.5 to 19.5	Inferred from maximum and minimum levels measured in monitoring wells in 2019 only.
DBCA Mapping	-	-	-	Most of the site are mapped as "Sumpland/Dampland", defined as a seasonally inundated/waterlogged area.
Site observations	Aug/Sept 2025	-	Surface to > 3 (Refer Attached Tables 3 to 7)	Groundwater also observed in lakes in southern part of site, and along drainage line in northern part of site. Groundwater could perch on underlying clay / clayey soils at the site.
Recommended Design	-	-	-	Design groundwater levels for the site must be assessed by a suitably qualified civil engineer and / or hydrologist. Subsoil drains and / or table drains could possibly be required.

NOTES: ***1.*** *Perth Groundwater Atlas observations based on monitoring wells which are not located at the site.*

2. *Elevation range for site observations is based on depth and site levels during fieldwork*

9.3. Acid Sulfate Soils

According to the DWER online ASS risk database, the HCLIA and SCP sites are is generally mapped as being within an area of 'moderate to low' ASS risk (highlighted in yellow in In-line Image 4 below) , with part of the site identified as having 'high to moderate' risk (highlighted in red in In-line Image 4 below) within the upper 3 m of the soil profile. High risk areas are judged to be associated with potential organic soils mapped in these areas (refer Section 9.1).



In-line Image 4: ASS Risk Mapping (DWER Database)

9.4. Contamination

The DWER contaminated sites database indicates that the site is not registered as a contaminated site. We note that the public database only shows sites classified as 'Remediated for restricted use', 'Contaminated – restricted use', 'Contaminated – remediation required'.

We understand that the site is likely to be redeveloped for commercial/light industrial purposes and as such, the site is unlikely to be changing to a more sensitive land use.

During fieldwork there were no visual or olfactory indicators of potential contamination. We note that some uncontrolled fill is present in the northern corner of the site. This may require investigation if anthropogenic waste is encountered within the material and/or it is proposed to be reused onsite.

10. GROUND MODEL

The encountered subsurface conditions are summarised in Attached Tables 3 to 7, ad can be generalised as follows:

Most of HCLIA and SCP Sites:

- Surficial Topsoil / Hardstand / Sand Fill Layers; over
- **SAND (SP / SP-SM)**: fine to medium grained, sub angular to sub rounded, typically grey, typically trace fines, typically loose to depths of about 0.5 m to 2.5 m and then becomes typically medium dense, extending to depths of 2.0m to over 6.2 m; with
  - **Interbedded layers of cemented sand / 'Coffee Rock'**: encountered at some locations as cemented layer of sand typically with a higher fines content (i.e. Silty SAND in some zones) about 0.3 m to 1.0 m thick (where penetrated) and below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7 for locations encountered). Coffee rock inferred from CPT refusal at some locations. Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. Layer underlain by sand; over
- **Guildford Formation interbedded CLAY / Clayey SAND / Sandy CLAY / SAND Layers (SP/SC/CL-CH)**: typically stiff to hard cohesive layers and medium dense sand layers, locations of encountered Guildford Formation summarised in Attached Tables 3 to 7.

HCLIA - within / adjacent drainage line and wetland area[1]:

Variable organic soils were encountered as follows:

- **CPT01**: Possible inferred organic soil layer from 0.9 m to 1.2 m depth;
- **BH02**: Trace organics in Clayey SAND from 0.9 m to 2.0 m depth;
- **BH04**: Organic Clayey SAND from 0.7 m to 1.4 m depth
- **BH12/MW01**: PEAT from 0.0 m to 0.6 m depth, and then Organic SAND from 0.6 m to 1.4 m depth.

Notes:

- [1] Drainage line traverses from west to east in northern part of site (refer Figure 1). Wetland area present in western corner of site near Lewis Road. Similar zones of organic soils could be present in lakes at the site (Refer Table 1).
- [2] An area of surficial uncontrolled fill about 1.1 m thick was encountered in the northern corner of site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1);

11. GEOTECHNICAL ASSESSMENT

The HCLIA and SCP sites are considered geotechnically suitable for redevelopment as industrial land, provided appropriate site preparation is done. Standard site preparation measures for sand sites will apply for most of the site. Geotechnical challenges relevant to the proposed development are summarised as follows:

- **Peat / organic soils** were encountered within / adjacent the drainage line in the northern part of the HCLIA site, and within the wetland area near Lewis Road (refer Figure 1). Similar zones of organic soils could be present in lakes at the site (refer Figure 1 – could also extend to lake in south of SCP). If these areas are to be developed, organic soils will need to be removed from the site. We note that organic soils are likely to be acid sulfate generating, and therefore would require treatments (refer Section 12). Dewatering is also likely to be required to enable remediation of these areas;
- **Cemented sand / 'Coffee Rock'** layers (about 0.3 m to 1.0 m thick) interbedded within the sand were encountered below about 2.0 m to 3.4 m depth (refer Attached Tables 3 to 7). Associated uncemented zones of discoloured brown / black sand with a higher fines content were also encountered in some locations. These materials could have a low permeability, which could impact the performance of soakwells. Coffee rock also has the potential to be acid generating (if removed) and would require treatment (refer Section 12);
- **Areas of shallow groundwater** have been identified in lower lying areas (refer Table 7 and Attached Table 3). Shallow groundwater will impact temporary excavations, and compaction during construction. Dewatering is likely to be required, particularly if construction is undertaken during winter. The potential requirement for and ASSDMP is discussed in Section 12. Shallow groundwater will affect the performance of soakwells and effluent disposal. Control of groundwater levels at the site must be assessed by a suitably qualified civil engineer / hydrogeologist. Subsoil drainage could possibly be required;
- **Surficial uncontrolled fill** about 1.1 m thick was encountered in the northern corner of site at 27 Hatch Court (refer Galt report referenced: WAG250256-01 001 R Rev1). Uncontrolled fill must be removed, assessed by a suitably qualified engineer and environmental scientist (refer Section 12), and either removed from site, or (if suitable) reused as approved fill; and
- **Environmental considerations** are discussed in Section 12.

Geotechnical recommendations for the site are summarised in the Table 8.

Table 8: Summary of Geotechnical Assessment

Type	Clause	Parameter	Comment
Site Suitability	-	-	We consider both sites to be geotechnically suitable for the proposed development with appropriate site preparation measures. Standard site preparation measures will apply for most of the site (refer further comments above table).
Site Classification (AS2870)	GDR5	A / P	Class A for most of each site. Class P in drainage lines, wetland areas and lakes (refer Table 1). The site classification in these areas could be improved if organics soils are removed and replaced.
Site Subsoil Class (AS1170.4)	-	Ce	-
Site Preparation	GDR6	-	**For most of the site**: preparation will comprise **GDR6.2.1 Common Measures** followed by **GDR6.2.2 Sand Sites.** Surficial uncontrolled fill in the northern part of the site must be remediated (refer Galt report referenced: WAG250256-01 001 R Rev1). We anticipate raising of the site above shallow groundwater levels by importation and compaction of sand fill (**Permeable Sand**), however this is subject to civil design. **In drainage lines, wetland areas and lakes (refer Table 1):** If these areas are to be developed, organic soils present in these areas (refer Section 9.4) will need to be removed and replaced with approved fill. Dewatering and treatment of water / soil for acid sulfates will also be required (refer Section 12).

Type	Clause	Parameter	Comment
Footing Preparation and Testing	GDR6.4	-	We expect the base of footings at this site to be entirely within sand. We refer you to GDR6.4.1. A PSP may be used to verify compaction in footing excavations as discussed below.
Topsoil Strip	GDR6.2.1	Thickness = 100 mm	Expected thickness of topsoil strip (average).
Compaction Control	GDR7	-	Requirements for "Sand" as per GDR7 Compaction control at this site may be done using a Perth sand penetrometer (PSP). The target blow counts for "Bassendean Sand" are applicable as per **GDR7.4 Perth Sand Penetrometer.**
Approved Fill	GDR8	Permeable Sand or General Sand	Approved fill at this site is to comprise **Permeable Sand** (where stormwater disposal is required) or **General Sand** (where stormwater disposal is not required) as per **GDR8 Approved Fill and Conformance Testing.** The insitu sand is suitable for reuse as **General Sand**, and as likely to have an unsaturated hydraulic conductivity of approximately 3 m/day when compacted. **Further permeability testing of recompacted insitu sand is required to derive a design hydraulic conductivity value.**
Excavations, batters and slopes	GDR12	1V:2H (temporary) 1V:3H (permanent)	Excavations in sand should be readily achievable to 2 m with 15 ton excavator or similar. The batter angles given are for slopes up to 2 m high and above groundwater. Refer to **GDR12 Excavations, Batters and Slopes** for more information. **Dewatering will be required for excavations in lower lying areas of shallow groundwater.**
Unsaturated Hydraulic Conductivity	GDR13	k_{unsat} = 3 m/day for isolated soakwells, and k_{unsat} = 5 m/day for interconnected soakwells.	k_{unsat} values apply where disposing into natural grey sand, minimum 0.5 m above the groundwater table, coffee rock layers (or overlying perched water) or black / brown sand layers near the groundwater table as per GDR13.4.
Pavement Subgrades	GDR16	CBR = 10%	For subgrades of granular pavements comprising compacted approved fill / insitu sand.
Acid Sulfate Soils	-	Refer Section 12	Management of acid sulfate soils is likely to be required during construction.

NOTES: ***1.*** *q_{all} – allowable bearing pressure (maximum for all footings, refer to footing tables for further details)*

12. PRELIMINARY ENVIRONMENTAL ASSESSMENT

12.1. Soil

The field-testing results are summarised in Table 9 below and presented in Appendix G. Laboratory certificates of analysis are presented in Appendix H

Table 9: Summary of Soil Field Results

Field pHf range	Field pHfox range	pH change	Laboratory pH range	Maximum Net Acidity (%S)
4.7 – 8.5	2.6 – 6.5	1.0 – 5.8	4.0 – 9.5	<0.02 – 0.14

Laboratory analytical results indicate that the net acidity in all samples, except BH16/3.0 (0.14%S) were below the laboratory limit of reporting (LOR) and/or below the maximum net acidity of 0.03%S.

Tabulated results are presented in Appendix G.

12.2. Groundwater

Groundwater at the site was encountered at depths ranging from 0.28 to 1.15 m below ground level with a pH ranging from 6.18 – 7.16. Mildly elevated inherent acidity along with high to very high alkalinity concentrations were noted at

both monitoring locations indicating that groundwater will likely have sufficient self-buffering capacity to maintain an acceptable pH in the event of ASS generation.

Elevated concentrations of aluminium and iron indicate that historical oxidation of ASS may have occurred at the site. Concentrations of chloride were found to exceed non-potable use of groundwater guidelines in MW01 (330 mg/L).

Groundwater field parameters are presented in Appendix H and tabulated groundwater results are presented in Appendix I.

12.3. Summary

Based on the findings of the study and previous experience with ASS identification, coffee rock and organic soils at the site are considered to be ASS.

13. RECOMMENDATIONS

We recommend a more detailed investigation of ASS is conducted in the event that deep disturbances and/or dewatering are required as part of future development at the site. The need for this will mainly depend on the filling regime and disturbances in the drainage lines and lakes present at the site.

14. CLOSURE

GALT GEOTECHNICS





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Geotechnical Engineer

Tyrone Mardesic CPEng
Geotechnical Engineer

https://galtgeo.sharepoint.com/sites/wag250138/shared documents/01 dpd si/03 correspondence/wag250138-01 001 r rev0.docx

Attached Table 1: Summary of Geotechnical Index Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)	LS (%)	Org %	MMDD (t/m^3)	OMC (%)	CBR (%)	CBR Swell (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	4	71	25	28	5	2.5	-	-	-	-	-
BH03	1.5 to 1.8	SAND (SP)	-	98	2	-	-	-	-	-	-	-	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	2	66	32	46	6	3.0	10.7	-	-	-	-
BH06	0.6 to 1.0	SAND (SP-SC)	2	92	6	-	-	-	1.2	-	-	-	-
BH10	1.0 to 1.5	SAND (SP)	-	99	1	-	-	-	-	-	-	-	-
G07	0.5 to 0.6	SAND (SP)	-	97	3	-	-	-	0.4	-	-	-	-
G10	0.4 to 0.5	SAND (SP)	1	94	5	-	-	-	1.1	-	-	-	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)													
BH04	0.3 to 0.5	SAND (SP)	0	95	5	-	-	-	1.7	-	-	-	-
BH06	1.0 to 1.4	SAND (SP)	0	96	4	-	-	-	0.5	-	-	-	-
BH07	0.3 to 0.7	SAND (SP)	6	92	2	-	-	-	2.7	-	-	-	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)													
G01	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
BH16	0.1 to 0.5	(SP) SAND	0	96	4	-	-	-	-	-	-	-	-
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***													
BH01	0.1 to 0.5	SAND (SP)	1	96	3	-	-	-	-	1.76	12.5	20	0.0
BH03	0.6 to 1.2	SAND (SP)	-	95	5	-	-	-	-	-	-	-	-
BH04	0.1 to 0.4	SAND (SP)	-	96	4	NO	NP	0.0	-	-	-	-	-
BH06	0.5 to 1.2	SAND (SP)	-	97	3	NO	NP	0.0	-	-	-	-	-
BH07	0.0 to 0.4	SAND (SP)	1	96	3	-	-	-	-	1.73	14.5	19	0.0
G02	0.2 to 0.6	SAND (SP-SM)	5	89	6	-	-	-	-	-	-	-	-

Notes

1. *Particle size distribution (by mass)*
   - *Gravel: 2.36 mm – 63 mm*
   - *Sand: 0.075 mm – 2.36 mm*
   - *Fines: <0.075 mm*
2. *Atterberg Limits*
   - *LL: Liquid limit*
   - *PI: Plasticity index*
   - *LS: Linear shrinkage*
   - *NO: Not obtainable*
   - *NP: Non-plastic*
3. *Org: Organic content (by mass)*
4. *Modified compaction*
   - *MMDD: Modified maximum dry density*
   - *OMC: Optimum moisture content*
6. *CBR: California bearing ratio*
   - *Remoulding dry density ratio: 95% MMDD*
   - *Surcharge: 6.75 kg*
   - *Soaking: 4-day soaked*

Attached Table 2: Summary of Chemical Test Results

Test Name	Sample Depth (m)	Soil Class (AS1726 2017)	Electric Conductivity (us/cm)	pH	Phosphorus Retention Index	Exchangeable Sodium Percentage (%)
BH02	1.0 to 1.5	Clayey SAND (SC)	300	8.4	21	-
BH04	1.0 to 1.4	Organic Clayey SAND (SC)	1000	4.8	200	-
BH06	0.5 to 1.0	SAND (SP-SC)	110	7.3	4.0	-
G07	0.5 to 0.6	SAND (SP)	14	7.8	0.5	-
G10	0.4 to 0.5	SAND (SP)	73	7.7	1.5	-
27 Hatch Court in May 2025 (WAG250256-01 001 R Rev1)						
G01	0.3	SAND (SP)	66	6.6	-0.14	-
G03	0.4	SAND (SP)	60	6.6	-0.48	-
Lots 8 and 16 Stirling Crescent in November 2024 (WAG240438-01 001 R Rev2)						
G01	0.1 to 0.5	SAND (SP)	32	5.8	-0.11	Not Reportable
BH16	0.1 to 0.5	SAND (SP)	36	6.2	-0.25	Not Reportable
Part of Lot 1499 Stirling Crescent in September 2023 (WAG230463-01 002 R Rev1). ***Located north of site (not within site).***						
BH04	0.1 to 0.4	SAND (SP)	-	-	0.62	-
G02	0.2 to 0.6	SAND (SP-SM)	-	-	1.2	-

Attached Table 3: Summary of encountered conditions (August / September 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])	Organic Soil layers (m BGL[1])
CPT01	5.1	0.60	0.9 to 1.2 and from 4.0	possibly from 0.9 to 1.2
CPT02	5.1	0.40	3.0	-
CPT03	5.1	1.70	2.2	-
CPT04	5.1	Collapsed[2]	***3.5***[4]	-
CPT05	2.3	0.60	-	-
CPT06	5.1	0.80	***2.0***[4]	-
CPT08	5.1	0.20	-	-
CPT09	5.1	1.40	***3.4***[4]	-
CPT10	5.1	0.20	-	-
CPT12	5.1	0.60	-	-
CPT13	5.1	0.00	4.2	-
CPT14	5.1	0.80	4.1	-
CPT15	5.1	0.80	***3.2***[4]	-
CPT16	3.0	1.10	***2.8***[4]	-
CPT19	5.1	0.80	-	-
CPT20	5.1	0.80	***2.2***[4]	-
BH01	3.0	2.10	-	-
BH02	3.0	0.80	0.9	0.9 to 2.0 - trace organics in clayey sand
BH03	3.0	1.60	***2.6***[4]	-
BH04	3.0	0.10	0.7	0.7 to 1.4 Organic clayey sand
BH05	1.3	0.60	-	-
BH06	3.0	0.40	2.6	-
BH09	3.0	1.30	-	-
BH10	3.0	1.60	-	-
BH11	3.0	1.00	-	-
BH12 / MW01	3.0	1.00	0.0 to 1.4 and 2.6	Peat from 0.0 to 0.6, Organic sand from 0.6 to 1.4
BH13	3.0	0.90	-	-
BH14 / MW03	3.0	0.28	2.0	-
BH15	3.0	1.10	-	-
BH16 / MW02	3.0	1.15	***2.0***[4]	-

NOTES:

1. *'BGL' – below current ground level*

2. *CPT probe hole collapsed before groundwater could be measured.*

3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*

4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*

5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Thicker surficial organic layers encountered near / within drainage line in northern part of site as summarised above. Refer to appendices for further details.*

Attached Table 4: Summary of encountered conditions at 27 Hatch Court (May 2025)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey soil (m BGL[1])
BH01	3	1.7	-
BH02	3	-	-
BH03	3	-	-
BH04	3	1.9	2.8
BH05	3	2.8	-
BH06	3	-	-
BH07	3	2.7	-
BH08	3	-	-
CPT01	6.5	collapsed	6.2
CPT02	5.8	collapsed	2.2
CPT03	6.3	collapsed	6.1
CPT04	6.4	collapsed	3.5
CPT05	6.4	collapsed	6.2
CPT06	6.4	collapsed	2.2

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG250256-01 001 R Rev1 for further details.*

Attached Table 5: Summary of groundwater depths during fieldwork at 71 Stirling Crescent (March 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of cemented[4] soil (m BGL[1])
BH01	1.7	-	***1.7[4]***
BH02	2.0	-	-
BH03	2.0	-	-
BH04	1.0	-	***1.0[4]***

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, inferred from borehole refusal.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230133-01 001 R Rev 1 for further details.* ***Investigation located north of site (not within site).***

Attached Table 6: Summary of groundwater depths during fieldwork at Lots 8 & 16 Stirling Crescent (November 2024)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	3.00	-	-
BH02	3.00	-	-
BH03	3.00	-	-
BH04	3.00	-	-
BH05	2.70	1.2	-
BH06	3.00	-	-
BH07	3.00	-	-
BH08	2.00	-	***2.0***[4]
BH09	3.00	-	-
BH10	3.00	-	-
BH11	3.00	-	-
BH12	3.00	-	-
BH13	3.00	-	-
BH14	2.88	-	***2.5***[4]
BH15	2.30	-	***2.2***[4]
BH16	3.00	-	-
CPT01	6.90	-	6.5
CPT02	2.70	collapsed	***1.8***[4]
CPT03	6.20	collapsed	6.0
CPT04	6.20	collapsed	-
CPT05	6.20	collapsed	-
CPT06	6.20	collapsed	***3.0***[4]
CPT07	2.83	collapsed	***2.8***[4]
CPT08	2.86	collapsed	***2.8***[4]
CPT09	2.91	collapsed	***2.9***[4]
CPT10	2.51	collapsed	***2.5***[4]

NOTES:

1. *'BGL' – below current ground level*

2. *CPT probe hole collapsed before groundwater could be measured.*

3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*

4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*

5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG240438-01 001 R Rev2 for further details.*

Attached Table 7: Summary of groundwater depths during fieldwork at part of Lot 1499 Stirling Crescent (September 2023)

Test Location	Hole Depth (m)	Depth to Groundwater (m BGL[1])	Depth to top of clay / clayey or cemented[4] soil (m BGL[1])
BH01	2.0	-	-
BH02	2.0	1.7	-
BH03	2.0	1.1	-
BH04	2.0	1.9	-
BH05	2.0	1.9	-
BH06	2.0	-	-
CPT01	3.2	collapsed	***3.0***[4]
CPT02	8.4	2.5	***2.5 to 3.5***[4], and from 8.0
CPT03	3.0	collapsed	***2.8***[4]
CPT04	8.2	1.9	-
CPT05	8.2	collapsed	***3.4 to 4.0***[4] and 5.6
CPT06	2.7	collapsed	***2.6***[4]
CPT07	8.2	1.7	4.0

NOTES:

1. *'BGL' – below current ground level*
2. *CPT probe hole collapsed before groundwater could be measured.*
3. *CPT probes may not have had sufficient time to recharge to hydrostatic levels.*
4. *Coffee rock layer, typically about 0.3 m to 1.0 m thick, and underlain by sand. Coffee rock inferred from CPT refusal at some locations.*
5. *Investigation typically encountered thin surficial fill / topsoil sand over clay / clayey or cemented soil layers as stated in table above. Refer Report WAG230463-01 002 R Rev1 for further details.* ***Investigation located north of site (not within site).***

Figures





Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

N

0 50 100 150 200 250
Meters

NOTES
Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250	(A3)
DRAWN	CED	
DATE DRAWN	11/9/2025	
CHECKED	–	
DATE CHECKED	–	
PROJECTION	GDA 1994 MGA Zone 50	

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CLIENT	**DYNAMIC PLANNING AND DEVELOPMENTS**
PROJECT	LSP AMENDMENT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**



Legend

- Site Boundary
- Borehole
- Machine Auger Borehole
- Cone Penetration Test
- Direct Push Borehole / Groundwater Monitoring Well
- Machine Auger Borehole / Guelph Permeameter
- Guelph Permeameter

WAG250256-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Guelph Permeameter

WAG240438-01-TLF

- Borehole
- Borehole / Standpipe
- Cone Penetration Test
- Guelph Permeameter
- Guelph Permeameter / Standpipe
- Infiltration Test

WAG230463-01-TLF

- Borehole
- Borehole / Infiltration Test
- Cone Penetration Test
- Permeability Test
- Sediment Sample

WAG230133-01-FTL

- Borehole
- Borehole / Infiltration Test
- Infiltration Test

NOTES

Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:3,250 (A3)
DRAWN	CED
DATE DRAWN	11/9/2025
CHECKED	–
DATE CHECKED	–
PROJECTION	GDA 1994 MGA Zone 50

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CLIENT	**DYNAMIC PLANNING AND DEVELOPMENTS**
PROJECT	LSP AMENDMENT
LOCATION	51 STIRLING CRESCENT HIGH WYCOMBE
TITLE	SITE & LOCATION PLAN WITH PREVIOUS GALT TEST LOCATIONS

Job No	Fig No	Rev
WAG250138-01	FIGURE 1	**A**

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Appendices

Appendix A: Site Photographs

Photograph 1: Site photo near BH13. Water ponded at ground surface



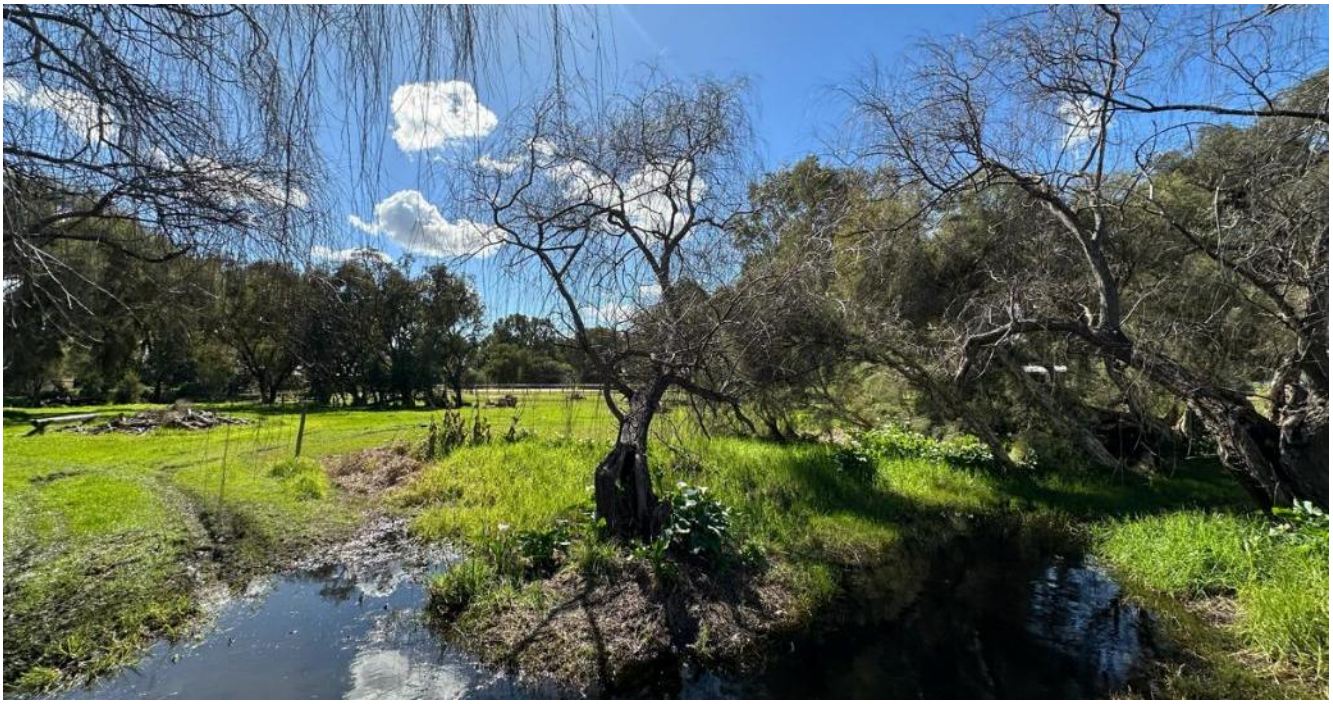
Photograph 2: Near BH02 facing west. Wetland area near Lewis Road.



Photograph 3: Near BH01 facing south east



Photograph 4: Near CPT01 facing north. Wetland area near Lewis Road / drainage line in northern part of site.



Photograph 5: Near BH04 facing north



Photograph 6: Near CPT08 facing west. Drainage line adjacent borehole.



Photograph 7: Near BH10 facing east



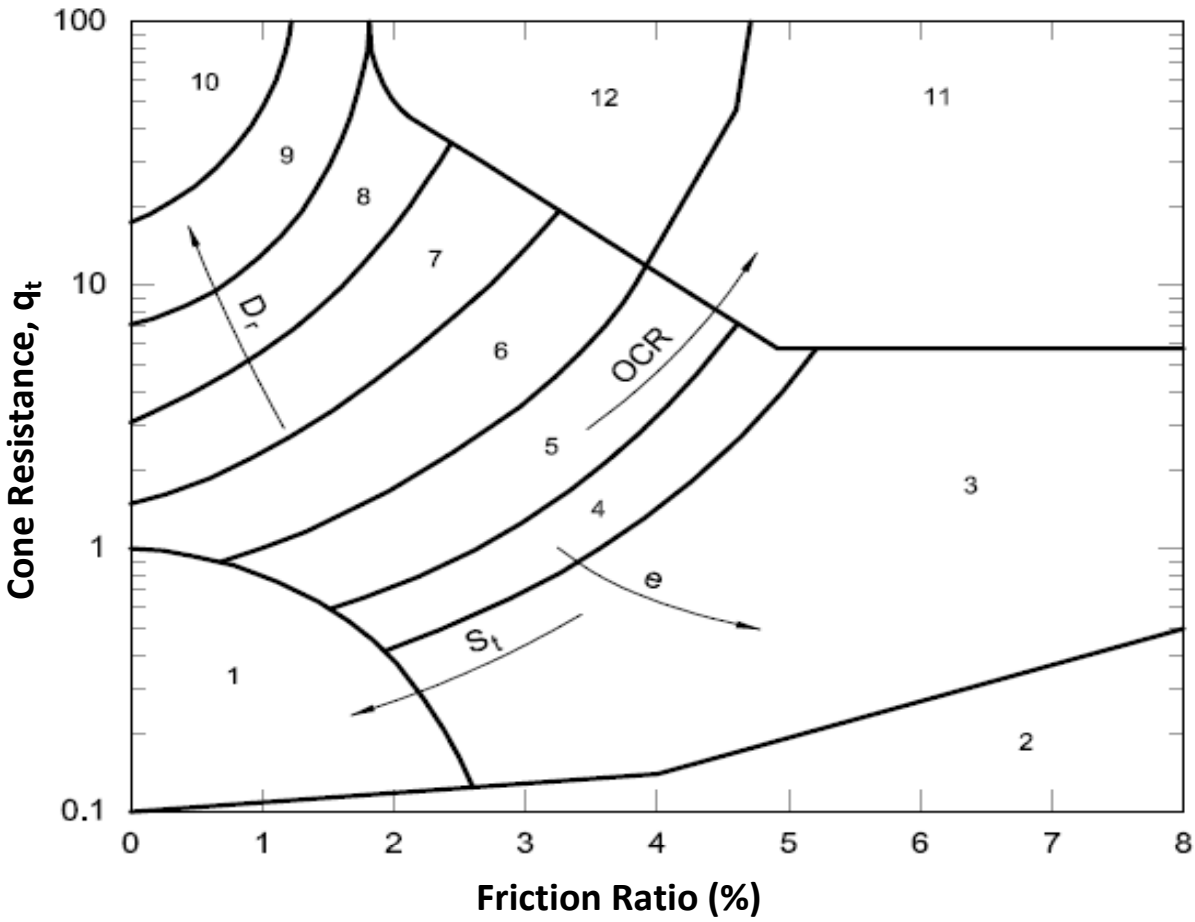
Photograph 8: Near BH15 facing south east



Photograph 9: Near BH06 facing south west



Appendix B: CPT Test Results



DEFINITIONS

q_t : Cone tip resistance corrected for pore water pressure
S_t : Sensitivity
e : Void ratio
D_r : Relative density
OCR : Overconsolidation ratio
OC : Overconsolidated

SOIL BEHAVIOUR TYPE ZONES

1. Sensitive fine grained
2. Organic material
3. Clay
4. Silty clay to clay
5. Clayey silt to silty clay
6. Sandy silt to clayey silt
7. Silty sand to sandy silt
8. Sand to silty sand
9. Sand
10. Gravelly sand to sand
11. Very stiff fine grained material (OC/cemented)
12. Sand to clayey sand (OC/cemented)

NOTES

A. Some overlap in type zones is expected
B. Local correlations are preferred and may indicate soil type boundaries that are different from those shown above

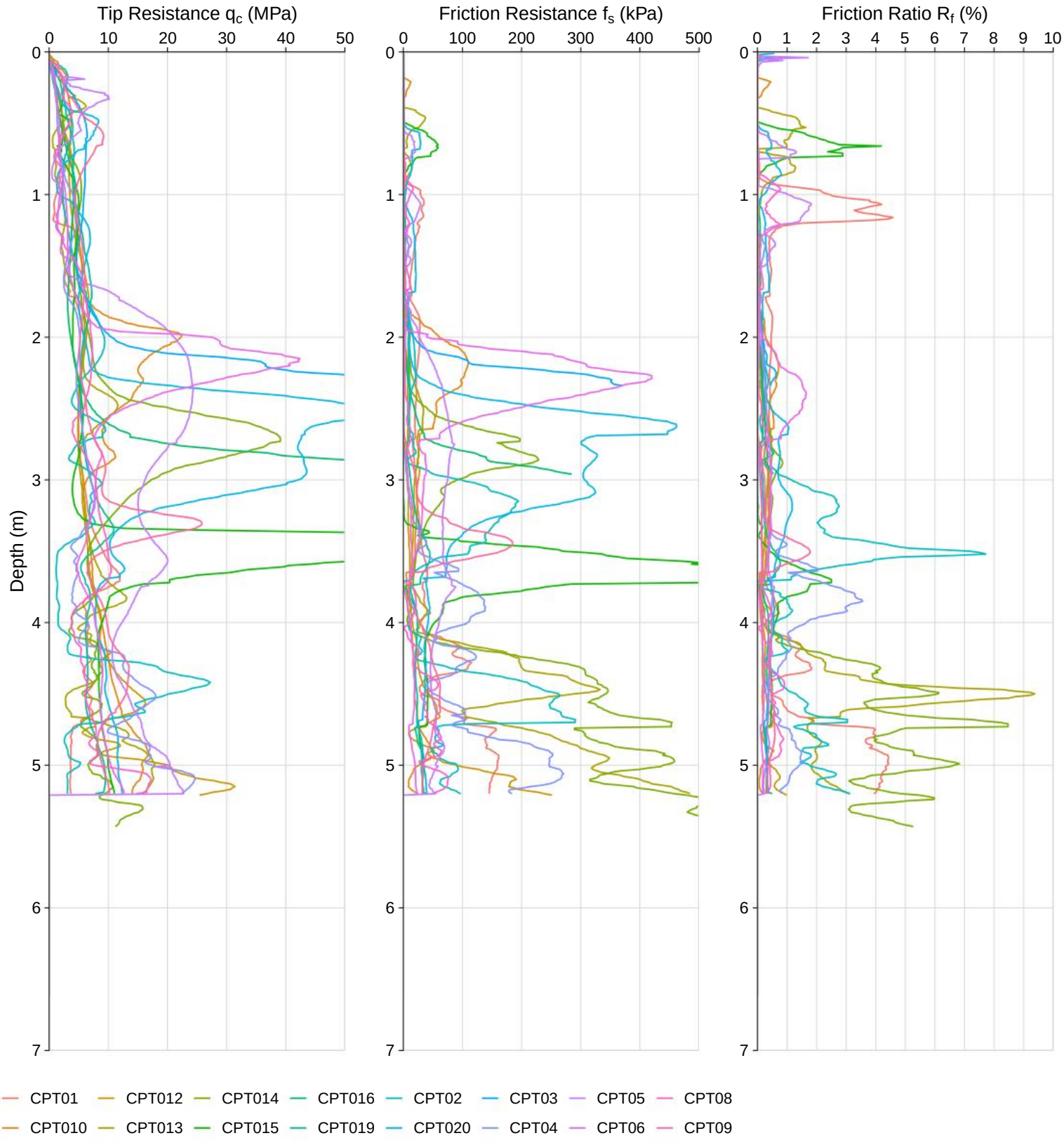
Reference: Robertson, P.K., Campanella, R.G., Gillespie, D. and Grieg, J. (1986) "Use of Piezometer Cone Data". Proceedings of the ASCE Speciality Conference In Situ '86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE)

Galt GEOTECHNICS

CONE PENETRATION TESTING (CPT) SOIL TYPE INTERPRETATION

CONE PENETRATION TEST

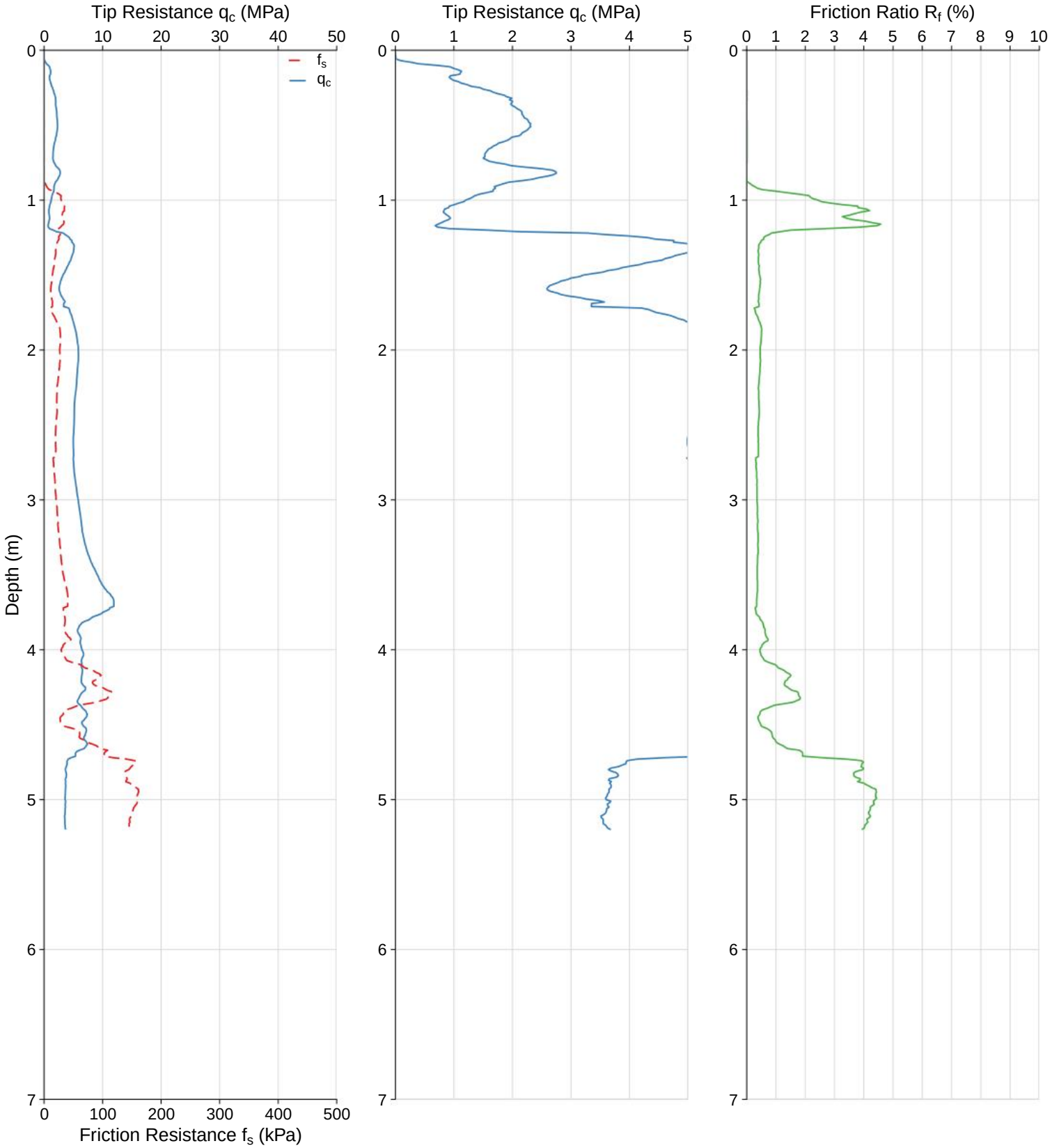
ALL TESTS		**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



RIG: Pagani TG 73-200 200kN

CONE PENETRATION TEST

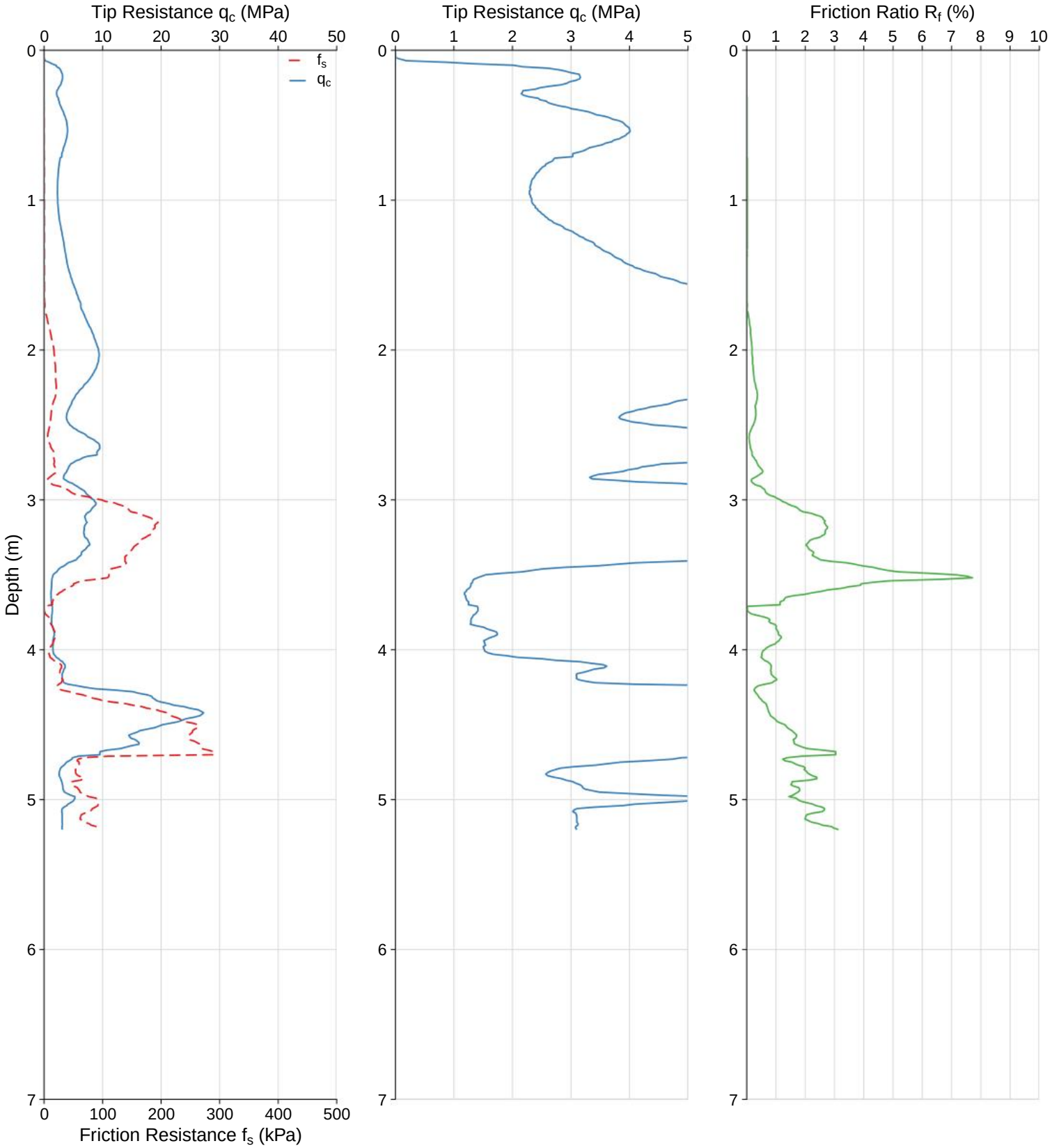
CPT ID:	CPT01	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

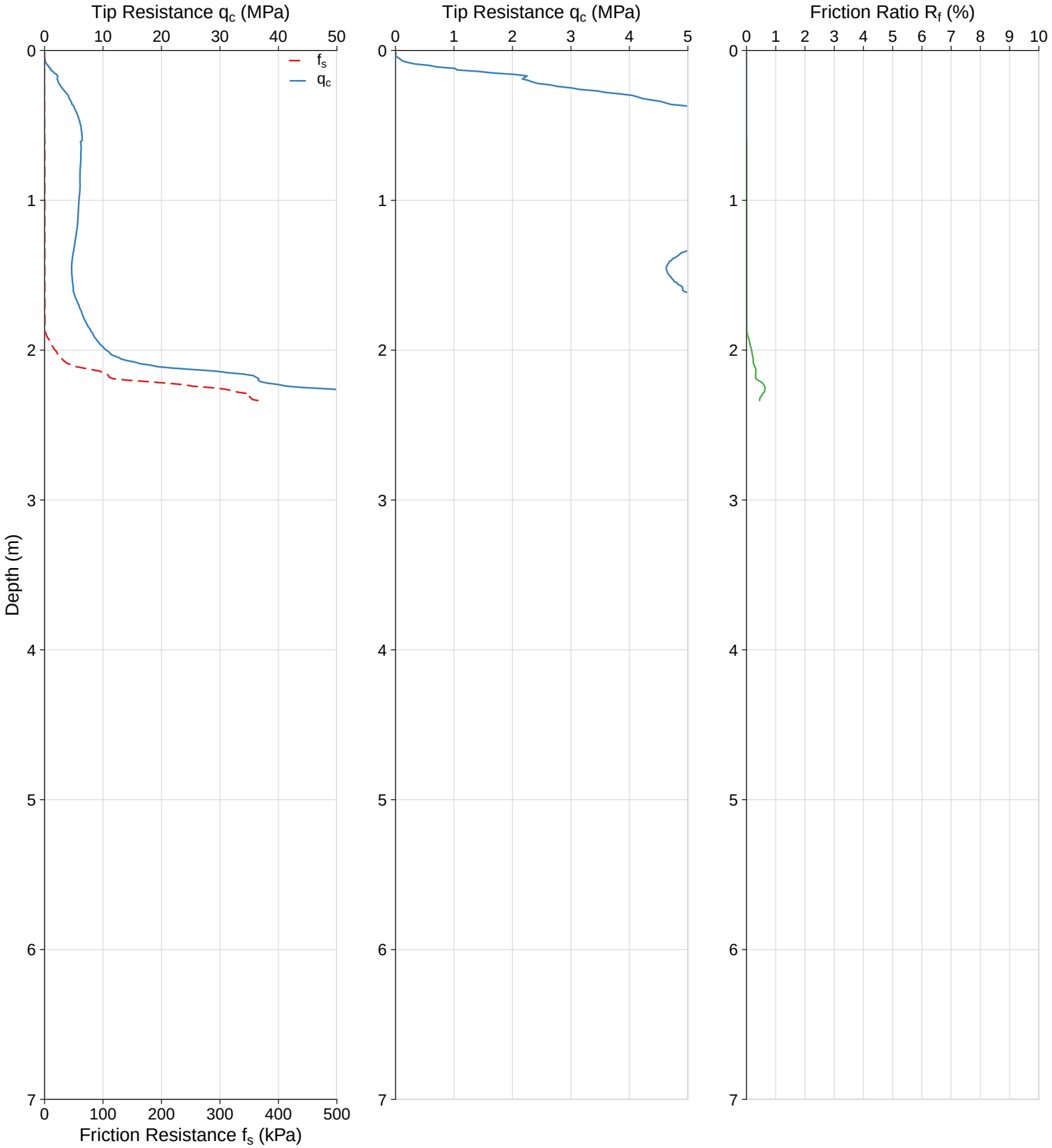
CPT ID:	CPT02	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

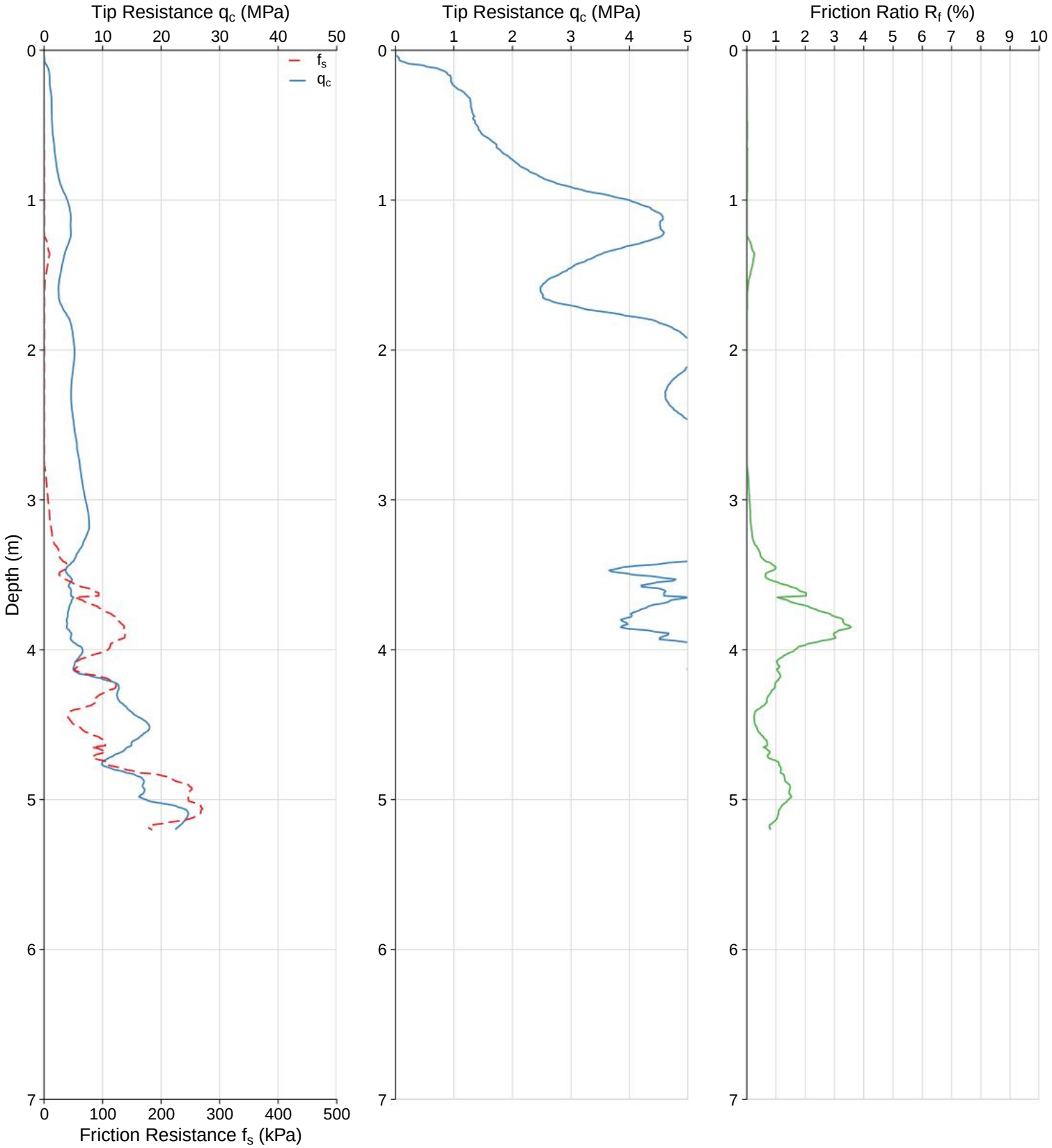
CPT ID:	CPT03	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.7m	**CO-ORDS:**	
TERMINATION:	Refused, 2.34m	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

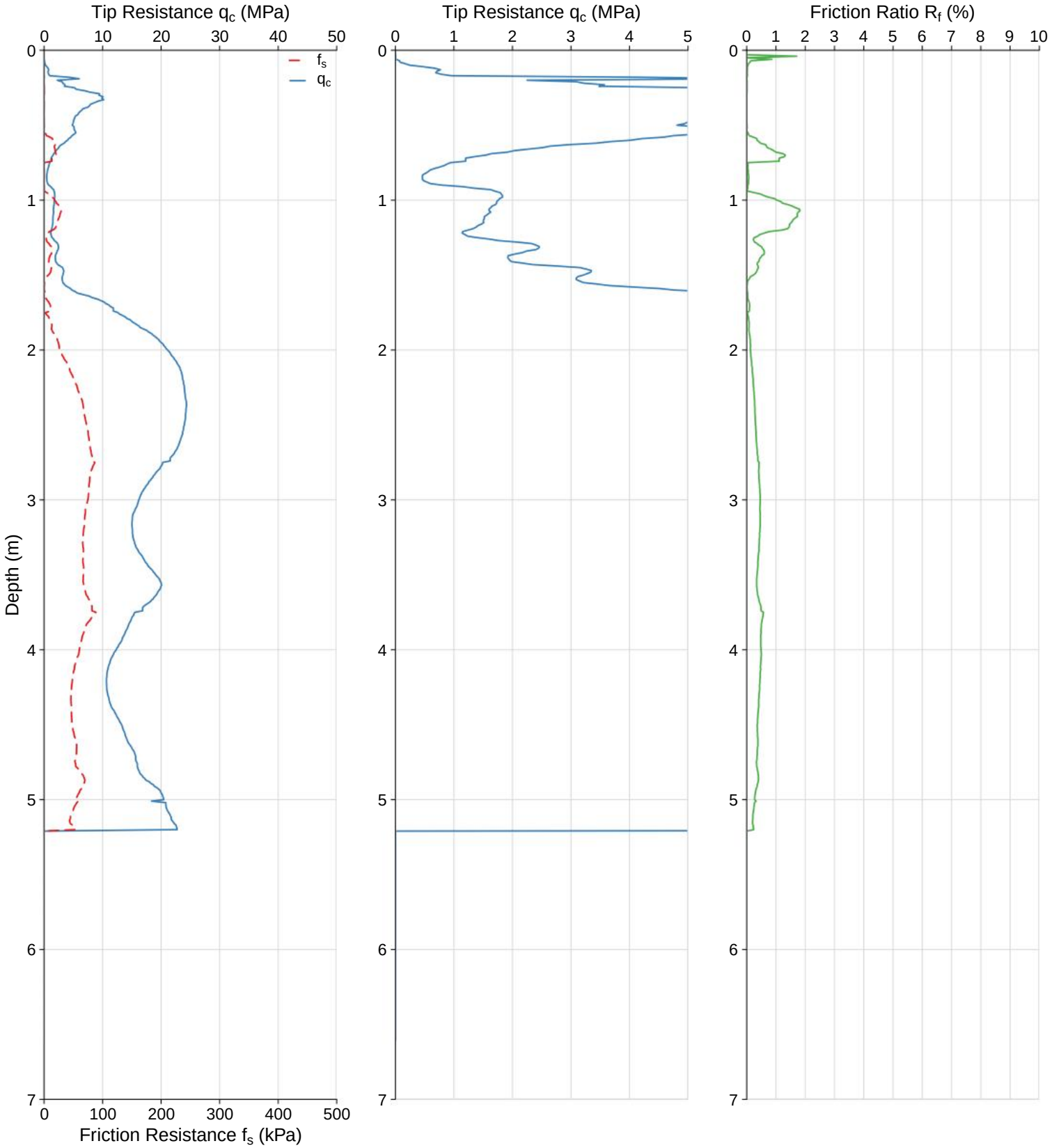
CPT ID:	CPT04	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

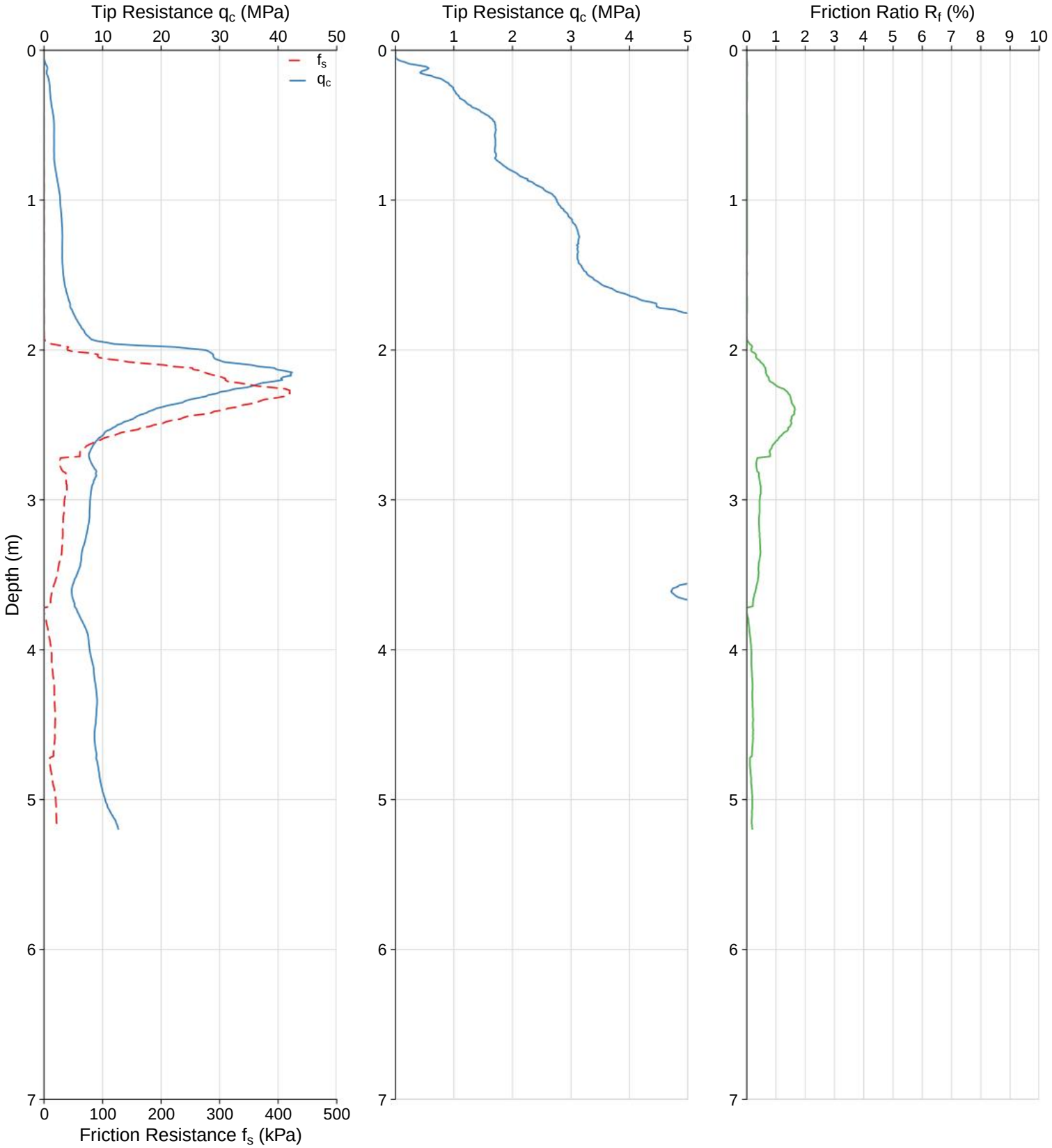
CPT ID:	CPT05	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

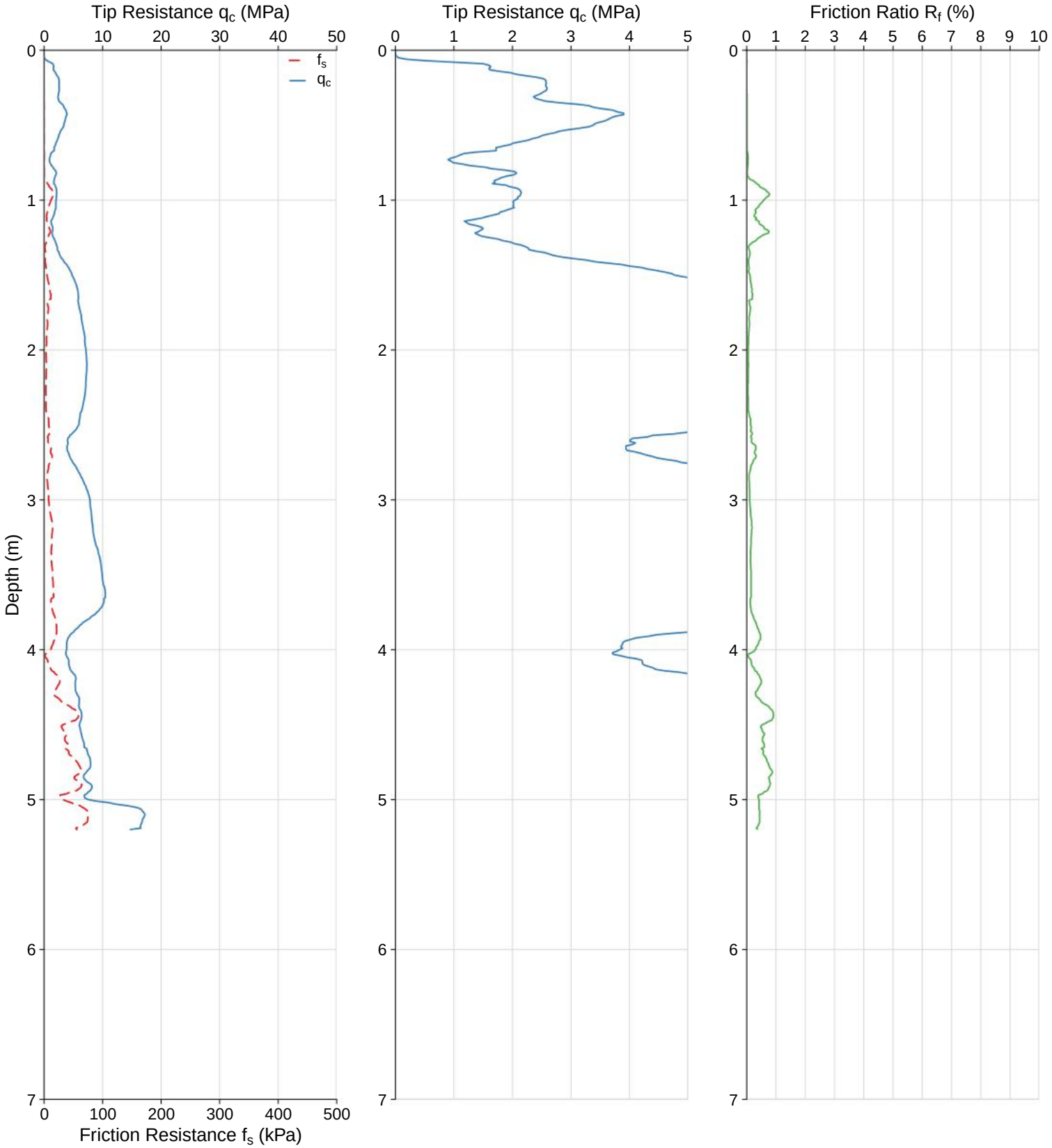
CPT ID:	CPT06	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

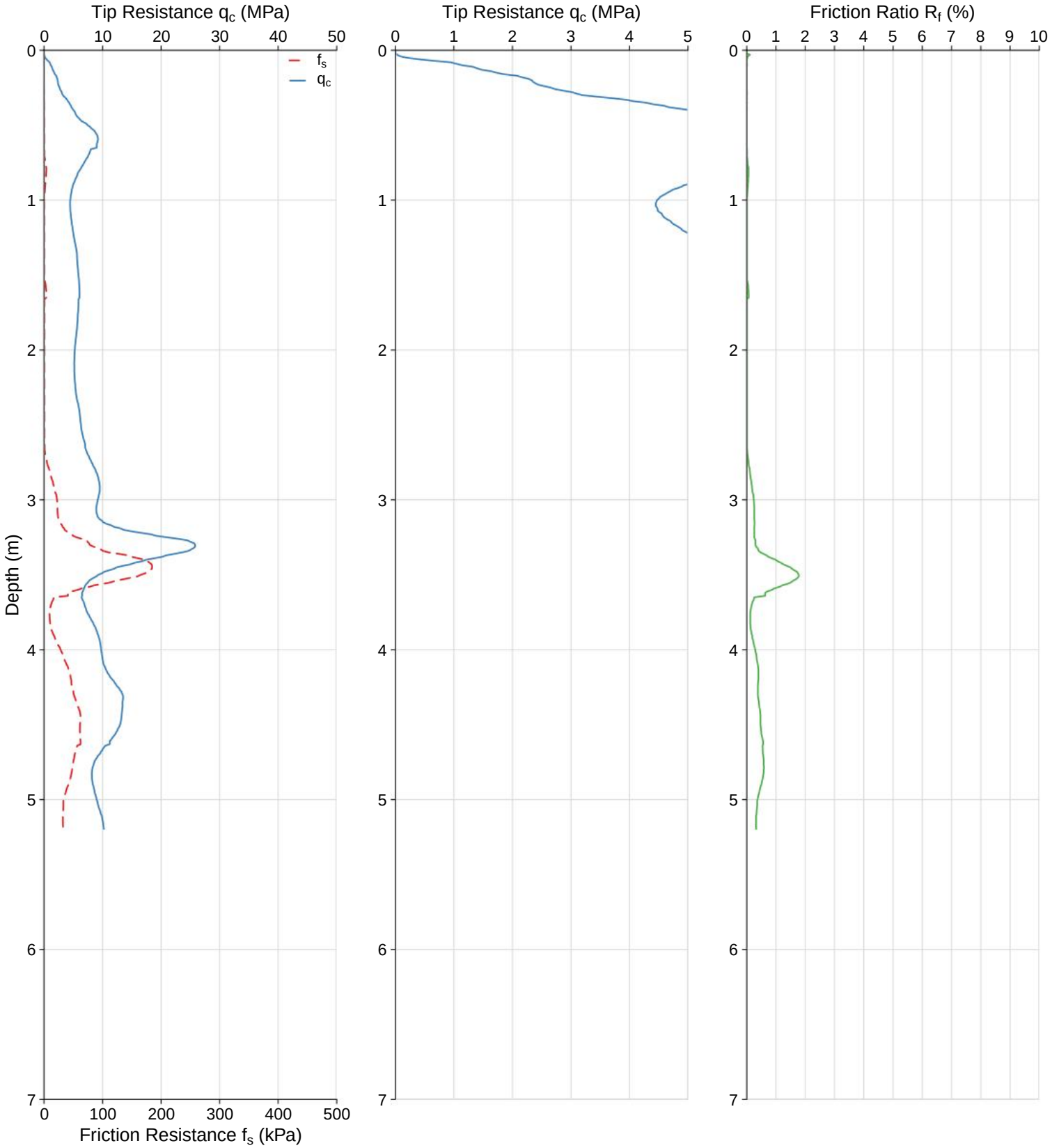
CPT ID:	CPT08	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

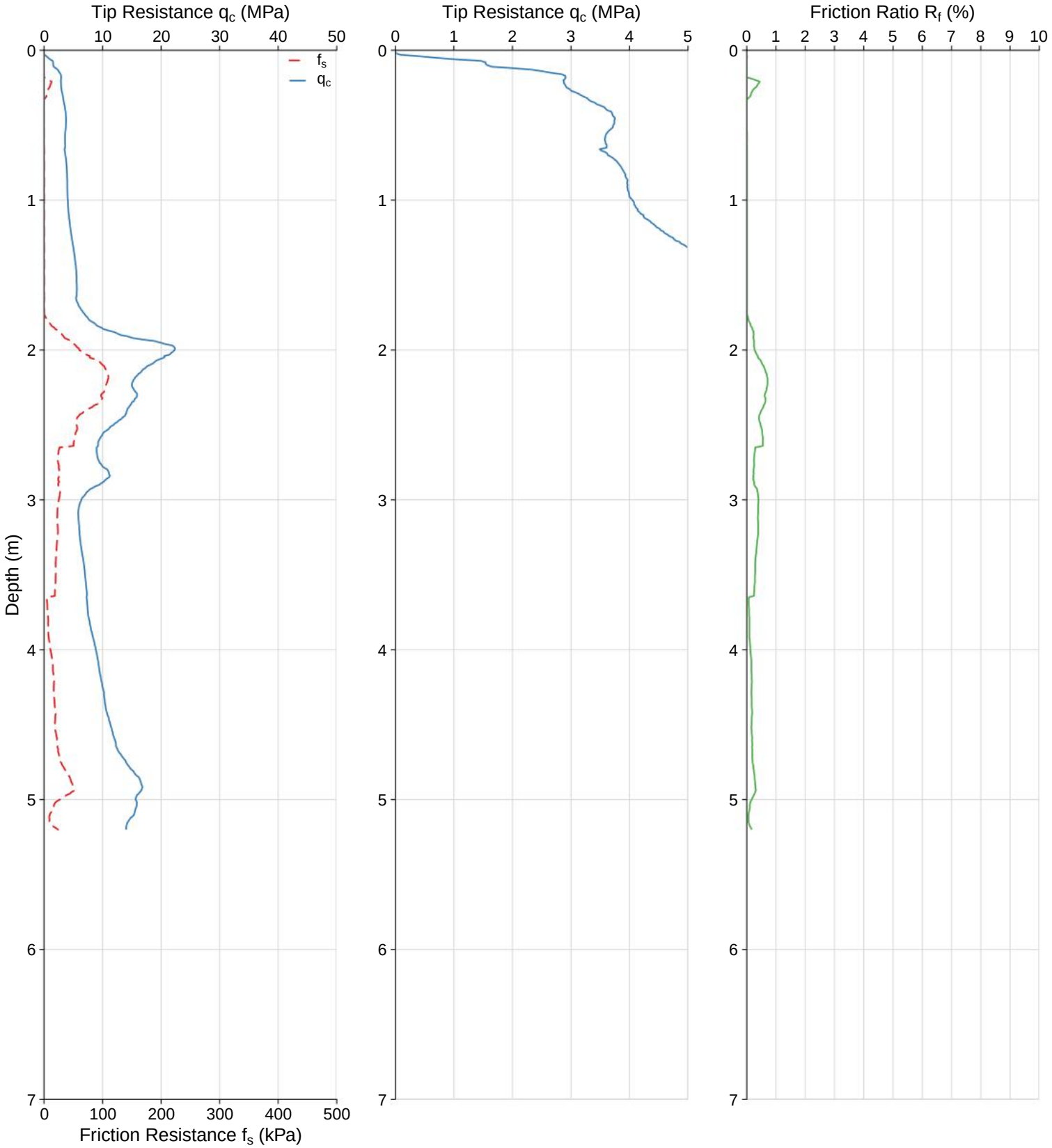
CPT ID:	CPT09	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 1.4m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

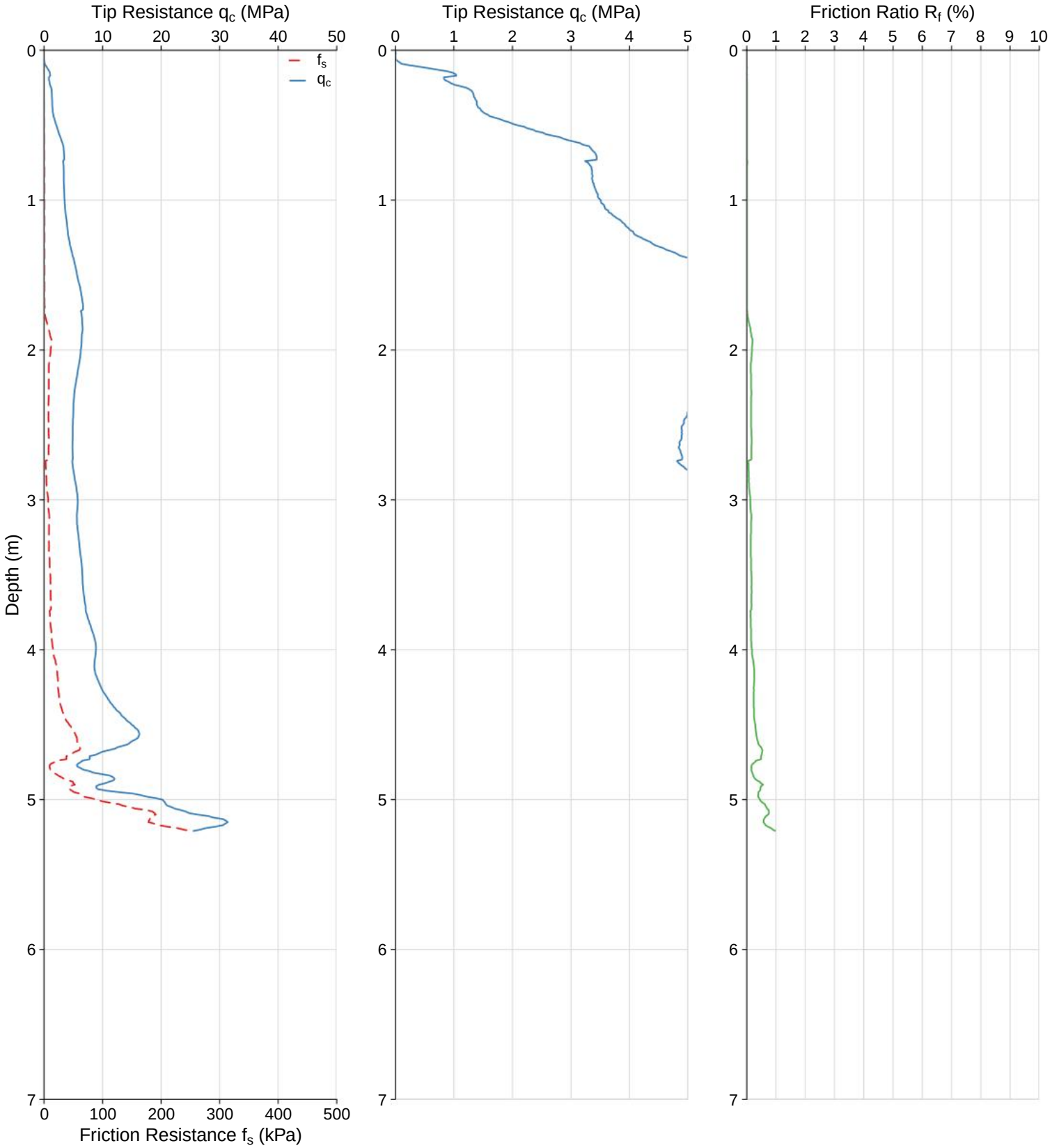
CPT ID:	CPT010	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.2m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

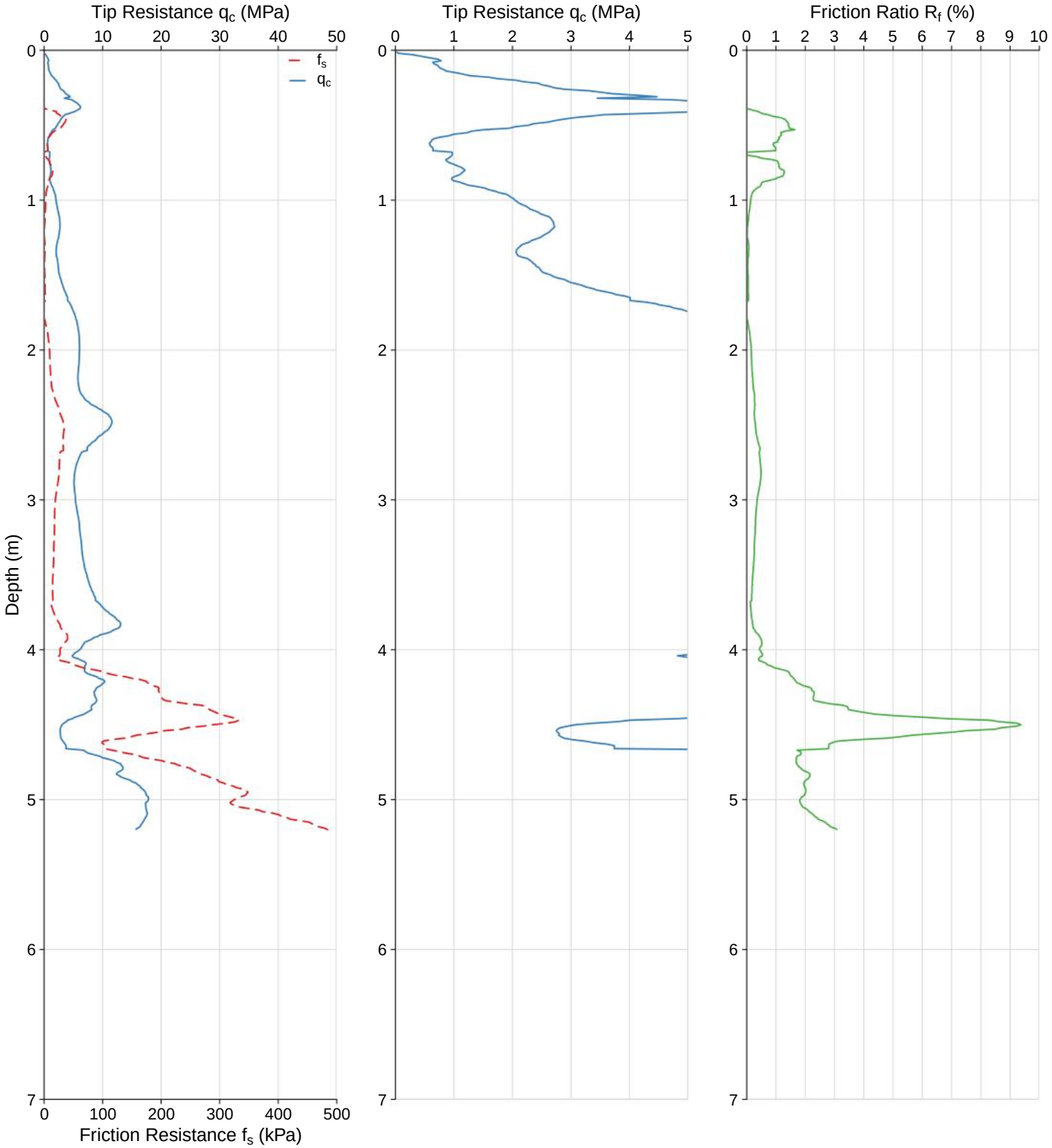
CPT ID:	CPT012	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Collapsed, water at 0.6m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

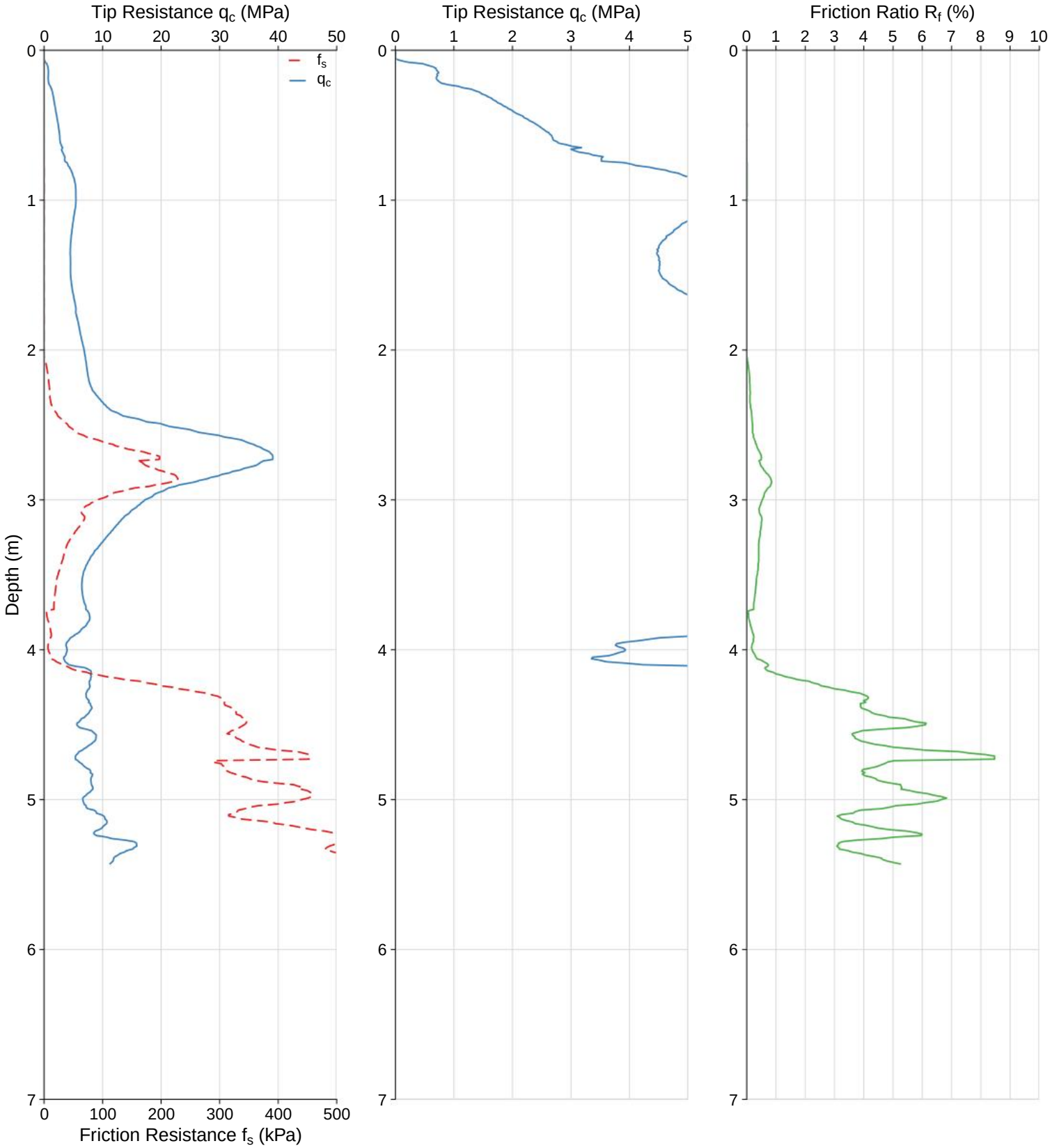
CPT ID:	CPT013	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Wet surface	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

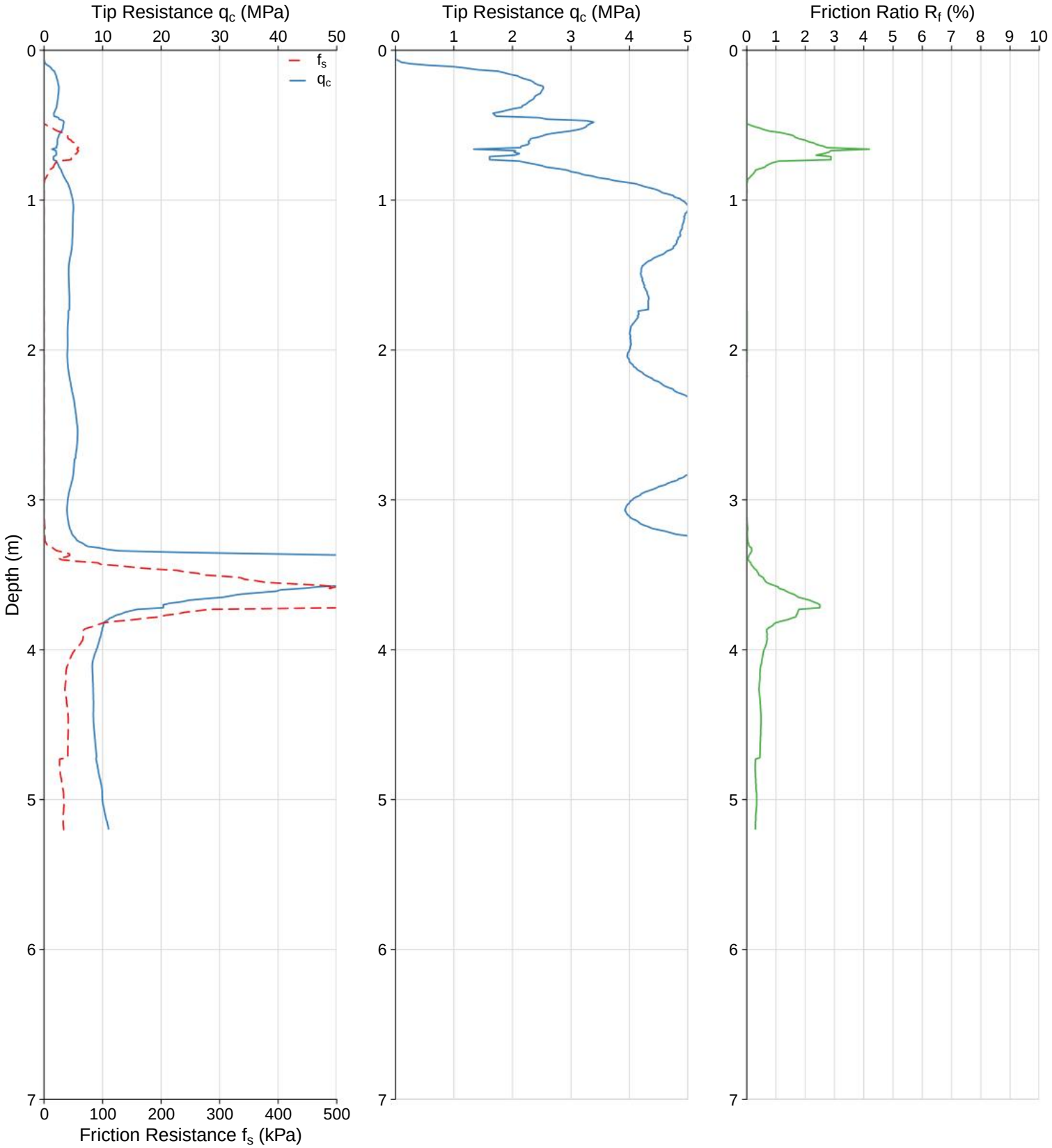
CPT ID:	CPT014	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

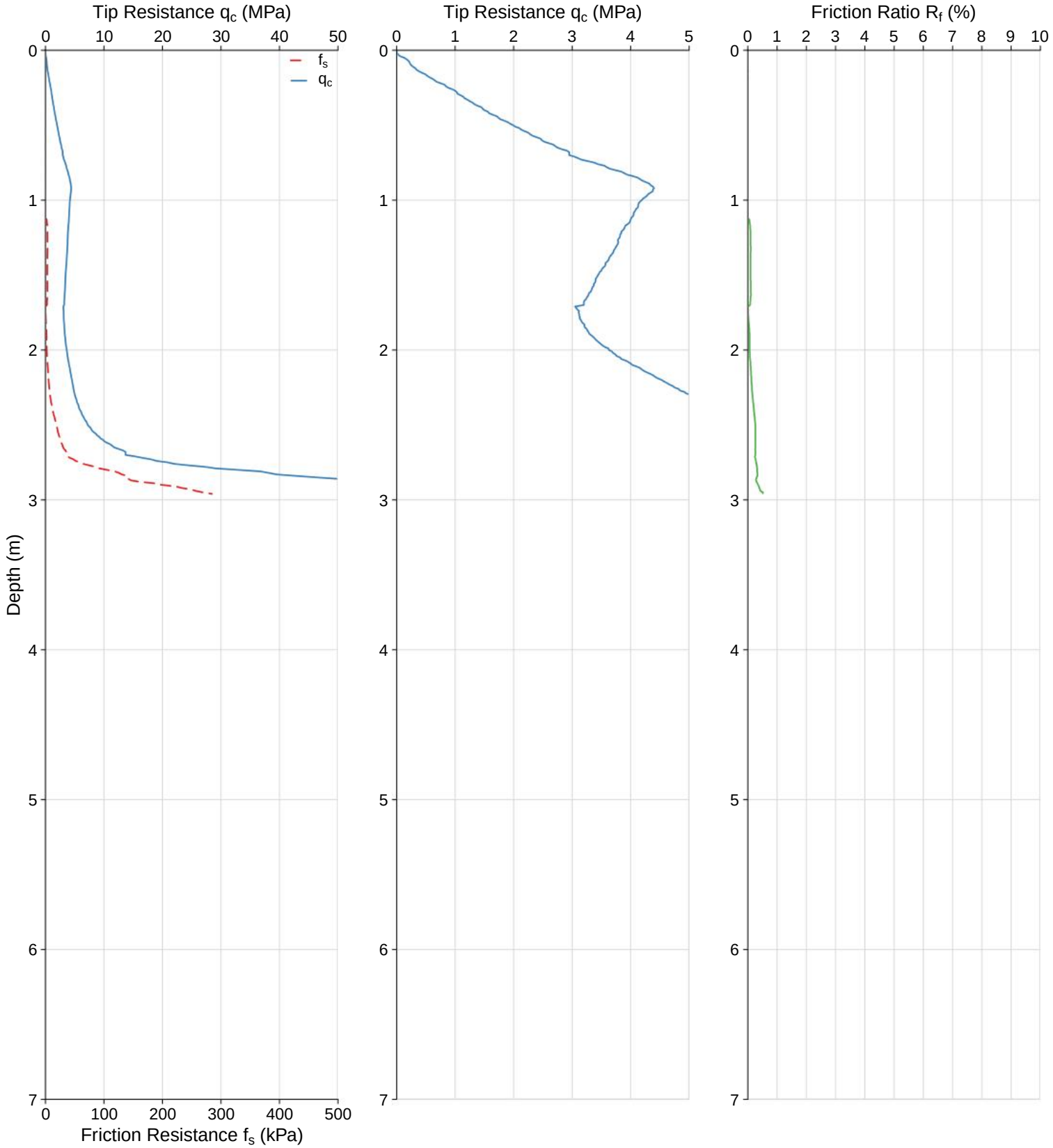
CPT ID:	CPT015	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

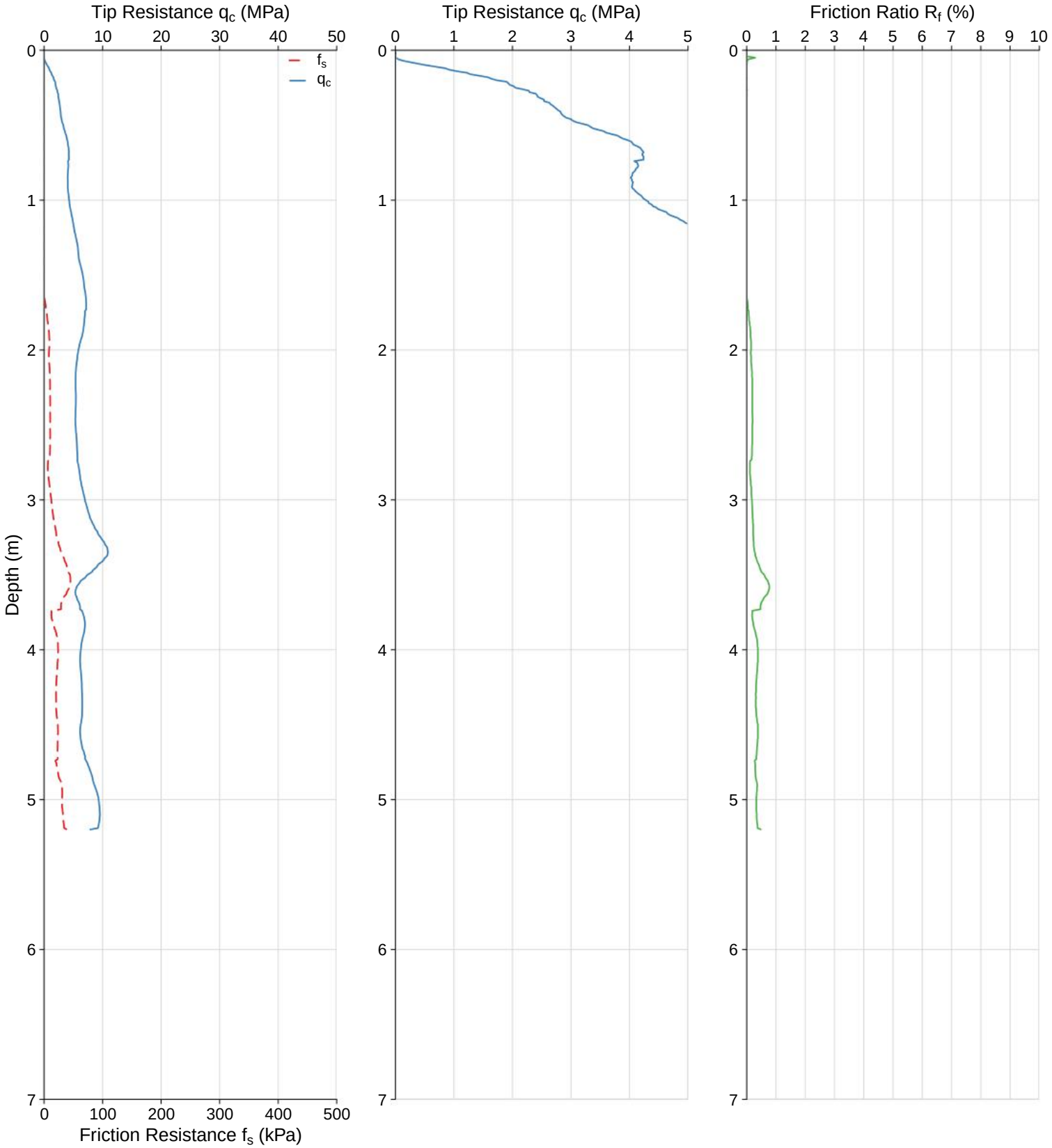
CPT ID:	CPT016	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 1.1m	**CO-ORDS:**	
TERMINATION:	Refused	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

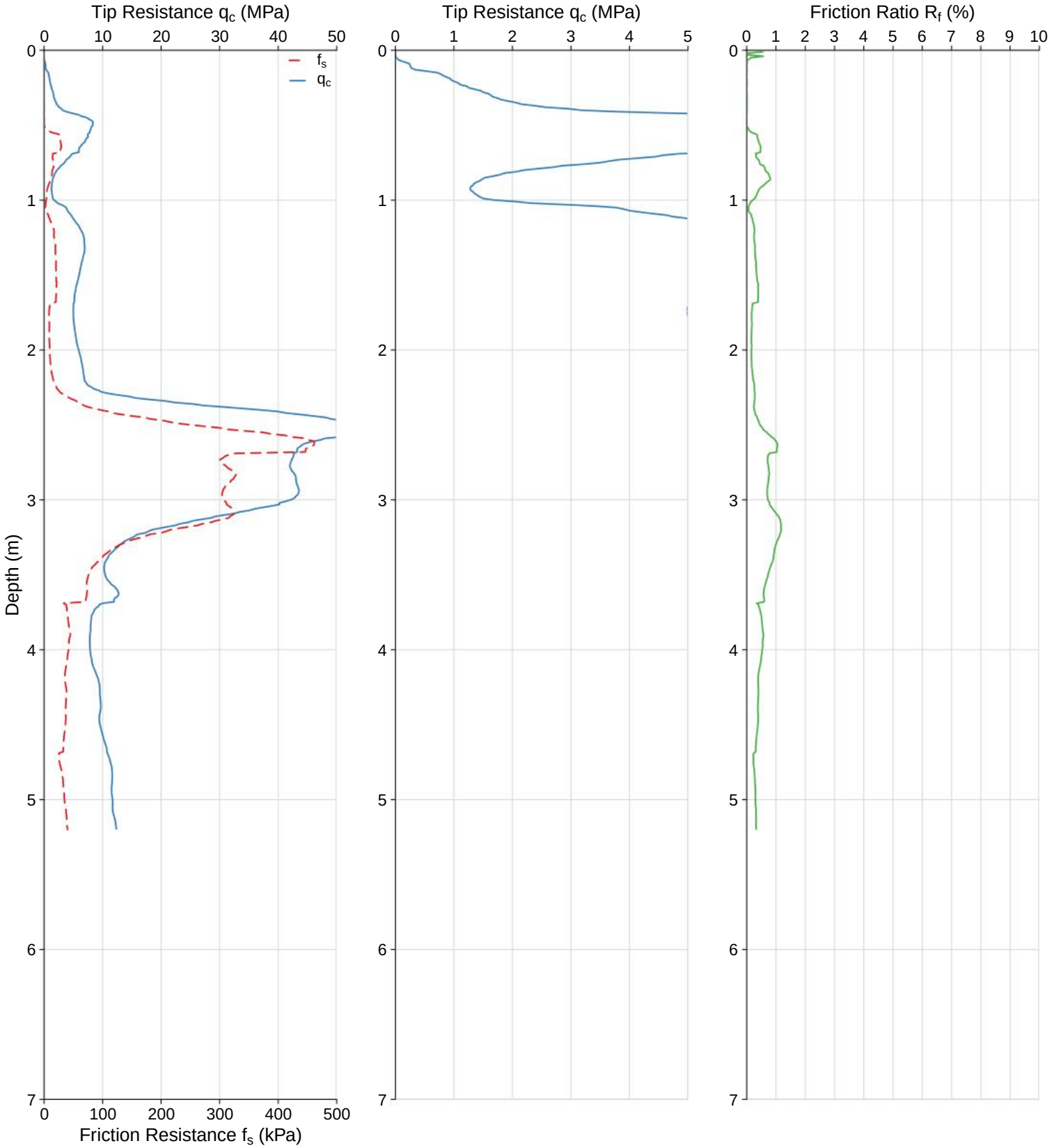
CPT ID:	CPT019	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

CONE PENETRATION TEST

CPT ID:	CPT020	**CLIENT:**	Galt Geotechnics
JOB NUMBER:	GBI25186-WAG250138	**PROJECT:**	Proposed Development
DATE:	05/09/2025	**LOCATION:**	High Wycombe



WATER:	Water at 0.8m	**CO-ORDS:**	
TERMINATION:	Target Depth	**ELEVATION:**	
DUMMY PROBE:		**PRE-DRILL:**	
RIG:	Pagani TG 73-200 200kN	**WASHER/DISC:**	Steel

Appendix C: Borehole Logs

METHOD OF SOIL DESCRIPTION
BOREHOLE AND TEST PIT REPORTS

GRAPHIC LOG & SOIL CLASSIFICATION SYMBOLS

Graphic	USCS	Soil Name
		FILL (various types)
		COBBLES / BOULDERS
	GP	GRAVEL (poorly graded)
	GW	GRAVEL (well graded)
	GC	Clayey GRAVEL
	GM	Silty GRAVEL
	SP	SAND (poorly graded)
	SW	SAND (well graded)
	SC	Clayey SAND

Graphic	USCS	Soil Name
	SM	Silty SAND
	ML	SILT (low liquid limit)
	MH	SILT (high liquid limit)
	CL	CLAY (low plasticity)
	CI	CLAY (medium plasticity)
	CH	CLAY (high plasticity)
	OL	Organic SILT (low liquid limit)
	OH	Organic SILT (high liquid limit)
	Pt	PEAT

NOTE: Dual classification given for soils with a fines content between 5% and 12%.

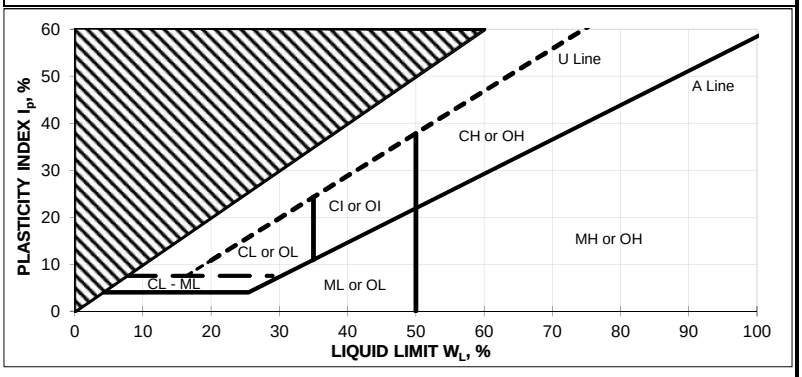
SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil descriptions are based on AS1726-2017. Material properties are assessed in the field by visual/tactile methods in combination with field and laboratory testing techniques (where used).

NOTE: AS 1726-2017 defines a fine grained soil where the total dry mass of fine fractions (<0.075 mm particle size) exceeds 35%.

PARTICLE SIZE		
Soil Name		**Particle Size (mm)**
BOULDERS		>200
COBBLES		63 to 200
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.3 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
FINES	SILT	0.002 to 0.075
	CLAY	<0.002

PLASTICITY - MODIFIED CASAGRANDE CHART - AS1726-2017



RESISTANCE TO EXCAVATION		
Symbol	**Term**	**Description**
VE	Very easy	All resistances are relative to the selected method of excavation
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION	
Symbol	**Term**
D	Dry
M	Moist
W	Wet

CEMENTATION	
Cementation	**Description**
Weakly cemented	Soil may be easily disaggregated by hand in air or water
Moderately cemented	Effort is required to disaggregate the soil by hand in air or water

CONSISTENCY		
Symbol	**Term**	**Undrained Shear Strength (kPa)**
VS	Very Soft	0 to 12
S	Soft	12 to 25
F	Firm	25 to 50
St	Stiff	50 to 100
VSt	Very Stiff	100 to 200
H	Hard	>200

ORGANIC SOILS	
Material	**Organic Content % of dry mass**
Inorganic soil	<2%
Organic soil	2% to 25%
Peat	>25%

DENSITY		
Symbol	**Term**	**Density Index (%)**
VL	Very Loose	<15
L	Loose	15 to 35
MD	Medium Dense	35 to 65
D	Dense	65 to 85
VD	Very Dense	>85

EXPLANATORY NOTES TO BE READ WITH BOREHOLE AND TEST PIT REPORTS

METHOD OF DRILLING OR EXCAVATION

AC	Air Core	E	Excavator	PQ3	PQ3 Core Barrel
AD/T	Auger Drilling with TC-Bit	EH	Excavator with Hammer	PT	Push Tube
AD/V	Auger Drilling with V-Bit	HA	Hand Auger	R	Ripper
AT	Air Track	HE	Hand Excavation	RR	Rock Roller
B	Bulldozer Blade	HQ3	HQ3 Core Barrel	SON	Sonic Rig
BH	Backhoe Bucket	N	Natural Exposure	SPT	Driven SPT
CT	Cable Tool	NMLC	NMLC Core Barrel	WB	Washbore
DT	Diatube	PP	Push Probe	X	Existing Excavation

SUPPORT

T	Timbering

PENETRATION EFFORT (RELATIVE TO THE EQUIPMENT USED)

VE	Very Easy	E	Easy	F	Firm
H	Hard	VH	Very Hard		

WATER

►	Water Inflow	▼	Water Level
◄	Water Loss (complete)		
◁	Water Loss (partial)		

SAMPLING AND TESTING

B	Bulk Disturbed Sample	P	Piston Sample
BLK	Block Sample	PBT	Plate Bearing Test
C	Core Sample	U	Undisturbed Push-in Sample
CBR	CBR Mould Sample		U50: 50 mm diameter
D	Small Disturbed Sample	SPT	Standard Penetration Test
ES	Environmental Soil Sample		Example: 3, 4, 5 N=9
EW	Environmental Water Sample		3,4,5: Blows per 150 mm
G	Gas Sample		N=9: Blows per 300 mm after
HP	Hand Penetrometer		150 mm seating interval
LB	Large Bulk Disturbed Sample	VS	Vane Shear; P = Peak
M	Mazier Type Sample		R = Remoulded (kPa)
MC	Moisture Content Sample	W	Water Sample

ROCK CORE RECOVERY

TCR = Total Core Recovery (%) $= \frac{CRL}{TCL} \times 100$

RQD = Rock Quality Designation (%) $= \frac{ALC>100}{TCL} \times 100$

TCL	Length of Core Run
CRL	Length of Core Recovered
ALC>100	Total Length of Axial Lengths of Core Greater than 100 mm Long

BOREHOLE: BH01

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, trace fines, trace organics (0.1)	M		0	
								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, trace fines				
0.5											0.5	
1									M		1	
1.5							SP				1.5	
2											2	
2.5									W		2.5	
3								(3.0)			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 2.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH02

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH02-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, brown, trace to with gravel, trace fines, trace organics	M		0	
								0.3				
0.5							SP/SM	SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, with fines, trace to with organics			0.5	
								0.9				
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey, low plasticity clay, trace gravel, trace organics	W		1	
1.5											1.5	
2								2.0			2	
							SC	pale grey mottled dark grey				
								2.3				
2.5							SC/CL	Sandy CLAY/Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey, low to medium plasticity clay			2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH03

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH03-01		SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.1 SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey-white, trace fines				
0.5											0.5	
									M			
1							SP				1	
1.5											1.5	
2								2.0 grey			2	
							SP		W			
2.5								2.6 trace coffee rock gravel			2.5	
							SP					
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH04

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH04-01		SP/SM	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, dark grey mottled brown, trace to with fines, with organics 0.2	M		0	No Guelph testing due to high ground water
							SP/SM	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace to with fines, trace organics 0.7	W			
0.5							SC	Organic Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, dark brown, medium plasticity clay 1.4	W		0.5	
1							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, brown/grey, low plasticity clay 2.0	W		1	
1.5							SP-SC	Fine to coarse grained, sub-angular to sub-rounded, dark grey/white, with fines 3.0			1.5	
2											2	
2.5											2.5	
3											3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.1 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH04
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH05

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 28/08/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, dark grey/brown, trace fines, trace organics	M		0	
								0.3				
0.5							SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fines	W		0.5	
1								1.3			1	

Borehole terminated at 1.3 m, due to collapse
Groundwater encountered at 0.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH05
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH06

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼	Bulk	BH06-01		SP	TOPSOIL: SAND: fine to medium grained, sub-angular to sub-rounded, brown-grey, trace fines, trace organics	M		0	
								0.3				
							SP/SC	SAND: fine to coarse grained, sub-angular to sub-rounded, brown-grey, with fines, trace organics	W			
								2.0				
							SP/SC	grey	W			
								2.6				
							SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, grey, low plasticity clay	W			
								3.0				

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.4 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH06
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH09

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

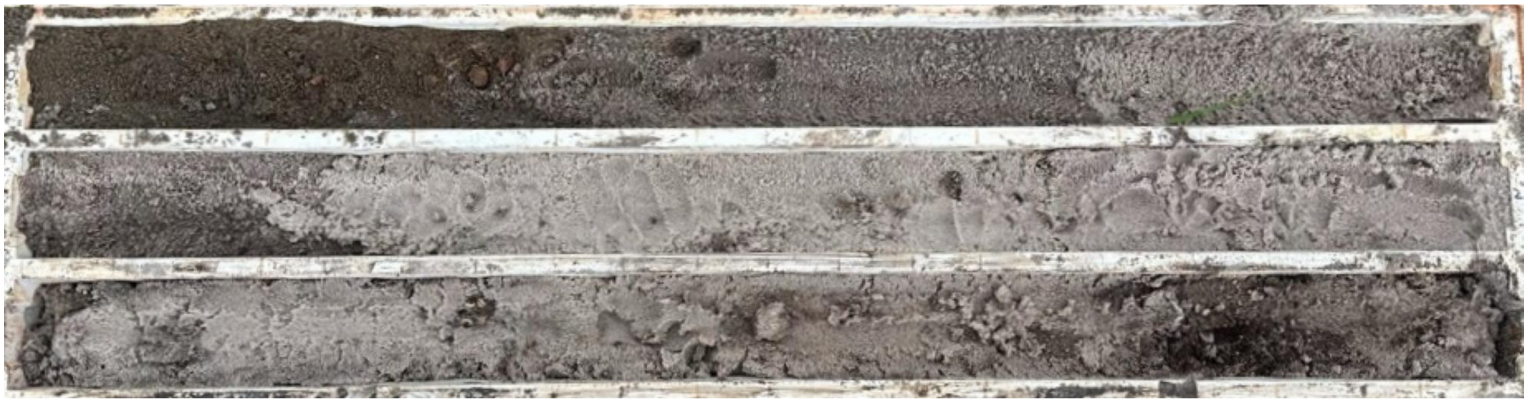
Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	FILL: TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, trace lateritic gravel, trace/with organics	M		0	
								0.3				
							SP	SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines	M		0.5	
0.5												
1								1.3			1	
							SP	pale grey	M			
1.5											1.5	
								2.0				
2							SP	pale grey mottled dark grey	W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.8 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

Galt GEOTECHNICS

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH09
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH10

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: GBI
Drill Rig: EVH Scout 1750
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: KS
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Consistency Density	Depth (m)	Additional Remarks
0	AD/V		▼				SP	TOPSOIL: SAND: fine to coarse grained, sub-angular to sub-rounded, grey, trace fines, trace organics	M		0	
								0.3				
0.5								SAND: fine to coarse grained, sub-angular to sub-rounded, pale grey/white, trace fines			0.5	
1				Bulk	BH10-01				M		1	
1.5							SP				1.5	
2									W		2	
2.5											2.5	
3								3.0			3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.6 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH10
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH11

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
				ASS	BH11/0.00			Grass 0.1			
				ASS	BH11/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, with fine to coarse grained gravel (up to 0.6 m) trace fines			
0.5				ASS	BH11/0.50			0.6	M	0.5	
				ASS	BH11/0.75		SP	becomes dark grey			
1			▼	ASS	BH11/1.00			1.1		1	
				ASS	BH11/1.25		SP	becomes fine to coarse grained, pale grey			
1.5	AD/V	E		ASS	BH11/1.50					1.5	
				ASS	BH11/1.75						
2				ASS	BH11/2.00				W	2	
				ASS	BH11/2.25						
2.5				ASS	BH11/2.50					2.5	
				ASS	BH11/2.75						
3				ASS	BH11/3.00			3.0		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH11
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH12/MW01

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH12/MW01/0.00		PT	PEAT: Fiberous, spongy, organic odour, dark brown, with sand	M	0	SUP Concrete	SUP: +0.68 Solid: 0-0.5 Screen: 0.5-3.0
				ASS	BH12/MW01/0.25						Bentonite Solid	Concrete:0-0.1 Bentonite: 0.1-0.4 Gravel: 0.4-3.0
	0.5			ASS	BH12/MW01/0.50			0.6		0.5		
				ASS	BH12/MW01/0.75		SP	Organic SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey				
	1			ASS	BH12/MW01/1.00					1		
				ASS	BH12/MW01/1.25			1.4				
	1.5			ASS	BH12/MW01/1.50		SP	SAND: fine to medium grained, sub-angular to sub-rounded, pale brown/grey, trace fines	W	1.5	Gravel Screen	
				ASS	BH12/MW01/1.75							
	2			ASS	BH12/MW01/2.00					2		
				ASS	BH12/MW01/2.25							
	2.5			ASS	BH12/MW01/2.50			2.6		2.5		
				ASS	BH12/MW01/2.75		SC	Clayey SAND: fine to coarse grained, sub-angular to sub-rounded, blue grey, low plasticity clay				
	3			ASS	BH12/MW01/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.0 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH12/MW01
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH13

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH13/0.00			Grass (0.1)	M	0	
				ASS	BH13/0.25		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark brown/grey, trace organics, trace fines			
0.5				ASS	BH13/0.50					0.5	
				ASS	BH13/0.75						
1				ASS	BH13/1.00				W	1	
				ASS	BH13/1.25						
1.5				ASS	BH13/1.50					1.5	
				ASS	BH13/1.75		SP	becomes fine to coarse grained (1.7)			
2				ASS	BH13/2.00			becomes pale brown/grey (2.0)		2	
				ASS	BH13/2.25						
2.5				ASS	BH13/2.50		SP			2.5	
				ASS	BH13/2.75						
3				ASS	BH13/3.00			(3.0)		3	

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.9 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH13
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH14/MW03

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH14/MW03/0.00		SP	Gravelly SAND: sub-angular to sub-rounded, fine to medium grained sand, brown, rounded to sub-rounded, fine to medium grained gravel, trace fines	M	0	SUP Concrete	SUP: +0.65 Solid: 0-0.5 Screen: 0.5-3.0 Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
				ASS	BH14/MW03/0.25						Solid Bentonite	
	0.5			ASS	BH14/MW03/0.50					0.5		
				ASS	BH14/MW03/0.75			0.9				
	1			ASS	BH14/MW03/1.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace gravel (up to 1.5 m), trace fines		1		
				ASS	BH14/MW03/1.25							
	1.5			ASS	BH14/MW03/1.50			1.5		1.5		
				ASS	BH14/MW03/1.75		SP	becomes brown	W		Gravel Screen	
	2			ASS	BH14/MW03/2.00			2.0		2		
				ASS	BH14/MW03/2.25			Sandy CLAY: low plasticity, blue grey, sub-angular to sub-rounded, fine to coarse grained sand				
	2.5			ASS	BH14/MW03/2.50		CL			2.5		
				ASS	BH14/MW03/2.75							
	3			ASS	BH14/MW03/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 0.28 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH14/MW03
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE: BH15

Project Name: WAG250138-01
Client: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres, High Wycombe

Contractor: DPP
Drill Rig: 7822DT
Borehole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Date Checked: 22/09/2025
Checked By: TM

Depth (m)	Drill Method	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Additional Remarks
0	AD/V	E	▼	ASS	BH15/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace organics, trace fines	M	0.5	
				ASS	BH15/0.25						
				ASS	BH15/0.50						
								0.7			
				ASS	BH15/0.75		SP	becomes grey			
1				ASS	BH15/1.00					1	
				ASS	BH15/1.25						
1.5				ASS	BH15/1.50					1.5	
				ASS	BH15/1.75						
								1.8			
								becomes fine to coarse grained	W		
2				ASS	BH15/2.00					2	
				ASS	BH15/2.25		SP				
2.5				ASS	BH15/2.50					2.5	
				ASS	BH15/2.75						
3				ASS	BH15/3.00			3.0		3	
								Borehole terminated at 3.0 m, target depth Groundwater encountered at 1.1 m depth			

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH15
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

BOREHOLE/MONITORING WELL: BH16/MW02

Project Name: WAG250138-01
Client Name: Dynamic Planning & Developments
Project: LSP Amendment
Location: Hatch Court & Stirling Cres,

Contractor: DPP
Drill Rig: 7822DT
Hole Diameter: 90 mm
Inclination: -90

Date: 05/09/2025
Logged By: SB
Checked By: TM
Date Checked: 22/09/2025

Drill Method	Depth (m)	Penetration Resistance	Water Level	Sample Information: Sample Type	Sample Information: Sample Number	Graphic Log	Soil Class	Soil/Rock Material Description	Moisture Condition	Depth (m)	Well	Additional Remarks
AD/V	0	E	▼	ASS	BH16/MW02/0.00		SP	SAND: fine to medium grained, sub-angular to sub-rounded, brown, trace rootlets (up to 0.3 m), trace fines	M	0	SUP Concrete	SUP: +0.62 Solid: 0-0.5 Screen: 0.5-3.0
				ASS	BH16/MW02/0.25			0.3			Solid Bentonite	Concrete:0-0.1 Bentonite: 0.1-0.5 Gravel: 0.5-3.0
	0.5			ASS	BH16/MW02/0.50		SP	becomes grey		0.5		
				ASS	BH16/MW02/0.75			0.7 becomes fine to coarse grained				
	1			ASS	BH16/MW02/1.00					1		
				ASS	BH16/MW02/1.25		SP					
	1.5			ASS	BH16/MW02/1.50					1.5		
				ASS	BH16/MW02/1.75				W		Gravel Screen	
	2			ASS	BH16/MW02/2.00			2.0 Gravelly SAND: sub-angular to sub-rounded, fine to medium grained, dark brown, angular to subangular, fine to coarse grained gravel, with coffee rock, trace/with fines		2		
				ASS	BH16/MW02/2.25							
	2.5			ASS	BH16/MW02/2.50		SP-SM			2.5		
				ASS	BH16/MW02/2.75							
	3			ASS	BH16/MW02/3.00			3.0		3		

Borehole terminated at 3.0 m, target depth
Groundwater encountered at 1.15 m depth

Notes: -



Depth Range: 0.0 - 3.0 m

PROJECT	WAG250138-01	**PROJECT NO.**	LSP Amendment
CLIENT	Dynamic Planning & Developments	**LOG:**	BH16/MW02
LOCATION	High Wycombe, WA	**FIGURE NO.**	Appendix

Appendix D: Guelph Permeameter Test Results

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH01/G01

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
	Field not used
	Fixed field

Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	38	cm
H	Head of water above base	8	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	52		
0.5	40	12.00	24.00
1	30	10.00	20.00
1.5	20.5	9.50	19.00
2	10	10.50	21.00
2.5	0	10.00	20.00

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH02/G02

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
	Calculated field
	Comment field
	Field not used
	Fixed field

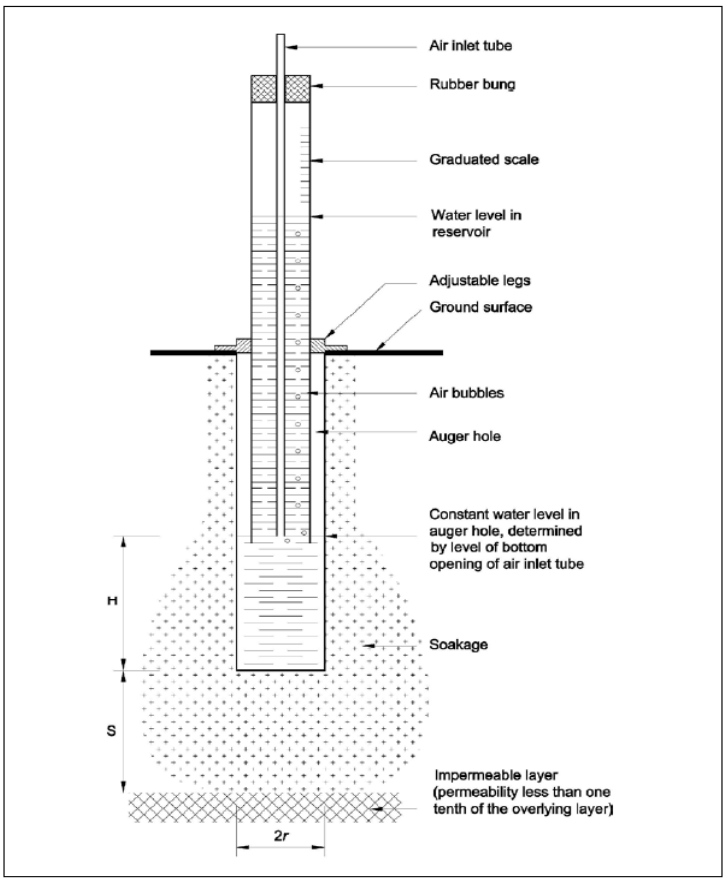
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	42	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	46.5		
2	45.5	1.00	0.50
4	42.5	3.00	1.50
6	41	1.50	0.75
8	39.5	1.50	0.75
10	36	3.50	1.75
12	34	2.00	1.00
14	32	2.00	1.00
16	29.8	2.20	1.10
AVERAGE - LAST 5 READINGS			1.12

Calculation

Steady State Flow	1.12	cm/min
Flow from reservoir (Q)	40.66	cm^3/min
K_{sat}	0.065	cm/min
K_{sat}	1.091E-05	m/s
K_{sat}	**0.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH03/G03

Spreadsheet author:		

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
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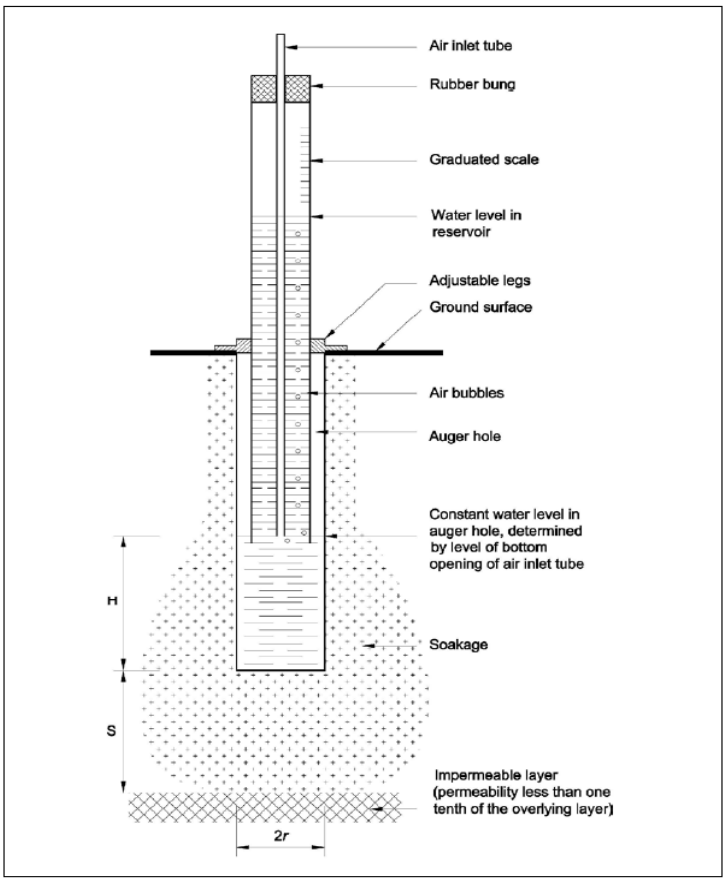
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	57	cm
H	Head of water above base	23	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	71		
0.33	66	5.00	15.15
0.66	59	7.00	21.21
1.33	45	14.00	20.90
1.66	38	7.00	21.21
1.99	28	10.00	30.30
2.33	21	7.00	20.59
2.66	11	10.00	30.30
2.99	1	10.00	30.30
		AVERAGE - LAST 5 READINGS	26.54

Calculation

Steady State Flow	26.54	cm/min
Flow from reservoir (Q)	963.47	cm^3/min
K_{sat}	0.628	cm/min
K_{sat}	1.047E-04	m/s
K_{sat}	**9.05**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH05/G05

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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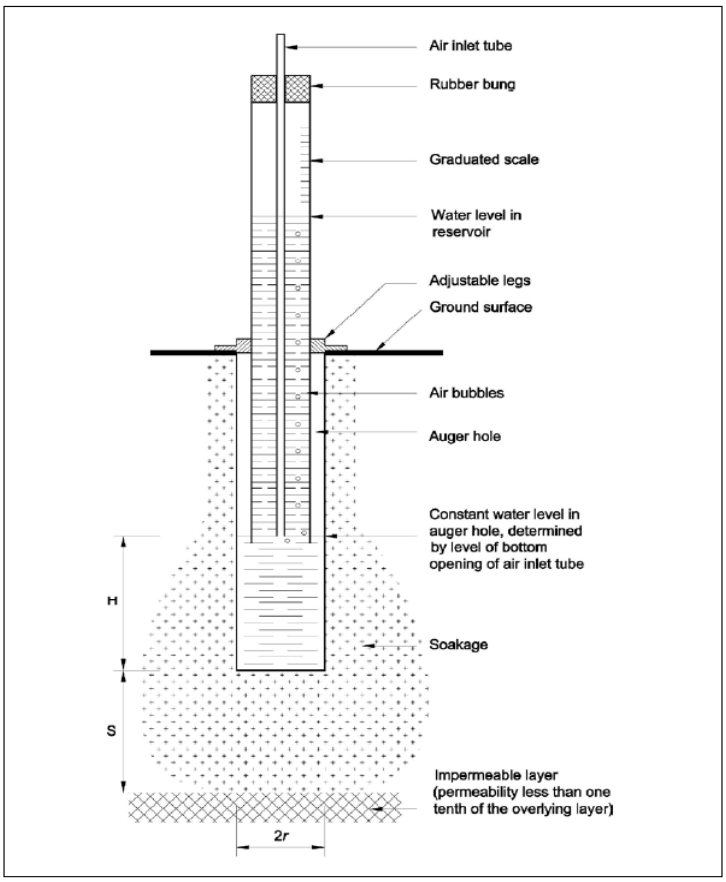
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	44	cm
H	Head of water above base	14	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	53.5		
5	49	4.50	0.90
10	45	4.00	0.80
15	41	4.00	0.80
20	38	3.00	0.60
25	35	3.00	0.60
30	31.5	3.50	0.70
AVERAGE - LAST 5 READINGS			0.70

Calculation

Steady State Flow	0.70	cm/min
Flow from reservoir (Q)	25.41	cm^3/min
K_{sat}	0.031	cm/min
K_{sat}	5.139E-06	m/s
K_{sat}	**0.44**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH09/G09

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

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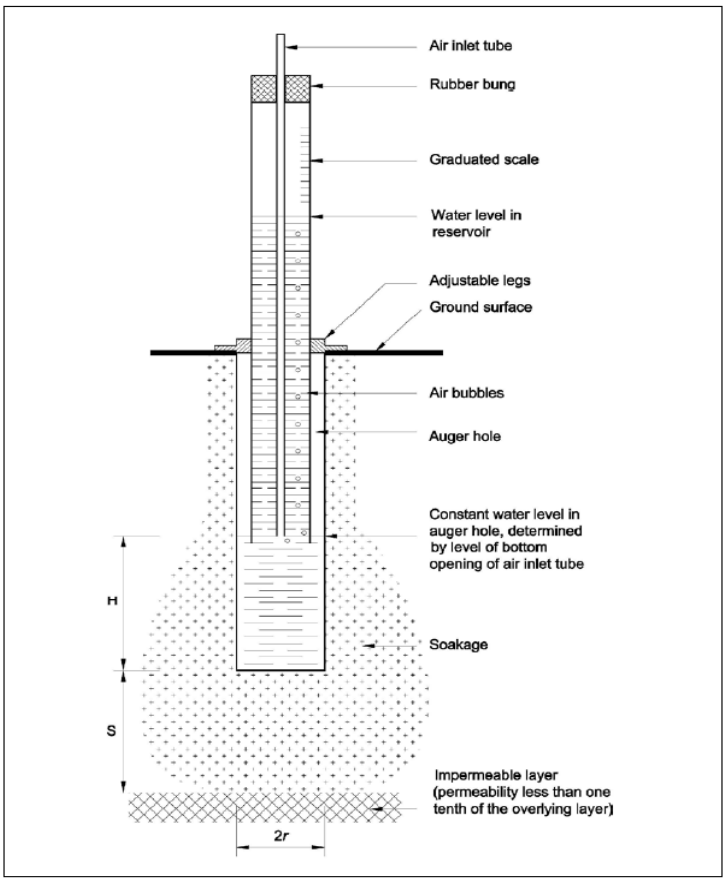
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	52	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	72.5		
1	62	10.50	10.50
2	52.5	9.50	9.50
3	46	6.50	6.50
4	38	8.00	8.00
5	28.5	9.50	9.50
6	23.6	4.90	4.90
7	14.5	9.10	9.10
8	8	6.50	6.50
9	1.5	6.50	6.50
AVERAGE - LAST 5 READINGS			7.30

Calculation

Steady State Flow	7.30	cm/min
Flow from reservoir (Q)	264.99	cm^3/min
K_{sat}	0.274	cm/min
K_{sat}	4.559E-05	m/s
K_{sat}	**3.94**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH10/G10

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
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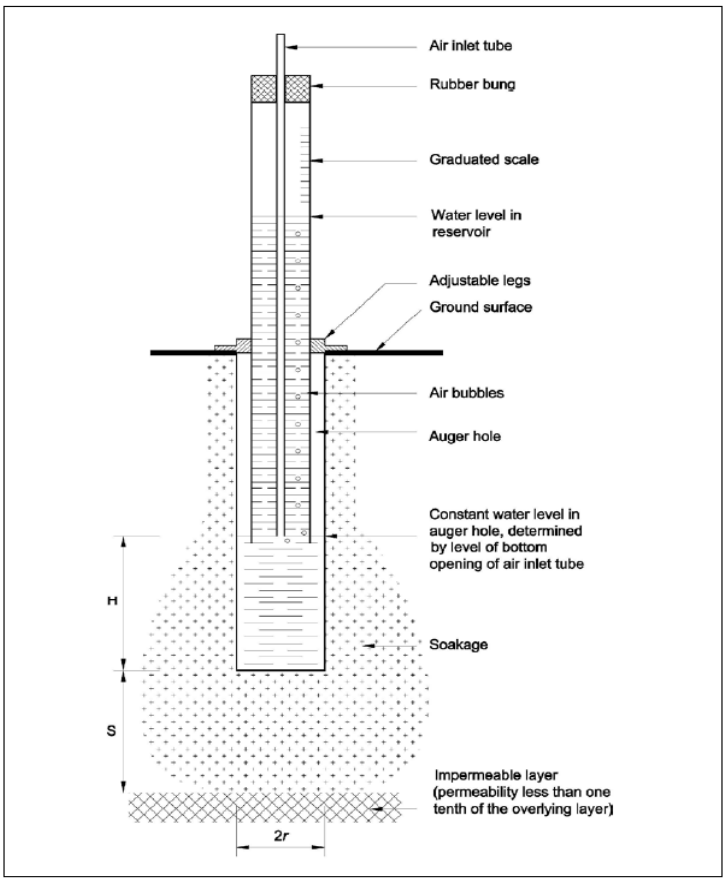
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	47	cm
H	Head of water above base	11	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	58		
1	53	5.00	5.00
2	50	3.00	3.00
3	44	6.00	6.00
4	40	4.00	4.00
5	36	4.00	4.00
6	32	4.00	4.00
		AVERAGE - LAST 5 READINGS	4.20

Calculation

Steady State Flow	4.20	cm/min
Flow from reservoir (Q)	152.46	cm^3/min
K_{sat}	0.245	cm/min
K_{sat}	4.090E-05	m/s
K_{sat}	**3.53**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Hydraulic Conductivity Calculation - Constant Head by Permeameter

Galt Geotechnics

Job No:	WAG250138-01
Client:	DPD
Project:	LSP Amendment
Location:	Hatch Crt and Stirling Crs
	High Wycombe
Test Name	BH15/G07

Spreadsheet author:

REFERENCE: AS1547-2012, "On-site domestic wastewater management" - Appendix G

$$K = \frac{4.4Q[0.5\ \sinh^{-1}\left(\frac{H}{2r}\right) - \sqrt{\left(\frac{r}{H}\right)^2 + 0.25} + \frac{r}{H}]}{2\,\pi H^2}$$

Spreadsheet Legend

	Required input
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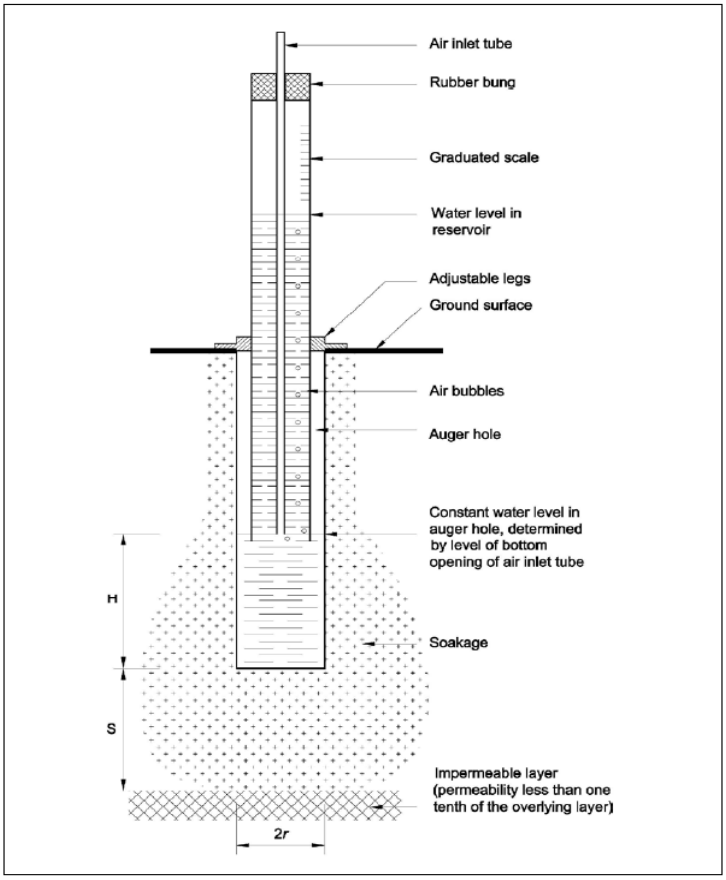
Parameter	Description	Value	Units
K_{sat}	Saturated hydraulic conductivity		cm/min
D	Depth of auger hole	53	cm
H	Head of water above base	16	cm
r	Radius of auger hole	4.5	cm
S	Depth to impermeable stratum		cm
Reservoir	Chosen Guelph reservoir (inner or outer)	**Outer**	
Area	Area of chosen reservoir	36.3	cm^2
F	Reading of water level in reservoir		cm

Test Results

Time (min)	F (cm)	ΔF (cm)	ΔF (cm)/min
0	60		
0.5	48	12.00	24.00
1	38	10.00	20.00
1.5	31	7.00	14.00
2	20	11.00	22.00
2.5	12	8.00	16.00
3	2.5	9.50	19.00
AVERAGE - LAST 5 READINGS			18.20

Calculation

Steady State Flow	18.20	cm/min
Flow from reservoir (Q)	660.66	cm^3/min
K_{sat}	0.682	cm/min
K_{sat}	1.137E-04	m/s
K_{sat}	**9.82**	**m/day**



where:
H = depth of water in test hole
S = the depth to an underlying impermeable layer
r = radius of the test hole

Appendix E: Geotechnical Laboratory Test Results

WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.1, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.1	**Liquid Limit (%)**	**28**
AS 1289.3.2.1	**Plastic Limit (%)**	**23**
AS 1289.3.3.1	**Plasticity Index (%)**	**5**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**2.5**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen:**	**-**

Comments:

Approved Signatory:

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

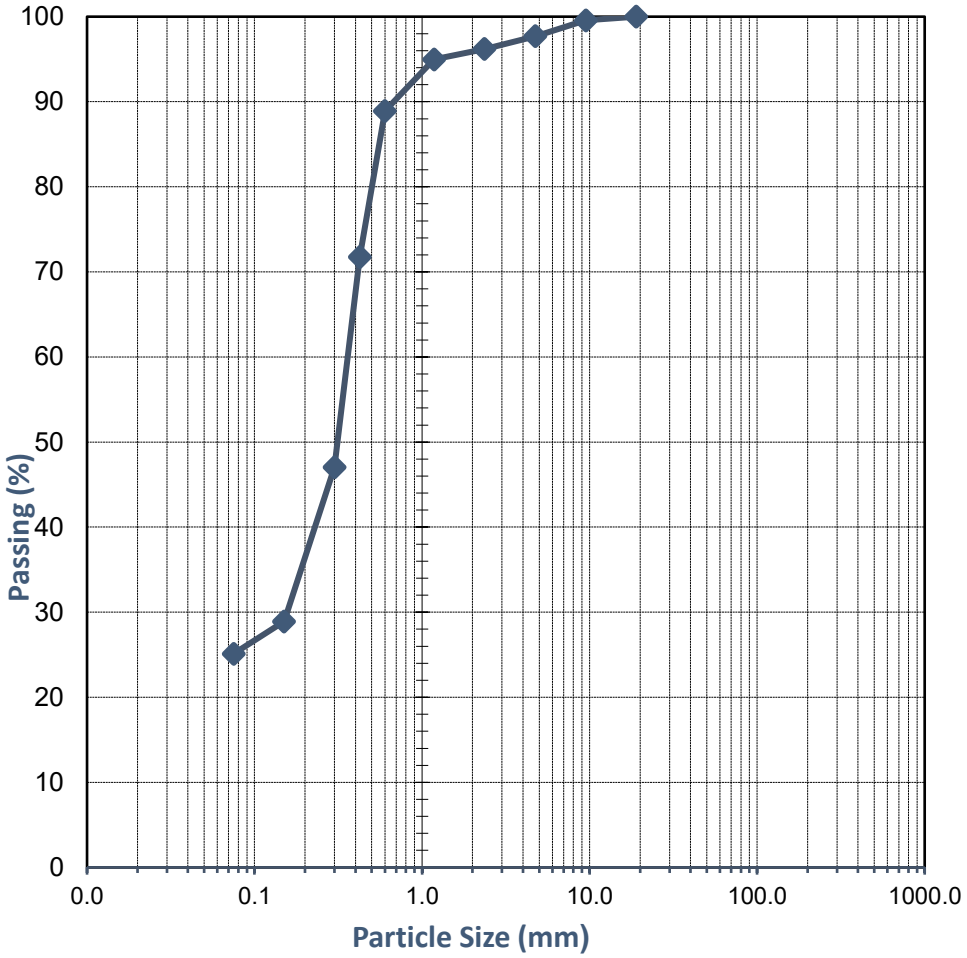
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15432_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15432
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH02 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	98
2.36	96
1.18	95
0.600	89
0.425	72
0.300	47
0.150	29
0.075	25



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

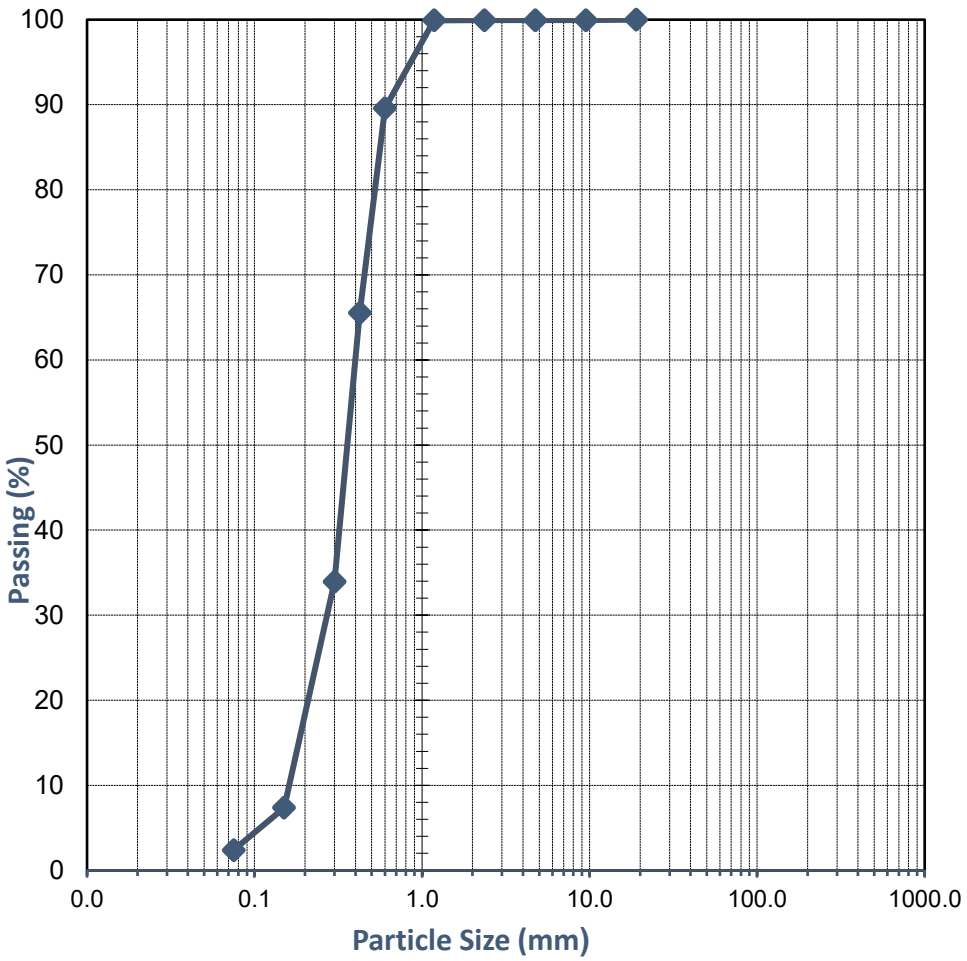
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15433_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15433
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH03 (1.5 - 1.8m)	*Date Tested:*	15/09 - 17/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	100
9.5	100
4.75	100
2.36	100
1.18	100
0.600	90
0.425	66
0.300	34
0.150	7
0.075	2



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.3.1.2, 3.2.1, 3.3.1 & 3.4.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PI
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	16/09/2025

TEST RESULTS - Consistency Limits (Casagrande)

Sampling Method:	**Sampled by Client, Tested as Received**
History of Sample:	**Oven Dried <50°C**
Method of Preparation:	**Dry Sieved**

AS 1289.3.1.2	**Liquid Limit (%)**	**46**
AS 1289.3.2.1	**Plastic Limit (%)**	**40**
AS 1289.3.3.1	**Plasticity Index (%)**	**6**
AS 1289.3.4.1	**Linear Shrinkage (%)**	**3.0**
AS 1289.3.4.1	**Length of Mould (mm)**	**250**
AS 1289.3.4.1	**Condition of Dry Specimen**	**-**

Approved Signatory:

Name: Danielle Reynolds

Date: 18/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

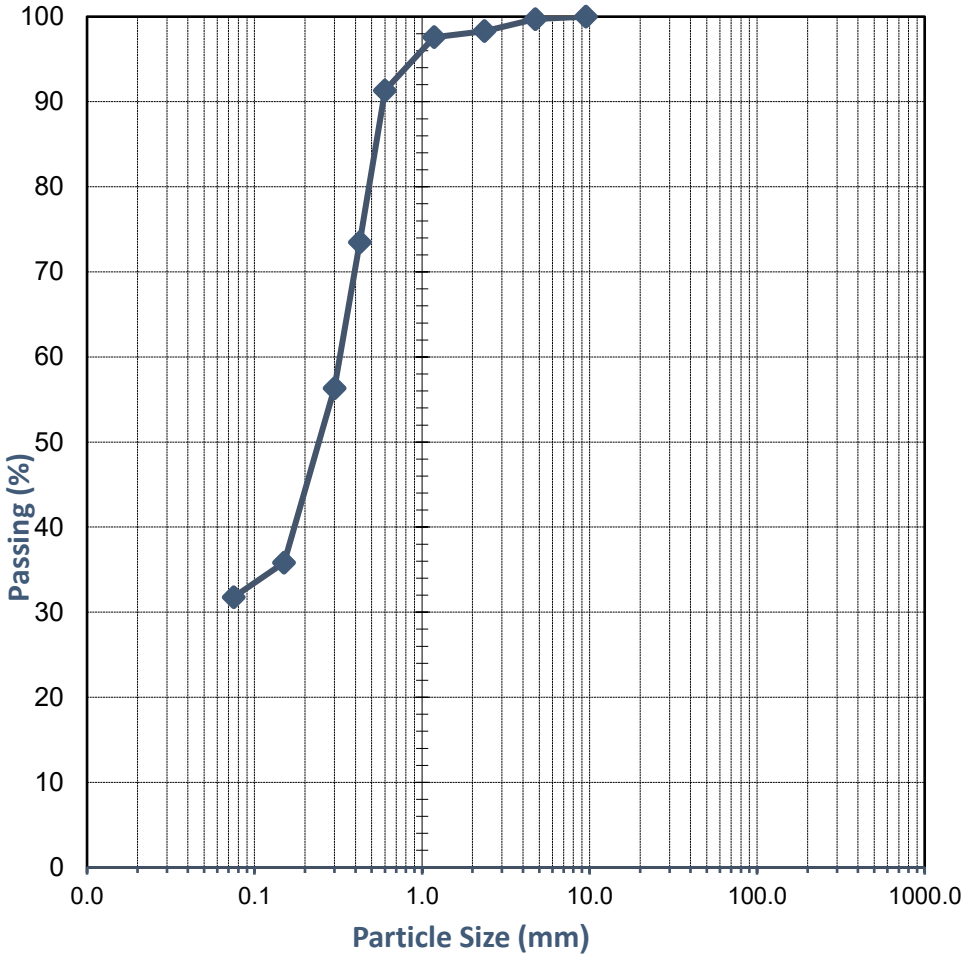
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15434_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15434
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH04 (1 - 1.4m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	98
1.18	98
0.600	91
0.425	73
0.300	56
0.150	36
0.075	32



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

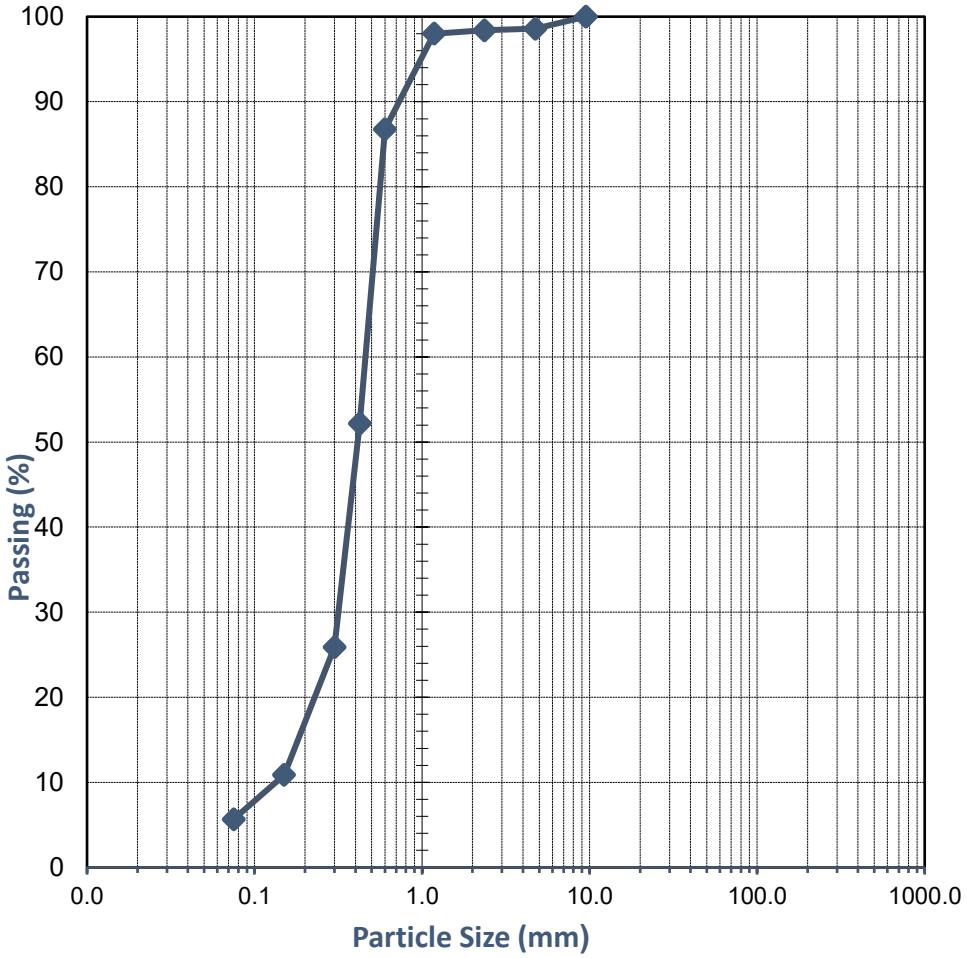
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15435_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15435
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH06 (0.6 - 1.0m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	99
2.36	98
1.18	98
0.600	87
0.425	52
0.300	26
0.150	11
0.075	6



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

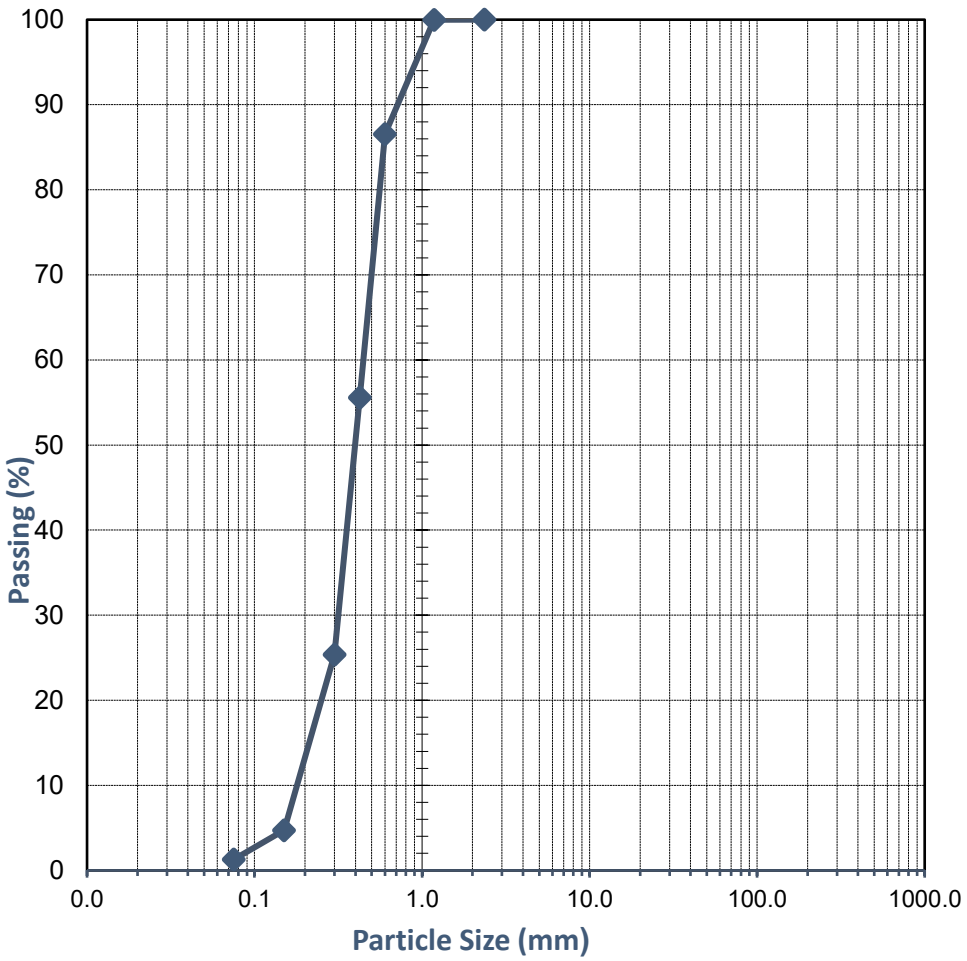
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15436_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15436
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	BH10 (1 - 1.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	
2.36	100
1.18	100
0.600	87
0.425	56
0.300	25
0.150	5
0.075	1



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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SOIL | AGGREGATE | CONCRETE | CRUSHING

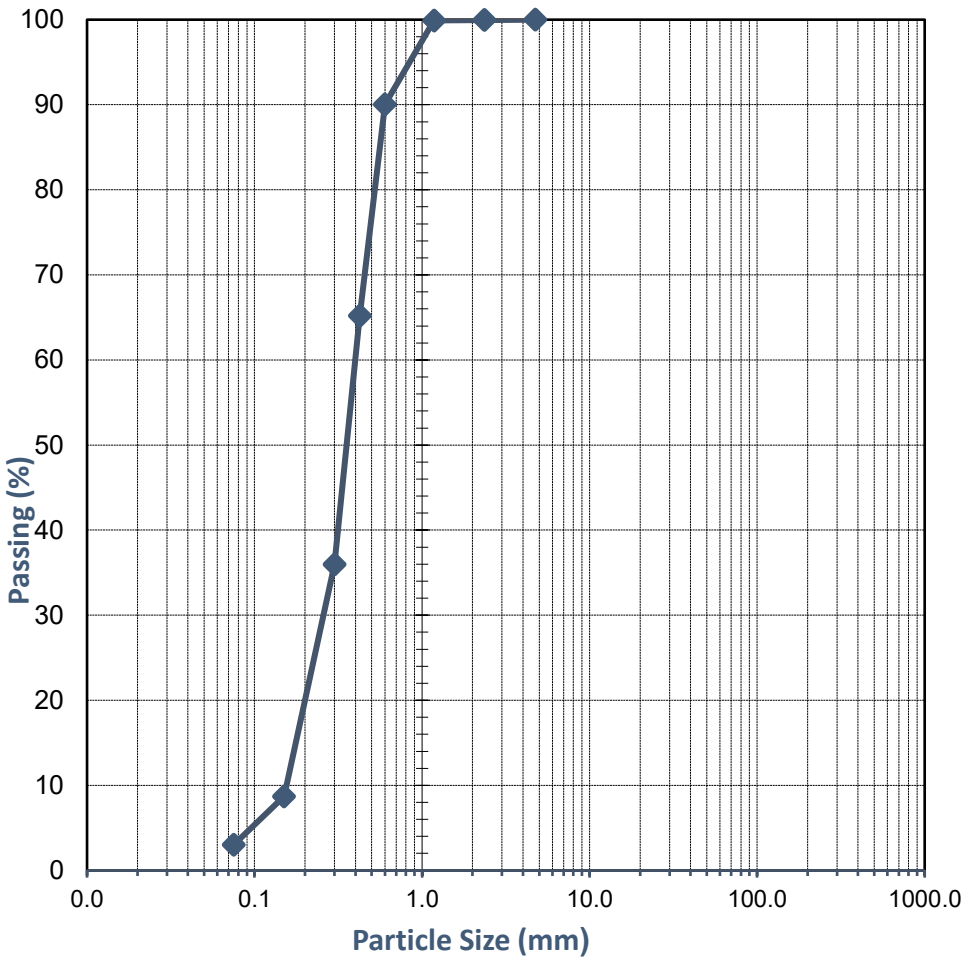
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15437_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15437
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G07 (0.5 - 0.6m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	
4.75	100
2.36	100
1.18	100
0.600	90
0.425	65
0.300	36
0.150	9
0.075	3



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

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WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

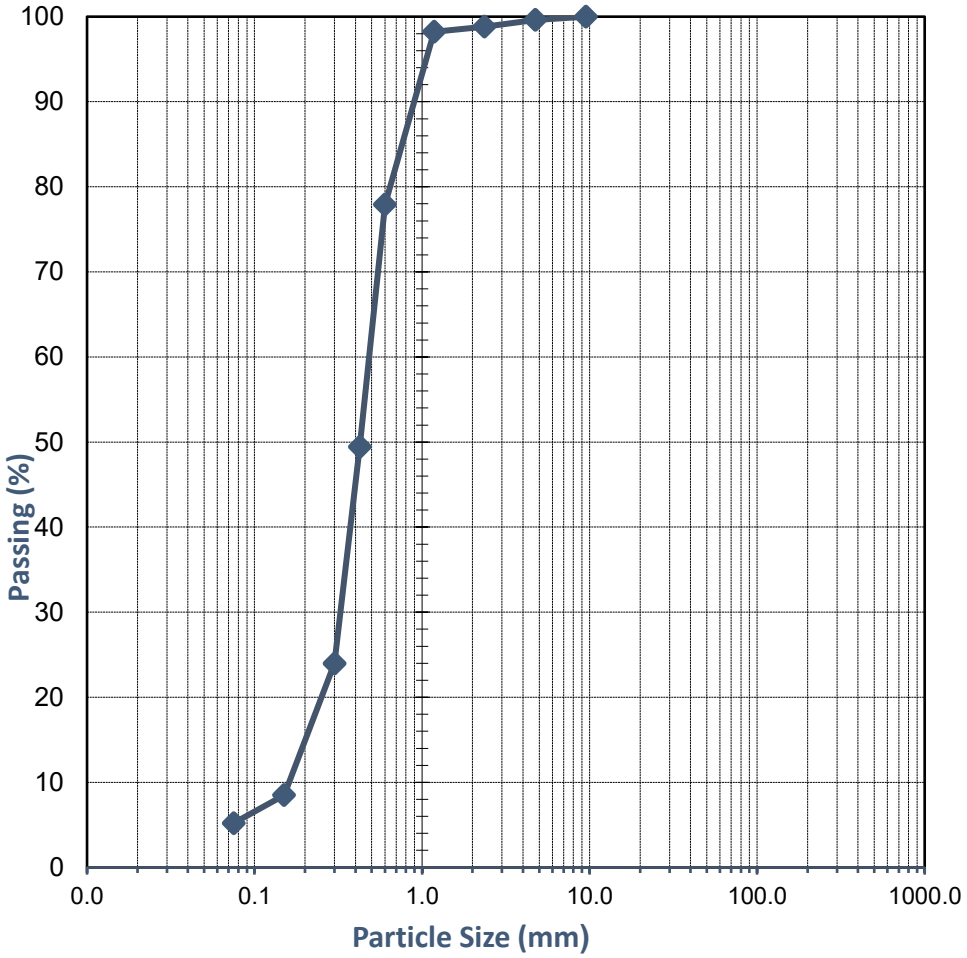
TEST REPORT - AS 1289.3.6.1

Client:	Dynamic Planning and Developments	*Ticket No.*	S18630
Client Address:	-	*Report No.*	WG25.15438_1_PSD
Project:	Proposed HCLIA	*Sample No.*	WG25.15438
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	5/09/2025
Sample Identification:	G10 (0.4 - 0.5m)	*Date Tested:*	15/09 - 16/09/2025

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method: Sampled by Client, Tested as Received

Sieve Size (mm)	Percent Passing Sieve (%)
150.0	
100.0	
75.0	
37.5	
19.0	
9.5	100
4.75	100
2.36	99
1.18	98
0.600	78
0.425	49
0.300	24
0.150	8
0.075	5



Comments:

Approved Signatory: C Budimir

Name: Connor Budimir

Date: 17/September/2025

NATA **Accreditation No. 20599**
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WESTERN GEOTECHNICAL & Laboratory Services

SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - AS 1289.4.1.1

Client:	Dynamic Planning and Developments	*Ticket No.*	C597
Client Address:	-	*Report No.*	WC25.779-782_1_OMC
Project:	Proposed HCLIA	*Sample No.*	WC25.779-782
Location:	Hatch Court and Stirling Crescent, High Wycombe	*Date Sampled:*	Not Specified
Sample Identification:	Various - see below	*Date Tested:*	16/09/2025 - 17/09/2025

TEST RESULTS - Organic Matter Content of Soil - Normal Method

Sampling Method: **Sampled by Client, Tested as Received**

Sample Number	Sample Identification	Material Description	Organic Matter (%)
WC25.779	BH04 (1 - 1.4m)	Sandy Silt	10.7
WC25.780	BH06 (0.6 - 1.0m)	Sand	1.2
WC25.781	G07 (0.5 - 0.6m)	Sand	0.4
WC25.782	G10 (0.4 - 0.5m)	Sand	1.1

Comments:

Approved Signatory:

Name: Courtney Watt

Date: 18/September/2025

NATA WORLD RECOGNISED ACCREDITATION

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Certificate of Analysis PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Contact	Laboratory
Address	235 Bank Street, WELSHPOOL, WA, 6101

Sample Details

Your Reference	S18630 / Proposed HCLIA
Number of Samples	5 Soil
Date Samples Received	12/09/2025
Date Instructions Received	12/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	23/09/2025
Date of Issue	19/09/2025

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Authorisation Details

Results Approved By	Lien Tang, Assistant Operations Manager Lucas Yii, Inorganics Team Leader Varsha Ho Wing, Inorganics and Metals Supervisor
Laboratory Manager	Michael Kubiak

Certificate of Analysis PGI0989

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGI0989-01	WG25.15432 / BH02 (1-1.5m)	Soil	12/09/2025	12/09/2025
PGI0989-02	WG25.15434 / BH04 (1-1.4m)	Soil	12/09/2025	12/09/2025
PGI0989-03	WG25.15435 / BH06 (0.6-1.0m)	Soil	12/09/2025	12/09/2025
PGI0989-04	WG25.15437 / G07 (0.5-0.6m)	Soil	12/09/2025	12/09/2025
PGI0989-05	WG25.15438 / G10 (0.4-0.5m)	Soil	12/09/2025	12/09/2025

Certificate of Analysis PGI0989

Inorganics - General Physical Parameters (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
pH	pH units		8.4	4.8	7.3	7.8	7.7
Electrical Conductivity	µS/cm	2.0	300	1000	110	14	73

Certificate of Analysis PGI0989

PBI/PRI (Soil)

Envirolab ID	Units	PQL	PGI0989-01	PGI0989-02	PGI0989-03	PGI0989-04	PGI0989-05
Your Reference			WG25.15432 / BH02 (1-1.5m)	WG25.15434 / BH04 (1-1.4m)	WG25.15435 / BH06 (0.6-1.0m)	WG25.15437 / G07 (0.5-0.6m)	WG25.15438 / G10 (0.4-0.5m)
Date Sampled			12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
Phosphorus Retention Index	-		21	200	4.0	0.50	1.5

Method Summary

Method ID	Methodology Summary
AGRI-003_PRI	Phosphorous Retention index (PRI) is the ratio of adsorbed phosphorus to the equilibrium concentration. Phosphorus is extracted using KCl and determined colourimetrically. Result value is used to calculate PRI as per Allen and Jefferey.
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed. Blanks may yield EC readings >1µS/cm, this is likely due to adsorption of Carbon Dioxide while the blank sample is sat on the instrument autosampler prior to analysis. The values are generally insignificant (<5µS/cm) compared to most actual sample conductivities.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from the latest "Australian Drinking Water Guidelines", published by NHMRC. No guideline values have been set for Total Coliforms in drinking water. Increased concentrations should be investigated. Total Coliforms are not considered useful as indicators of the presence of faecal contamination.

Where we have provided guideline values eg. ADWG Health Value, it is the responsiblity of the reader to decide if the water is fit for consumption. Please note that the tests we have conducted are just a selection of common tests to give you a general idea of drinking water quality. There are many other tests included in the ADWG that we have not tested for.

Data Quality Assessment Summary PGI0989

Client Details

Client	Western Geotechnical & Laboratory Services
Your Reference	S18630 / Proposed HCLIA
Date Issued	19/09/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary PGI0989

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
EC | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
pH | Soil	1-5	15/09/2025	15/09/2025	16/09/2025	Yes
PRI | Soil	1-5	12/09/2025	16/09/2025	18/09/2025	Yes

Quality Control PGI0989

INORG-001|Inorganics - General Physical Parameters (Soil) | Batch BGI2590

Analyte	Units	PQL	Blank	DUP1 PGI0989-03 Samp | QC | RPD %	LCS %
pH	pH units		5.9	7.3 | 7.5 | 2.43	102
Electrical Conductivity	µS/cm	2.0	<2.0	108 | 108 | 0.00	98.4

AGRI-003_PRI|PBI/PRI (Soil) | Batch BGI2709

Analyte	Units	PQL	Blank	DUP1 PGI0989-01 Samp | QC | RPD %	LCS %
Phosphorus Retention Index	-		0.00	20.5 | 20.3 | 1.08	75.6

Appendix F: Environmental Laboratory Certificates of Analysis

Galt Environment P/L
50 Edward Street
Osborne Park
WA 6017

NATA Accredited
Accreditation Number 1261
Site Number 20794 & 2780

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **- ALL SRA/Results**

Report **1265933-S**
Project name HATCH CT HIGH WYCOMBE
Project ID WAG25018-01
Received Date Sep 09, 2025

Client Sample ID			**BH11/0.25**	**BH11/1.0**	**BH11/2.25**	**BH12/0.75**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**L25-Se0027209**	**L25-Se0027210**	**L25-Se0027211**	**L25-Se0027212**
Date Sampled			**Sep 05, 2025**	**Sep 05, 2025**	**Sep 05, 2025**	**Sep 05, 2025**
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	77	170	94	190
>2mm Fraction	0.005	g	53	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	59	100	100	100
Extraneous Material	0.1	%	41	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	1.2
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	15
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
pH-KCL (NLM-3.1)	0.1	pH Units	8.7	6.9	6.6	5.1
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	12
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	0.020
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	0.013	0.005	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	8.4	3.2	3.6
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	2.7	0.29	0.17	N/A
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	530	58	35	N/A
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.85	0.09	0.06	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	15
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	1.2
% Moisture	1	%	19	21	17	23

Client Sample ID			BH12/2.0	BH12/3.0	BH13/0.5	BH13/1.25
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027213	L25-Se0027214	L25-Se0027215	L25-Se0027216
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	100	100	130	94
>2mm Fraction	0.005	g	< 0.005	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	100	100	100	100
Extraneous Material	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	11	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	5.9	5.6	6.2	6.6
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	2.0	4.0	3.0	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	0.010	< 0.003	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	0.012	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	7.5	3.6
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	N/A	N/A	N/A	0.88
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	N/A	N/A	N/A	180
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	N/A	N/A	N/A	0.28
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	0.02	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	11	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1
% Moisture	1	%	16	15	28	19

Client Sample ID			BH13/2.50	BH14/0.25	BH14/1.75	BH14/2.75
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027217	L25-Se0027218	L25-Se0027219	L25-Se0027220
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	160	200	69
>2mm Fraction	0.005	g	< 0.005	100	< 0.005	< 0.005
Analysed Material	0.1	%	100	60	100	100
Extraneous Material	0.1	%	< 0.1	40	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	13
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
pH-KCL (NLM-3.1)	0.1	pH Units	6.2	9.5	8.0	5.4
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	9.0
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	0.010
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	0.005	0.006
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	3.2	3.8

Client Sample ID			BH13/2.50	BH14/0.25	BH14/1.75	BH14/2.75
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027217	L25-Se0027218	L25-Se0027219	L25-Se0027220
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Chromium Suite - NASSG (Excluding ANC)						
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	N/A	4.1	0.21	N/A
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	N/A	830	43	N/A
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	N/A	1.3	0.07	N/A
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	13
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1
% Moisture	1	%	15	14	14	18

Client Sample ID			BH15/0.75	BH15/1.25	BH15/2.5	BH16/0.50
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027221	L25-Se0027222	L25-Se0027223	L25-Se0027224
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	140	120	140	170
>2mm Fraction	0.005	g	< 0.005	< 0.005	< 0.005	< 0.005
Analysed Material	0.1	%	100	100	100	100
Extraneous Material	0.1	%	< 0.1	< 0.1	< 0.1	< 0.1
Chromium Suite - NASSG (Excluding ANC)						
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	< 1	< 1	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	< 10	< 10	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	7.1	6.9	6.4	7.0
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	< 2	< 2	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	< 0.003	< 0.003	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	< 0.005	< 0.005	< 0.005
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	< 3	< 3	< 3
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	0.29	0.21	N/A	0.43
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	58	41	N/A	85
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.09	0.07	N/A	0.14
ANC Fineness Factor		factor	1.5	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	< 0.02	< 0.02	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	< 10	< 10	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	< 1	< 1	< 1

Client Sample ID			BH15/0.75	BH15/1.25	BH15/2.5	BH16/0.50
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027221	L25-Se0027222	L25-Se0027223	L25-Se0027224
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit				
% Moisture	1	%	4.8	7.4	14	8.0

Client Sample ID			BH16/1.50	BH16/3.0	QC101
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			L25-Se0027225	L25-Se0027226	L25-Se0027227
Date Sampled			Sep 05, 2025	Sep 05, 2025	Sep 05, 2025
Test/Reference	LOR	Unit			
Extraneous Material					
<2mm Fraction	0.005	g	240	190	120
>2mm Fraction	0.005	g	< 0.005	22	160
Analysed Material	0.1	%	100	90	43
Extraneous Material	0.1	%	< 0.1	10	57
Chromium Suite - NASSG (Excluding ANC)					
CRS Suite - Liming Rate - NASSG (Excluding ANC)	1	kg CaCO3/t	< 1	6.6	< 1
CRS Suite - Net Acidity - NASSG (Excluding ANC)	10	mol H+/t	< 10	88	< 10
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	0.02	% S	< 0.02	0.14	< 0.02
pH-KCL (NLM-3.1)	0.1	pH Units	8.9	4.9	9.2
Titratable Actual Acidity (NLM-3.2)	2	mol H+/t	< 2	48	< 2
Titratable Actual Acidity (NLM-3.2)	0.003	% pyrite S	< 0.003	0.080	< 0.003
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)[S04]	0.005	% S	< 0.005	0.064	0.005
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	3	mol H+/t	< 3	40	3.4
Sulfur - KCl Extractable	0.005	% S	N/A	N/A	N/A
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0
HCl Extractable Sulfur	0.005	% S	N/A	N/A	N/A
Net Acid soluble sulfur (SNAS) NLM-4.1	0.005	% S	N/A	N/A	N/A
Net Acid soluble sulfur (a-SNAS) NLM-4.1	2	mol H+/t	N/A	N/A	N/A
Net Acid soluble sulfur (s-SNAS) NLM-4.1[S02]	0.005	% S	N/A	N/A	N/A
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	0.01	% CaCO3	0.50	N/A	4.3
Acid Neutralising Capacity - (a-ANCbt) (NLM-5.2)	2	mol H+/t	99	N/A	850
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)[S03]	0.02	% S	0.16	N/A	1.4
ANC Fineness Factor		factor	1.5	1.5	1.5
s-CRS Suite - Net Acidity - NASSG (including ANC)	0.02	% S	< 0.02	0.14	< 0.02
CRS Suite - Net Acidity - NASSG (Including ANC)	10	mol H+/t	< 10	88	< 10
CRS Suite - Liming Rate - NASSG (Including ANC)[S01]	1	kg CaCO3/t	< 1	6.6	< 1
% Moisture	1	%	14	13	14

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Extraneous Material	Brisbane	Sep 10, 2025	6 Week
- Method: LTM-GEN-7050/7070			
Chromium Suite - NASSG (Excluding ANC)	Brisbane	Sep 10, 2025	6 Week
- Method: LTM-GEN-7070 Chromium Reducible Sulfur Suite			
% Moisture	Brisbane	Sep 09, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			

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Site# 25079

Company Name: Galt Environment P/L
Address: 50 Edward Street
Osborne Park
WA 6017

Project Name: HATCH CT HIGH WYCOMBE
Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1265933
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Sep 9, 2025 11:55 AM
Due: Sep 16, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Moisture Set	Chromium Suite - NASSG (Excluding ANC)
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH11/0.25	Sep 05, 2025		Soil	L25-Se0027209	X	X
2	BH11/1.0	Sep 05, 2025		Soil	L25-Se0027210	X	X
3	BH11/2.25	Sep 05, 2025		Soil	L25-Se0027211	X	X
4	BH12/0.75	Sep 05, 2025		Soil	L25-Se0027212	X	X
5	BH12/2.0	Sep 05, 2025		Soil	L25-Se0027213	X	X
6	BH12/3.0	Sep 05, 2025		Soil	L25-Se0027214	X	X
7	BH13/0.5	Sep 05, 2025		Soil	L25-Se0027215	X	X
8	BH13/1.25	Sep 05, 2025		Soil	L25-Se0027216	X	X
9	BH13/2.50	Sep 05, 2025		Soil	L25-Se0027217	X	X
10	BH14/0.25	Sep 05, 2025		Soil	L25-Se0027218	X	X
11	BH14/1.75	Sep 05, 2025		Soil	L25-Se0027219	X	X
12	BH14/2.75	Sep 05, 2025		Soil	L25-Se0027220	X	X
13	BH15/0.75	Sep 05, 2025		Soil	L25-Se0027221	X	X
14	BH15/1.25	Sep 05, 2025		Soil	L25-Se0027222	X	X

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Received: Sep 9, 2025 11:55 AM
Due: Sep 16, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Moisture Set	Chromium Suite - NASSG (Excluding ANC)
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780						X	X
15	BH15/2.5	Sep 05, 2025		Soil	L25-Se0027223	X	X
16	BH16/0.50	Sep 05, 2025		Soil	L25-Se0027224	X	X
17	BH16/1.50	Sep 05, 2025		Soil	L25-Se0027225	X	X
18	BH16/3.0	Sep 05, 2025		Soil	L25-Se0027226	X	X
19	QC101	Sep 05, 2025		Soil	L25-Se0027227	X	X
Test Counts						19	19

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Chromium Suite - NASSG (Excluding ANC)									
pH-KCL (NLM-3.1)			%	98			80-120	Pass	
Titratable Actual Acidity (NLM-3.2)			%	111			80-120	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)			%	102			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
CRS Suite - Liming Rate - NASSG (Excluding ANC)	L25-Se0027209	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027209	CP	mol H+/t	< 10	< 10	<1	20%	Pass	
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027209	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
pH-KCL (NLM-3.1)	L25-Se0027209	CP	pH Units	8.7	8.8	2.0	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027209	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027209	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Se0027209	CP	% S	< 0.005	< 0.005	<1	20%	Pass	
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	L25-Se0027209	CP	mol H+/t	< 3	< 3	<1	20%	Pass	
Sulfur - KCl Extractable	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
HCl Extractable Sulfur	L25-Se0027209	CP	% S	N/A	N/A	N/A	20%	Pass	
Net Acid soluble sulfur (SNAS) NLM-4.1	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	L25-Se0027209	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (s-SNAS) NLM-4.1	L25-Se0027209	CP	% S	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	L25-Se0027209	CP	% CaCO3	2.7	2.4	11	20%	Pass	
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)	L25-Se0027209	CP	% S	0.85	0.77	11	30%	Pass	
ANC Fineness Factor	L25-Se0027209	CP	factor	1.5	1.5	<1	30%	Pass	
s-CRS Suite - Net Acidity - NASSG (including ANC)	L25-Se0027209	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Including ANC)	L25-Se0027209	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
CRS Suite - Liming Rate - NASSG (Including ANC)	L25-Se0027209	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	L25-Se0027217	CP	%	15	19	23	30%	Pass	
Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
CRS Suite - Liming Rate - NASSG (Excluding ANC)	L25-Se0027219	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027219	CP	mol H+/t	< 10	< 10	<1	20%	Pass	
s-CRS Suite - Net Acidity - NASSG (Excluding ANC)	L25-Se0027219	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
pH-KCL (NLM-3.1)	L25-Se0027219	CP	pH Units	8.0	8.0	1.0	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027219	CP	mol H+/t	< 2	< 2	<1	20%	Pass	
Titratable Actual Acidity (NLM-3.2)	L25-Se0027219	CP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Se0027219	CP	% S	0.005	0.005	<1	20%	Pass	

Duplicate									
Chromium Suite - NASSG (Excluding ANC)				Result 1	Result 2	RPD			
Chromium Reducible Sulfur (a-SCR) (NLM-2.1)	L25-Se0027219	CP	mol H+/t	3.2	3.2	<1	20%	Pass	
Sulfur - KCl Extractable	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
HCl Extractable Sulfur	L25-Se0027219	CP	% S	N/A	N/A	N/A	20%	Pass	
Net Acid soluble sulfur (SNAS) NLM-4.1	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (a-SNAS) NLM-4.1	L25-Se0027219	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur (s-SNAS) NLM-4.1	L25-Se0027219	CP	% S	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - (ANCbt) (NLM-5.2)	L25-Se0027219	CP	% CaCO3	0.21	0.21	2.0	20%	Pass	
Acid Neutralising Capacity - (s-ANCbt) (NLM-5.2)	L25-Se0027219	CP	% S	0.07	0.07	2.0	30%	Pass	
ANC Fineness Factor	L25-Se0027219	CP	factor	1.5	1.5	<1	30%	Pass	
s-CRS Suite - Net Acidity - NASSG (including ANC)	L25-Se0027219	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
CRS Suite - Net Acidity - NASSG (Including ANC)	L25-Se0027219	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
CRS Suite - Liming Rate - NASSG (Including ANC)	L25-Se0027219	CP	kg CaCO3/t	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	L25-Se0027227	CP	%	14	14	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
S01	Liming rate is calculated and reported on a dry weight basis assuming use of fine agricultural lime (CaCO3) and using a safety factor of 1.5 to allow for non-homogeneous mixing and poor reactivity of lime. For conversion of Liming Rate from 'kg/t dry weight' to 'kg/m3 in-situ soil' multiply 'reported results' x 'wet bulk density of soil in t/m3'
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5
S03	Acid Neutralising Capacity is only required if the pHKCl if greater than or equal to pH 6.5
S04	Acid Sulfate Soil Samples have a 24 hour holding time unless frozen or dried within that period

Authorised by:

Natalie Hill	Analytical Services Manager
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-SPOCAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 2377
Site Number 2370 & 2554

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **- ALL SRA/Results**

Report **1268461-W**
Project name HATCH CT HIGH WYCOMBE
Project ID WAG25018-01
Received Date Sep 15, 2025

Client Sample ID			**MW01**	**MW02**	**QC102**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**L25-Se0046302**	**L25-Se0046303**	**L25-Se0046304**
Date Sampled			**Sep 12, 2025**	**Sep 12, 2025**	**Sep 12, 2025**
Test/Reference	LOR	Unit			
Acidity (as CaCO3)	10	mg/L	36	12	11
Ammonia (as N)	0.02	mg/L	0.49	< 0.02	0.05
Chloride	5	mg/L	330	16	16
Conductivity (at 25 °C)	10	uS/cm	1400	430	430
Filterable Reactive Phosphorus	0.01	mg/L	< 0.01	0.05	0.12
NOx (as N)	0.01	mg/L	< 0.01	9.9	9.8
pH (at 25 °C)	0.1	pH Units	6.8	7.7	7.7
Salinity (at 25 °C)	10	mg/L	690	200	200
Sulfate (as SO4)	1	mg/L	35	< 1	13
Total Dissolved Solids Dried at 180 °C ± 2 °C	5	mg/L	810	360	350
Total Kjeldahl Nitrogen	0.2	mg/L	4.9	< 0.2	< 0.2
Total Nitrogen	0.2	mg/L	4.9	9.9	9.9
Total Phosphorus	0.01	mg/L	0.18	0.17	0.16
Alkalinity (speciated)					
Bicarbonate Alkalinity (as CaCO3)	5	mg/L	210	150	150
Carbonate Alkalinity (as CaCO3)	5	mg/L	< 5	< 5	< 5
Hydroxide Alkalinity (as CaCO3)	5	mg/L	< 5	< 5	< 5
Total Alkalinity (as CaCO3)	5	mg/L	210	150	150
Heavy Metals					
Aluminium	0.05	mg/L	0.80	2.5	2.5
Iron	0.01	mg/L	4.3	3.1	2.9
Alkali Metals					
Sodium	0.5	mg/L	120	15	12
Acid Sulphate Metals : Metals M9 filtered					
Aluminium (filtered)	0.05	mg/L	0.70	0.46	0.23
Arsenic (filtered)	0.001	mg/L	0.002	0.006	0.005
Cadmium (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001
Chromium (filtered)	0.001	mg/L	0.002	0.001	0.001
Iron (filtered)	0.01	mg/L	4.3	0.40	0.26
Manganese (filtered)	0.005	mg/L	0.35	0.055	0.036
Nickel (filtered)	0.001	mg/L	0.002	0.003	0.003
Selenium (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	0.065	0.10

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Acidity (as CaCO3)	Welshpool	Sep 15, 2025	14 Days
- Method: LTM-INO-4210 Acidity			
Ammonia (as N)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL303 - Ammonia in Water by Discrete Analyser			
Chloride	Welshpool	Sep 15, 2025	28 Days
- Method: ARL305 - Chloride in Water by Discrete Analyser			
Conductivity (at 25 °C)	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-INO-4030 Conductivity			
Filterable Reactive Phosphorus	Welshpool	Sep 15, 2025	28 Days
- Method: ARL309 - Filterable Reactive Phosphorus in Water by Discrete Analyser			
NOx (as N)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL313/319 - NOx in Water by Discrete Analyser			
pH (at 25 °C)	Welshpool	Sep 15, 2025	6 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Salinity (at 25 °C)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL019 - Conductivity and Salinity in Water			
Sulfate (as SO4)	Welshpool	Sep 15, 2025	28 Days
- Method: ARL301 - Sulfate in Water by Discrete Analyser			
Total Dissolved Solids Dried at 180 °C ± 2 °C	Welshpool	Sep 15, 2025	7 Days
- Method: ARL No. 017 - Total Dissolved Solids			
Total Kjeldahl Nitrogen	Welshpool	Sep 15, 2025	28 Day
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Nitrogen	Welshpool	Sep 15, 2025	28 Days
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Phosphorus	Welshpool	Sep 15, 2025	28 Days
- Method: ARL308 - Total Phosphorus in Water by Discrete Analyser			
Alkalinity (speciated)	Welshpool	Sep 15, 2025	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Heavy Metals	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Alkali Metals	Welshpool	Sep 15, 2025	6 Months
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Acid Sulphate Metals : Metals M9 filtered	Welshpool	Sep 15, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Project ID: WAG25018-01

Order No.: WAG25018-01
Report #: 1268461
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Sep 15, 2025 3:15 PM
Due: Sep 22, 2025
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						ASS Groundwater Quality Suite - WA Department of Environment and
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	MW01	Sep 12, 2025		Water	L25-Se0046302	X
2	MW02	Sep 12, 2025		Water	L25-Se0046303	X
3	QC102	Sep 12, 2025		Water	L25-Se0046304	X
Test Counts						3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Ammonia (as N)	mg/L	< 0.02			0.02	Pass	
Filterable Reactive Phosphorus	mg/L	< 0.01			0.01	Pass	
NOx (as N)	mg/L	< 0.01			0.01	Pass	
Salinity (at 25 °C)	mg/L	< 10			10	Pass	
Sulfate (as SO4)	mg/L	< 1			1	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	mg/L	< 5			5	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 5			5	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 5			5	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/L	< 0.05			0.05	Pass	
Iron	mg/L	< 0.01			0.01	Pass	
Method Blank							
Alkali Metals							
Sodium	mg/L	< 0.5			0.5	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	mg/L	-0.00012585			0.05	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Chloride	mg/L	< 5			5	Pass	
Method Blank							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Iron (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Selenium (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals							
Aluminium	%	90			80-120	Pass	
Iron	%	98			80-120	Pass	
LCS - % Recovery							
Alkali Metals							
Sodium	%	85			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	%	96			80-120	Pass	
Arsenic (filtered)	%	107			80-120	Pass	
Cadmium (filtered)	%	92			80-120	Pass	
Chromium (filtered)	%	103			80-120	Pass	
Iron (filtered)	%	100			80-120	Pass	
Manganese (filtered)	%	102			80-120	Pass	
Nickel (filtered)	%	97			80-120	Pass	
Selenium (filtered)	%	97			80-120	Pass	
Zinc (filtered)	%	101			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	110			80-120	Pass	
Cadmium (filtered)	%	92			80-120	Pass	
Chromium (filtered)	%	100			80-120	Pass	
Iron (filtered)	%	96			80-120	Pass	
Manganese (filtered)	%	98			80-120	Pass	
Nickel (filtered)	%	92			80-120	Pass	
Selenium (filtered)	%	95			80-120	Pass	
Zinc (filtered)	%	97			80-120	Pass	
LCS - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	106			80-120	Pass	
Chromium (filtered)	%	101			80-120	Pass	
Iron (filtered)	%	98			80-120	Pass	
Manganese (filtered)	%	99			80-120	Pass	
Nickel (filtered)	%	94			80-120	Pass	
Selenium (filtered)	%	96			80-120	Pass	
Zinc (filtered)	%	98			80-120	Pass	
CRM - % Recovery							
Sulfate (as SO4)	%	112			80-120	Pass	
CRM - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Arsenic (filtered)	%	91			90-110	Pass	
Cadmium (filtered)	%	98			90-110	Pass	
Chromium (filtered)	%	105			90-110	Pass	
Manganese (filtered)	%	108			90-110	Pass	
Nickel (filtered)	%	100			90-110	Pass	
Selenium (filtered)	%	91			90-110	Pass	
Zinc (filtered)	%	97			90-110	Pass	
CRM - % Recovery							
Chloride	%	109			80-120	Pass	
CRM - % Recovery							
Acid Sulphate Metals : Metals M9 filtered							
Aluminium (filtered)	%	93			90-110	Pass	
Arsenic (filtered)	%	104			90-110	Pass	
Cadmium (filtered)	%	92			90-110	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium (filtered)			%	110			90-110	Pass	
Iron (filtered)			%	110			90-110	Pass	
Manganese (filtered)			%	110			90-110	Pass	
Nickel (filtered)			%	108			90-110	Pass	
Selenium (filtered)			%	103			90-110	Pass	
CRM - % Recovery									
Chloride			%	115			80-120	Pass	
CRM - % Recovery									
Acid Sulphate Metals : Metals M9 filtered									
Arsenic (filtered)			%	99			90-110	Pass	
Cadmium (filtered)			%	107			90-110	Pass	
Chromium (filtered)			%	91			90-110	Pass	
Iron (filtered)			%	91			90-110	Pass	
Manganese (filtered)			%	107			90-110	Pass	
Nickel (filtered)			%	106			90-110	Pass	
Selenium (filtered)			%	100			90-110	Pass	
Zinc (filtered)			%	107			90-110	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
				Result 1					
Ammonia (as N)	L25-Se0046303	CP	%	104			80-120	Pass	
Chloride	L25-Se0046303	CP	%	106			70-130	Pass	
Filterable Reactive Phosphorus	L25-Se0046303	CP	%	107			80-120	Pass	
NOx (as N)	L25-Se0046303	CP	%	111			80-120	Pass	
Sulfate (as SO4)	L25-Se0046303	CP	%	110			70-130	Pass	
Spike - % Recovery									
Acid Sulphate Metals : Metals M9 filtered				Result 1					
Arsenic (filtered)	L25-Se0046303	CP	%	111			75-125	Pass	
Cadmium (filtered)	L25-Se0046303	CP	%	88			75-125	Pass	
Chromium (filtered)	L25-Se0046303	CP	%	100			75-125	Pass	
Iron (filtered)	L25-Se0046303	CP	%	95			75-125	Pass	
Manganese (filtered)	L25-Se0046303	CP	%	92			75-125	Pass	
Nickel (filtered)	L25-Se0046303	CP	%	91			75-125	Pass	
Selenium (filtered)	L25-Se0046303	CP	%	96			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	L25-Se0046302	CP	mg/L	0.49	0.46	8.0	20%	Pass	
Chloride	L25-Se0046302	CP	mg/L	330	340	2.0	30%	Pass	
Conductivity (at 25 °C)	L25-Se0043840	NCP	uS/cm	41000	41000	<1	30%	Pass	
Filterable Reactive Phosphorus	L25-Se0046302	CP	mg/L	< 0.01	< 0.01	<1	20%	Pass	
NOx (as N)	L25-Se0046302	CP	mg/L	< 0.01	< 0.01	<1	20%	Pass	
pH (at 25 °C)	L25-Se0043840	NCP	pH Units	7.7	7.7	1.0	30%	Pass	
Salinity (at 25 °C)	L25-Se0046302	CP	mg/L	690	670	2.0	20%	Pass	
Sulfate (as SO4)	L25-Se0046302	CP	mg/L	35	38	8.0	30%	Pass	
Total Dissolved Solids Dried at 180 °C ± 2 °C	L25-Se0046302	CP	mg/L	810	810	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	L25-Se0046302	CP	mg/L	0.80	0.79	1.0	30%	Pass	
Iron	L25-Se0046302	CP	mg/L	4.3	4.4	2.0	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Sodium	L25-Se0046302	CP	mg/L	120	120	1.0	30%	Pass	

Duplicate									
Acid Sulphate Metals : Metals M9 filtered				Result 1	Result 2	RPD			
Arsenic (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	4.0	30%	Pass	
Cadmium (filtered)	L25-Se0046302	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	13	30%	Pass	
Iron (filtered)	L25-Se0046302	CP	mg/L	4.3	4.7	1.0	30%	Pass	
Manganese (filtered)	L25-Se0046302	CP	mg/L	0.35	0.34	3.0	30%	Pass	
Nickel (filtered)	L25-Se0046302	CP	mg/L	0.002	0.002	3.0	30%	Pass	
Selenium (filtered)	L25-Se0046302	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	L25-Se0046302	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Sam Becker	Senior Analyst-Inorganic



Kim Rodgers
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request

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Appendix G: Acid Sulfate Soil Testing Results

Acid Sulfate Soil Field Testing

Field Observations						Lab pH	Chromium Reducible Sulfur Suite				Acid Sulfate Soil Classification
Sample ID		pH_f	pH_{fox}	$pH_f - pH_{fox}$	Reaction Rate	pH_{KCl}	Titratable Actual Acidity	Chromium Reducible Sulfur	Acid Neutralising Capacity	Net Acidity	
Location	Depth (m)	pH units	pH units	pH units	LMHXV	pH units	%S	%S	%S	%S	
		4	4	1	NV	NV	0.03	0.03	NV	0.03	NV
BH11	0.00	7.6	5.2	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.6	5.2	2.4	L	8.7	< 0.003	<0.005	0.85	< 0.02	NASS
	0.50	7.6	5.3	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	7.6	5.3	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.3	6.0	2.3	L	6.8	< 0.003	0.013	0.09	< 0.02	NASS
	1.25	8.3	6.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.5	6.0	2.5	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.4	5.5	2.9	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	8.3	5.3	3.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.3	5.0	3.3	L	6.6	< 0.003	0.005	0.06	< 0.02	NASS
	2.50	8.3	5.0	3.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	7.4	4.8	2.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	7.5	4.3	3.2	L	. . .	. . .	. . .	. . .	. . .	. . .
BH12	0.00	5.2	3.9	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	5.2	3.6	1.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	4.7	3.3	1.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	5.1	3.7	1.4	L	5.1	0.02	0.006	N/A	0.02	NASS
	1.00	5.6	4.3	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	5.9	4.9	1.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	6.4	5.1	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	6.7	5.2	1.5	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	6.8	4.9	1.9	L	5.9	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.25	6.7	4.6	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	6.5	4.2	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	6.8	4.1	2.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	6.9	4.1	2.8	L	4.0	0.01	< 0.005	N/A	< 0.02	NASS
BH13	0.00	7.3	5.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.3	5.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	7.2	5.0	2.2	L	6.2	< 0.003	0.012	N/A	0.02	NASS
	0.75	7.2	5.1	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	7.3	5.6	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	7.3	5.6	1.7	L	6.6	< 0.003	0.006	0.28	< 0.02	NASS
	1.50	7.4	5.6	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	7.4	5.3	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	7.5	5.9	1.6	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	7.8	6.0	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.0	5.8	2.2	L	6.2	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.75	8.1	5.9	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	8.1	5.8	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .

Acid Sulfate Soil Field Testing

Field Observations						Lab pH	Chromium Reducible Sulfur Suite				Acid Sulfate Soil Classification
Sample ID		pH_f	pH_{fox}	$pH_f - pH_{fox}$	Reaction Rate	pH_{KCl}	Titratable Actual Acidity	Chromium Reducible Sulfur	Acid Neutralising Capacity	Net Acidity	
Location	Depth (m)	pH units	pH units	pH units	LMHXV	pH units	%S	%S	%S	%S	
		4	4	1	NV	NV	0.03	0.03	NV	0.03	NV
BH14	0.00	8.2	5.8	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	8.2	5.8	2.4	L	9.5	< 0.003	< 0.005	1.3	< 0.02	NASS
	0.50	8.3	6.5	1.8	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	8.3	6.4	1.9	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.4	6.3	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.3	6.2	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.2	6.1	2.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.2	5.8	2.4	L	8.0	< 0.003	0.005	0.07	< 0.02	NASS
	2.00	8.2	4.4	3.8	M	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.3	3.9	4.4	M	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.5	2.9	5.6	H	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	8.4	2.6	5.8	M	5.4	0.01	0.006	N/A	0.02	NASS
	3.00	8.3	2.6	5.7	M	. . .	. . .	. . .	. . .	. . .	. . .
BH15	0.00	7.8	6.5	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	7.6	6.4	1.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	8.0	6.3	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.75	8.1	6.2	1.9	L	7.1	< 0.003	< 0.005	0.09	< 0.02	NASS
	1.00	8.2	6.2	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.3	5.9	2.4	L	6.9	< 0.003	< 0.005	0.07	< 0.02	NASS
	1.50	8.2	5.9	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.75	8.3	5.9	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	8.3	6.3	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	8.5	6.1	2.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	8.5	6.0	2.5	L	6.4	< 0.003	< 0.005	N/A	< 0.02	NASS
	2.75	8.5	5.8	2.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	8.3	6.4	1.9	L	. . .	. . .	. . .	. . .	. . .	. . .
BH16	0.00	8.3	6.3	2.0	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.25	8.3	6.1	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	0.50	8.2	6.1	2.1	L	7.0	< 0.003	< 0.005	0.14	< 0.02	NASS
	0.75	8.2	6.0	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.00	8.2	5.9	2.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.25	8.1	5.9	2.2	L	. . .	. . .	. . .	. . .	. . .	. . .
	1.50	8.0	5.7	2.3	L	5.9	< 0.003	< 0.005	0.16	< 0.02	NASS
	1.75	7.8	6.1	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.00	7.8	6.1	1.7	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.25	6.0	4.9	1.1	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.50	6.1	4.8	1.3	L	. . .	. . .	. . .	. . .	. . .	. . .
	2.75	6.0	4.6	1.4	L	. . .	. . .	. . .	. . .	. . .	. . .
	3.00	6.0	4.6	1.4	L	4.9	0.08	0.064	N/A	0.14	ASS

Appendix H: Groundwater Field Parameters

GROUNDWATER FIELD PARAMETERS

Date:	12/09/2025	Monitoring Well:	MW02	Purge Method:	LF
Job Number:	WAG250183	Depth to Water (mTOC)	1.77	Purge volume (L)	2.5
Site:	Hatch Ct High Wycombe	Depth of Well (mTOC)	3.32	Flow rate (L/min)	0.5
Field Rep:	SB	Stick-up (m):	0.62	Flow cell used:	Y
		Dipper correction	Y		

Observations	Volume (L)	Time	Temp(C)	DO(%L)	DO(mg/L)	SPC(uS/cm)	pH	Redox(mV)
Pale brown colour, mild turbidity, mild organic odour.	0.5	1	17.28	72.5	6.33	405.0	7.18	65
	1.0	2	17.28	70.1	6.21	405.0	7.17	58
	1.5	3	17.28	65.5	6.08	403.0	7.17	54
	2.0	4	17.27	62.3	5.98	400.0	7.16	54
	2.5	5	17.27	62.5	5.96	401.0	7.16	58

GROUNDWATER FIELD PARAMETERS

Date:	12/09/2025	Monitoring Well:	MW03	Purge Method:	LF
Job Number:	WAG250183	Depth to Water (mTOC)	0.93	Purge volume (L)	2.5
Site:	Hatch Ct High Wycombe	Depth of Well (mTOC)	3.54	Flow rate (L/min)	0.5
Field Rep:	SB	Stick-up (m):	0.65	Flow cell used:	Y
		Dipper correction	Y		

Observations	Volume (L)	Time	Temp(C)	DO(%L)	DO(mg/L)	SPC(uS/cm)	pH	Redox(mV)
Grey/ brown, high turbidity, strong organic odour.	0.5	1	16.6	34.0	2.59	1270.0	6.16	51.6
	1.0	2	16.6	33.1	2.59	1268.0	6.19	49.9
	1.5	3	16.5	30.2	2.56	1258.0	6.19	47.5
	2.0	4	16.05	29.4	2.45	1250.0	6.18	48.5
	2.5	5	16.05	27.0	2.45	1247.0	6.18	40.9

Appendix I: Tabulated Groundwater Results

Laboratory Analytical Results - Groundwater

			Field ID	MW01	MW02
			Date	12 Sep 2025	12 Sep 2025
			Sample Type	Normal	Normal
			Lab Report Number	1268461	1268461
	Unit	EQL	WA DWER Non-potable groundwater use guideline (NPUG) (2021)		
Other					
Acidity (as CaCO3)	**mg/L**	10		36	12
Inorganics					
Reactive Phosphorus (Orthophosphate)	**mg/L**	0.01		<0.01	0.12*
Nitrite + Nitrate as N	**mg/L**	0.01		<0.01	9.9
Alkalinity (Bicarbonate as CaCO3)	**mg/L**	5		210	150
Alkalinity (Carbonate as CaCO3)	**mg/L**	5		<5	<5
Alkalinity (Hydroxide) as CaCO3	**mg/L**	5		<5	<5
Alkalinity (total) as CaCO3	**mg/L**	5		210	150
Ammonia as N	**mg/L**	0.02		0.49	<0.02
Chloride (filtered)	**mg/L**	5	250	330	16
Electrical Conductivity (Lab)	**µS/cm**	10		1,400	430
Kjeldahl Nitrogen Total	**mg/L**	0.2		4.9	<0.2
Nitrogen (Total)	**mg/L**	0.2		4.9	9.9
pH (Lab)	**-**	0.1		6.8	7.7
Total Phosphorus (Organic Phosphate)	**mg/L**	0.01		0.18	0.17
Salinity	**mg/L**	10		690	200
Sodium	**mg/L**	0.5		120	15
Sulphate (filtered)	**mg/L**	1	1,000	35	13*
Total Dissolved Solids (Lab)	**mg/L**	5		810	360
Metals					
Aluminium	**mg/L**	0.05	0.2	0.80	2.5
Aluminium (filtered)	**mg/L**	0.05	0.2	0.70	0.46
Selenium (filtered)	**ug/L**	1	100	<1	<1
Arsenic (filtered)	**mg/L**	0.001	0.1	0.002	0.006
Cadmium (filtered)	**mg/L**	0.0001	0.02	<0.0001	<0.0001
Chromium (III+VI) (filtered)	**mg/L**	0.001		0.002	0.001
Iron	**mg/L**	0.01	0.3	4.3	3.1
Iron (filtered)	**mg/L**	0.01	0.3	4.3	0.40
Manganese (filtered)	**mg/L**	0.005	5	0.35	0.055
Nickel (filtered)	**mg/L**	0.001	0.2	0.002	0.003
Zinc (filtered)	**mg/L**	0.005	3	<0.005	0.065

* The highest value has been adopted from QA/QC samples

Environmental Standards

WA DWER, November 2021, WA DWER Non-potable groundwater use guideline (NPUG) (2021)

Standard Geotechnical Definitions, Recommendations, Requirements and Limitations

GDR1 ABOUT THIS APPENDIX

These technical notes are to be read with the attached report. These notes contain important information regarding the study in the attached report, and the report cannot be considered in isolation without full reading of these notes.

Where there are conflicts between this appendix and the report text, the report text takes precedence.

Unless noted otherwise, geotechnical investigations are conducted in accordance with AS1726-2017, “Geotechnical site investigations”.

Unless noted otherwise, the report does not include any assessment (or implied assessment) of karst risk.

GDR2 DEFINITIONS

The following definitions apply:

- **Approved Fill** – fill that has been assessed and approved by the geotechnical engineer or civil designer for a particular purpose.
- **Bedding** – A controlled fill layer placed beneath buried elements such as pipes, cables or other infrastructure to provide uniform support and distribute loading.
- **Bulk Fill** – Controlled fill intended to support future infrastructure, but potentially lacking some engineering properties required for upper fill layers or adjacent to structures, where fill with specific properties may be required. Contrast with Select Fill.
- **Civil Design** – the engineering design of the earthworks including surface water and erosion control and subsurface drainage control (where required) to achieve an earthworked, drained site which is capable of supporting the proposed development (including target site classification to AS2870, where relevant). This design is separate to this geotechnical investigation and is a required element of a site development.
- **Clay** – A component of a soil with particles smaller than 0.002 mm in size.
- **Cohesionless (Non-cohesive) Soil** – A soil mass that has does not hold together at low applied stress levels. The strength of the soil depends solely on friction between particles.
- **Cohesive Soil** – A soil mass that has holds together and can adhere to itself.
- **Collapsible Soil** – a soil with high void ratio that is typically strong when dry but loses strength and consolidates under constant stress when wetted, usually due to loss of soil matric suction or dissolving of a chemical cementing agent.
- **Compaction –** The process of increasing the soil density, typically be mechanical means.
- **Competent Person** – A person who has, through a combination of training, education and experience, acquired knowledge and skills enabling that person to correctly perform a specified task.
- **Consistency** – The stiffness of a cohesive soil, at specific moisture contents, to resist mechanical stress or manipulation (remoulding).
- **Controlled (or engineered) Fill** – Any fill for which engineering properties are controlled during placement. Also referred to as structural fill.
- **Dense –** with respect to sandy soils, at a relatively high density index or dry density ratio, exhibiting better engineering parameters with respect to strength and stiffness than the same material at a lower density index.
- **Density** – A measure of the mass of material per unit volume.
- **Eccentric Load** – a load incorporating either a varying vertical load and/or a horizontal load such that the peak vertical stress exceeds the average vertical stress.
- **Embedment Fill** – A controlled fill material placed around and above buried infrastructure (such as pipes, cables or conduits) to provide protection and support.
- **Fill** – Any material that has been placed by anthropogenic processes.
- **Fines** – A component of a soil with particles smaller than 0.075 mm in size.
- **Groundwater** – Water located beneath the earth’s surface in pore spaces, fractures and voids in soil or rock.

- **Gravel** – A component of a soil with particles between 2.36 mm and 63 mm in size.
- **Heavily Loaded** – in reference to mobile plant, particularly intended for equipment where ground bearing pressures exceed 50 kPa and/or equipment has a high centre of gravity and could be prone to toppling. In reference to buildings/structures, where footing pressures exceed 100 kPa and/or footing dimensions exceed 1 m wide.
- **Hydraulic Conductivity** – ratio of volume flux to hydraulic gradient – a quantitative measure of soil's ability to transmit water when subjected to a hydraulic gradient. k_{sat} – saturated hydraulic conductivity, intended for dewatering assessment, subsoil drainage design and other engineering assessments where saturated soils are relevant. k_{unsat} – unsaturated hydraulic conductivity, intended for design of stormwater disposal elements such as soakwells and infiltration basins, where the base of disposal elements is above the groundwater level.
- **In situ** – In the place and condition in which it exists naturally. May also refer to fill that is present at any site prior to an investigation taking place.
- **Limestone** – A sedimentary carbonate rock. The use of the term does not infer a specific strength, carbonate content or grain size. Refer to GDR4.1 for further detail.
- **Loose** – with respect to sand soils, at a relatively low density index or dry density ratio, typically indicating poorer engineering parameters with respect to strength and stiffness than the same material at a higher density index.
- **Material** – Matter that meets the definitions of 'soil', 'rock', other engineered matter (i.e., concrete, bricks etc.) or non-engineered matter (organics, contaminated refuse, deleterious material).
- **May** – Indicates that the statement is an option.
- **Must** – Indicates that the statement is mandatory.
- **Natural** – In the context of soil or rock, material which is present as a result of natural geological processes and has not been subject to anthropogenic engineering processes (such as filling, excavation, replacement, etc).
- **Organic** – In the context of soil, material derived from living matter, primarily plants.
- **Overconsolidated** – a soil that has been subjected to a greater vertical stress than its current state.
- **Permeable Soil** – soil that meets the civil design permeability requirements to allow relatively rapid flow of water through the soil matrix.
- **Rock** – Any aggregate of minerals and/or materials that cannot be disaggregated by hand in air or water without prior soaking.
- **Sand** – a component of soil with particle size between 0.075 mm and 2.36 mm.
- **Select Fill** – a controlled fill which has been chosen for particular engineering characteristics (such as strength, CBR, grading, permeability, etc), commonly for use as a higher-grade capping layer or adjacent to structures. Contrast with Bulk Fill.
- **Shall** – Indicates that the statement is mandatory.
- **Should** – Indicates that the statement is a recommendation.
- **Silt** – A component of a soil with particles between 0.075 mm and 0.002 mm in size.
- **Soil** – Particulate materials that occur in the ground and can be disaggregated or remoulded by hand in air or water without prior soaking.
- **Sand** – A component of a soil with particle between 0.075 mm and 2.36 mm in size.
- **Uncontrolled Fill** – Any material that has been deposited by anthropogenic process, which does not meet the definition of 'controlled fill'.

GDR3 GEOTECHNICAL TEST METHODS AND INTERPRETATION

GDR3.1 Test Pit Excavation

Test pit excavations are formed using mechanical excavation equipment (typically an excavator) or hand dug, with the objective of inspecting (or profiling) the soil exposed in the excavation.

Typical limitations on test pit excavations are:

- Limited depth of excavation – typically governed by reach of the excavator arm.
- Cannot be excavated below groundwater in cohesionless soils, due to collapse and water ingress.
- Cannot be excavated through very stiff / very dense soils (i.e., desiccated clays or cemented soils) or most rock.
- Cannot typically obtain rock samples that are suitable for strength testing.

Test pits are usually mechanically excavated with a toothed bucket (intended for excavation in clay or weak rock) or a flat-edged bucket (typically for sands).

When hand-dug test pits are excavated, it is usually for recovery of near-surface soils or inspection of shallow in-ground elements.

We note that where test pits are excavated on a site, they are only ever loosely backfilled during our studies. They must always be located during site preparation works, over-excavated to their full depth and plan extents and re-filled with approved fill in compacted layers.

GDR3.2 Cone Penetration Tests (CPTs)

Cone penetration testing (CPT) is done by Galt or specialist contractors and typically to AS1289.6.5.1. The test involves pushing an instrumented cone into the soil with a hydraulically operated pushing frame. The test measures tip resistance and sleeve friction on the cone, which are then plotted with depth.

We interpret soil types and associated geotechnical soil parameters from CPT data using the following:

Technical Interpretations and International Guides

- Robertson P.K., Campanella R.G., Gillespie D. and Grieg J. (1986). “Use of piezometer cone data”. Proceedings of the ASCE Speciality Conference In Situ ’86: Use of In Situ Tests in Geotechnical Engineering, Blacksburg, pp 1263-80, American Society of Civil Engineers (ASCE).
- Robertson, P.K., Cabal K.L. (2016) “Guide to Cone Penetration Testing for Geotechnical Engineering 6th Edition 2015”. Gregg Drilling & Testing, Inc., California.
- Baldi G., Bellotti R., Ghionna V.H., Jamiolkowski M., Lo Presti D. C. (1989) “Modulus of sands from CPTs and DMTs”. Proc. 12th Int. Conf. on SMFE, Rio de Janeiro, Vol 1, p165-170, Balkema, Rotterdam.

Local (Perth and Western Australia) Research, Interpretation and Guides

- Fahey, M., Lehane, B., Stewart, D. (2003) “Soil stiffness for shallow foundation design in the Perth CBD”. Australian Geomechanics Vol. 8 No. 3.
- Main Roads Western Australia (MRWA) (2009) “Structures Engineering Design Manual”. Document 3912/03, Perth.
- Lehane B. (2017). “CPT-Based Design of Foundations”, E.H. Davis Memorial Lecture, Australian Geomechanics, Vol 54. No. 4’ and
- Galt’s in-house correlations between CPT data and other geotechnical testing.

GDR3.3 Borehole Drilling

Boreholes are drilled for sampling of the soil and rock, with a small disturbance footprint. Typical techniques are:

- Auger drilling (hand auger or machine auger) – for recovery of soil at relatively shallow depths only. Cannot penetrate cemented soils or rock.
- Push probe drilling – for recovery of soil at relatively shallow depths and below groundwater. Cannot penetrate cemented soils or rock.

- Air core drilling – for recovery of soil, cemented soil and rock (typically up to high strength rock). Not suited to drilling of very high strength rock.
- Diamond coring (or rotary coring) – for recovery of cemented soil, rock and some soil types (typically not sand). Suited to all strengths of rock.

If used, standard penetration tests (SPTs) are done in accordance with AS1289.6.3.1. Correlations for consistency and density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.4 Dynamic Cone Penetrometer (DCP)

The DCP is a hand-held tool for assessing penetration resistance of a soil. This comprises a 16 mm rod equipped with a 20 mm cone, hammered into the ground using a falling 9 kg weight on a 510 mm slide hammer on the top of the rod. This is done in accordance with AS1289.6.3.2 and the blow counts to hammer in the rod are measured in 100 mm penetration increments. Where provided, correlations for consistency and density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.5 Perth Sand Penetrometer (PSP)

The PSP is a variation on a DCP and uses a 9 kg weight on a 600 mm slide hammer to hammer in a 16 mm rod with a blunt (square-faced) end. Testing is done in accordance with AS1289.6.3.3, with the following typical variations:

- Testing is often done to a greater depth than the 450 mm covered in the standard.
- Blow counts are sometimes recorded in 150 mm intervals (compared to 300 mm intervals used in the standard) to provide better resolution on the tests.

Where provided, correlations for density are based on:

- Standards Australia (2016), "HB160-2006, Soils Testing".

GDR3.6 Dynamic Probing Super Heavy (DPSH)

The DPSH test involves driving a solid cone (20 cm^2) into the ground using a 63.5 kg hammer falling 760 mm. Testing is done in accordance with EN ISO 22476-2 – Geotechnical engineering – Field testing – Part 2: Dynamic probing – DPSH-B.

Results may be presented as either:

- N10 (No. of blows required for every 100 mm penetration);
- N30 (No. of blows required for every 300 mm penetration); or
- q_d (dynamic tip resistance, analogous to CPT q_c).

GDR3.7 Inverse Auger Hole Infiltration Test (Falling Head, Unsaturated Soil)

Infiltration tests are carried out using the 'inverse auger hole' method described by:

- Cocks, G (2007), "Disposal of Stormwater Runoff by Soakage in Perth Western Australia", Journal and News of the Australian Geomechanics Society, Volume 42 No. 3, pp 101-114

This test is an unsaturated falling head test, in that it is carried out above the groundwater table and is intended to mimic the behaviour of soak wells and similar drainage elements (i.e. soakage basins), which discharge stormwater into an unsaturated medium.

The hole is wetted only for a short period prior to the testing.

The test is usually repeated three times, with the intention that the second and third tests provide similar results (within about 10%-20%). Tests are done over a short duration, typically 2 minutes to 10 minutes. The focus of the testing is generally when the head is low (200 mm or lower), such that the relevant lateral zone is as saturated as the zone directly below the borehole.

The hydraulic conductivity derived from this test is not to be used for applications where saturated hydraulic conductivity is relevant, e.g.:

- Subsoil drainage design; and

- Dewatering estimations.

Based on Galt's in-house research, this method does not completely saturate the soil in any reasonable test length, and thus may not be suitable for assessment of soils at sites where the critical drainage condition is a fully saturated soil (i.e., in areas with high groundwater tables). Our research on sand sites indicates that the test does correlate well with actual soak well performance, in unsaturated sand zones without impermeable zones.

GDR3.8 Guelph Permeameter Test (Constant Head, Quasi-Saturated Soil)

The Guelph permeameter test, conducted in accordance with the constant head test method outlined in Appendix G of AS1547, is a constant-head test in nominally "saturated" soil (in that the test is conducted until a "steady state" is reached). However, we note that this test can only be done above the groundwater table and as such, is in an unsaturated zone. Therefore, the hydraulic conductivity derived from this test should be used with caution and evaluated against other test methods (such as saturated, constant-head permeability testing from laboratory samples, or in situ saturated hydraulic conductivity testing below the groundwater table).

GDR4 GEOLOGICAL UNITS

GDR4.1 Limestone

The term 'Limestone' is used to describe a carbonate rock. Tamala Limestone is the common limestone in Western Australia, and typically comprises cemented quartz and shell fragments cemented together by calcium carbonate.

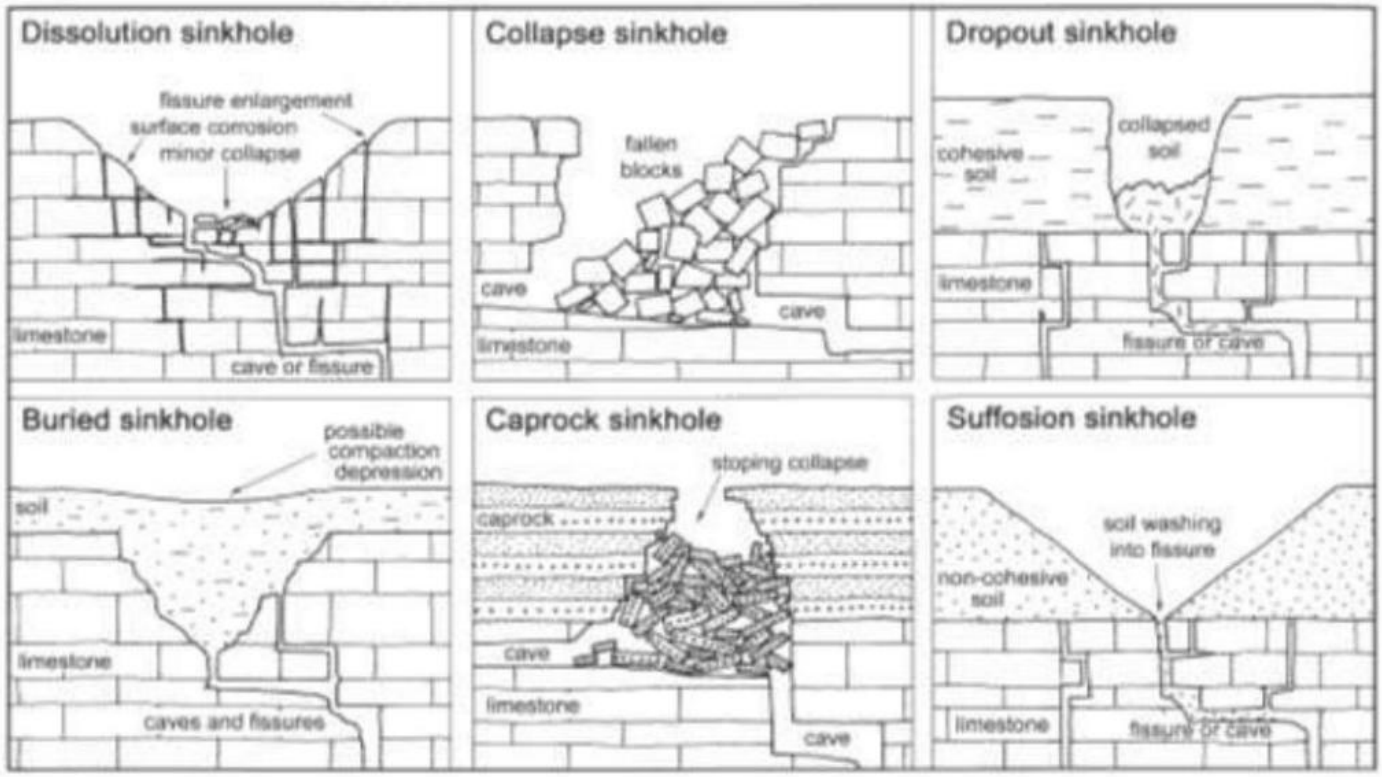
Limestone can vary significantly across short distances in composition, strength and cementation. Tamala limestones in Western Australia also have known possible geological features including:

- Caprock/calcrete – The formation of a very hard duricrust, usually due to sun exposure. Caprock may be up to 3 m thick, but typically around 1.5 m thick. Caprock is very difficult to excavate and may require the use of hydraulic rock breakers or rock saws to excavate.
- Solution features/tubes – Often initially formed due to the presence of Eucalypt and Jarrah roots during limestone formation, and often increasing in depth and size due to ongoing weathering. May be up to 500 mm in diameter. These are typically filled with very loose, unconsolidated sand.
- Pinnacles – Pinnacles are usually the limestone that is left around surrounding solution features. Often can comprise very hard limestone/caprock that can be substantially higher than surrounding areas. Pinnacles may have also been formed by surrounding erosion (i.e., wind/water).
- Karst/caves – Karst is caused by the dissolution of limestone, typically where there is interaction in low-lying areas with water and limestone. Karst manifests itself as loose near-surface sand with cavities (caves) in the underlying limestone. This can lead to sinkholes and collapse of overlying structures.

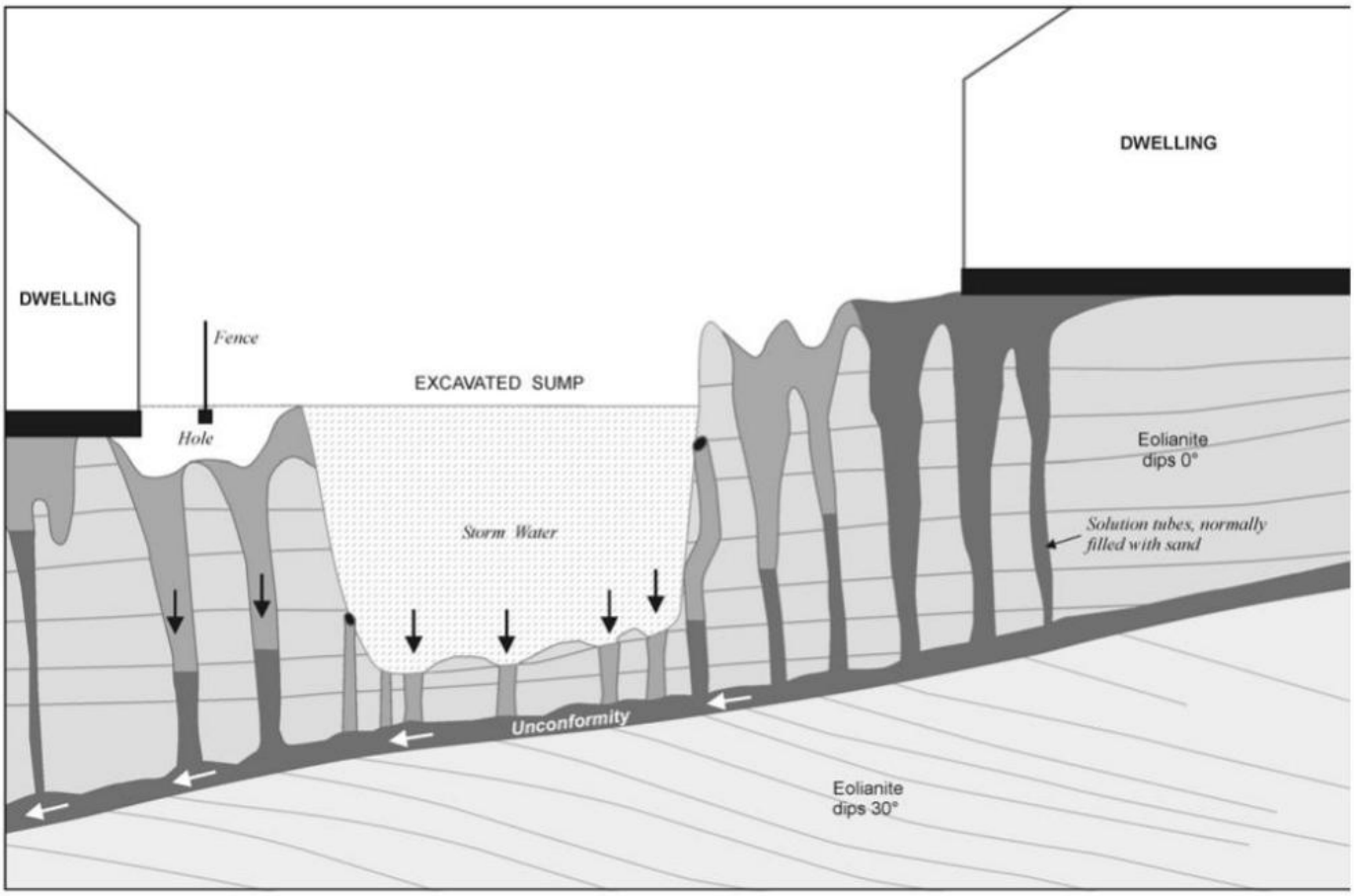
Inline images showing typical pinnacle/solution features and Karstic features follow. These are taken from:

- Gordon, R. (2003). "Coastal Limestones". Australian Geomechanics Vol.38 No. 4, The Engineering Geology of Perth.
- Waltham, A. & Fookes, P. (2003). "Engineering Classification of Karst Ground Conditions: Quarterly Journal of Engineering Geology and Hydrogeology, Vol 36.

Inline Image GDR 1 - Karstic Sinkhole Features from Waltham and Fookes (2003)



Inline Image GDR 2: Pinnacle/Solution Features from Gordon (2003)



GDR4.2 Pindan Sands and Collapsible Soils

In the Western Australian context, Pindan sands are sandy soils present predominantly across the Pilbara and Kimberley regions. Pindan sands are typically:

- Red brown in colour.
- Between 10% and 40% fines.
- Of aeolian origin, usually resulting in unconsolidated in situ conditions (nuclear density gauge testing often indicates these soils have in situ density ratios of 80%-85% of modified maximum dry density).
- Very strong when dry due to high soil suctions in the fine fraction, which create strong bonds between the sand particles.

As the grains are usually held in place by the dry fine fraction, this can lead to:

- very high settlements (i.e., “collapse”) as the grain-to-grain bonds are weakened as matric suction decreases on soaking; and
- loss of vertical and horizontal strength/stiffness as the grain-to-grain bonds weaken.

The risks associate with Pindan sands are usually quantified in terms of the collapse potential/magnitude of possible collapse events.

Other similar soils are present in Western Australia that may exhibit similar collapse potential and may not strictly be Pindan sands (i.e., have other grain-to-grain bonding mechanisms).

GDR5 SITE CLASSIFICATION

Site classification refers to the assessment of a site in reference to AS2870-2011, “Residential slabs and footings”. The method for assessing the site class is outlined in Section 2 of AS2870-2011, which indicates that this may be done by:

- assessing the characteristic surface movement, due to seasonal moisture changes in the soil profile;
- assessing the performance of existing foundations; or
- assessment of the soil profile (where there are deleterious inclusions, landfill, putrescible waste etc.).

The site classifications based on the expected characteristic surface movement are summarised in Table GDR 1.

Table GDR 1: Summary of Site Classifications (AS2870-2011)

Class	Description	Characteristic Surface Movement (y_s)
A	Most sand and rock site with little or no ground movement from moisture change	Not Defined (typically <5 mm)
S	Slightly reactive clay sites with only slight ground movement from moisture changes	0 – 20 mm
M	Moderately reactive clay sites, which may experience moderate ground movements from moisture change	20 – 40 mm
H1	Highly reactive sites, which may experience high ground movements from moisture change	40 – 60 mm
H2	Highly reactive sites, which may experience very high ground movements from moisture change	60 – 75 mm
E	Extremely reactive sites, which may experience extreme ground movements from moisture change	>75 mm
P	Sites which include soft soils, such as soft clay or silt or loose sands; landslip; mine subsidence; collapsing soils; soils subject to erosion; reactive sites subject to abnormal moisture conditions or sites which cannot be classified otherwise	Not Defined

The calculated characteristic surface movement is predominantly based on:

- the reactivity (i.e., the shrink-swell potential) of the soil (and any proposed fill);
- the design depth of soil suction change, which is the maximum expected depth of soil suction change due to seasonal soil moisture changes; and
- the depth to any bedrock and groundwater table.

The design depth of soil suction change for Western Australia has been refined using the Thornthwaite Moisture Index (TMI). We have carried out assessment using the depths as detailed in:

- Hu Y, Saraceni P, Cocks G, Zhou M (2016). "TMI assessment and climate zones in Western Australia". Australian Geomechanics Journal, Vol.51 No.3.
- Hu Y, Raj A, Cocks G, Verheyde F (2019). "Re-assessment of TMI based climate zones in metropolitan Perth, WA". ANZ Geomechanics Conference 2019, Perth Australia.

The design depth of soil suction change for Northern Territory is based on the research presented in:

- Jackson, S (2022), "Thornthwaite moisture index and climate zones in the Northern Territory", Australian Geomechanics Journal, Vol. 57 No. 3.

We highlight that AS2870-2011 does not make any reference to the fines content of a soil when assessing the site classification.

Where a site classification is provided in our reports, it is always predicated on the requirement that the recommended site preparation procedures are carried out.

We also highlight that the footing performance and shrink-swell movements of a site can be impacted by the planting or removal of trees. This should be considered where appropriate, and we refer to the CSIRO BTF 18-2011 "Foundation Maintenance and Footing Performance: A Homeowner's Guide" for further information.

AS 2870 is limited to single and double storey residential buildings with normal shallow footings with a maximum bearing pressure of 100 kPa and is not applicable where development types other than this are proposed.

GDR6 SITE PREPARATION

GDR6.1 General

The intent of the site preparation guidelines provided in the above report are to ensure that the earthworks can be constructed to meet specific requirements, i.e., minimum compaction, fill requirements, removal of unsuitable material etc. The site preparation guidelines are not exhaustive, and on-site conditions may dictate that other preparation measures may be required to meet geotechnical requirements.

GDR6.2 Site Preparation

Site preparation measures outlined in this section relate to bulk earthworks at the site in preparation for the construction of buildings, pavements and other structures.

The preparation of a site in accordance with outlined measures below or those presented in the report text does not imply that the site is suitable for heavily loaded plant or eccentric loads. This is especially applicable for working platforms for mobile plant including cranes, crawlers or the like. The site surface may still not be trafficable for mobile plant. Individual working platform assessments must be done if heavily loaded mobile plant are proposed.

GDR6.2.1 Common Measures

The common measures outlined below are to prepare standard sites in advance of proof compaction, bulk excavation and filling. These measures are applicable to most sites, however the applicability of these measures is stated in the main report.

Table GDR 2: Common Measures

Measure	Commentary
Demolish and remove structures and pavements	Demolish existing structures and pavements, including removal of all buried services and footings and dispose off-site.
Remove demolition debris and other deleterious material	Remove any demolition debris and other deleterious material from site including old footings, slabs, soak wells, buried services, paving and building rubble.
Strip uncontrolled fill (where present)	Strip any uncontrolled fill from the site (where encountered) and, if suitable, stockpile it for potential re-use as non-structural fill. If contaminated, dispose off-site. Refer to the report text for discussions on the presence of detected uncontrolled fill and its composition. It is important to realise that undetected uncontrolled fill may be present between test locations and the absence of its identification in our report does not preclude its presence. If uncontrolled fill is detected during site works, please contact us for inspection and to provide recommendations.
Remove trees	All tree roots must be removed, this may result in significant excavation in places. Where tree roots and stumps are removed, the disturbed soil must be over-excavated and replaced with controlled, compacted fill. Backfilling of over-excavations is discussed in the following sections .
Strip and stockpile topsoil.	Strip and stockpile topsoil from unpaved areas of the site for potential re-use in non-structural applications. The topsoil strip is only necessary to remove roots and we recommend a topsoil strip as necessary to remove all roots from the soil.
Carry out bulk excavation	Excavate to the required level. Stockpile suitable excavated material for potential re-use as fill (the re-use of spoil as fill , if appropriate, is discussed in the report text) and remove unsuitable or excess material off-site.
Batter edges of excavation	Excavations should be battered to a temporary slope as given in the report text where applicable and not in close proximity to adjacent structures etc. If required, construct temporary/permanent retaining walls where batters cannot be accommodated.

By following these measures, the site should have been prepared to a point where topsoil and vegetation has been removed to expose either natural soil or controlled fill. Over-excavation to the required levels may then be required for some projects. Once complete, the site is now ready for proof compaction and filling.

GDR6.2.2 Sand Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by sand.
- No collapsible soils present.
- No deep loose sand.
- Compaction of a loose upper horizon to maximum 1 m depth.
- No shallow groundwater (<1 m deep).
- No limestone or other rock present at shallow depth.
- “Common Measures” outlined in Section GDR6.2.1 have been completed (as required).

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings, pavements and any other settlement-sensitive infrastructure is proposed.

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 3: Sand Site Measures

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must **not** assume that the use of the PSP is appropriate.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.

In following this method, shallow/surficial loose sand will be compacted, and the site will be filled (where required) in preparation for supporting footings, ground slabs, pavements and the like.

GDR6.2.3 Deep Loose Sand Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by sand.
- Collapsible soils or deep loose sand present (if applicable, this is discussed in the report).
- Over-excavation, compaction and replacement of loose sand required.
- No shallow groundwater (<1 m deep).
- No limestone or other rock present at shallow depth.
- "Common Measures" outlined in Section GDR6.2.1 have been completed.

The greatest depth of compaction that can be achieved with standard compaction equipment (vibrating roller, etc) is around 1 m (for sands). As such, it is necessary to cut down the site level to a point where this compaction can be done to the lowest level needed to be improved.

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings and any other settlement-sensitive infrastructure are proposed. Not typically required for pavement subgrades, however, this is discussed in the report if required.

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 4: Deep Loose Sand Site Measures

Measure	Commentary
Over-excavate to the required depth.	Over-excavate sand soil to the depth stated in the report and, if appropriate (discussed in report) retain it for re-use as fill. Over-excavation is likely to be done in stages depending on the site area available for earthworks. Excavations must be battered to a temporary slope as given in the report text where applicable and not in close proximity to adjacent structures etc. If required, construct temporary/permanent retaining walls where batters cannot be accommodated.
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must **not** assume that the use of the PSP is appropriate.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.

Measure	Commentary
Carry out bulk filling	Where fill is required to build up levels (including restoration of the site surface level to the original level), use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction as specified in Section GDR7.1.

In following this method, deep, loose sand will be compacted to a sufficient depth to reduce settlement impacts and the site will be filled (where required) in preparation for supporting footings, ground slabs, pavements and the like.

GDR6.2.4 Clayey Sites

The preparation measures outlined below are provided for sand sites meeting the following criteria:

- Site underlain by cohesive soils (typically >12% fines, i.e., clayey enough for the fines proportion of the soil to dominate behaviour).
- No collapsible soils present.
- No deep soft soils or organic soils.
- Over consolidated clayey soils present which will not be subject to significant primary or secondary consolidation (settlements expected to be within the limit of typical seasonal movements occasioned by moisture content changes, which would be captured in assignment of an AS2870 site classification).
- No shallow groundwater (<1 m deep)
- No rock present at shallow depth.
- "Common Measures" outlined in Section GDR6.2.1 have been completed.

The applicability of these measures is stated in the main report. These measures must be carried out for all areas where structures, footings, pavement subgrades and any other settlement-sensitive infrastructure is proposed.

Unless specified otherwise in the report, the **Approved Fill** to be used is **Clay** as outlined in Section GDR8.

Table GDR 5: Clay Site Measures

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed clayey ground to achieve the density specified in Section GDR7.1 ("fine grained soils") to a depth of at least 300 mm.
Test proof compaction	Check that the density specified in Section GDR7.1 ("fine grained soils") has been achieved to a depth of at least 300 mm. The use of a penetrometer for compaction control of cohesive soils is not an appropriate substitute for in situ NDG testing.
Treat areas of loose or unsuitable material	Any areas of soft clayey soils or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill**. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where excavations are done into clayey soils (e.g. to treat soft zones, remove root balls and the like), they must not be backfilled filled with sand fill (even where a sand topping layer is proposed). Where fill is required (including backfilling of excavations to remove trees), only use **Approved Fill**, moisture conditioned, placed and compacted in layers of no greater than 300 mm loose thickness. Test moisture and compaction as specified in Section GDR7.1.
Grade completed clayey surface	Surface water control is essential for clayey sites. This also applies to control of infiltrated water into sand topping layers or the like. The surface of clayey ground must be graded at a minimum of 1% crossfall to drain. This is a general recommendation, and an appropriate civil design must be done to account for surface and subsoil drainage.
Install sand topping layer	Where a sand topping layer is proposed, this should be done as outlined in Section GDR6.2.5.

These measures do not take into account the objectives of the civil design for the site, particularly with regard to surface water drainage and groundwater control (including clay grading, subsoil drainage, thickness and composition of a sand topping layer and the like). This must be taken into account by the civil designer. General commentary on drainage control measures is presented in Section GDR14.

GDR6.2.5 Sand Topping Layer

Where a sand topping layer is required:

Unless specified otherwise in the report, the **Approved Fill** to be used is outlined in Section GDR8 (**Permeable Sand** where permeable fill is required, else **General Sand**). The specific selection is subject to the requirements of the civil designer.

Table GDR 6: Sand Topping Layer Measures

Measure	Commentary
Prepare Substrate	Prepare the clayey or other substrate as separately outlined prior to installing the topping layer.
Build up sand topping layer	Build up level to the required level with **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness to achieve the density specified in Section GDR7.1.

For the purposes of achieving the allowable bearing pressures and site classification discussed in the report, it is not necessary to have the bases of slabs and footings in the sand topping layer, i.e. if required, they may extend through the sand topping layer into clayey soil below.

GDR6.2.6 Limestone Sites

The preparation measures outlined below are provided for sites underlain by limestone (refer to Section GDR4.1), meeting the following criteria:

- Site underlain by sand overlying limestone.
- Compaction of a loose upper horizon to maximum 1 m depth, with localised deeper treatments between pinnacles if required.
- No shallow groundwater (<1 m deep)
- “Common Measures” outlined in Section GDR6.2.1 have been completed.

The site preparation measures outlined below are aimed at improvement of the site in preparation for construction of the structures including on-ground slabs, shallow footings, retaining walls and pavements.

Unless specified otherwise in the report, the **Approved Fill** may comprise one of the following as specified in Section GDR8 (the specific selection is subject to the requirements of the civil designer):

- **Permeable Sand** where permeable fill is required
- **General Sand** where permeable fill is not required
- **Mixed Sand/Limestone Fill** where permeable fill is not required

The re-use of any limestone for fill is subject to the requirements of the civil design and discussions in the report text. The use of **Mixed Sand/Limestone Fill** is discussed in Section GDR6.2.7. The preparation measures outlined in Table GDR 7 assume sand fill.

Table GDR 7: Standard Limestone Site Measures (Bulk Earthworks)

Measure	Commentary
Treat zones of loose sand	Where deep loose sand is present (particularly, but not exclusively, between limestone pinnacles), over-excavate to the depth as noted in the report . Sand should be retained for re-use as fill if recommended in the report. Limestone debris and pinnacles should be separated and only re-used if recommended in the report.
Moisture condition and proof compact.	Moisture condition and compact the exposed sandy ground to achieve the density specified in Section GDR7.1 ("sand") to a depth of at least 900 mm. Proof compaction of intact limestone is not required.
Test proof compaction	Check that the density specified in Section GDR7.1 ("sand") has been achieved to a depth of at least 900 mm. We note that the applicability of the use of the PSP for compaction control is discussed in the report. Unless specifically approved for use on the subject site, the contractor must not assume that the use of the PSP is appropriate. If refusal to the test method is encountered within the target test depth on limestone and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact limestone is not required.
Treat areas of loose or unsuitable material	Any areas of loose sand or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as approved fill.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in limestone and specific advice may apply to the installation of soakwells in limestone areas. If not discussed in our report, please contact us for further advice.

Without further consultation with the structural designer, footings for any one structure must not be founded on a mixture of sand and intact limestone. This is due to potential differential settlements between limestone zones (relatively stiff) and soil zones (relatively soft). Where this is the case, the measures outlined in Table GDR 8 must be followed, only with guidance from the structural designer and Galt.

Table GDR 8: Standard Limestone Site Measures (Footing and Slab Preparation)

Measure	Commentary
Excavate and compact for slabs, subgrades, pad or strip footings	Excavate for pad and strip footings. Where a mix of soil and limestone is present below any one structure, one of the following must be done (to be agreed with structural designer and us): ▪ **Over-excavate limestone and replace with compacted soil:** Typically where the foundation largely comprises soil and a relatively small amount of limestone is present. Where footings and slabs are founded partly on soil and partly on limestone, over-excavate the limestone by at least 300 mm below the base of footing or slab and replace the excavated material with compacted **Approved Fill**. ▪ **Remove soil from over limestone and replace with concrete**: Typically where the foundation largely comprises limestone and a relatively small amount of soil is present. Localised zones of sand and mixed sand/limestone rubble must be removed and replaced with lean-mix concrete, e.g. 10 MPa blinding concrete. ▪ **Design the structure to accommodate differential foundation movements:** For example, include construction joints or use a more heavily reinforced footing (subject to the structural designer's requirements).
Test compaction of footing bases, slabs or subgrades.	Compact the exposed bases to achieve the density specified in Section GDR7.1 ("sand"), to a depth of at least 900 mm, or to the depth where limestone is intersected. If refusal to the test method is encountered within the target test depth on limestone and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact limestone is not required. Remove, replace and compact as required with approved fill any zone not achieving the density specified in Section GDR7.1 ("sand")

GDR6.2.7 Mixed Sand/Limestone Filling

On sites where deemed appropriate by the Civil Design, **Approved Fill** may comprise limestone rubble fill (**Mixed Sand/Limestone**, as specified in Section GDR8).

The preparation measures outlined below are provided for sites meeting the following criteria:

- No shallow groundwater (<1 m deep)
- "Common Measures" outlined in Section GDR6.2.1 have been completed.
- Substrate preparation for the relevant site type has been done in preparation for further filling (as relevant for sand, limestone or clayey sites discussed in the preceding sections).

The site preparation measures outlined below are required prior to construction of structures including on-ground slabs, shallow footings, retaining walls and pavements.

Table GDR 9: Mixed Sand/Limestone Fill Measures

Measure	Commentary
Develop a method specification for the filling	A performance specification is not appropriate for compaction control in **Mixed Sand/Limestone** fill, due to oversize limestone particles and the limitations of test methods. Therefore, a method specification is required. Development of a method specification is discussed in Section GDR7.5. A tentative method specification for **Mixed Sand/Limestone** Fill preparation is also provided.
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in accordance with the developed method specification.
Maintain Construction Records	As performance testing cannot be done, quality assurance records are limited. Therefore, the parameters mentioned in Section GDR7.5.1 must be kept in a comprehensive record of the earthworks done to the developed method specification. The use of the PSP is possible only to check for loose sand zones between limestone particles. High PSP blow counts, where limestone particles are intersected, are meaningless in terms of assessing density of the prepared fill. The primary means of validation of the earthworks is conformance with the developed method specification.
Install sand topping layer	Where a sand topping layer is proposed, this should be done as outlined in Section GDR6.2.5.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in limestone fill and specific advice may apply to the installation of soakwells in limestone fill areas. If not discussed in our report, please contact us for further advice.

GDR6.2.8 Rock Sites

The preparation measures outlined below are provided for sites underlain by rock, meeting the following criteria:

- Site underlain by shallow soil overlying rock, or outcropping rock.
- No shallow groundwater or surface water (>1 m deep).
- Common site preparation measures outlined in GDR6.2.1 have been completed. In addition to these measures, any surface cobbles/boulders will need to be removed from the site.

The site preparation measures outlined below are aimed at improvement of the site for construction of structures including on-ground slabs, shallow footings, retaining walls and pavements.

Approved Fill will be as specified in this report. The re-use of any rock for fill is subject to the civil design requirements and any other requirements noted in the report text. The preparation measures outlined below assume **Approved Fill**.

Table GDR 10: Standard Rock Site Measures (Bulk Earthworks)

Measure	Commentary
Moisture condition and proof compact.	Moisture condition and compact the exposed ground (soil above rock) to achieve the density specified in Section GDR7.1 to a depth of at least 300 mm. Proof compaction of rock is not required.
Test proof compaction	Check that the density specified in Section GDR7.1 has been achieved to a depth of at least 300 mm. in situ NDG testing is suitable to assess compaction. Compaction control of intact rock is not required.
Treat areas of loose or unsuitable material	Any areas of loose / soft or unsuitable material (including over-excavated areas of former trees and root balls) must be removed and replaced with compacted **Approved Fill** as outlined in the report or as noted above. The report will explain the suitability of site-derived materials for re-use as **Approved Fill.**
Carry out bulk filling	Where fill is required to build up levels, use **Approved Fill**, placed and compacted in layers of no greater than 300 mm loose thickness. Test compaction to achieve the density specified in Section GDR7.1.
Grade surface	Surface water control may be required for lower permeability soils/rock, or at an interface where high permeability fill is placed over relatively impermeable soils/ rock. The surface of any impermeable ground / rock must be graded at a minimum of 1% crossfall to drain. This is a general recommendation, and an appropriate civil design must be done to account for surface and subsoil drainage.

These measures do not take into account the specifics of the civil design, including the requirement (if any) for excavatable and/or free draining layers to achieve construction and drainage objectives. The civil design must take precedence and is not specifically considered in this advice.

Soakwells can perform poorly in rock and specific advice may apply to the installation of soakwells in these areas. If not discussed in our report, please contact us for further advice.

Without further consultation with the structural designer, footings for any one structure must not be founded on a mixture of sand and rock. This is due to potential differential settlements between rock zones (relatively hard) and soil zones (relatively soft). Where this is the case, the measures outlined below must be followed, only with guidance from the structural designer and Galt.

Table GDR 11: Standard Rock Site Measures (Footing and Slab Preparation)

Measure	Commentary
Excavate and compact for slabs, subgrades, pad or strip footings	Excavate for pad and strip footings. Where a mix of soil and rock is present below any one structure, one of the following must be done (to be agreed with structural designer and us): ▪ **Over-excavate rock and replace with compacted soil:** Typically where the foundation largely comprises soil and a relatively small amount of rock is present. Where footings and slabs are founded partly on soil and partly on rock, over-excavate the rock by at least 300 mm below the base of footing or slab and replace the excavated material with compacted **Approved Fill**. ▪ **Remove soil from over rock and replace with concrete**: Typically where the foundation largely comprises rock and a relatively small amount of soil is present. Localised zones of sand and mixed sand/rock rubble must be removed and replaced with lean-mix concrete (e.g. 10 MPa blinding concrete) or cement stabilised sand (minimum UCS=2 MPa at 7 days). ▪ **Design the structure to accommodate differential foundation movements:** For example, include construction joints or use a more heavily reinforced footing (subject to the structural designer's requirements).

Measure	Commentary
Test compaction of footing bases, slabs or subgrades.	Compact the exposed bases to achieve the density specified in Section GDR7.1, to a depth of at least 300 mm, or to the depth where rock is intersected. If refusal to the test method is encountered within the target test depth on rock and the results to the refusal depth are acceptable, it is not necessary to repeat compaction testing at that location. Compaction control of intact rock is not required. Remove, replace and compact as required with **Approved Fill** any zone not achieving the density specified in Section GDR7.1.

GDR6.3 Guidance on Sites with Cohesive Soils

Cohesive soils (most commonly, "clayey" soils) require careful moisture conditioning to facilitate compaction. We recommend that the moisture content of the material is between optimum moisture content (OMC) and 2% wet of OMC at the time of placement and compaction. We note that compaction to the densities specified in Section GDR7.1 can be difficult to achieve for clayey material when not appropriately moisture conditioned.

Vibratory padfoot rollers are preferred for compacting cohesive fill to promote proper kneading and interlocking of subsequent layers.

Clayey soils will drain poorly when inundated following rain events and result in saturated conditions that may inhibit compaction of the soil. In general, it is preferable to avoid trying to re-work clayey sites within several days of any substantial rainfall.

We recommend that the surfaces of clayey sites are sealed by compaction (i.e., final compaction should be with a smooth drum roller) and graded to drain (to avoid low spots where water can pond and cause softening) prior to any rain events. Stripping back of softened materials to expose competent natural or compacted clayey soil is required before continuing earthworks.

If difficulties are experienced during compaction due to water, further advice should be sought from a geotechnical engineer.

GDR6.4 Preparation and Testing of Shallow Footings

GDR6.4.1 General

It is preferable to dig all footing excavations carefully with a flat-edged bucket to minimise the disturbance of underlying foundation soil.

Where the footing base is disturbed, or compaction is required, this must be done using appropriate compaction equipment particular to the task (as evaluated by the contractor) – typically a 'jumping jack', self-propelled plate compactor or an excavator-mounted plate compactor.

All footing bases must be tested to achieve the density requirements of Section GDR7.1 unless otherwise specified. PSP testing of sand foundations is only applicable where the use of the PSP is specifically approved in the report, otherwise all testing is to be done using the NDG.

Sand Topping Layer – Where a sand topping layer is present over a different soil (i.e., clay, limestone etc.), testing of the density of the sand topping layer is only necessary within the thickness of the sand topping layer. Testing does not need to extend into the underlying compacted substrate, which is separately subjected to compaction control.

Mixed Sand/Limestone Fill – Where mixed sand/limestone fill has been installed to a method specification, no compaction control testing is required, however re-compaction of the base must be done as noted above.

In situ limestone – where in situ limestone (weakly or more cemented limestone, with no sand zones or voids) is present at a footing base and no over-excavation has been done (refer to Section GDR6.2.6 regarding over-excavation of footing bases in limestone), then no compaction control testing is required.

Where loose or soft material is encountered, one of the following actions must be taken:

- Over-excavate the loose / soft layer to expose a suitable layer that does meet the required density (Section GDR7.1) and either:
- Place and compact Approved Fill (relevant to the appropriate preparation measures outlined in Section GDR6.2) to achieve the required density (Section GDR7.1); or

- Pouring blinding concrete (f'c>15 MPa at 28 days) from the competent layer up to the underside of the footing.

All foundations must be assessed by a competent person prior to blinding.

GDR6.4.2 Footings in Clay

Where footings are excavated into natural clay and not subject to filling, density testing (e.g., NDG testing) is not required at the base of the footings. This will be highlighted in the report text if this is relevant to the site conditions. Footing bases must be dug with a flat-edged excavator bucket and the underlying soil not disturbed by trafficking or over-excavation.

In these instances, only testing with a DCP is required in accordance with AS1289.6.3.2 at the footing base to achieve the required blow counts indicated in the report text, to a minimum depth of 0.6 m below the base of the footing, or other depth as indicated in the report text. Where the minimum blow count specified cannot be met, the following options are possible to prepare the footing base:

- Scarify, moisture condition and re-compact all zones not achieving the minimum blow counts. Re-test with a DCP to confirm that any soft zones are remediated; or
- Over-excavate and replace all zones not achieving the minimum blow counts with a suitable compacted low permeability fill (e.g., crushed limestone, clayey fill or other approved fill). This fill must be compacted to the appropriate level as specified in GDR7; or
- Over-excavate and replace all zones not achieving the minimum blow counts with blinding concrete (min. 10 MPa at 28 days) or cement-stabilised sand (min. 2 MPa at 7 days). This is typically appropriate where only the upper zones below the footing base are soft.

Measures must be taken to minimise moisture changes in clayey foundation soils at the base of footing excavations. Concrete footings are to be poured soon after excavation to minimise the potential for excessive moisture change. The use of a concrete blinding layer following foundation preparation should be considered.

GDR7 COMPACTION AND MOISTURE CONDITIONING

GDR7.1 Requirements

Any soil within the significant founding zone of structures (buildings, slabs, pavements, etc.) must be suitably moisture conditioned and compacted. These soils must be compacted to the requirements as outlined below.

Table GDR 12: Compaction and Moisture Requirements

Soil Description	Soil Particle Limits	Moisture Requirement	Density Requirement (DDR)	Possible QA/QC Test Methods
Sand	<5% fines <5% gravel *Maximum particle size 9.5 mm*	MOMC ±2%	95% MMDD	PSP NDG
Gravel	<5% fines >50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG
Clayey/Silty Gravel	5-35% fines >50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG
Sand with fines or gravel	5-35% fines; and/or 5-50% gravel *Maximum particle size 19.0 mm*	MOMC ±2%	95% MMDD	NDG Method Specification
Fine grained soils (Clayey or Silty)	>35% fines *Maximum particle size 19.0 mm*	MOMC ±2%; or SOMC ±2%[2]	92% MMDD; or 95% SMDD	NDG Method Specification
Oversize/rubbly soil	Any soils with particles >19.0 mm	MOMC ±2%	95% MMDD (Or equivalent to)	Method Specification Detailed Assessment Based on Specific Material

NOTES: ***1.*** *DDR – Dry Density Ratio*

MMDD – Modified maximum dry density (AS1289.5.2.1)
MOMC – Modified optimum moisture content (AS1289.5.2.1)
SMDD – Standard maximum dry density (AS1289.5.1.1)
SOMC – Standard optimum moisture content (AS1289.5.1.1)
PSP – Perth Sand Penetrometer
NDG – Nuclear Density Gauge

2. *Preferably OMC to OMC +2%, for ease of compaction and producing a homogenous fill*
3. *Test frequencies are specified in Section GDR7.6.*

The soil groups and definitions outlined above are generally based on AS1726-2017. Test methods are discussed in subsequent sections.

GDR7.2 Construction Recommendations

Over-excavation and replacement of loose material must be done where the minimum DDR cannot be achieved.

Fill must be placed in horizontal layers of not greater than 300 mm loose thickness. Each layer must be compacted by suitable compaction equipment, and carefully controlled to ensure even compaction over the full area and depth of each layer.

Care will need to be taken if compacting in the vicinity of existing structures, such as the adjacent properties. This is particularly important if vibratory compaction is being carried out.

- Tynan (1973), "Ground Vibration and Damage Effects on Buildings", Australia Road Research Board, Special Report No. 11.

Tynan (1973) provides guidance on the selection of compaction equipment for use adjacent to structures. The distance of influence (i.e., the definition of "vicinity") will vary depending on the size of compaction plant proposed for use. Where there is concern regarding the impact on nearby structures, a dilapidation study should be done.

Care must be taken when compaction is undertaken when the site surface is within 1 m of the groundwater level, as compaction (particularly with vibration) can draw the water up to the surface. In this instance, consideration should be given to:

- Static rolling only;
- Using a pioneering layer (if possible); or
- Dewatering to keep the water at least 1 m below the surface being compacted.

GDR7.3 Nuclear Density Gauge

Where applicable, a nuclear density gauge (NDG) must be used in accordance with AS1289.5.8.1. NDG tests must be done to a depth of 300 mm or as otherwise indicated in the text of the attached report.

GDR7.4 Perth Sand Penetrometer

Where clean sand is used (<5% fines and <5% gravel), a Perth sand penetrometer (PSP) may be used for compaction control in accordance with AS1289.6.3.3. Refer to the report for recommended blow counts correlating to the specified density.

Where the fines or gravel contents of a sand soil exceed the maximum contents noted above, a PSP must not be used exclusively for compaction control. As a minimum, ongoing confirmation testing with an NDG is required. If not specified in our report, please contact us for further advice regarding test frequencies.

If difficulties are experienced recording the required blow counts, a site-specific PSP correlation should be carried out to determine the PSP blow count correlating to a DDR of 95% MMDD. In addition, a particle size distribution (PSD) test should be carried out to verify that the use of a PSP is suitable for the sands being tested. A site-specific PSP correlation must:

- be done on site;
- use the nuclear density gauge (NDG) to determine density at a minimum of 5 points with varying density to a depth of 300 mm below surface;
- include at least 1 point where the dry density ratio is in excess of 95% MMDD;
- use a calibrated PSP to determine the PSP blow count from 150 mm to 450 mm at each NDG test point; and
- be plotted on a chart of PSP blow count vs DDR.

Only where specifically stated as applicable in the report and where the use of the PSP is relevant as noted above, the following values may be taken as deemed to conform to a dry density ratio of 95% MMDD for the relevant sand type.

Table GDR 13: Deemed-to-comply Values for PSP Results in Perth Sands

Depth Interval (mm)	Bassendean	Tamala	Calcareous
0-150	SET	SET	SET
150-450	7	8	12
450-750	9	10	14
750-1050	11	12	16

NOTES:
1. *Blows per 300 mm interval*
2. *Bassendean Sand is typically a white - grey, low-fines quartz sand found on the eastern part of the Perth coastal plain*
3. *Tamala / Spearwood sand is typically yellow or orange, low-fines quartz sand found on the western part of the Perth coastal plain*
4. *Calcareous sands are typically white or yellow, calcareous sand found in low-lying areas on the western fringe of the Perth coastal plain*
5. *Values derived from Galt experience on PSP correlations done on sites across Perth for the 150-450 mm interval.*

GDR7.5 Method Specifications

GDR7.5.1 General

Where proposed, a method specification should be developed by a geotechnical engineer or similarly qualified person and ratified by us (including a site visit by us). The method specification should be confirmed by the construction of a trial pad or trial area and the compaction methodology should be checked against either:

- density, as assessed using a nuclear density gauge; or
- settlement, as assessed using a dGPS.

Specific advice should be requested for the development of a method specification, taking into consideration the material being compacted.

Method specification compliance should be maintained for all areas on a minimum 20 m grid, with the compliance to include:

- Roller used (weight, style, vibration);
- Water application rate (per lift);
- Layer thickness placed; and
- Number of passes with roller.

GDR7.5.2 Indicative Method Specification – Sand/Limestone Rubble Mix

Where mixed sand/limestone is used as structural fill, a performance specification is not appropriate due to the inaccuracies of standard test methods (NDG/PSP etc.) in this type of material. A method specification can be used instead. The following indicative method specification is provided for evaluation and trial but must be trialled and ratified by us prior to widespread employment on site. The following would be typically adopted:

- Maximum particle size: 250 mm
- Maximum loose layer thickness: 350 mm
- Minimum watering rate: 10 L/m^2/100 mm thickness of loose material (e.g. 35 L/m^2 for a 350 mm thick layer)
- Minimum 8 passes with a vibrating padfoot roller, minimum static weight 10 tonnes.
- The compacted fill must comprise closely packed particles without any significant voids between the larger particles.

GDR7.6 Testing Frequency

After compaction, verify that the required density has been achieved by testing at the base of excavation and through the full depth of any fill, and to a minimum depth of:

- 900 mm where a PSP is used; or
- 300 mm where a NDG is used.

The frequency of testing (when a method specification is not used) should be as follows:

Table GDR 14: Compaction Testing Frequency Requirements

Area	Minimum Testing Frequency	Minimum Tests Per Lot
Proof Compacted Area	1 test per 1,000 m^2 (30 m grid)	2
Structural Fill Outside of Building and Pavement Footprints	1 test per 500 m^3 2 tests per layer *Whichever is greater*	2
Structural Fill Within Building and Pavement Footprints	1 test per 500 m^3 4 tests per layer *Whichever is greater*	4
Spread/Pad Footings	1 test per 9 m^2 per footing	1
Strip Footings/Retaining Wall Foundations	Minimum 2 tests At 5 m centres *Whichever is greater*	2
On-ground slabs, pavements and rafts	Minimum 2 tests At 10 m centres 1 test per 100 m^2 *Whichever is greater*	2

NOTES: ***1.*** *A 'lot' is defined in the context of this section as a section of earthworks that is undertaken in one operation where the equipment, personnel, materials and methodology are consistent throughout the entire process. This would typically be limited to operations done in one day, but this is not mandatory.*

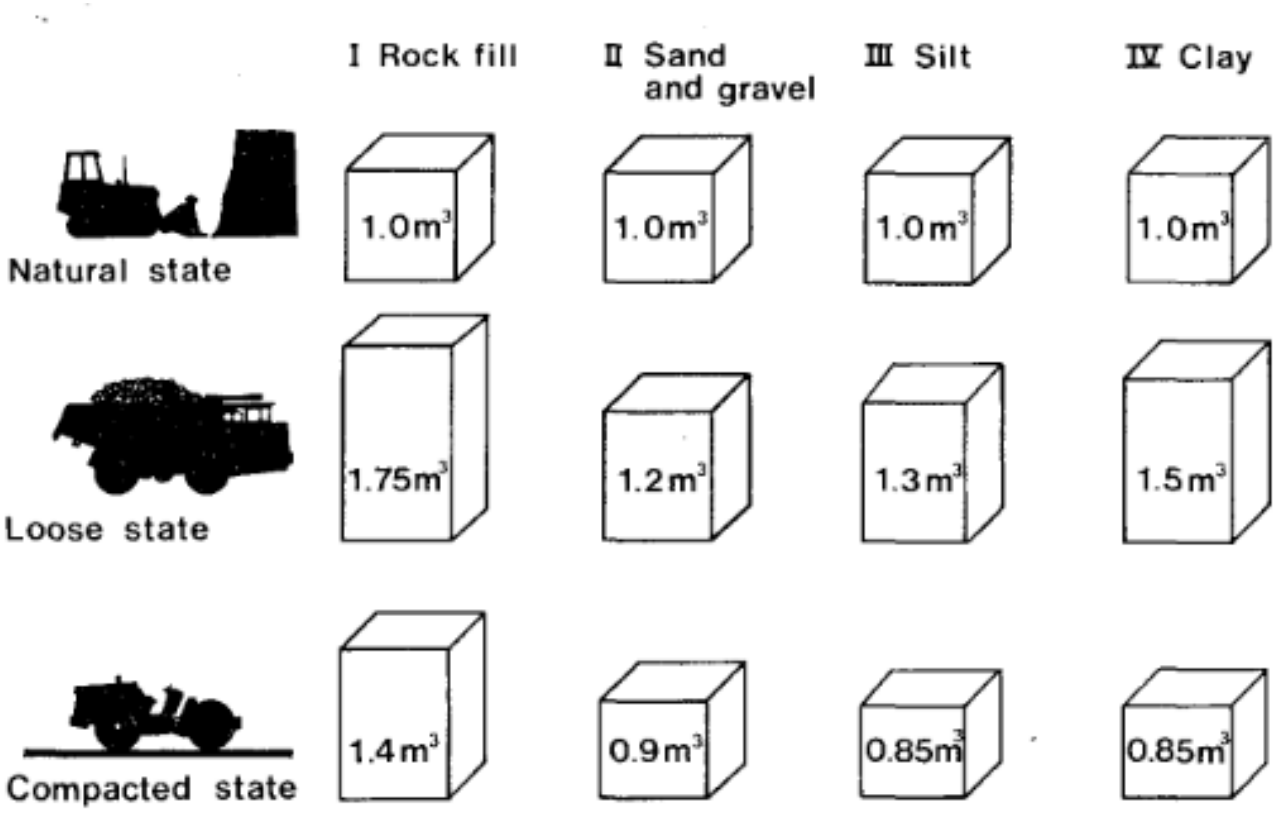
2. *There will frequently be multiple 'lots' in an earthworks process, therefore the number of tests must be adjusted according to the minimum number per lot in this table (where this is more than the frequency specified in 'testing requirements').*

GDR7.7 Bulking and Compaction Factors

All soils will "bulk" when excavated to stockpile, and "compact" when placed from stockpile to earthworks layers. Published bulk and compaction factors are presented below for conventional materials, taken from:

- Forssblad, L (1981), "Vibratory Soil and Rock Fill Compaction", Dynapac Maskin AB

Inline Image GDR 3: Volumes of Different Types of Fill Materials in Natural, Loose and Compacted State



These values are indicative only and will vary according to site specific conditions. The values provided here must not be used for commercial volume estimates or settling disputes regarding volumes.

GDR8 APPROVED FILL AND CONFORMANCE TESTING

Imported fill must comply with the material requirements as stated in AS 3798-2007, “Guidelines on Earthworks for Commercial and Residential Developments”.

Where doubt exists, a geotechnical engineer must be engaged to inspect and approve the use of potential fill materials.

The following table presents recommended material parameters for standard fill types. This does not take account of availability of materials either on site or in the local area. Refer to the report text for specific advice on fill at the subject site.

Table GDR 15: Standard Fill Recommendations

Soil Description	Application	Soil Particle Limits (%)[3]				k_{min}[1] (m/d)	OC[2] (%)	Atterberg Limits		CBR[6] (%)	Test Method[4]
		Fines	Sand	Gravel	Max.			LL (%)	PI (%)		
Permeable Sand	Permeable bulk fill Retaining wall backfill Permeable select fill	≤5	≥90	≤5	9.5	5	≤2	NP	NP	≥12	PSP NDG
General Sand	Bulk fill Select fill (permeability not required)	≤5	≥90	≤5	9.5	N/A	≤2	NP	NP	≥12	PSP NDG
Silty Sand	Bulk fill Select fill	≤35	≥55	≤10	9.5	N/A	≤2	<35	<11	≥12	NDG
Clayey Sand	Bulk fill Select fill	≤35	≥55	≤10	9.5	N/A	≤2	<40	N/A	≥12	NDG
Granular Fill	Bulk Fill	≤30[10]	Varies[10]	Varies[10]	37.5	N/A	≤2	<40	N/A	N/A	NDG
Mixed Sand/Limestone	Bulk fill (permeability not required)	≤5	≥20	≤80	250	N/A	≤2	NP	NP	N/A	NDG Method
Blue Metal Gravel[8]	Retaining wall backfill Drainage trench backfill	≤3	≤5	≥90	37.5	5	≤1	NP	NP	N/A	NDG
Clay[7]	Reinstatement of localised excavations in clay Bulk fill	≥12	Varies	≤30	19	N/A	≤2	Varies			NDG

NOTES:

1. *k_{min} – minimum saturated hydraulic conductivity (AS1289.6.7.1, remoulded to minimum DDR 100% MMDD).*
2. *OC – organic content (Walkley-Black method recommended, AS1289.4.1.1 – not loss on ignition methods)*
3. *% by mass.*
4. *Test method indicates possible compaction control methods for this material.*
   PSP – Perth sand penetrometer (AS1289.6.3.3). Where a PSP is used, a site-specific correlation must be done unless otherwise noted in the report.
   NDG – Nuclear density gauge (AS1289.5.8.1)
   Method – method specification
5. *Atterberg Limits: LL – liquid limit PI – plasticity index NP – non-plastic*
6. *CBR: California bearing ratio (for sand - remoulded to DDR 95% MMDD @ OMC, 4.5 kg surcharge). CBR values may be changed depending on the design pavement requirements.*
7. *"Clay" fill type is included for broad reference only and to illustrate preferred applications, particle size limits and recommended test method. Specific discussion on the use of clayey fills is included in the report text if applicable. Atterberg limit and CBR testing of clayey fills may be required and advice must be sought from us if not stated in the report.*
8. *"Blue metal" gravel refers to single sized, crushed, washed igneous rock gravel used for drainage purposes.*
9. *In the absence of specific test frequencies by the civil designer, the testing shown in Table GDR 16 must be done (highlights in Table GDR 15 show where the test is required).*
10. *Sand and gravel must be reasonably graded to control the risk of soil ingress from surrounding layers. Where the fines content is high (e.g. above ~15%), the gravel content should proportionally increase to meet the requirements for "granular fill". We recommend a minimum gravel content of 30% where the fines content is above 15%.*

Table GDR 16: Conformance Testing Frequency Requirements

Parameter	Frequency (m^3)	Minimum Tests per Source	AS1289 Reference
Particle size distribution	5,000	1	3.6.1
Hydraulic conductivity (permeability)	10,000	2	6.7.1
Organic content	5,000	1	4.1.1
Atterberg limits	5,000	1	3.1.1, 3.2.1, 3.3.1
CBR	10,000	2	6.1.1

NOTES: ***1.*** *Frequency is for the nominal number of cubic metres of compacted fill.*

2. *Unless stated otherwise in the report text, the conformance testing must also be carried out on site-derived materials to confirm suitability.*

GDR9 SHALLOW FOUNDATIONS

GDR9.1 Design

Footings and slabs may be designed in accordance with the assigned site classification in accordance with AS2870-2011. We note that AS2870-2011 is limited to single and double storey residential and commercial developments and may not be strictly applicable.

Where the report provides tables for shallow footing design, custom footings may be designed by the structural engineer using the data provided therein.

GDR9.2 Interpretation of Provided Values

BEARING PRESSURES

All settlement and bearing pressures estimates are provided on the assumption that the site preparation requirements outlined in the report are completed below all structures plus a minimum distance of 1 m beyond the outside edge of any footing or slab. It is essential that the soil below all foundations is appropriately prepared as outlined and meets the relevant compaction requirements.

Allowable bearing pressures for footings of intermediate plan dimensions (to any tabulated) can be interpolated. Footings that have a plan dimension either smaller or larger than those presented in the report will need to be considered individually along with other embedment depths.

Allowable bearing pressures, where provided, are considered to be the upper limit for shallow footings to limit total and differential settlements. Footings carrying eccentric loading, such as below retaining walls, must be assessed separately.

SETTLEMENTS

The reporting of settlements to any precision level is not intended to imply a high accuracy of settlement prediction. Settlements as reported should be considered ‘order of magnitude’.

Estimated settlements represent vertical downwards movement due to loading and do not take into account potential additional movement associated with the characteristic surface movement of the soil (which must be taken in addition to these settlements from loading, refer Section GDR5). The site classification is discussed in the report.

The actual settlement of any proposed structure will depend upon a number of factors including the applied pressures, footing size and base preparation. The estimated settlement(s) provided in this report are for the working bearing pressures as indicated. Differential settlements are likely between footings of similar sizes, loads and elevations (as stated in the report text). A proportion of the settlement is expected to occur during construction (i.e., during initial loading.

The provided settlement estimates (unless otherwise stated) do not include interaction effects from footings founded near other footings (i.e., groups of footings). Interaction effects will need to be considered if the spacing between adjacent footings is smaller than the dimension of the footings (i.e., the centre-to-centre spacing between footings is less than twice the width of the footing). This could act to double provided settlements, dependent on the footing configuration. Where an assessment of footing groups is required, a more detailed numerical or finite-element modelling analysis would need to be undertaken.

CREEP AND CONSOLIDATION

Creep settlement is an irreversible component of long-term soil settlement caused by sustained vertical stress. Consolidation is a time-dependent irreversible compression in a soil layer caused by a reduction in pore pressure between soil particles. Both creep and consolidation can occur in natural materials as a result of earthworks or the placement of loads on to soil layers. The settlements as presented for short-term loading do not include consideration for creep and consolidation settlements unless specifically stated.

GDR9.3 Raft Foundations

Where moduli of subgrade reactions are provided for the design of raft foundations, we highlight that these are an estimate of the elastic reaction of the soil. The values are provided based on an expected load and loaded area size. Soils are typically non-linear in their response and will have different stiffnesses at different levels of strain and load repetitions. This is due to the physical interaction of soil particles under different levels of stress.

The possibility of a non-linear response must be considered by the designer of any raft foundation.

GDR10 PILED FOUNDATIONS

Piles must be designed and tested in accordance with AS2159-2009, “Piling – Design and Installation”. We use the following interpretation/design methods to provide pile design parameters:

- Franki Africa Pty Ltd (2008) “A Guide to Practical Geotechnical Engineering in South Africa”. 4th ed.
- AFNOR (2012) “NF P 94-262 – Justification des ouvrages géo-techniques, Normes d’application nationale de l’Eurocode 7”, Afnor, Paris, July 2012.
- Lehane, B. (2017) “CPT-Based Design of Foundations”. E.H Davis Memorial Lecture, Australian Geomechanics Vol 54. No. 4.
- Lehane, B. et al. (2020) “A New ‘Unified’ CPT-Based Axial Pile Capacity Design for Drivel Piles in Sand”. Proceedings of the Fourth International Symposium on Frontiers of Offshore Geotechnics.
- Doan., Lehane, B. (2021) “CPT-Based Design Method for Axial Capacities of Drilled Shafts and Cast-in-place Piles.” American Society of Civil Engineers (ASCE), Journal of Geotechnical and Geoenvironmental Engineering.

The pile designer must:

- consider the possible variation in subsurface conditions at each pile location;
- consider any pile group effects based on the final piling configuration;
- assume that the unit shaft resistance in tension is less than 80% of the unit shaft resistance in compression to account for Poisson’s effect in sand;
- ignore pile resistance in the surficial 0.5 m or 1 x pile diameter (whichever is greater), if relevant;
- consider the impact of weak layers underlying stiffer layers (or vice versa) on end bearing capacity; and
- reduce the pile capacity in tension to no greater than 0.8 of the pile capacity in compression.

The piling contractor must:

- make their own assessment on the suitability of their equipment to install any piles at the subject site; and
- carry out or appoint a suitably experienced contractor to test the piles in accordance with AS2159.

Where dynamic or static testing of the piles does not occur, we consider that a design geotechnical reduction factor (ϕg) of 0.4 is applicable for the pile design. If testing of the piles is proposed by the piling contractor, a higher ϕg could be adopted.

Unless otherwise stated, providing pile design parameters does not specifically indicate the driveability of any piles into soil units.

A separate driveability study may be required and must be considered by the pile designer and installer. The given pile design parameters must not be used for driveability assessments as these parameters are likely to be un-conservative.

GDR11 EARTH RETAINING STRUCTURES

GDR11.1 General

Retaining structures may be designed in accordance with AS4678 (2002) "Earth Retaining Structures". Unless otherwise specifically stated, we recommend that all retaining walls are backfilled with free-draining soil (Permeable Sand or Blue Metal Gravel as defined in Section GDR8).

Where the cohesive soil is used as retaining wall backfill, a suitable, permanent drainage system must be placed behind the wall such that a build-up of pore pressure is prevented. A separator geotextile (Bidim A24, or similar, or heavier) must be used between the interface of any granular backfill and the cohesive soil.

Where drainage is not provided, the retaining wall must be designed to accommodate water pressure behind the wall (10 kPa per metre height).

GDR11.2 Earth Pressure Coefficients and Strength Parameters

Where earth pressure coefficients are provided for retaining walls, the wall designer must make an independent assessment of the parameters appropriate to the construction method to be used, including alternative values of wall friction. Unless otherwise stated, we have assumed a horizontal ground surface behind and in front of the retaining wall for provided parameters.

GDR11.2.1 Cohesionless Soils

Where cross-referenced for suitability in the report, the following parameters may be adopted for design of earth retaining structures in cohesionless soils (sand and gravel).

Table GDR 17: Retaining Wall Geotechnical Parameters (Cohesionless Soils)

Density	γ (kN/m^3)	ϕ' (°)	k_0	Wall Friction=0		Wall Friction=0.5ϕ		Wall Friction=0.67ϕ	
				k_a	k_p	k_a	k_p	k_a	k_p
Very Loose	17	30	0.44	0.33	3.00	0.29	4.81	0.28	5.74
Loose	17	32	0.42	0.31	3.25	0.27	5.55	0.26	6.83
Medium Dense	18	34	0.39	0.28	3.54	0.25	6.47	0.23	8.26
Dense	19	36	0.36	0.26	3.85	0.22	7.63	0.21	10.18
Very Dense (1)	19	38	0.34	0.24	4.20	0.21	9.11	0.20	12.85
Very Dense (2)	19	40	0.31	0.22	4.60	0.19	11.06	0.18	16.73

NOTES:

1. *Earth pressure coefficients are provided in this table for conditions of zero friction between the wall and the soil and with wall friction of 0.5Φ' or 0.67Φ'.*
2. *A horizontal ground surface behind and in front of the wall has been assumed.*
3. *The retaining wall designer should make an independent assessment of the parameters appropriate to the construction method to be used, including alternative values of wall friction.*
4. *γ – bulk unit weight*
   ϕ' – effective friction angle
   k_a – coefficient of active earth pressure (Coulomb – AS4678-2002, Appendix E)
   k_p – coefficient of passive earth pressure (Coulomb – AS4678-2002, Appendix E)
   k_0 – coefficient of at-rest earth pressure (Jaky)
5. *Maximum fines content 12% for applicability of this table for design purposes.*
6. *Unit weights based on Table D1 of AS4678-2002, for moist bulk weight.*
7. *Friction angle based on Equation D1 and Table D2 of AS4678-2002, based on rounded, moderately graded siliceous sand.*

GDR11.2.2 Cohesive Soils

Where cohesive soils (i.e. clayey or silty soils) are proposed for backfill, geotechnical design parameters may be provided in the form of effective strength and undrained strength parameters. We note that:

- Undrained strength parameters should be used for analysis of short-term stability, or stability under sudden loading of cohesive soils.
- The effective strength parameters should be used for analysis of free-draining soils and the long-term stability of cohesive soils.

Table GDR 18: Retaining Wall Geotechnical Design Parameters (Cohesive Soils – Undrained)

Consistency	γ_b (kN/m^3)	c_u (kPa)

Soft	17	12
Firm	18	25
Stiff	19	50
Very Stiff	20	100
Hard	20	200

NOTES:
1. *γ_b – bulk unit weight*
   c_u – undrained cohesion
   $\phi_u = 0^o$ (undrained friction angle)
2. *Unit weights based on Table D1 of AS4678-2002*
3. *Undrained cohesion based on lower end of shear strengths as define in AS1726-2017, Table 11*

Table GDR 19: Retaining Wall Geotechnical Design Parameters (Cohesive Soils – Drained)

Fines Content	PI (%)	γ_b (kN/m^3)	ϕ' (°)	c' (kPa)[5]
12-35%	All	19	32	0
>35%	10	20	30	0 – 5
>35%	20	20	26	0 – 5
>35%	30	20	23	0 – 5
>35%	40	20	21	0 – 5

NOTES:
1. *γ_b – bulk unit weight*
   c' – drained cohesion
   ϕ' – effective friction angle
   PI – plasticity index
2. *Unit weights based on Table D1 of AS4678-2002, assuming generally stiff to hard overconsolidated soils.*
3. *For fines contents <35% (silty sand and clayey sand), strength parameters based on:*
   - *Lehane, B. et al (2007) "A Laboratory Investigation of the Upper Horizons of the Perth/Guildford Formation in Perth CBD", Australian Geomechanics Vol 42. No. 3.*
4. *For fines content >35% (sandy clay), strength parameters based on:*
   - *CIVL5503 course notes (2004), "Underground Construction", University of Western Australia*
5. *c' = 0 recommended for long-term design. Table D4 of AS4678 suggests c' up to 5 kPa for 'poor' fine grained soils and 10 kPa for 'average' fine-grained soils. The use of c' for design is subject to the designer's judgement but recommended by us only for temporary works.*

Per AS4678-2002 Appendix E, horizontal earth pressures for frictional-cohesive soils may be calculated in accordance with the Rankine-Bell design model (illustrated in Figure E2 of AS4678). The earth pressures are as follows (Z = depth, all other terms have the meanings given in the above tables):

- Active: $p_a = \gamma\ Z\ tan^2\left(45 - \frac{\emptyset}{2}\right) - 2\ c\ tan\left(45 - \frac{\emptyset}{2}\right)$
- Passive: $p_p = \gamma\ Z\ tan^2\left(45 + \frac{\emptyset}{2}\right) + 2\ c\ tan\left(45 + \frac{\emptyset}{2}\right)$

GDR11.3 Design and Construction Considerations

Compaction plant can augment the lateral earth pressure acting on retaining walls. Hand operated compaction equipment is recommended within 2 m of any retaining walls to minimise compaction pressures.

Retaining walls can move and rotate under imposed soil loading resulting in settlement behind the wall. This must be considered in the design and during construction of the retaining walls in order that adjacent infrastructure is not adversely affected.

It is important to note that some ground movement will occur behind any soil retaining system, including gravity retaining walls.

GDR12 EXCAVATIONS, BATTERS AND SLOPES

GDR12.1 Excavatability

Our assessment of the excavatability of rock is based on a combination of:

- Our experience on earthworks and construction projects across Australia; and

- Figure 10 of the revised graphical method of assessing excavatability of rock by:
- Pettifer, G.S. & Fookes, P.G., "A revision of the graphical method for assessing the excavatability of rock", Quarterly Journal of Engineering Geology, 27, pp145-164, 1994.

GDR12.2 Safety

All excavations must be carried out in accordance with:

- Commission for Occupational Safety and Health (2022). "Excavation: Code of Practice", Department of Mines, Industry Regulation and Safety, 89pp, Perth.

Excavations in cohesionless soils are particularly prone to instability unless support is provided. Care must be exercised in such excavations and appropriate safety measures adopted where necessary, particularly in the vicinity of existing buildings, structures and infrastructure.

The toe of any batter must be at least 500 mm above groundwater (including perched groundwater).

Unless a specific slope stability assessment or retention design has been done, the toe of any excavation should not encroach within a line of 1V:3H to any nearby footings, pavements or other settlement-sensitive structures.

Surcharges (such as structures, plant and soil stockpiles) must not be placed at or close to the crest of unsupported excavations, without a specific slope stability assessment.

A geotechnical engineer must be consulted where there is any doubt regarding the stability or safety of unsupported excavations.

GDR12.3 Batters

Temporary batter slopes provided in the report are subject to the following conditions, unless otherwise stated:

- The maximum slope height is 2 m without specific advice and slope stability analysis.
- The groundwater level for the duration of the excavation must be at least 500 mm below the toe of the slope.
- No surcharges are present in the vicinity of the slope (i.e. must be outside a line of 1V:3H from the toe of the slope).

Unless noted specifically in the report, the following batters may be adopted (maximum height: 2 m):

Table GDR 20: Default Batter Angles

Situation	Material	Batter
Temporary	Cohesionless Soils (Sand/Gravel)	1V:2H
Temporary	Cohesive Soils – Soft	1V:2H
Temporary	Cohesive Soils – Firm, Stiff, Very Stiff or Hard	1V:1H
Temporary	Limestone – Variably Cemented	1V:1H
Temporary	Limestone – Well Cemented	1V:0.5H
Permanent	All Soils	1V:3H
Permanent	Limestone – Variably Cemented	1V:2H
Permanent	Limestone – Well Cemented	1V:1H

Where specified batters cannot be accommodated in the vicinity of existing footings, roads and services, temporary or permanent lateral support will be required.

Specific advice is required for batters higher than 2 m.

Erosion control must be considered for permanent slopes.

Rock slopes must be inspected, and all loose cobbles / boulders removed. Permanent rock slopes may require dentition works or possibly rock catch drains.

GDR12.4 Grouting

Permeation or jet grouting involves injecting a microfine cement into soil to form a grouted soil block (soilcrete) to support excavation and structures. Grouting is typically only effective where the soil has the capacity to "take" the grout and form a uniformly cemented soil mass. Permeation grouting is generally limited to relatively permeable, coarse-grained cohesionless soils (sands and gravels with <5% fines).

If grouting is proposed, we recommend the following:

- Grouting must be carried out by a suitably experienced contractor.
- Only microfine cement grout should be used (not GP or coarse cement blends) to ensure adequate penetration into the soil matrix.
- Grouting should be done on a grid of not greater than 300 m.
- Application rates must be discussed with the contractor.
- The grouted soil mass must have intimate contact with any structures it is intended to support.
- The contractor must satisfy themselves that the proposed grouting can be installed with their equipment and into the subsurface conditions encountered at the site, considering possible obstructions, groundwater, cemented layers, loose sands etc.
- Testing of the grouted soil mass must be done to ensure that the grout has adequately permeated through the soil matrix. This can be done by drilling into the soil mass to ensure the cementation is continuous.

Grouting is most effective on permeable, relatively loose natural sand. Where historical filling or other ground disturbances have occurred, the grouting process can be less effective due to the tendency of grout (or other liquids) to follow more permeable paths / zones through the disturbed soil.

GDR13 STORMWATER DISPOSAL AND DRAINAGE DESIGN

GDR13.1 Groundwater Separation – Controlled Groundwater

These recommendations ONLY apply to where regional controls on groundwater (primarily: subsoil drainage, but also surficial 'main drains') exist, i.e. only to areas where groundwater is actively controlled.

The following reference:

- IPWEA (2016), "Specification: Separation Distances for Groundwater Controlled Urban Development", Institute of Public Works Engineering Australasia

recommends the following separation distances from drainage infrastructure to groundwater:

- Underground infiltration systems: 0 mm from the 50% AEP (annual exceedance probability) phreatic surface.
- Surface infiltration systems (vegetated): 300 mm from the 50% AEP phreatic surface.

The above IPWEA reference also states that performance measures for underground infiltration systems are to have a: demonstration of acceptable volumetric capacity when groundwater is elevated above base of system and that the groundwater recedes below the invert of the system during mosquito breeding seasons (grated or partially open systems).

GDR13.2 Groundwater Separation – Uncontrolled Groundwater

These recommendations apply where regional controls on groundwater levels are not present. For infiltration into soakwells and soakage basins to be the full theoretical value, an adequate separation to groundwater must be achieved, because otherwise performance is hindered by inadequate separation to groundwater or partial submergence of the infiltrative element.

We recommend a minimum separation of 500 mm from the underside of infiltrative elements to maximum groundwater level.

- To average annual maximum groundwater level (AAMGL), where this has been defined for the site; or
- To historical maximum groundwater level, where this has been defined to the site.

GDR13.3 Design Hydraulic Conductivity Values

Where provided, the values of hydraulic conductivity (k) should be considered the maximum/upper limit design values. As discussed in Section GDR3.7, the inverse auger hole test is an unsaturated field test carried out above the groundwater table and, as such, presents the best-case conditions for drainage.

For soak wells in sand, we provide the design value taking into consideration the variability in materials and reduced permeability as a result of:

- Densification of sand during site preparation works; and
- Natural variation in sands.

Design k_{unsat} values provided for soak wells are only appropriate for the design of unsaturated soils where the base of disposal area is at least 500 mm above groundwater and 500 mm above any impermeable layer.

Where design values of k_{unsat} have been provided, clogging of the base of the soakwell / drainage basin has not been considered. Clogging will need to be controlled with maintenance over the life of the soakwell / drainage basin.

For the design of subsoil drains or modelling of saturated soil performance, a k_{sat} value must be given (in the report text) or assessed by laboratory testing (or a combination of field and laboratory testing). Unless specifically stated, k_{unsat} values presented in our report are for unsaturated conditions and intended for design of stormwater disposal elements above groundwater. If no k_{sat} value has been provided, do not use the provided k_{unsat} value for saturated drainage design. Please contact us for further advice.

For saturated or semi-saturated sands, the hydraulic conductivity must be assessed by testing of representative soil samples at a NATA accredited laboratory to determine:

- The modified maximum dry density (MMDD); and
- The constant-head permeability (AS1289.6.7.1) on a sample remoulded to at least 5% greater than the proposed specification density (i.e., sample should be remoulded to 100% MMDD if the earthworks specification requires a density ratio of 95% MMDD).

For saturated or semi-saturated clayey or silty soils, the hydraulic conductivity must be assessed by testing of representative soil samples at a NATA accredited laboratory to determine:

- The standard maximum dry density (SMDD); and
- The falling-head permeability (AS1289.6.7.2) on a sample remoulded to at least 3% greater than the proposed specification density (i.e., sample should be remoulded to 101% SMDD if the earthworks specification requires a density ratio of 98% SMDD).

GDR13.4 Soakwells

In uncontrolled groundwater environments, the base of any soakwell must be the higher of:

- At least 500 mm above the average annual maximum groundwater level (AAMGL).
- At least 500 mm above any low permeability/impermeable layers (clay, rock or otherwise).

In controlled groundwater environments (refer to Section GDR13.1), the base of any soakwell may be 0 mm above the controlled groundwater level at the location of the soakwell (as determined by the civil engineer).

Soak wells must be placed outside a line of 1V:2H extending below the edge of the nearest footing, subject to local council regulations. Discharge from soak wells has been known to promote densification of loose sandy soils, leading to settlements of footings and slabs. Soak wells should be carefully wrapped with geotextile to prevent migration of sand and fines into the soak well.

Where soak wells are proposed to dispose of water within a line of 1V:2H from any basement walls or similar, the walls must be waterproofed to prevent seepage or damp within the basement wall.

In potentially karstic terrain or areas of potentially collapsible soils, soakwells should typically be located 10 m from the nearest footing, slab or pavement.

GDR13.5 Design Groundwater Elevation

Where applicable, a recommended design groundwater elevation will be provided in the report and will be identified as such.

In the absence of a specific statement on design groundwater elevation, do not assume that:

- Absence of comments about groundwater indicates an absence of groundwater (in particular, sites that are dry in the dry season to the investigated depth may well become waterlogged in the rainy season).
- Where groundwater depths/levels are noted, that these are fixed (groundwater fluctuations occur over the course of the year and between wetter and drier years).

Where groundwater elevations are likely to be critical for a development (particularly where large-scale subdivision or large developments are proposed with substantial channelling of stormwater into on-site disposal by infiltration), a site-specific hydrology study is likely to be required to confirm design groundwater elevations.

GDR14 DRAINAGE CONTROL

In addition to the site preparation measures outlined for cohesive soils (refer Section GDR6.2.4), careful control of surface water and stormwater is essential to minimise the likelihood of cohesive soils decreasing in strength and affecting the installed infrastructure. These measures include:

- The ground surface of clayey soils should be graded to drain any seepage away from structures and prevent standing water over the cohesive soils. A grade of at least 1% is recommended.
- Pavements should be sealed to minimise water ingress.
- Stormwater disposal swales should be located at least 10 m away from buildings, retaining walls and pavements.
- Runoff from hardstandings and pavements must either be collected and discharged via pipes into discrete locations (via swales or soakage basins) at least 10 m away from structures and pavements or, alternatively, discharged over a wide area, but not allowed to collect and discharge into concentrated areas, particularly near structures and pavements.
- Spoon drains should be used to collect water at the crest of slopes to capture surface runoff and direct it away from running directly down slopes or seeping into the ground behind slopes.

These measures are general in nature only and do not take into account the civil design objectives, which must be addressed separately by the civil designer.

GDR15 DEWATERING

Dewatering may be required for excavations and construction below groundwater or perched groundwater tables. Common dewatering methods are summarised below:

Table GDR 21: Dewatering Recommendations

Material	Recommended Methods
Sandy Soils	Spears Deep Well Point
Impermeable Clay	Sump Pumping

Dewatering spears are typically suitable for small scale excavations below groundwater, with a typical recommendation for spears to be installed at 1 m below the base of any excavation. Dewatering spears may not be suitable where there are impermeable/cemented/strong transition layers, i.e., it may not be possible to extract water near an impermeable layer (rock/clay), or the spear may not be readily driven through a hard clay/cemented layer (i.e., coffee rock).

Sump pumping can be done by grading a clayey excavation to drain (i.e., by using spoon drains), and excavating a sump in the excavation. A sump can typically be backfilled with a blue metal gravel, with a pump wrapped in a geofabric (i.e., Bidim A14 or similar), with disposal of water away from the excavation.

Deep well point dewatering is typically suitable for larger excavations, where there are transitional layers or where the aquifer is confined. It may not be suitable where there are impermeable layers within the profile. It involves the installation of a deep filtered well to a depth required to draw down the groundwater level at the entire site. A deep well dewatering system must be designed by a suitable designer to provide design flow rates, draw down depths etc.

GDR16 PAVEMENT SUBGRADES

Unless otherwise specified, the provided subgrade California bearing ratio (CBR) is not a pavement design, but an assessment of the subgrade as an input into any required pavement designs.

Provided design values are based on the assumption that the relevant site preparation measures are completed for all pavement subgrades, including the use of appropriate approved fill and adequate compaction. We highlight that specific requirements such as those outlined by Main Roads WA (MRWA) or the local council in their construction specifications may have different requirements.

The provided design value is based on laboratory testing (where done), local experience, and the advice as outlined in:

- Main Roads Western Australia (2013). “Engineering Road Note 9 – Procedure for the Design of Road Pavements”. Western Australia Supplement to the Austroads Guide to Pavement Technology Part 2: Pavement Structural Design, East Perth.

Where the subgrade differs from that described in the text, the subgrade CBR must be confirmed.

The performance of any pavement is highly dependent on the surface and subsurface drainage provided (also considering factors like capillary rise from seasonally high groundwater tables). Adequate drainage must be provided to any pavements, and capillary rise must be considered by the designer.

GDR17 SOIL CORROSIVITY AND AGGRESSIVITY

The relevant exposure classifications for concrete and steel piles in soils based on the exposure conditions are presented in Table GDR 22 and Table GDR 23 respectively.

The relevant exposure classifications for concrete in sulfate soils based on the exposure conditions are presented in Table GDR 24.

Table GDR 22: Exposure Classification for Concrete Piles in Soil

Exposure Conditions				Exposure Classification	
Sulfates (expressed as SO_4)[1]					
In Soil (ppm)	In Groundwater (ppm)	pH	Chlorides in Groundwater (ppm)	Soil Conditions A[2]	Soil Conditions B[3]
< 5,000	< 1,000	> 5.5	<6000	Mild	Non-aggressive
5,000 – 10,000	1,000 – 3,000	4.5 – 5.5	6,000-12,000	Moderate	Mild
10, 000 – 20,000	3,000 – 10,000	4 – 4.5	12,000-30,000	Severe	Moderate
> 20,000	> 10,000	< 4	>30,000	Very Severe	Severe

NOTES:
1. *Approximately 100 ppm SO_4 = 80 ppm SO_3*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *Table reproduced from Table 6.4.2(C) of AS2159-2009*

Table GDR 23: Exposure Classification for Steel Piles in Soil

pH	Chlorides		Resistivity (ohm.cm)	Exposure Classification	
	In Soil (ppm)	In Water (ppm)		Soil Conditions A[2]	Soil Conditions B[3]
> 5	< 5,000	< 1,000	> 5,000	Non-aggressive	Non-aggressive
4–5	5,000-20,000	1,000–10,000	2,000 – 5,000	Mildly aggressive	Non-aggressive
3–4	20,000-50,000	10,000–20,000	1,000 – 2,000	Moderately aggressive	Mildly aggressive
< 3	> 50,000	> 20,000	< 1,000	Severely aggressive	Moderately aggressive

NOTES:
1. *1 ppm (parts per million) is equivalent to 1 mg/kg*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *Table reproduced from Table 6.5.2(C) of AS2159-2009*

Table GDR 24: Exposure Classification for Concrete in Sulfate Soils

Exposure Conditions			Exposure Classification	
Sulfates (expressed as SO_4)[1]				
In Soil (ppm)	In Groundwater (ppm)	pH	Soil Conditions A[2]	Soil Conditions B[3]
< 5,000	< 1,000	> 5.5	Mild	Non-aggressive
5,000 – 10,000	1,000 – 3,000	4.5 – 5.5	Moderate	Mild
10, 000 – 20,000	3,000 – 10,000	4 – 4.5	Severe	Moderate
> 20,000	> 10,000	< 4	Very Severe	Severe

NOTES:
1. *Approximately 100 ppm SO_4 = 80 ppm SO_3*
2. *Soil Conditions A – high permeability soils (e.g. sands and gravels) which are in groundwater*
3. *Soil Conditions B – low permeability soils (e.g. silts and clays) or all soils above groundwater*
4. *For disturbed soils, the assumption of soil A conditions where accelerated corrosion is possible should be considered.*
5. *Table reproduced from Table 4.8.1 of AS3600-2018*

GDR18 LIQUEFACTION

Soil liquefaction can occur when loose, granular, Holocene age material below the groundwater table is subjected to a seismic event (typically within 15 m of the ground surface). This can cause a loss of strength and result in vertical and lateral movements of the site surface.

Where a liquefaction analysis is carried out and outlined in the report, this has been done in accordance with consideration to the design earthquake details as presented in AS1170.4-2007:

- The hazard factor is taken from Figure 3.2 (C) and Table 3.2. The Hazard Factor (Z) for Western Australia represents the 1 in 500-year annual probability of exceedance of ground motions measured in gravity (g).
- The probability factor (k_p) is taken from Table 3.1.

Unless otherwise stated, an earthquake magnitude of 7.5 for the south-west of WA is based on research by:

- Dhu T., Sinadinovski C., Edwards M., Robinson D., Jones T., Jones A. (2004) “Earthquake Risk Assessment for Perth, Western Australia”. 13th World Conference on Earthquake Engineering, Vancouver, B.C., Canada. Paper No. 2748.

GDR19 EXPECTATIONS OF THE REPORT

The following sections have been prepared to clarify what is and is not provided in your report. It is intended to inform you of what your realistic expectations of this report should be and how to manage your risks associated with the conditions on site.

Geotechnical engineering and environmental science are less exact than other engineering and scientific disciplines. We include this information to help you understand where our responsibilities begin and end. You should read and understand this information. Please contact us if you do not understand the report or this explanation. We have extensive experience in a wide variety of projects and we can help you to manage your risk.

GDR20 THIS REPORT RELATES TO PROJECT-SPECIFIC CONDITIONS

This report was developed for a unique set of project-specific conditions to meet the needs of the nominated client. It took into account the following:

- the project objectives as we understood them and as described in this report;
- the specific site mentioned in this report; and
- the current and proposed development at the site.

It should not be used for any purpose other than that indicated in the report. You should not rely on this report if any of the following conditions apply:

- the report was not written for you;
- the report was not written for the site specific to your development;
- the report was not written for your project (including a development at the correct site but other than that listed in the report); or
- the report was written before significant changes occurred at the site (such as a development or a change in ground conditions).

You should always inform us of changes in the proposed project (including minor changes) and request an assessment of their impact.

Where we are not informed of developments relevant to your report, we cannot be held responsible or liable for problems that may arise as a consequence.

Where design is to be carried out by others using information provided by us, we recommend that we be involved in the design process by being engaged for consultation with other members of the project team. Furthermore, we recommend that we be able to review work produced by other members of the project team that relies on information provided in our report.

GDR21 DATA PROVIDED BY THIRD PARTIES

Where data is provided by third parties, it will be identified as such in our reports. We necessarily rely on the completeness and accuracy of data provided by third parties in order to draw conclusions presented in our reports. We are not responsible for omissions, incomplete or inaccurate data associated with third party data, including where we have been requested to provide advice in relation to field investigation data provided by third parties.

GDR22 SOIL LOGS

Our reports often include logs of intrusive and non-intrusive investigation techniques prepared by Galt. These logs are based on our interpretation of field data and laboratory results. The logs should only be read in conjunction with the report they were issued with and should not be re-drawn for inclusion in other documents not prepared by us.

GDR23 THIRD PARTY RELIANCE

We have prepared this report for use by the client. This report must be regarded as confidential to the client and the client's professional advisors. We do not accept any responsibility for contents of this document from any party other than the nominated client. We take no responsibility for any damages suffered by a third party because of any decisions or actions they may make based on this report. Any reliance or decisions made by a third party based on this report are the responsibility of the third party and not of us.

GDR24 CHANGE IN SUBSURFACE CONDITIONS

The recommendations in this report are based on the ground conditions that existed at the time when the study was undertaken. Changes in ground conditions can occur in numerous ways including anthropogenic events (such as construction or contaminating activities on or adjacent to the site) or natural events (such as floods, groundwater fluctuations or earthquakes). We should be consulted prior to use of this report so that we can comment on its reliability. It is important to note that where ground conditions have changed, additional sampling, testing or analysis may be required to fully assess the changed conditions.

GDR25 SUBSURFACE CONDITIONS DURING CONSTRUCTION

Practical constraints mean that we cannot know every minute detail about the subsurface conditions at a particular site. We use professional judgement to form an opinion about the subsurface conditions at the site. Some variation to our evaluated conditions is likely and significant variation is possible. Accordingly, our report should not be considered as final as it is developed from professional judgement and opinion.

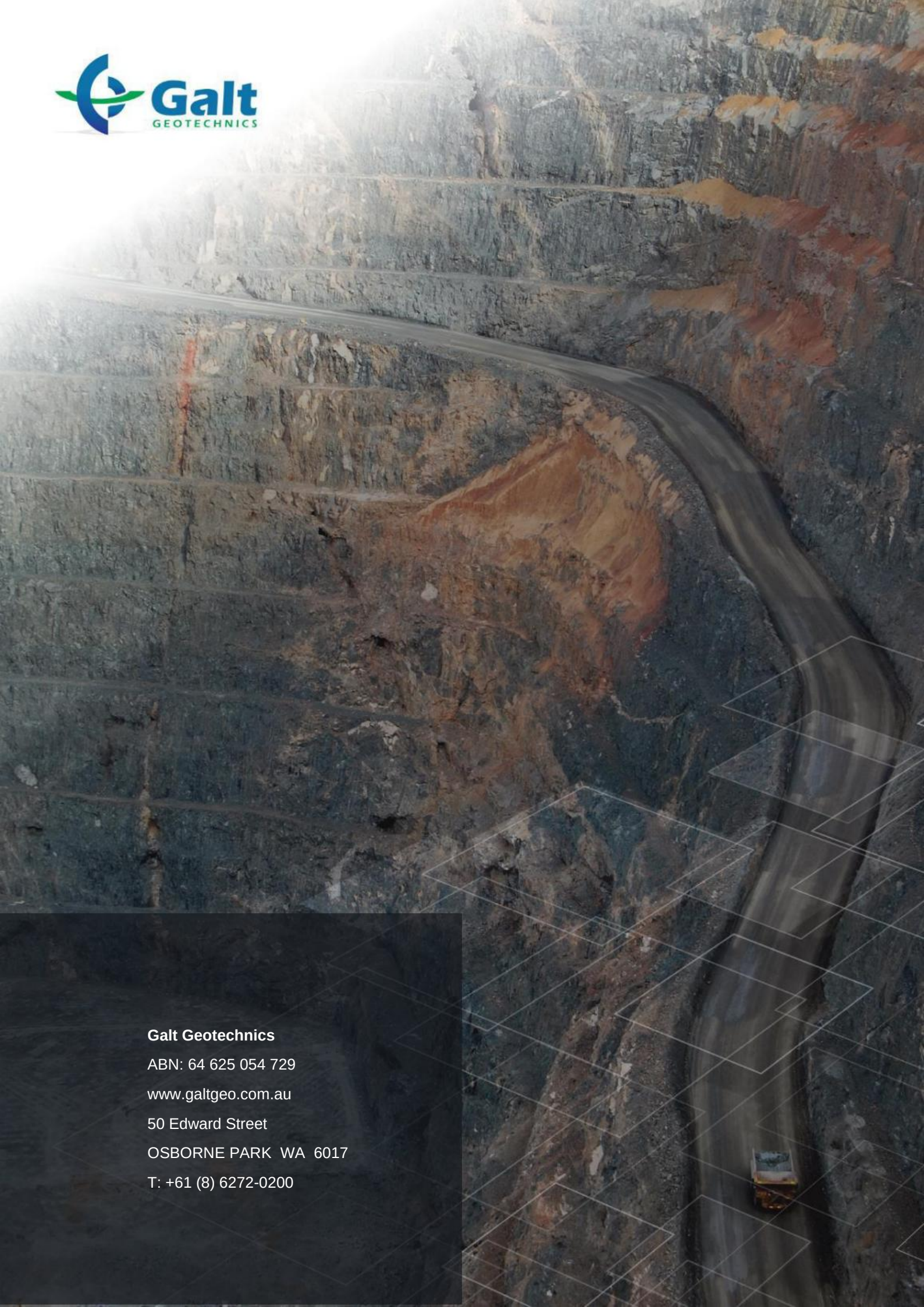
The most effective means of dealing with unanticipated ground conditions is to engage us for construction support. We can only finalise our recommendations by observing actual subsurface conditions encountered during construction. We cannot accept liability for a report's recommendations if we cannot observe construction.

GDR26 ENVIRONMENTAL AND GEOTECHNICAL ISSUES

Unless specifically mentioned otherwise in our report, environmental considerations are not addressed in geotechnical reports. Similarly, geotechnical issues are not addressed in environmental reports. The investigation techniques used for geotechnical investigations can differ from those used for environmental investigations. It is the client's responsibility to satisfy themselves that geotechnical and environmental considerations have been taken into account for the site.

Geotechnical advice presented in a Galt Environmental report has been provided by Galt Geotechnics under a sub-contract agreement. Similarly, environmental advice presented in a Galt Geotechnics report has been provided by Galt Environmental under a sub-contract agreement.

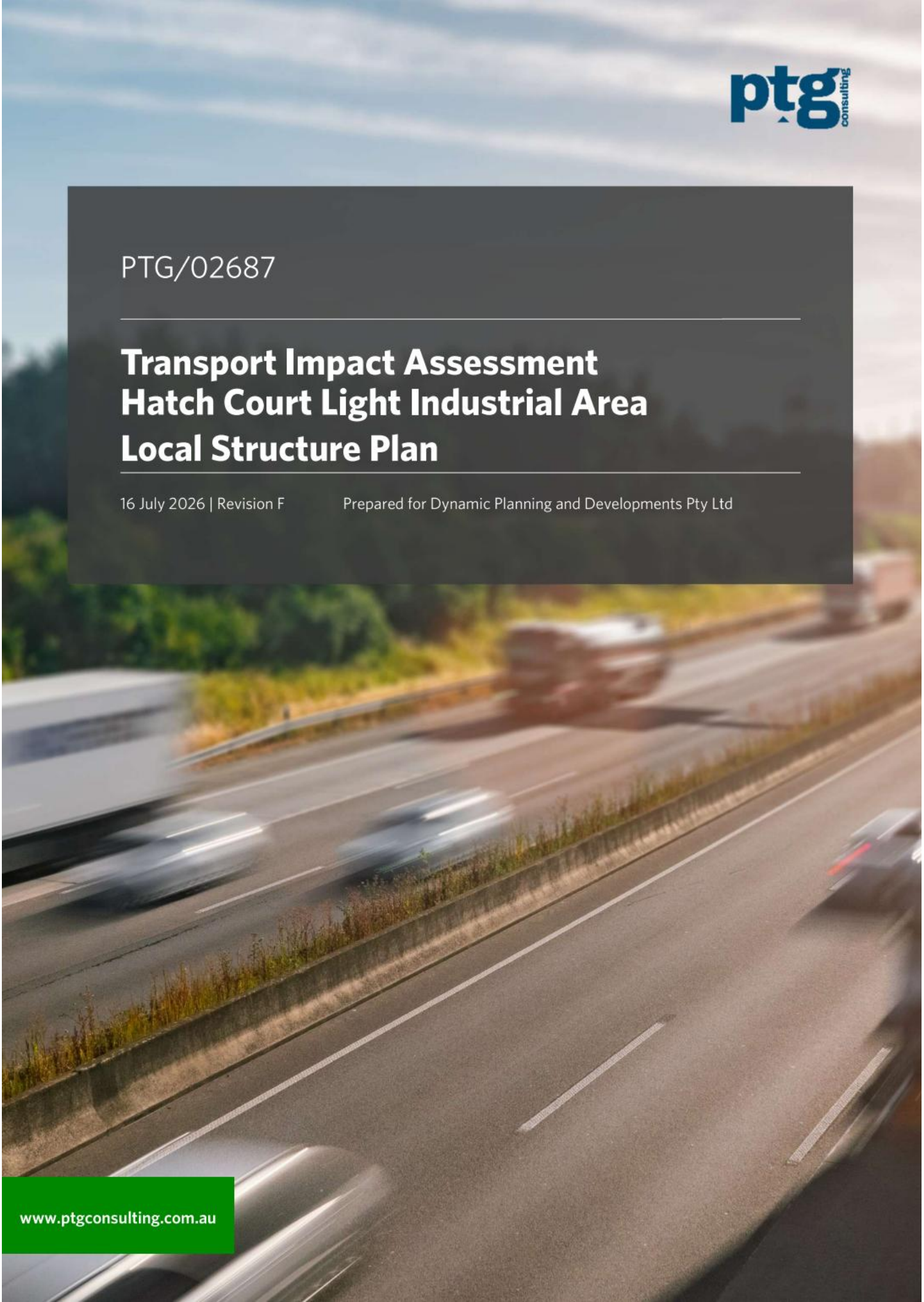
Unless specifically noted otherwise, no parties shall draw any inferences about the applicability of the Western Australian state government landfill levy from the contents of this document.



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APPENDIX 8

Traffic Impact Assessment



PTG/02687

Transport Impact Assessment
Hatch Court Light Industrial Area
Local Structure Plan

16 July 2026 | Revision F

Prepared for Dynamic Planning and Developments Pty Ltd

www.ptgconsulting.com.au

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REPORT DETAILS

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A	21 April 2026	For Issue	KC/DR	SJL
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E	13 July 2026	Report updates	SJL	SJL
F	16 July 2026	Minor update	DR	SJL

1 INTRODUCTION

1.1 Background

PTG Consulting Pty Ltd (PTG) has been commissioned by Dynamic Planning and Developments Pty Ltd to prepare a Transport Impact Assessment (TIA) for the proposed Hatch Court Local Structure Plan (LSP) located at Lots 51, 9, 15,19, 23, 27, 29, 30, 26, 24, 14 Hatch Court, Lots 20, 26, 30, 34, 38, 42, 46, 50, 54, 58, 62, 29, 37, 51 Stirling Crescent, and Lots 584 and 614 Kalamunda Road in High Wycombe in the City of Kalamunda, WA ("the Site").

This report has been prepared in accordance with the *Western Australian Planning Commission (WAPC) Transport Assessment Guidelines for Developments: Volume 2 – Planning Schemes, Structure Plans and Activity Centre Plans (2016) and the Transport Impact Assessment* (TIA) Checklist is included at Appendix A – WAPC Checklist.

Specifically, this report aims to assess the operations of the proposed Local Structure Plan (LSP) internally and its connections to the adjacent road network, with a focus on traffic volumes, access and accessibility.

This report also outlines the requirements and opportunities associated with traffic and transport within the development, referencing relevant Council and WAPC policies and guidelines as well as best-practice planning within Western Australia.

2 STRUCTURE PLAN PROPOSAL

2.1 Regional Context

The Site is located approximately 3km north of the Maddington Kenwick Strategic Employment Area, 500m from the Hazelmere Industrial Area, 3km northeast of Perth Airport, and 4km from the High Wycombe Train Station, as shown in **Figure 1**.

Figure 1 Site Location Context



Source: Landgate (2026)

2.2 Site Location

The Site is located at Lots 51, 9, 15,19, 23, 27, 29, 30, 26, 24, 14 Hatch Court, Lots 20, 26, 30, 34, 38, 42, 46, 50, 54, 58, 62, 29, 37, 51 Stirling Crescent, and Lots 584 and 614 Kalamunda Road, High Wycombe, WA. **Figure 2** shows the location of the proposed structure plan area.

Figure 2 Site Location

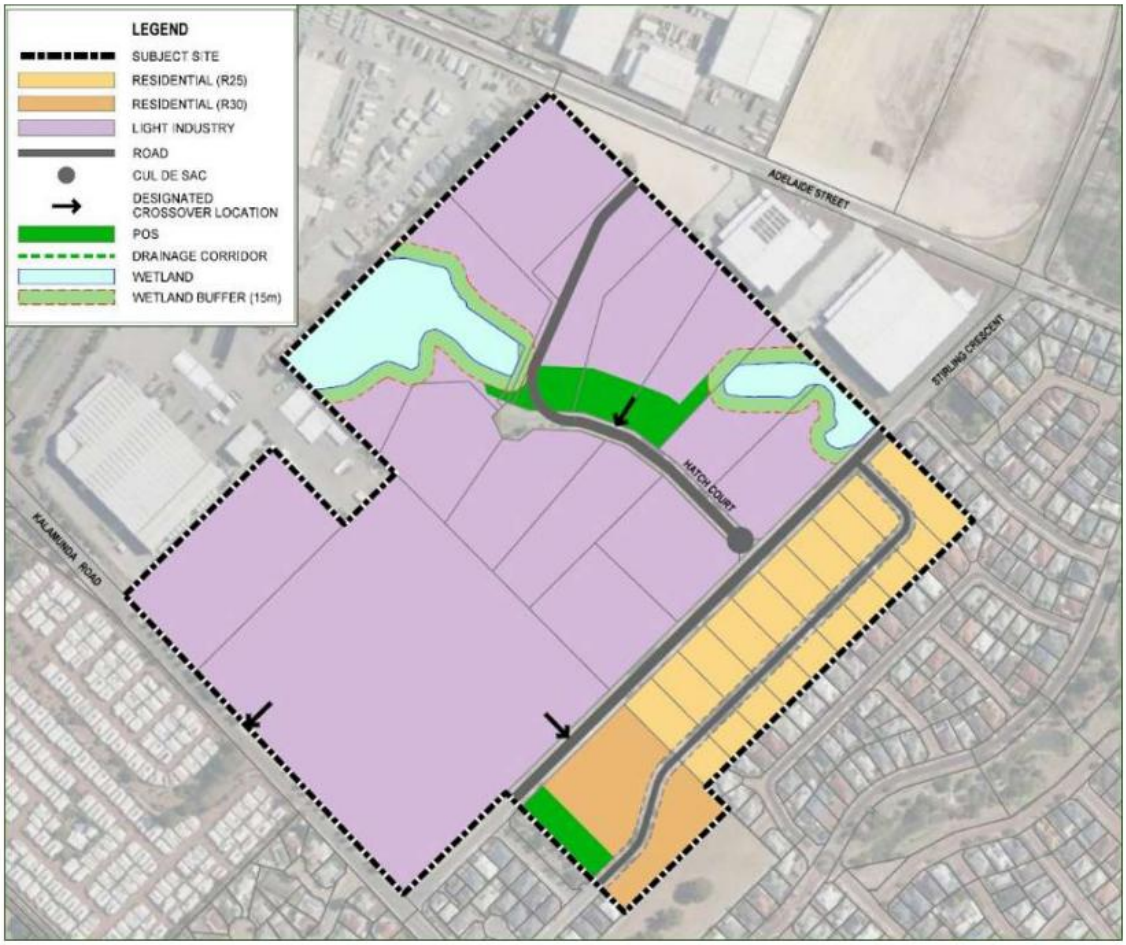


Source: Metromap (2026)

2.3 Proposed Land Uses

The development concept plan is illustrated in **Figure 3**.

Figure 3 Proposed Local Structure Plan Area



Source: Dynamic Planning and Developments Pty Ltd (June 2026)

2.4 Table of Land Uses and Quantities

The proposed land uses and yields are shown in **Table 1**. It is noted that existing road reserves are not included in the values presented below.

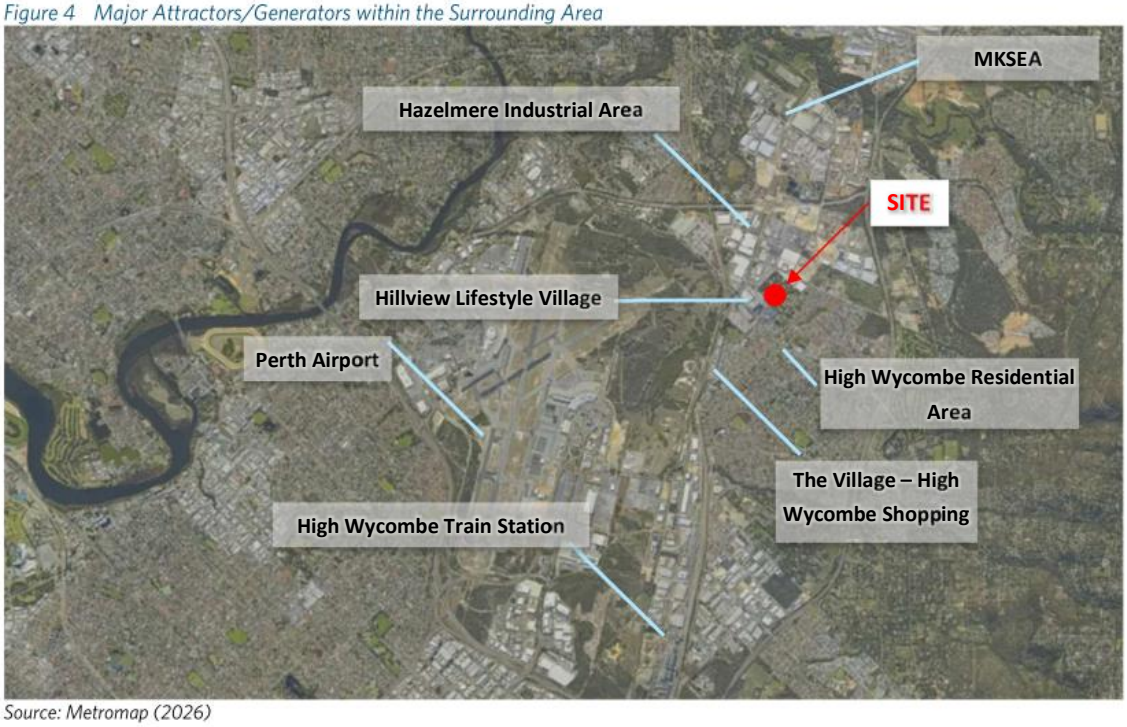
Table 1 Proposed Land Uses

Proposed Land Uses	Yield
Light Industrial	21.5700 ha
Residential	4.9126 ha (estimated yield of 140 residential lots)
New Road Reserves	1.4088 ha
Public Open Space/Drainage	0.2900 ha
Wetlands and Buffer	3.0591 ha
Wetlands and Buffer	0.6415 ha
Total Structure Plan Area	**31.8820 ha**

2.5 Major Attractors/Generators

Major attractors and generators within the area surrounding the Site are shown in Figure 4.

Figure 4 Major Attractors/Generators within the Surrounding Area



Source: Metromap (2026)

2.6 Specific Issues

Due to the significant traffic volume, other regional road status and existing residential developments fronting Kalamunda Road adjacent to the LSP site, access directly from the Kalamunda Road frontage of the industrial lots is to be limited to a single crossover, proposed to remain as currently located. According to WAPC Development Control Policy 5.1, where alternative access is or could be made available from side or rear streets or from rights of way, no access shall be permitted to the regional road unless special circumstances apply.

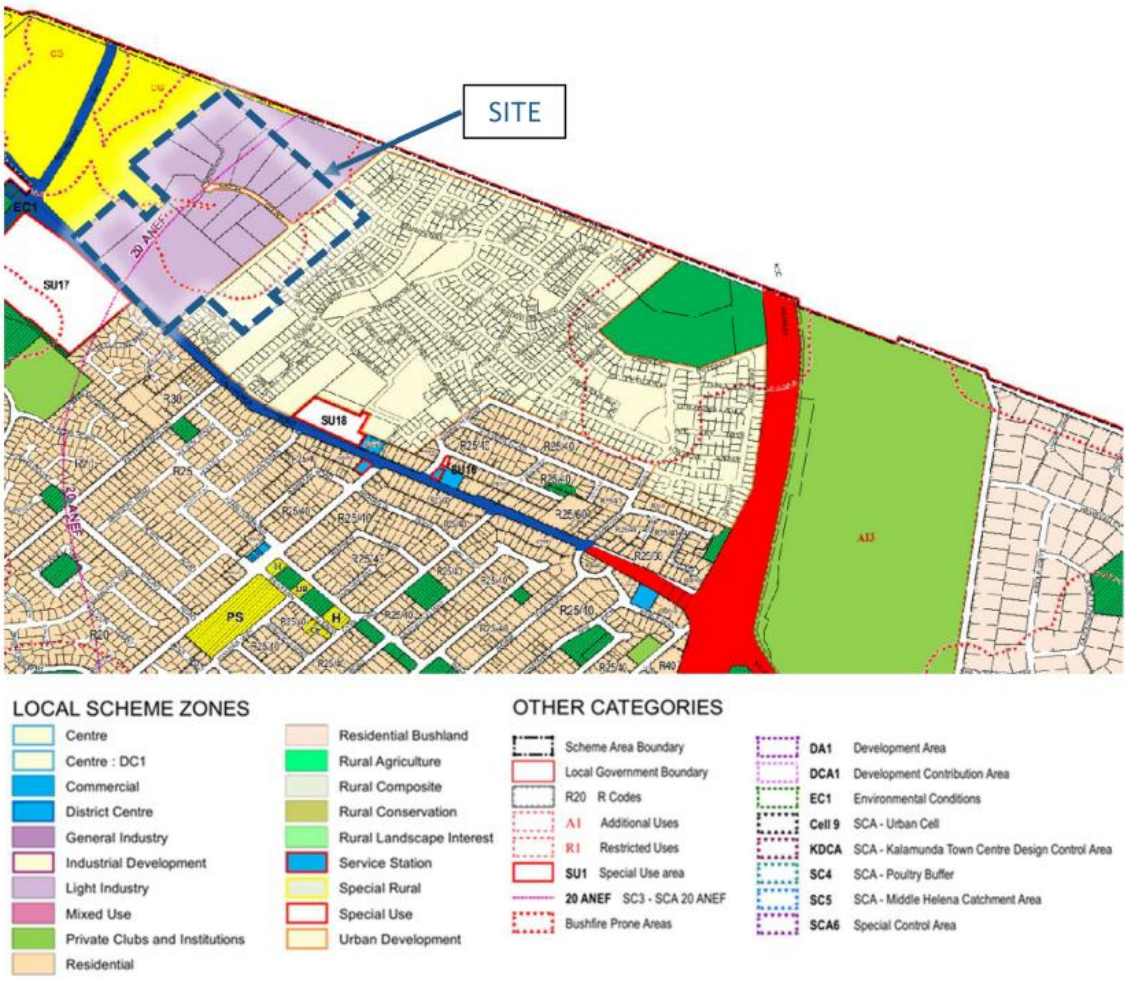
Similarly with Stirling Crescent, no additional crossover access to industrial sites is to be permitted under the LSP for future developments due to the desire to retain as much "residential amenity" for the Stirling Crescent road environment as practicable.

3 EXISTING SITUATION

3.1 Existing Land Uses within 800m of Structure Plan Area

Pursuant to the *City of Kalamunda Local Planning Scheme No. 3* (LPS3), the Site is predominately zoned '*Light Industry*' with a portion zoned '*Urban Development*', as shown in **Figure 5**. The Site is surrounded by other light industry land uses to the north-east, urban development land uses to the east/south-east and residential land uses to the south.

Figure 5 Existing Land Use Zoning



LOCAL SCHEME ZONES

- Centre
- Centre : DC1
- Commercial
- District Centre
- General Industry
- Industrial Development
- Light Industry
- Mixed Use
- Private Clubs and Institutions
- Residential
- Residential Bushland
- Rural Agriculture
- Rural Composite
- Rural Conservation
- Rural Landscape Interest
- Service Station
- Special Rural
- Special Use
- Urban Development

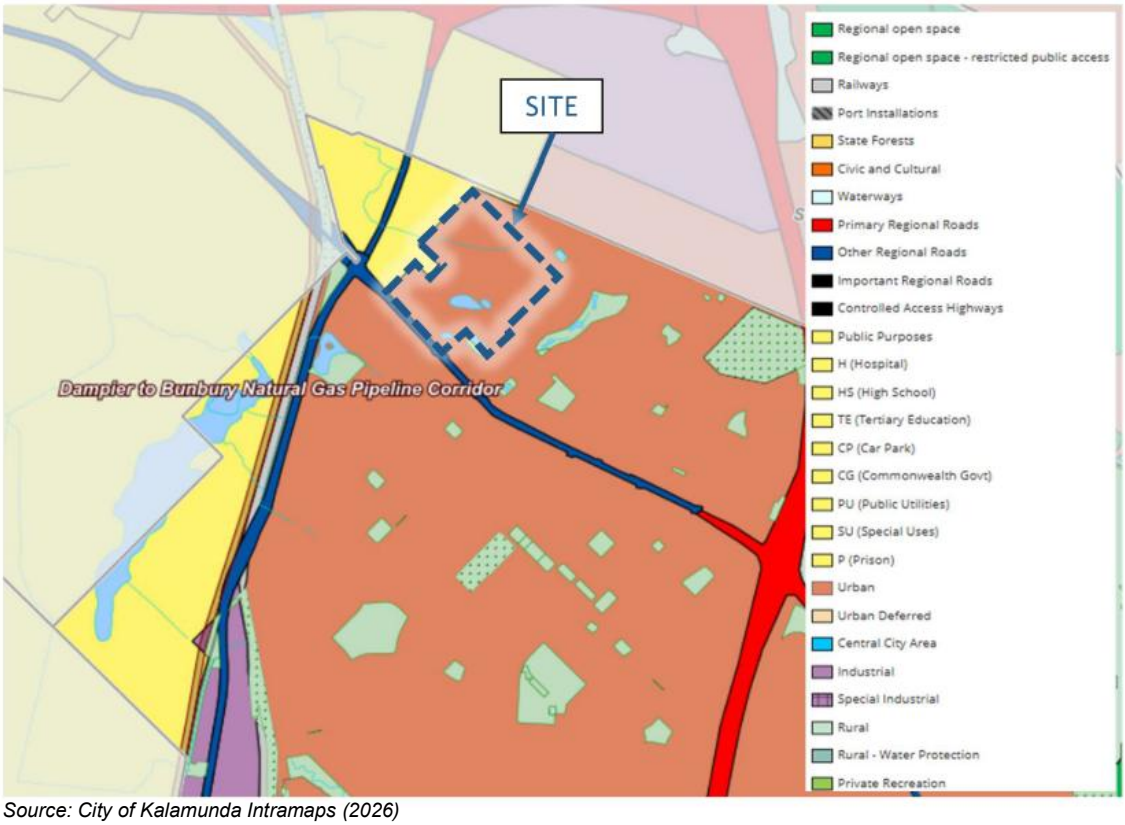
OTHER CATEGORIES

- Scheme Area Boundary
- Local Government Boundary
- R20 R Codes
- A1 Additional Uses
- R1 Restricted Uses
- SU1 Special Use area
- 20 ANEF SC3 - SCA 20 ANEF
- Bushfire Prone Areas
- DA1 Development Area
- DCA1 Development Contribution Area
- EC1 Environmental Conditions
- Cell 9 SCA - Urban Cell
- KDCA SCA - Kalamunda Town Centre Design Control Area
- SC4 SCA - Poultry Buffer
- SC5 SCA - Middle Helena Catchment Area
- SCA6 Special Control Area

Source: City of Kalamunda Local Planning Scheme No. 3 (LPS3)

The LSP area is currently zoned '*Urban*' under the *Metropolitan Region Scheme*, as shown in **Figure 6**. The Site is surrounded by other 'Urban' and 'Public Purpose' land uses.

Figure 6 Existing zoning for MRS



Source: City of Kalamunda Intramaps (2026)

3.2 Existing Road Network within 2 (or 5) km of Structure Plan

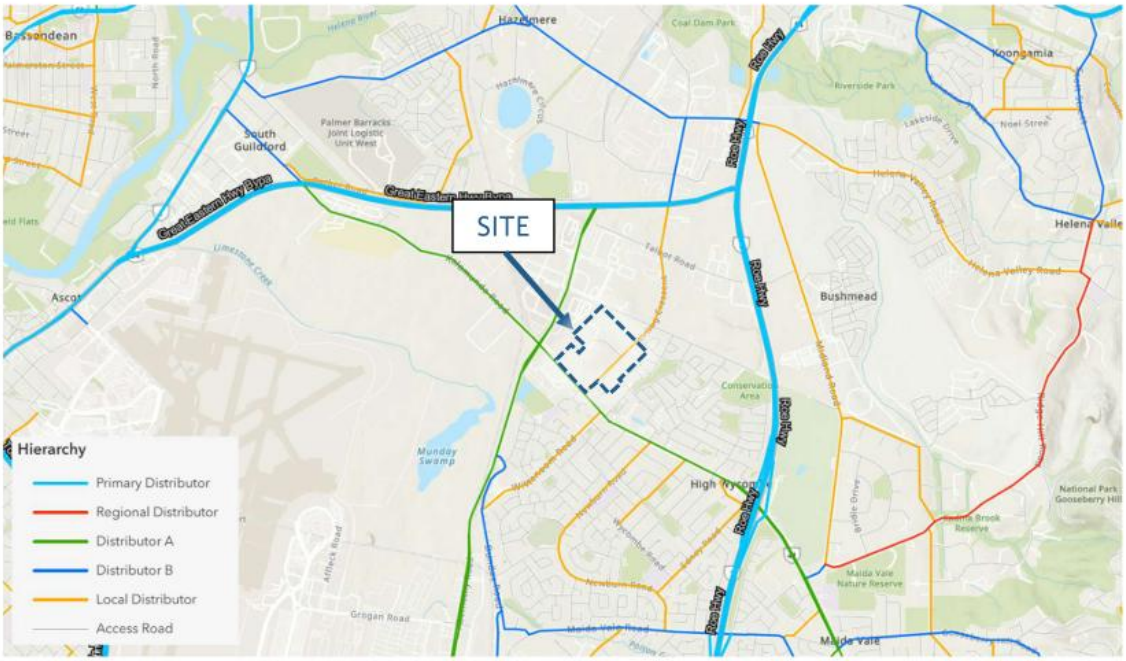
The road network within Western Australia is defined by Main Roads WA Road Hierarchy which describes the function, characteristic and management of each type of road. A description of each road type as per Main Roads WA Road Hierarchy criteria is summarised in **Table 2**.

Table 2 Road Hierarchy Description

Road Type	Description
Primary Distributors	Provide for major regional and inter-regional traffic movement and carry large volumes of generally fast-moving traffic. Some are strategic freight routes, and all are State Roads. They are managed by Main Roads Western Australia.
District Distributor A	Carry traffic between industrial, commercial and residential areas and generally connect to Primary Distributors. These are likely to be truck routes and provide only limited access to adjoining property. They are managed by local government.
District Distributor B	Perform a similar function to type A District Distributors but with reduced capacity due to flow restrictions from access to and roadside parking alongside adjoining property. These are often older roads with a traffic demand in excess of that originally intended. District Distributor A and B roads run between land-use cells and generally not through them, forming a grid which would ideally space them around 1.5 kilometres apart. They are managed by local government.
Regional Distributor	Roads that are not Primary Distributors, but which link significant destinations and are designed for efficient movement of people and goods within and beyond regional areas. They are managed by local government.
Local Distributor (Urban)	Roads that carry traffic within a cell and link District Distributors or Regional Distributors at the boundary, to access roads. The route of Local Distributors should discourage through traffic so that the cell formed by the grid of District Distributors only carries traffic belonging to or serving the area. These roads should accommodate buses but discourage trucks. Urban Local Distributor roads are managed by local government.
Local Distributor (Rural)	Connect to other Rural Distributors and to Rural Access Roads. Not Regional Distributors, but which are designed for efficient movement of people and goods within regional areas. Rural Local Distributor roads are managed by local government.
Access Roads	Provide access to abutting properties with amenity, safety and aesthetic aspects having priority over the vehicle movement function. These roads are bicycle and pedestrian friendly. They are managed by local government.

Figure 7 shows the road hierarchy network and **Table 3** provides a summary of the road characteristics of the surrounding road network.

Figure 7 Existing Road Hierarchy



Source: MRWA Road Information Mapping System

Table 3 Existing Road Network

Road Name	Hierarchy	Jurisdiction	No. of Lanes	No. of Paths	Approximate Pavement Width (m)	Speed Limit (km/h)
Great Eastern Highway Bypass	Primary Distributor	MRWA	4 – 6	-	26	70 / 100
Roe Highway	Primary Distributor	MRWA	4 – 6	-	30	70 / 100
Kalamunda Road	Distributor A	LGA	2 – 4	1	7.5 - 18	60
Abernethy Road	Distributor A	LGA	2 – 4	-	10 - 26	60
Stirling Crescent	Local Distributor	LGA	2	1	7.5	60
Adelaide Street	Access Road	LGA	2	1	7.5	50
Hatch Court	Access Road	LGA	2	-	7	50
Peak Court	Access Road	LGA	2	-	10	50

Source: MRWA Road Information Mapping System

3.3 Existing Pedestrian/Cycle Networks within Existing Structure Plan Area

The LSP area has no other existing roads with any existing pedestrian/cycle networks.

3.4 Existing Pedestrian/Cycle Networks within 800m of Structure Plan Area

Ther is a 2.4m-wide footpath provided along one side of Adelaide Street, Stirling Crescent and Kalamunda Road. In addition, there is also a 1.8m-wide footpath along Wem Mews and Acton Link.

Sealed Shoulders are provided along both sides of Kalamunda Road which connect the Site to Roe Highway and Great Eastern Highway, and both sides of portions of Abernethy Road as shown in **Figure 8**. As per the LTCN, these routes require significant improvements.

Figure 8 Existing Pedestrian/Cycle Network



Source: Department of Transport Bicycle Network Maps

3.5 Existing Public Transport Services

The nearest bus stops to the Site are located on the southern boundary of the LSP along Kalamunda Road, as highlighted in yellow in **Figure 9**. These stops service Transperth Bus Route 278 which travel between High Wycombe and Midland Train Stations. Other Public transport facilities in the vicinity of the LSP are illustrated in **Figure 10**. The service frequencies are summarised in **Table 4**.

Figure 9 Existing Bus Stop Locations

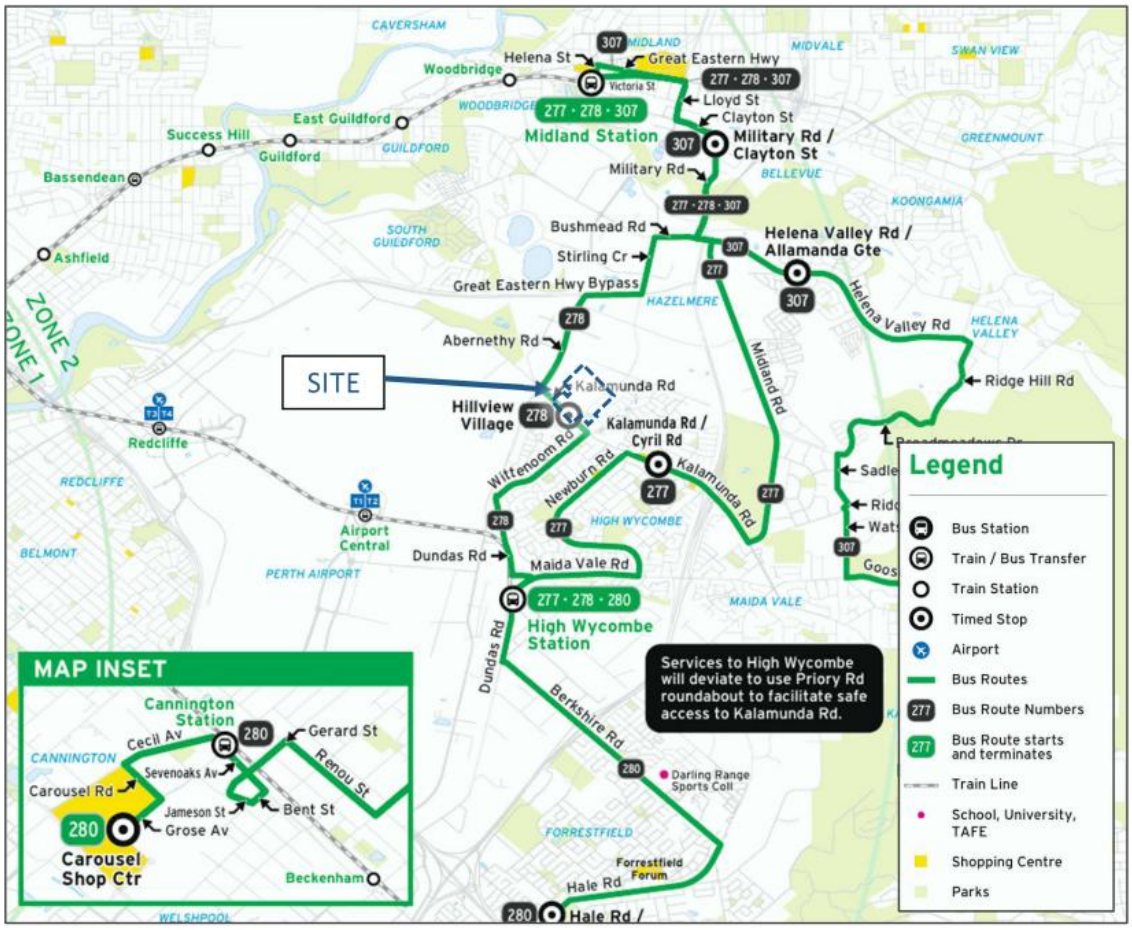


Source: Transperth

Table 4 - Bus Route Description and Frequency

Bus Route	Route Description	Weekday Frequency	Saturday Frequency	Sunday/Holiday Frequency
277	High Wycombe Station - Midland Station	24 – 30 mins	30 mins	30 mins
278	High Wycombe Station - Midland Station	24 – 30 mins	30 mins	30 mins
280	High Wycombe Station - Carousel Shop Ctr	20 – 30 mins	60 mins	60 mins
307	Kalamunda Bus Station - Midland Station	20 – 120 mins	No Service	No Service

Figure 10 Existing Public Transport Services



Source: Transperth

3.6 Existing Traffic Flows

The existing traffic volumes surrounding the LSP area were sourced from the Main Roads WA's Traffic Map database and are summarised in Table 5.

Table 5 Existing Traffic Volumes

Road Name	Source	Date	AM Peak (vph)	PM Peak (vph)	Weekday (vpd)	HV%
Stirling Crescent South of Great Eastern Highway Bypass	MRWA	2023/24	529	570	6,050	13.3%
Kalamunda Road South of Abernethy Road	MRWA	2023/24	1,067	1,068	12,753	7.6%
Kalamunda Road North of Abernethy Road	MRWA	2023/24	939	1,164	12,382	12.3%
Abernethy Road North of Kalamunda Road	MRWA	2023/24	1,039	1,032	12,649	33.4%
Abernethy Road / Brinsmead Road Intersection	MRWA	2022	811	975	11,649	29.7%

3.7 Existing Restricted Access Vehicle (RAV) Network

The Site is currently not directly connected to the RAV network. The nearest RAV routes are along Stirling Crescent (north of Adelaide Street) (RAV 4/5), Abernethy Road (RAV 7), portions of Kalamunda Road (RAV 1/4) and a portion of Adelaide Street (RAV 4), as shown in **Figure 11**. There is currently a proposed future RAV 7 connection along Adelaide Street as part of the Great Eastern Highway Bypass Interchanges project as discussed in Section 5.1.1.

However, once Peak Court is added to the RAV network, the site could have RAV access onto Adelaide Street and Stirling Crescent (north).

Figure 11 RAV Network Map



Source: Main Roads HVS Network Map

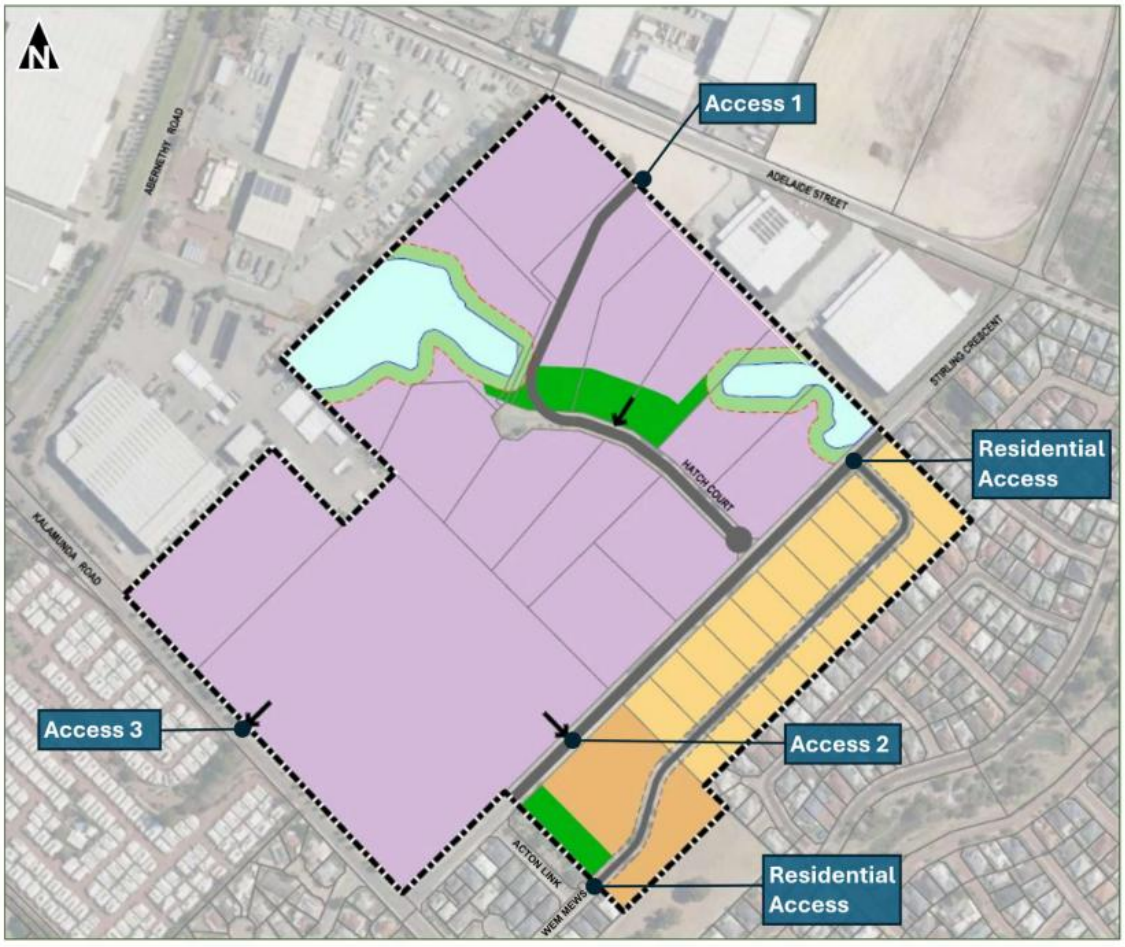
4 PROPOSED INTERNAL TRANSPORT NETWORKS

4.1 Changes/Additions to Existing Road Network of Proposed New Network

The proposed internal road hierarchy and indicative access points to the external network are shown in **Figure 12** and described below:

- Light Industrial Areas along Hatch Court will alternatively be accessed via Adelaide Street through Peak Court (existing stub road) through a proposed road with 20-m road reserve along Lot 13 as the existing connection of Hatch Court with Stirling Crescent will be converted to a cul-de-sac as shown. The road reserve of the currently constructed portion of Hatch Court will remain at 18m wide. The City of Kalamunda acquired Lot 13 for the purpose of the construction of Peak Court, a road link facilitating connection between Adelaide Street and Hatch Court.
- Lots 200 and 201 will have access crossovers via Kalamunda Road and Stirling Crescent.
- Residential lots will be accessed directly via Stirling Crescent and through a proposed road connecting Stirling Crescent to Wem Mews, with access back to Stirling Crescent via Acton Link.

Figure 12 Proposed Connections to External Road Network



Source: Dynamic Planning and Developments

As part of the LSP design development process, a high-level assessment was undertaken to evaluate several options for access arrangements as indicated in **Table 6**.

Table 6 Analysis of Access Arrangements

Option No.	Description	Pros	Cons
Option 1	Extension and construction of LSP Road through from Adelaide Street to Kalamunda Road with Hatch Court converted into a cul-de-sac	Improves overall traffic distribution, reduces pressure on Adelaide Street, supports development of Lot 200, and aligns with planning objectives to keep industrial traffic off Stirling Crescent.	Very costly ($4.3–$5.6 million), requires a major intersection upgrade at Kalamunda Road (signals or roundabout), may face strong community opposition, and could have issues with RAV4 route suitability on Kalamunda Road.
Option 2	Retention and modification of Hatch Court / Stirling Crescent intersection to allow access / egress onto Stirling with restricted industrial access	Distributes traffic more evenly and reduces pressure on Adelaide Street at a relatively low cost (about $915,000).	Conflicts with planning scheme provisions by allowing industrial traffic on Stirling Crescent, may impact nearby residential amenity, does not improve access to Lot 200, and may conflict with existing development approvals.
Option 3 (adopted option for TIA)	Cul-de-sac at Hatch Court and Stirling Crescent with new LSP road connection to Adelaide Street only	Most cost-effective option and aligns with planning objectives and existing approvals while still achieving acceptable traffic performance.	It does not improve access to Lot 200 and results in more traffic being concentrated at the Adelaide Street intersection.
Option 4	Minor extension of option 3 LSP Road to Lot 200 and retention of cul-de-sac at Hatch Court	Relatively low additional cost (around $600,000), provides some improved access for Lot 200, and may help reduce traffic on Kalamunda Road and Stirling Crescent.	Relies on existing access points, provides uneven benefits across the precinct, may face landowner objections, and complicates cost-sharing arrangements.
Option 5	Extension of option 3 LSP road through to lot 200 and a subsequent extension to Stirling Crescent	Improves traffic distribution and reduces pressure on Adelaide Street at a relatively low cost if funded by the developer	Conflicts with planning provisions by allowing industrial traffic on Stirling Crescent, has uncertain delivery timing, may face landowner objections, and creates uneven cost and benefit distribution across the precinct.

4.2 Road Reservation Widths and Cross Sections

The proposed road connecting Hatch Court to Peak Court (existing stub road intersecting with Adelaide Street) will have a 20m road reserve to allow RAV-4 access. However, the existing road reserve for the currently constructed portion of Hatch Court will remain at 18m wide. The proposed road within the residential lots will be consistent with the surrounding road network and will have a 16m road reserve with its connection to Mews Road adjacent to the Public Open Space (POS).

In accordance with the Liveable Neighbourhoods Guidelines, *Access Streets* are to accommodate shared pedestrian, bike, and vehicular movements and are capable of accommodating up to 3,000 vehicles per day (projected maximum volumes). For road reserves of up to 16m, which corresponds to Access Street C, the projected maximum volume is up to 3,000 vehicles per day. The Liveable Neighbourhood Guidelines is illustrated in **Table 7.**

Table 7 Function and characteristics of local streets

Street type and function	Street characteristics	Street name	Max design speed/ target operating speed (km/hr)	Indicative volume range* (vehicles per day)	Indicative street reserve width (metres)+	Indicative road pavement width (metres)
Access streets Access streets are to accommodate shared pedestrian, bike and vehicular movements. The requirements of adjacent land uses should be supported through street design.	Varied formats to suit a range of typical conditions in predominantly residential areas at different densities, and with different traffic volumes. An avenue access street (Access street A) with median is particularly suited to incorporation of a drainage swale. Access street B is a wider undivided street for situations with increased parking and/or traffic demand. The most typical and most common residential street will be Access street C – Yield street. Access street D is for short, low volume and low parking demand streets. In addition, a comprehensively designed variant with 3.5 m travel lane with indented parking, is also specified for very low volume short streets.	**Access street A** – avenue	50/40	3000	20-24	2 x 3.5 (or 2 x 3.6 under some conditions) plus indented parking.
		Access street B – wider street	50/40	3000	16.5-18	9.7
		Access street C – yield or give way street	50/40	3000	15.4-16	7.2 (7-7.5)
		Access street D – narrow yield or give way street	50/30	1000	14.2	5.5-6
			50/20	150	14.2	3.5 (plus parking indents)

Source: WAPC Liveable Neighbourhoods Guideline 2009

The indicative cross sections for the proposed roads within the structure plan are as shown from **Figure 13** to **Figure 15**.

Figure 13 Indicative Cross Section – Proposed Road for Hatch Court (with existing 18m road reserve width)



Source: Streetsketch

Figure 14 Indicative Cross Section – Proposed Road adjacent to Public Open Space and Residential (16m Reserve)



Source: Streetsketch

Figure 15 Indicative Cross Section – Proposed Internal Road for Hatch Court (20m Reserve)



Source: Streetsketch

4.3 Intersection Controls

As discussed in **Section 4.1**, the light industrial areas within the LSP, currently accessible through Hatch Court from Stirling Crescent, will instead be accessible via a proposed road extension running from Hatch Court's western end to the Peak Court stub road with the closure of the existing Hatch Court/Stirling Crescent intersection into a cul-de-sac. The new northern connection will be via the Peak Court stub, which has been constructed as a priority-controlled intersection with its junction at Adelaide Street. It is noted that the stop or give way control signs and lines are yet to be installed at the intersection.

The Access Crossovers for Lots 200 and 201 connecting to both Kalamunda Road and Stirling Crescent are to be located as per the existing crossover locations, and the final layout / design of the crossovers will be subject to the future developments requirements as determined through a detailed development application process.

Access to the residential lots will be done via a proposed access street, with a priority-controlled intersection off Stirling Crescent, and which will be connected to the existing Wem Mews, thereby providing residents another access point to Stirling Crescent to the south (through Acton Link). The intersections will be priority controlled with either a stop sign or give way sign (subject to detailed design and Main Roads approval) consistent with the requirements of Liveable Neighbourhoods.

4.4 Speed Limits

The indicative speed limits for roads within the LSP as shown in the previous section are as follows:

- Hatch Court – 50 km/h
- Peak Court – 50 km/h

» Proposed Access Road to Residential Area - 50 km/h

4.5 Pedestrian/Cycle Networks and Crossing Facilities

There are no proposed internal pedestrian/cycle networks within the Light Industrial section of the LSP area since access is mainly by personal vehicles and delivery vehicles.

As for the residential section of the LSP area, it is assumed that a 1.8m-wide footpath will be available east of the proposed roadway as shown in

Figure 14 and **Figure 15**, consistent with the existing footpath available along Wem Mews and the surrounding road network.

4.6 Public Transport Routes

There are no proposed internal public transport routes existing or planned within the LSP area.

5 CHANGES TO EXTERNAL TRANSPORT NETWORKS

5.1 Road Network

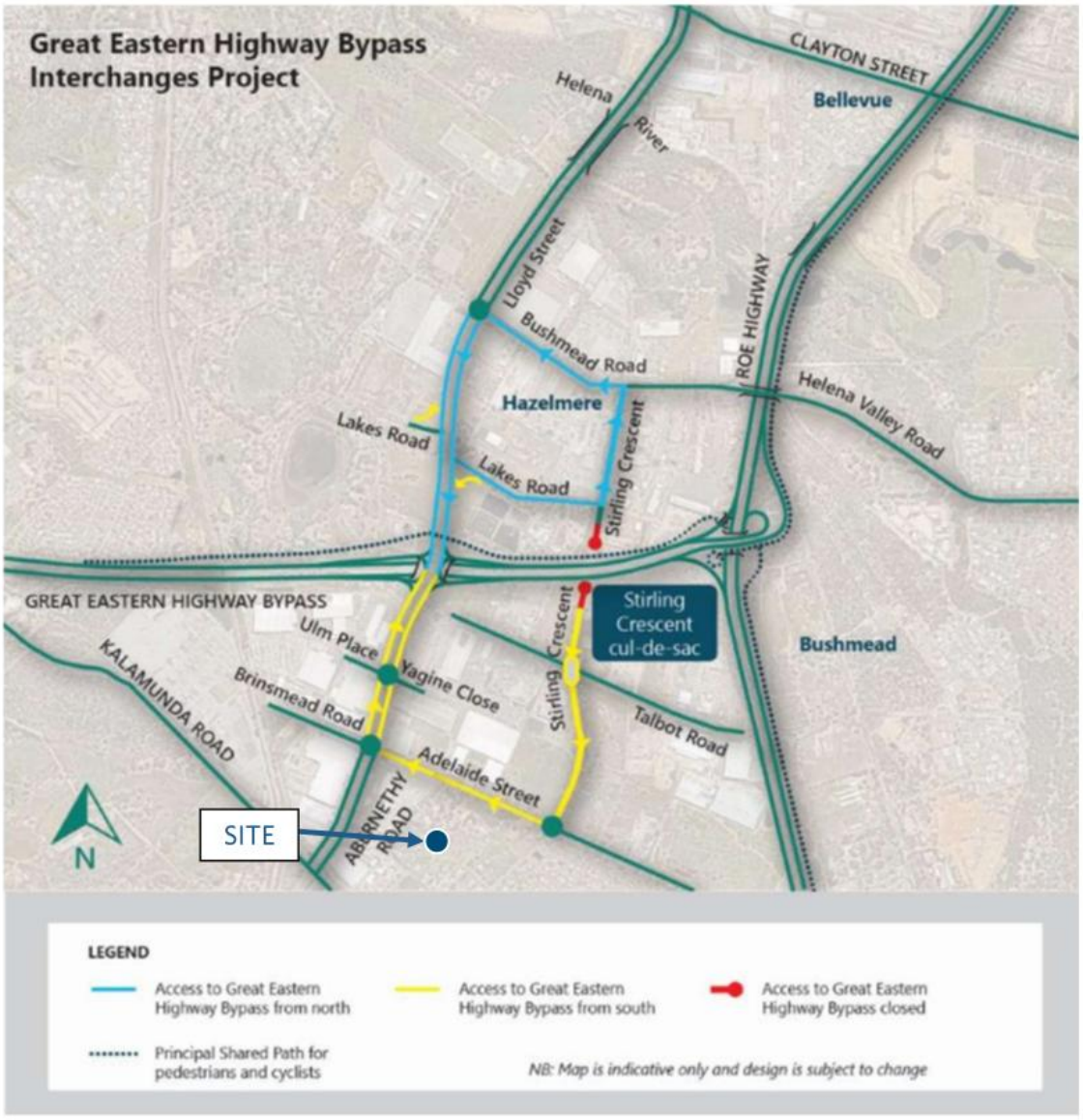
5.1.1 Great Eastern Highway Bypass Interchanges Project

Main Roads WA is undertaking the Great Eastern Highway Bypass Interchanges Project which will have the following components:

- Lloyd Street will be extended via a bridge over Helena River which will improve access to Midland.
- Abernethy Road will be elevated to pass over Great Eastern Highway Bypass via a grade separated interchange to alleviate congestion at the signalised intersections of Great Eastern Highway Bypass and Abernethy Road, and Great Eastern Highway Bypass and Stirling Crescent.
- Parts of Abernethy Road will be duplicated and a RAV 7 compliant intersection with Adelaide Street will be provided.
- A grade-separated interchange will be built at the crossing of Great Eastern Highway Bypass and Roe Highway to provide free flowing access between the two roads, which is expected to benefit 60,000 road users per day.
- A new Principal Shared Path (PSP) for pedestrians and cyclists will extend from Roe Highway and Great Eastern Highway Bypass Interchange and connect to the PSP at the Roe Highway and Kalamunda Road Interchange.
- Corresponding road improvements will be done at Stirling Crescent and Adelaide Street to complement the proposed interchange.
- Adelaide Street / Stirling Crescent intersection will operate as a roundabout facilitating all vehicle movements.
- A new roundabout will be built at the intersection of Abernethy Road and Adelaide Street/Brinsmead Road, and Adelaide Street will be extended from its current end point to the new roundabout. Upgrades to the section of Abernethy Road between Kalamunda Road and Dundas Road are currently being finalised with details to be confirmed by MRWA.

According to the Main Roads WA website, pre-construction works have been completed along with upgrades to Adelaide Street. However, major construction works are currently placed on hold to secure approvals needed to commence construction.

Figure 16 Great Eastern Highway Bypass Interchanges Project



Source: MRWA Great Eastern Highway Bypass Interchanges Project – Local Road Design Update – Stirling Crescent, Talbot Road, and Adelaide Street (August 2021)

5.2 Pedestrian/Cycle Networks and Crossing Facilities

As part of the Great Eastern Highway Bypass Interchanges Project, MRWA proposes to construct a new PSP along Great Eastern Highway Bypass and Roe Highway.

Figure 17 shows the Department of Transport's aspirational future cycling network within the Perth and Peel. The map shows the proposed cycle route hierarchy for the roads surrounding the proposed LSP which is summarised below.

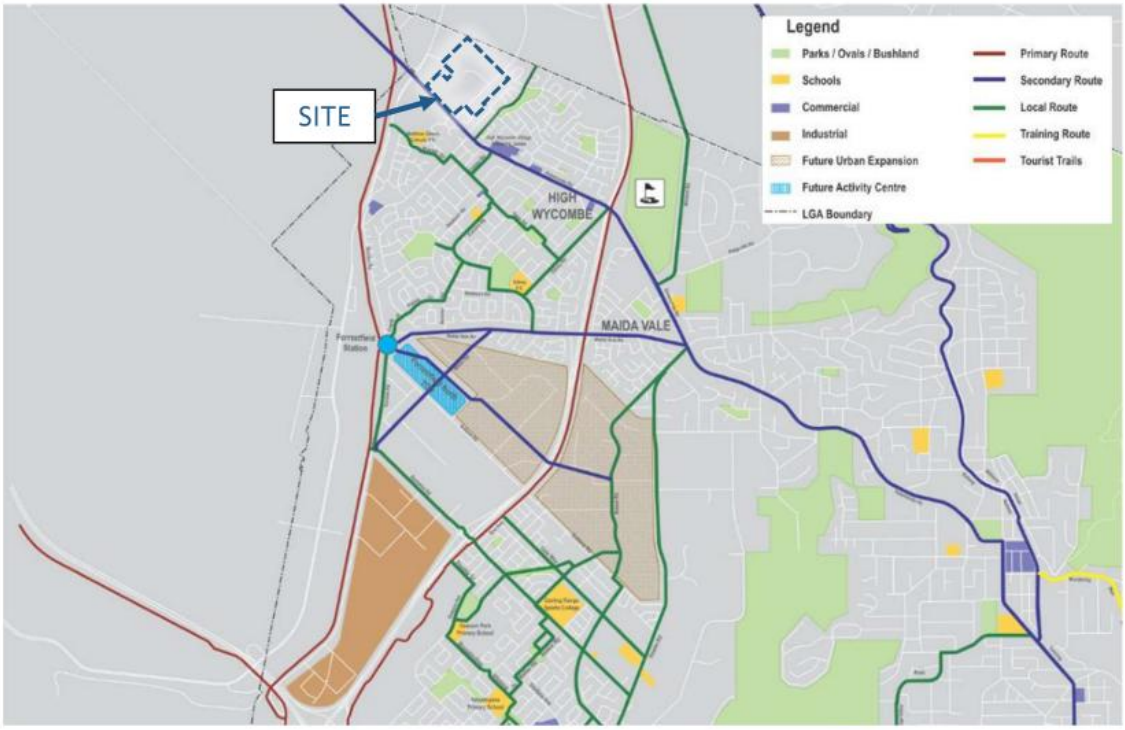
- Great Eastern Highway Bypass – Primary Route
- Roe Highway – Primary Route
- Abernethy Road – Primary Route
- Kalamunda Road – Primary Route

Figure 17 LTCN Network



Figure 18 shows the ultimate network plan for the City of Kalamunda Bicycle Plan 2017. No new paths are proposed in the vicinity of the LSP which was to remain rural at the time the Bicycle Plan was prepared. The City of Kalamunda is expected to update the Bicycle Plan later this year.

Figure 18 City of Kalamunda Bicycle Plan 2017 – Proposed Ultimate Cycling Network



Source: City of Kalamunda

5.3 Public Transport Services

PTG has contacted the Public Transport Authority (PTA) and was advised that no significant changes are planned for the existing bus routes surrounding the LSP in the foreseeable future.

6 INTEGRATION WITH SURROUNDING AREA

6.1 Trip Attractors/Generators Within 800 Metres

Significant local attractors/generators within 800m include:

- Industrial estates along Abernethy Road, north and west of the LSP
- Matthew Gibney Catholic Primary School, South of Kalamunda Road
- Residential areas, east of Stirling Crescent and south of Kalamunda Road

6.2 Proposed Changes to Land Uses Within 800 Metres

Within the proximity of the LSP area, the High Wycombe Cell U2 Outline Development Plan has been identified as a proposed change to the land use within the surrounding area. While the proposed changes have mostly been identified to be adjacent to the High Wycombe Shopping Centre Area, most of the proposed changes pertaining to the residential developments east of the LSP area has already been constructed as of latest aerial imagery as shown in **Figure 2**.

Figure 19 High Wycombe Cell U2 Outline Development Plan



Source: City of Kalamunda

6.3 Travel Desire Lines from Structure Plan to these Attractors / Generators

The main access point to the LSP is anticipated to be via Adelaide Street / Peak Court stub for the industrial lots currently with direct access from Hatch Court, while Lot 200 and Lot 201 will have crossovers via Kalamunda Road and Stirling Crescent (as per existing). There will also be a new intersection connection via Stirling Crescent for the Residential portion of the LSP area.

Trips to and from the proposed LSP are expected to pass through Adelaide Street, Stirling Crescent, and Kalamunda Road to access the wider road network.

Trips from the industrial lots along Hatch Court will utilise Peak Court to exit onto Adelaide Street and pass through Abernethy Road.

Vehicles from Lots 200 and 201 will pass through Kalamunda Road and Stirling Crescent and travel along Abernethy Road or Roe Highway to access the wider road network.

Trips from the residential area are expected to exit via Stirling Crescent and travel along Kalamunda Road to reach shopping centres and schools primarily to the south and southeast of the Site.

6.4 Adequacy and Deficiencies of the External Transport Networks

Subject to the proposed changes to the External Transport Network outlined in Section 5, the adequacy of the external road network and pedestrian/cycle network will be assessed in **Section 7**.

The existing public transport routes are considered adequate to service the LSP area since there are several bus stops and routes within the vicinity of the Site and its accesses.

7 ANALYSIS OF TRANSPORT NETWORKS

7.1 Structure Plan Traffic Generation

The trip generation rates for the land uses within the LSP were based on the rates recommended in the WAPC Transport Impact Assessment Guidelines Volume 2 – Planning Schemes, Structure Plans and Activity Centre Plans, whilst the daily rates and trip directionality percentages have been taken from Transport for New South Wales – Guide to Transport Impact Assessment. Similar to industrial developments surrounding the Site, it is assumed that 30% of the total lot areas will be allocated to associated structures for 'light industry' upon full development of the local structure plan.

Table 8 shows the trip generation rates for the proposed land uses, **Table 9** shows the directional distribution and **Table 10** shows the total traffic generated by the proposed LSP.

Table 8 Trip Generation Rates

Land Use	Source	Yield	AM Peak Rate	PM Peak Rate	Daily Rate
Light Industry	WAPC / TfNSW	64,710 m^2	1 trip per 100 m^2	1 trip per 100 m^2	4 trips per 100 m^2
Residential (Low Density)	WAPC	140 dwellings	0.8 trips per dwelling	0.8 trips per dwelling	8.0 trips per dwelling

Table 9 Trip Directionality

Land Use	AM Peak		PM Peak		Daily	
	In	Out	In	Out	In	Out
Light Industrial	80%	20%	20%	80%	50%	50%
Residential (Low Density)	25%	75%	63%	38%	50%	50%

Table 10 Estimated Trip Generation

Land Use	AM Peak Trips		PM Peak Trips		Daily Trips	
	IN	OUT	IN	OUT	IN	OUT
Light Industrial	518	130	130	518	1,295	1,295
Residential (Low Density)	28	84	70	42	560	560
	546	214	200	560	1,855	1,855
	760		760		3,710	

The proposed local structure plan is estimated to generate 760 vehicle trips in each of the AM and PM peak hour periods with an estimated 3,710 vehicle trips daily.

The light Industrial areas are estimated to dominate the share of total trips generated at 648 vehicle trips each in the AM and PM peak hour periods with 2,590 daily vehicle trips (71% of the total daily trips). The residential component of the LSP is estimated to generate 112 vehicle trips each in the AM and PM peak hour periods with at least 1,120 daily vehicle trips (30% of the total daily tips).

7.2 Traffic Distribution

Figure 20 and Figure 21 show the inbound and outbound distribution of the proposed LSP's estimated trip generation for the assumed year of full development. The trip distribution is based the location of the surrounding trip generators and assumes the completion of all works under the Great Eastern Highway Bypass Interchanges Project wherein the Abernethy Road and Adelaide Street will open and operate as a roundabout, and the Stirling Crescent intersection will close at Great Eastern Highway Bypass Road and will be converted into a cul-de-sac. This is expected to cause some traffic currently using Stirling Crescent to be diverted onto Abernethy Road.

Kalamunda Road provides direct connections to Roe Highway and Great Eastern Highway. Considering that the shortest distance to get into and out of the Site is through Access 3, it's reasonable to assume that majority of trips generated by L200 & 201 will utilise this access point. In addition, there is a desire by the City of Kalamunda to reduce industry related traffic on Stirling Crescent, and it is therefore likely, that future development of lot 200 and lot 201 will be encouraged to ensure as much traffic as practicable is kept away from the Stirling Crescent crossover access.

Figure 20 Trip Distribution – Inbound

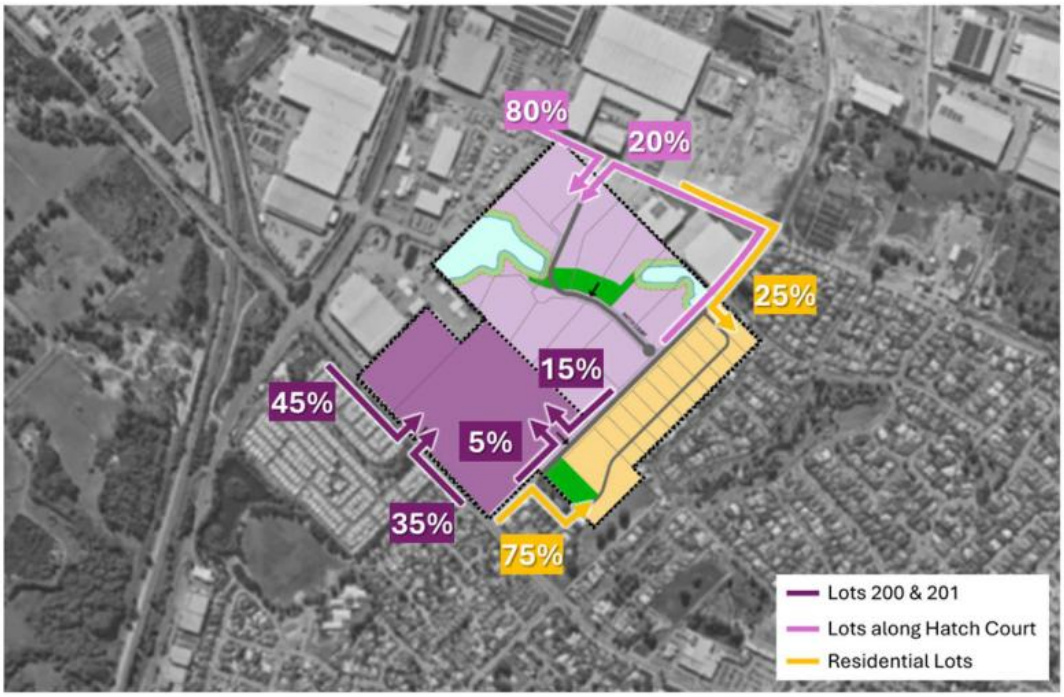
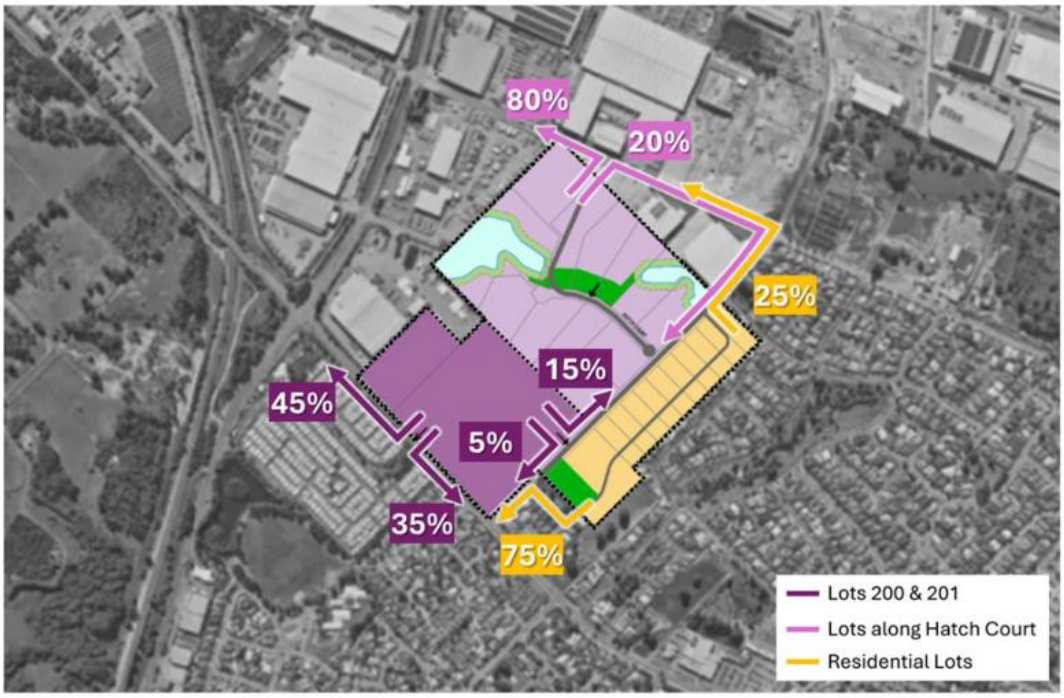


Figure 21 Trip Distribution - Outbound



7.3 Extraneous (Through) Traffic

Background traffic flows are indicated in **Figure 23**. High-resolution version of the figure is provided in **Appendix C**.

7.4 Key Intersections Analysis

7.4.1 Analysis Scenarios

A SIDRA analysis has been undertaken for the following key intersections shown in **Figure 22**:

1. Abernethy Road / Adelaide Street
2. Adelaide Street / Site Access 1 (Peak Court stub road)
3. Adelaide Street / Stirling Crescent
4. Stirling Crescent / Site Access 2
5. Stirling Crescent / Kalamunda Road
6. Kalamunda Road / Site Access 3
7. Kalamunda Road / Abernethy Road

Based on a 15-year horizon, the following scenarios have been adopted:

- Scenario 1 – 2041 Background Traffic
- Scenario 2 – 2041 With Development

Figure 22 Key Intersections



Source: Dynamic Planning and Developments

7.4.2 Assessment Parameters

Key assessment parameters and assumptions adopted for the SIDRA analysis are detailed below:

- Vehicles accessing Lots 200 and 201 will primarily utilise the crossover via Kalamunda Road since this road provides direct access to Roe Highway and Great Eastern Highway.
- Vehicles coming from northern generators will access Lot 200 via Stirling Crescent.
- The remaining industrial lots along Hatch Court will be accessed via Adelaide Street through Peak Court.
- At least 10% of the peak hour trips generated by the LSP's industrial lots are assumed to be heavy vehicle traffic. This number was adopted based on the historic peak hour heavy vehicle numbers along Stirling Crescent (north) and Kalamunda Road.
- Majority of trips for the residential area will be to places of work, shopping centres, schools, and other generators south of the Site.
- 25% of residential trips were assumed to be generated by the Midland town centre to the north of the Site.
- Closure of Great Eastern Highway Bypass / Stirling Crescent Intersection results to re-diversion of traffic from Stirling Crescent to Abernethy Road.
- Adelaide Street / Abernethy Road / Brinsmead Road and Adelaide Street / Stirling Crescent intersection will operate as a roundabout.

7.4.3 Intersection Performance

The intersections have been analysed using the SIDRA analysis program. This program calculates the performance of intersections based on input parameters, including geometry and traffic volumes. As an output, SIDRA provides values for the Degree of Saturation (DOS), queue lengths, delays, level of service, and 95th Percentile Queue. These parameters are defined as follows:

- Degree of Saturation (DOS): is the ratio of the arrival traffic flow to the capacity of the approach during the same period. The Degree of Saturation ranges from close to zero for varied traffic flow, up to one for saturated flow or capacity.
- 95% Percentile Queue Length: is the statistical estimate of the queue length up to or below which 95% of all observed queues would be expected;
- Average Delay: is the average of all travel time delays for vehicles through the intersection. An un-signalised intersection can be considered to be operated at capacity where the average delay exceeds 40 seconds for any movement;
- Level of Service (LOS): is the qualitative measure describing operational conditions within a traffic stream and the perception by motorists and/or passengers. Table 11 provides a description of the different levels of service with the Level of Service Target being LOS D. Exceeding this threshold indicates that the road section is exceeding its practical capacity. Above these values, users of the intersection are likely to experience unsatisfactory queueing and delays during the peak hour periods.

The acceptable value for average delay is according to the thresholds set by the Western Australian Planning Commission (WAPC) as summarised in Table 12 while the practical levels of Degree of Saturation (DOS) are according to the Austroads Guide to Traffic Management criteria as summarised in Table 13. In addition, the *Signal performance Requirements* as set out by Main Roads WA is summarised in Table 14.

Table 11 Level of Service (LoS) Performance Criteria

LOS	Description	Signalised Intersection	Unsignalised Intersection	Roundabout
A	No or minimal delays (best condition). Queues are rarely more than one vehicle	⩽10 sec	⩽10 sec	≤10 sec
B	Short traffic delays. Occasionally more than one queued vehicle.	10-20 sec	10-15 sec	10-20 sec
C	Average traffic delays. Often more than one queued.	20-35 sec	15-25 sec	20-35 sec
D	Longer traffic delays. Regularly more than one queued vehicle.	35-55 sec	25-35 sec	35-50 sec
E	Very long traffic delays. Traffic demand is near or equal to the practical capacity of the intersection. Almost always more than one queued vehicle.	55-80 sec	35-50 sec	50-70 sec
F	Forced flow conditions with extensive delays caused by geometric and/or operational constraints external to the intersection.	⩾80 sec	⩾50 sec	≥70 sec

Table 12 WAPC Thresholds for Average Delay

Criteria	Average Delay (sec/veh)
Signalised intersections	
> Average delay for all vehicles passing through the intersection	<55 secs
> Average delay for any individual vehicle, pedestrian or cyclist movement	<65 secs
Priority intersections (roundabouts, give way and stop)	
> Average delay for all vehicles on the non-priority arms (that is, have to give way or stop)	<35 secs
> Average delay for any individual vehicle, pedestrian or cyclist movement	<45 secs
Right turn lanes	
> Exclusive turning movement queue length	Less than available storage (95th percentile queue)

Source: WAPC Transport Impact Assessment Guidelines Volumes 4 – Individual Developments

Table 13 Austroads Criteria for Degree of Saturation (DOS)

Criteria	Degree of Saturation
Signalised intersections	0.90
Roundabouts	0.85
Sign-controlled intersection	0.80

Source: Austroads Guide to Traffic Management Part 3: Transport Study and Analysis Methods, Section 4.2.4

Table 14 MRWA Signal Performance Requirements

Criteria	Degree of Saturation	Level of Service
1. Opening Year	80% DOS	Intersection LOS D or better
2. STH (i.e., five years)	85% DOS	Intersection LOS D or better
3. MTH (i.e., 10 years)	<100% DOS	Intersection LOS E or better

Source: MRWA Traffic Signals Approval Policy

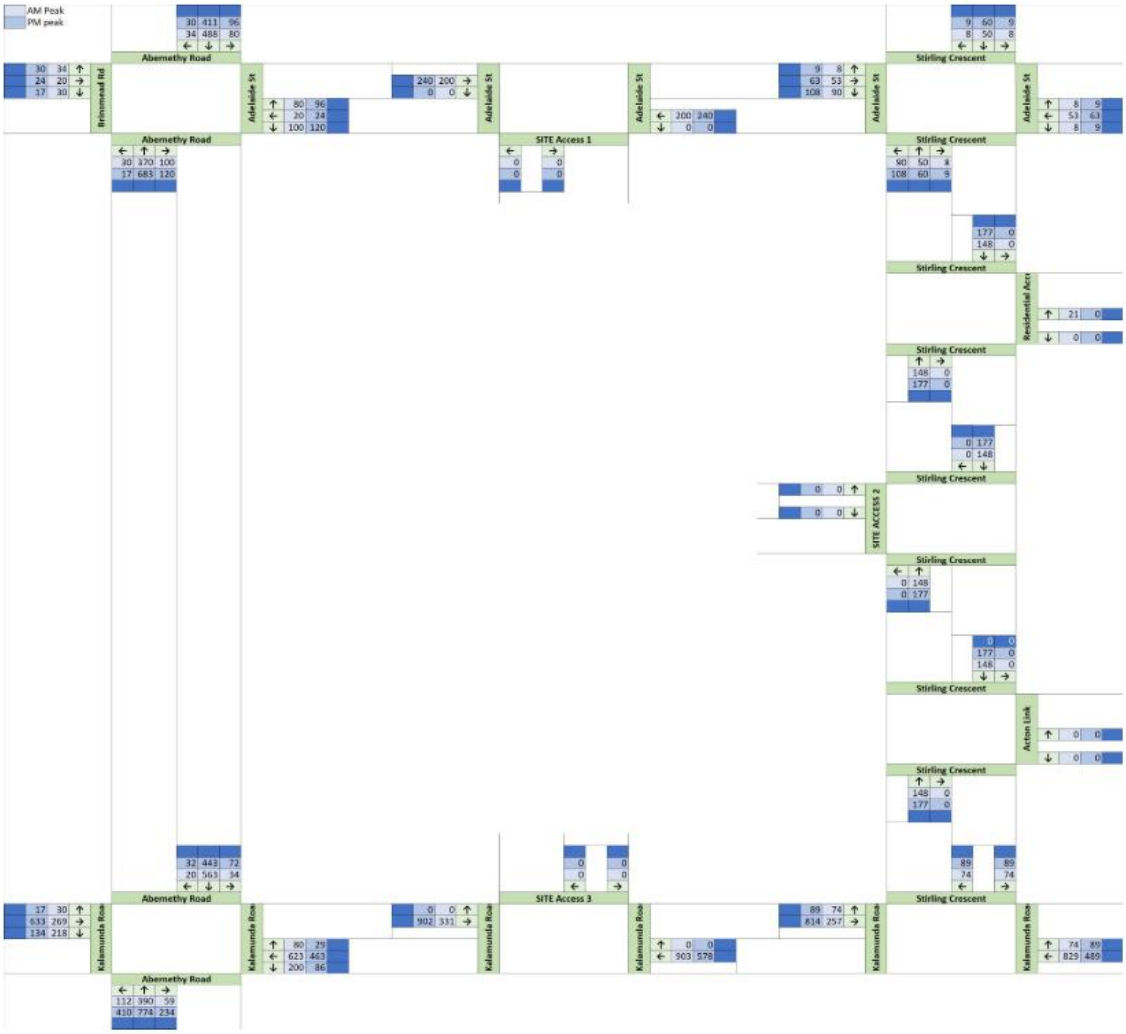
7.4.4 Background Traffic

The following assumptions were made when calculating the background traffic based on traffic volumes from MRWA Traffic Map:

- The LSP will be fully developed in 15 years' time.
- An annual growth rate of 1% will be used for the 15-year horizon scenarios.
- AM peak hour being 10% of ADT
- PM peak hour is 12% of ADT
- The Great Eastern Highway Bypass Interchanges Project will be completed by 2041.
- Stirling Crescent will be closed at the Great Eastern Highway Bypass Road and will be converted into a cul-de-sac. Existing traffic volumes indicate that 6,050 vehicles pass through Stirling Crescent daily, most of which are expected to be diverted towards Abernethy Road once it is closed. The following assumptions were considered for the Stirling Crescent traffic that will be diverted to Abernethy Road:
    - Daily: 1000 vehicles per day (with 13.3% HV) – it is assumed that only this portion of the daily Stirling Crescent traffic will utilise Abernethy Road. The remaining diverted traffic will likely utilise Roe Highway instead.
    - AM Peak: 100 vehicles per hour
    - PM Peak: 120 vehicles per hour
- 2022 traffic data from MRWA was used for the intersection of Abernethy Road and Kalamunda Road. A 1% growth rate was used to obtain background traffic counts for 2041. Heavy vehicles constitute 33.4% and 7.6% of the total vehicle counts along Abernethy Road and Kalamunda Road, respectively
- Adelaide Street will have a connection at Abernethy Road by 2041 and will operate as a roundabout, which is expected to increase traffic activity along Adelaide Street. There is currently a proposed RAV 7 connection along Adelaide Street as part of the GEHBI, which will cater to heavy vehicles accessing the Site and surrounding industrial lots. The HV% from traffic data along Abernethy Road was adopted for Adelaide Street.
    - Daily: 3000 vehicles per day (33.4% HV)
    - AM Peak: 300 vehicles per hour
    - PM Peak: 360 vehicles per hour

Traffic data for Scenario 1 (2041) are shown in **Figure 23**. High-resolution version of the figure is provided in **Appendix C**.

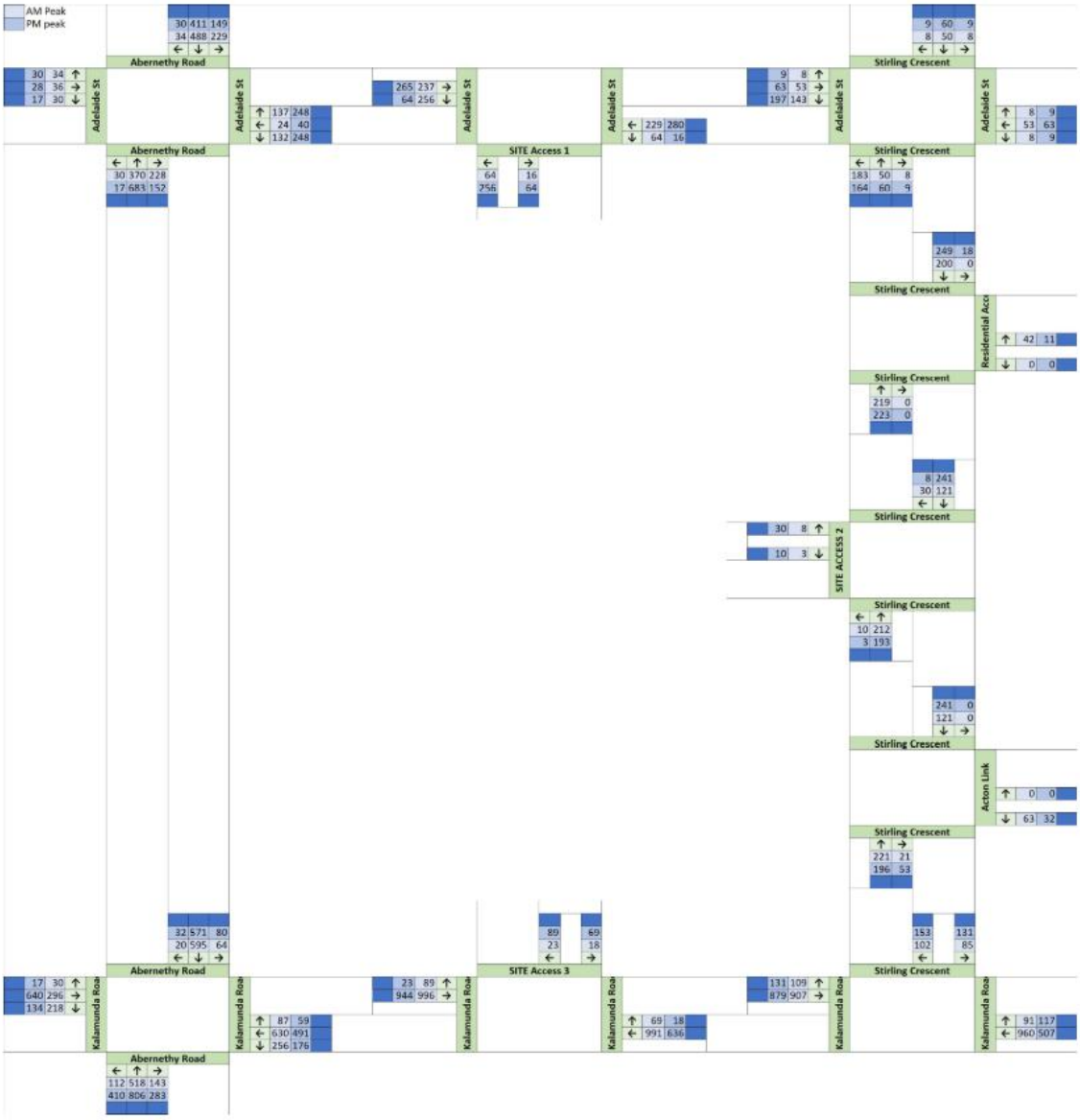
Figure 23 Background Traffic Data – Scenario 1 - 2041 Background Traffic



7.4.5 Traffic Volumes

Traffic volumes adopted for the SIDRA analysis for Scenario 2, which considers the background traffic and development traffic are shown in **Figure 24**. High-resolution version of the figure is provided in **Appendix C**.

Figure 24 Traffic Volumes – Scenario 2 – 2041 Background with Development Traffic



7.4.6 Abernethy Road / Adelaide Street / Brinsmead Road

The SIDRA layout adopted for Abernethy Road / Adelaide Street / Brinsmead Road intersection is shown in Figure 25.

The analysis results for the intersection are presented in Table 15 and Table 16, which indicate that the roundabout will operate satisfactorily in both scenarios, with a maximum LOS B, delay of 19.1 seconds, and degree of saturation 0.753. The degree of saturation is below the 0.85 DOS threshold set by Austroads for roundabouts.

Figure 25 SIDRA Layout – Abernethy Road / Adelaide Street / Brinsmead Road

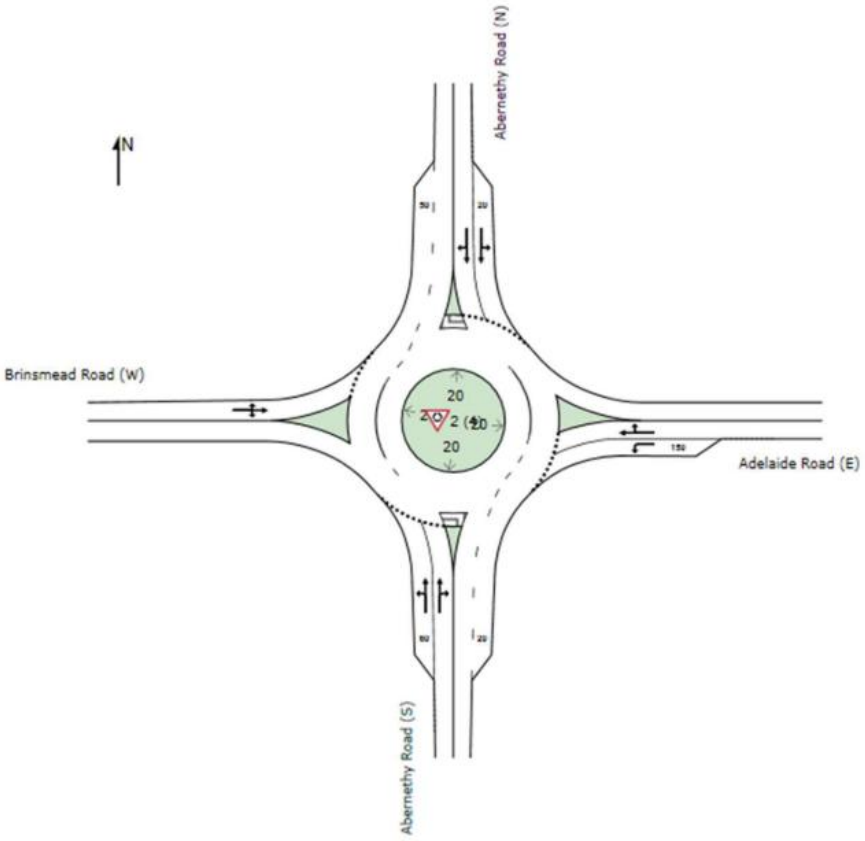


Table 15 SIDRA Results – Abernethy Road / Adelaide Street / Brinsmead Road – Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Abernethy Road (S)	L	0.139	6	A	6.7	0.231	6.3	A	12
	T	0.348	5.6	A	21.3	0.576	6.4	A	46.1
	R	0.348	10.1	B	21.3	0.576	10.7	B	46.1
Adelaide Road (E)	L	0.156	9.2	A	7.4	0.174	8.5	A	8.6
	T	0.175	9.1	A	8.1	0.192	8.5	A	9.3
	R	0.175	13.9	B	8.1	0.192	13.4	B	9.3
	L	0.125	6.2	A	5.6	0.137	6.3	A	6.4

Abernethy Road (N)	T	0.453	5.8	A	29.5	0.4	5.8	A	25.2
	R	0.453	10.4	B	29.5	0.4	10.4	B	25.2
Brinsmead Road (W)	L	0.151	8.6	A	5.9	0.178	12.4	B	7.4
	T	0.151	8.4	A	5.9	0.178	11.2	B	7.4
	R	0.151	13.3	B	5.9	0.178	16.1	B	7.4

Table 16 SIDRA Results Abernethy Road / Adelaide Street / Brinsmead Road – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Abernethy Road (S)	L	0.045	6.5	A	2	0.302	8.8	A	15.7
	T	0.566	6.4	A	43.9	0.753	11.6	B	92.7
	R	0.566	11.1	B	43.9	0.753	16.3	B	92.7
Adelaide Street (E)	L	0.263	10.9	B	13.8	0.414	10.3	B	23.8
	T	0.275	9.3	A	15.3	0.424	9	A	25.4
	R	0.275	14.5	B	15.3	0.424	13.9	B	25.4
Abernethy Road (N)	L	0.329	7.9	A	17.6	0.207	6.8	A	10.5
	T	0.555	7.8	A	42.3	0.426	6.2	A	28.5
	R	0.555	12.5	B	42.3	0.426	10.8	B	28.5
Adelaide Street (W)	L	0.259	12.5	B	13.3	0.257	16.2	B	11.8
	T	0.259	12.6	B	13.3	0.257	14.1	B	11.8
	R	0.259	17.5	B	13.3	0.257	19.1	B	11.8

7.4.7 Adelaide Street / Site Access 1 – Peak Court

The SIDRA layout adopted for Adelaide Street / Site Access 1 – Peak Court intersection is shown in **Figure 26**. The analysis results for the intersection are presented in **Table 17** and **Table 18**, which show that the access will be able to operate adequately for both scenarios.

Figure 26 SIDRA Layout – Adelaide Street / Site Access 1 at Peak Court

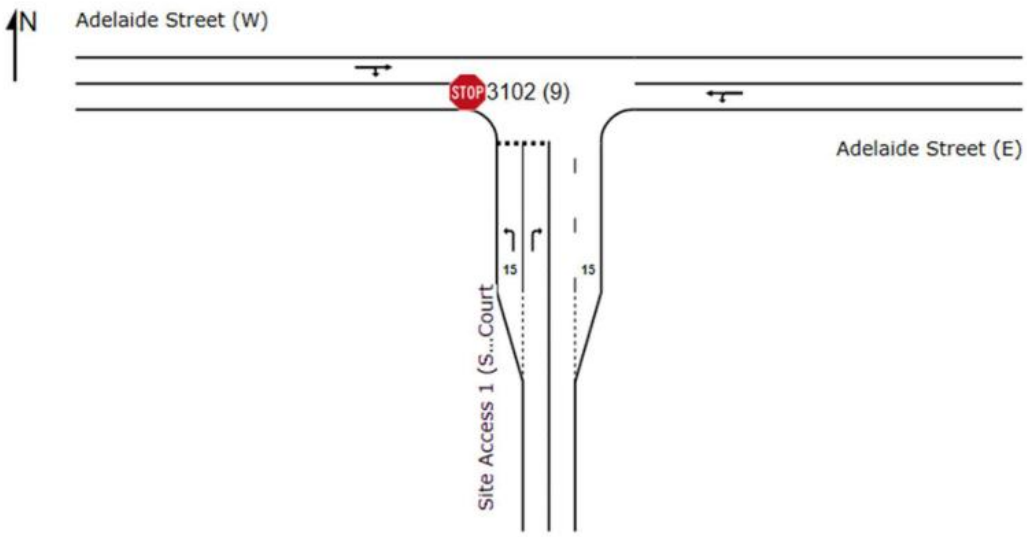


Table 17 SIDRA Results – Adelaide Street / Site Access 1 – Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Site Access 1 – Peak Court (S)	L	0.001	6.5	A	0	0.001	6.7	A	0
	R	0.001	7.8	A	0	0.002	8.5	A	0
Adelaide Street (E)	L	0.143	4.7	A	0	0.172	4.7	A	0
	T	0.143	0	A	0	0.172	0	A	0
Adelaide Street (W)	T	0.143	0	A	0.1	0.172	0	A	0.1
	R	0.143	4.8	A	0.1	0.172	4.8	A	0.1

Table 18 SIDRA Results - Adelaide Street / Site Access 1 – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Site Access 1 – Peak Court (S)	L	0.057	6.7	A	1.8	0.244	7.3	A	8.7
	R	0.04	12	B	0.9	0.125	10.4	B	3.2
Adelaide Street (E)	L	0.203	5.3	A	0	0.209	4.8	A	0
	T	0.203	0.1	A	0	0.209	0.1	A	0
Adelaide Street (W)	T	0.384	1.6	A	20.5	0.241	0.5	A	5.7
	R	0.384	6.8	A	20.5	0.241	6.4	A	5.7

7.4.8 Adelaide Street / Stirling Crescent

The SIDRA layout adopted for Adelaide Street / Stirling Crescent is shown in **Figure 27**, which will operate as a roundabout.

The analysis results for the intersection are presented in **Table 19** and **Table 20**. The results indicate that the intersection will operate satisfactorily in both scenarios with a maximum LOS B and will maintain a DOS <0.85.

Figure 27 SIDRA Layout – Adelaide Street / Stirling Crescent

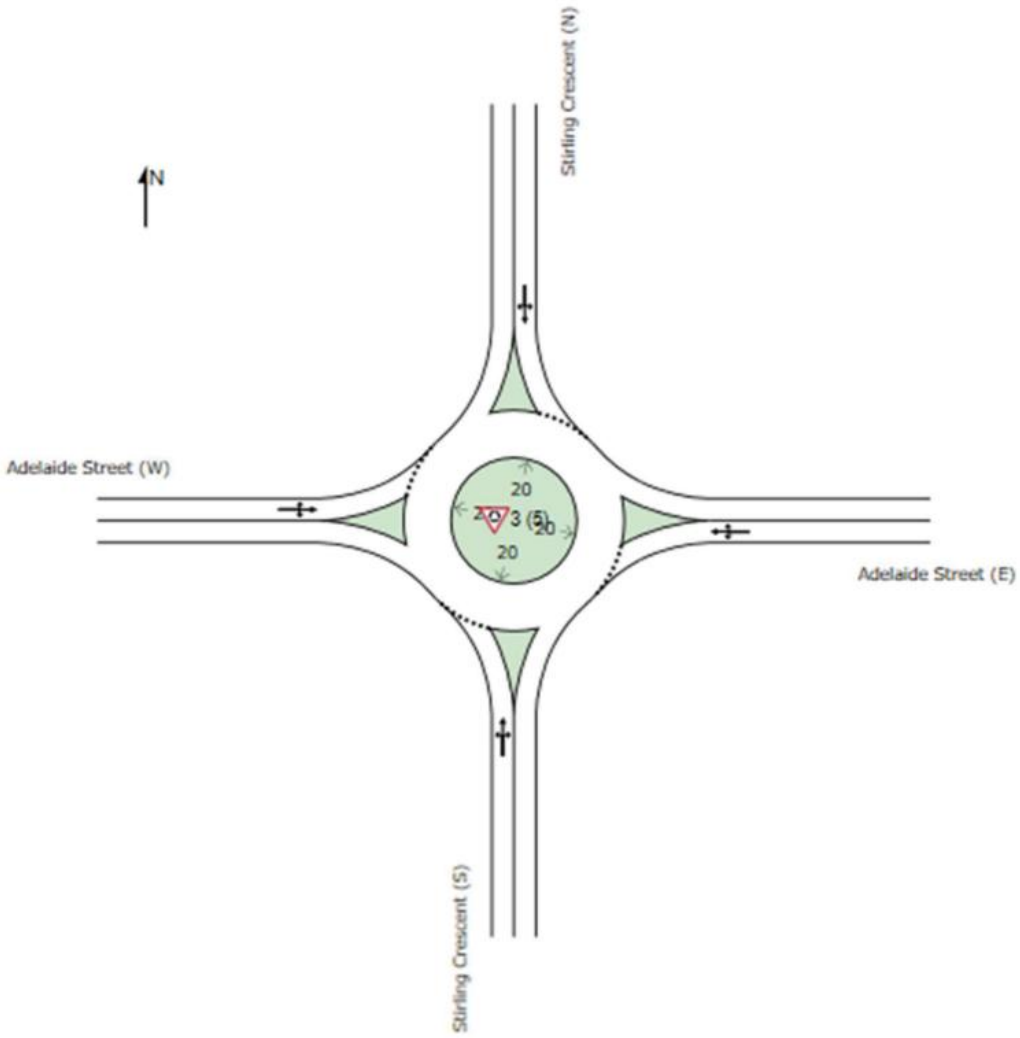


Table 19 SIDRA Results – Adelaide Street / Stirling Crescent – Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Stirling Crescent (S)	L	0.129	4.5	A	5.9	0.156	4.6	A	7.4
	T	0.129	4.7	A	5.9	0.156	4.8	A	7.4
	R	0.129	9.4	A	5.9	0.156	9.5	A	7.4
	L	0.075	5.5	A	3.6	0.092	5.8	A	4.4

Adelaide Street (E)	T	0.075	5.6	A	3.6	0.092	5.9	A	4.4
	R	0.075	10.4	B	3.6	0.092	10.7	B	4.4
Stirling Crescent (N)	L	0.065	5.1	A	2.7	0.08	5.3	A	3.4
	T	0.065	5.3	A	2.7	0.08	5.5	A	3.4
	R	0.065	10	A	2.7	0.08	10.2	B	3.4
Adelaide Street (W)	L	0.141	4.7	A	7.4	0.171	4.9	A	9.2
	T	0.141	4.9	A	7.4	0.171	5	A	9.2
	R	0.141	9.6	A	7.4	0.171	9.8	A	9.2

Table 20 SIDRA Results – Adelaide Street / Stirling Crescent – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Stirling Crescent (S)	L	0.204	4.5	A	10.3	0.203	4.6	A	10.3
	T	0.204	4.7	A	10.3	0.203	4.8	A	10.3
	R	0.204	9.4	A	10.3	0.203	9.5	A	10.3
Adelaide Street (E)	L	0.081	6	A	3.8	0.103	6.6	A	5
	T	0.081	6.1	A	3.8	0.103	6.8	A	5
	R	0.081	10.9	B	3.8	0.103	11.5	B	5
Stirling Crescent (N)	L	0.07	5.5	A	2.9	0.089	6.1	A	3.8
	T	0.07	5.7	A	2.9	0.089	6.3	A	3.8
	R	0.07	10.4	B	2.9	0.089	10.9	B	3.8
Adelaide Street (W)	L	0.188	4.7	A	10.3	0.251	4.9	A	14.6
	T	0.188	4.9	A	10.3	0.251	5.1	A	14.6
	R	0.188	9.6	A	10.3	0.251	9.8	A	14.6

7.4.9 Stirling Crescent – Site Access 2

The SIDRA layout adopted for Stirling Crescent / Site Access 2 intersection is shown in **Figure 28.**

The analysis results for the intersection are presented in and **Table 21** and **Table 22**, which show that the access will operate satisfactorily across all legs and will maintain LOS A and DOS <0.8 even during full development.

Figure 28 SIDRA Layout – Stirling Crescent / Site Access 2

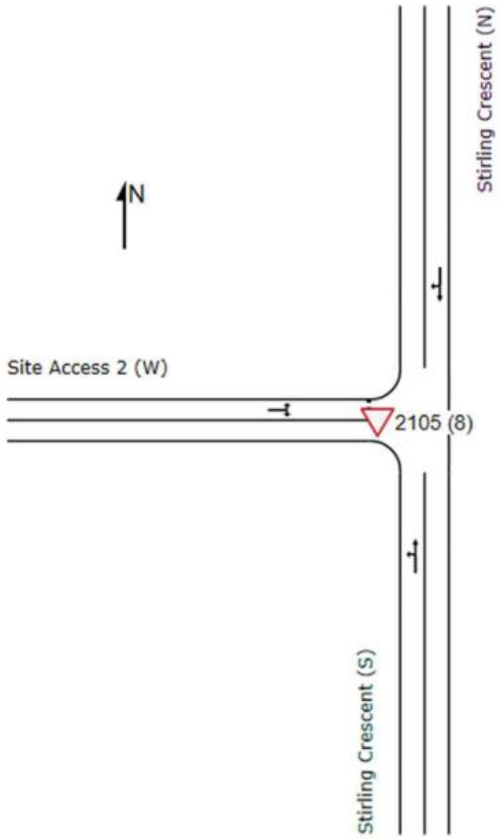


Table 21 SIDRA Results – Stirling Crescent / Site Access 2 – Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Stirling Crescent (S)	L	0.09	5.7	A	0	0.108	5.7	A	0
	T	0.09	0	A	0	0.108	0	A	0
Stirling Crescent (N)	T	0.09	0	A	0.1	0.108	0	A	0.1
	R	0.09	5.7	A	0.1	0.108	5.7	A	0.1
Site Access 2 (W)	L	0.002	5.2	A	0.1	0.002	5.3	A	0.1
	R	0.002	6	A	0.1	0.002	6.3	A	0.1

Table 22 SIDRA Results - Stirling Crescent / Site Access 2 – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Stirling Crescent (S)	L	0.135	5.7	A	0	0.119	5.7	A	0
	T	0.135	0	A	0	0.119	0	A	0

Stirling Crescent (N)	T	0.097	0.3	A	2	0.152	0	A	0.6
	R	0.097	6.6	A	2	0.152	6.2	A	0.6
Site Access 2 (W)	L	0.011	5.5	A	0.3	0.039	5.4	A	1.1
	R	0.011	6.5	A	0.3	0.039	7.1	A	1.1

7.4.10 Stirling Crescent / Kalamunda Road

The SIDRA layout adopted for Stirling Crescent / Kalamunda Road intersection is shown in **Figure 29**. The results of the analysis for the intersection are presented in **Table 23** and **Table 24**.

It is indicative that overall, the intersection will perform poorly due to the significant delays anticipated for either peak hour periods or assessment scenarios considered.

High volumes of background through traffic along Kalamunda Road causes right turn movements along Stirling Crescent and Kalamunda Road to perform poorly since right-turning vehicles have to wait to be able to safely cross the intersections. This results in a significant buildup of traffic and extended delays.

Future road developments such as the Great Eastern Highway Bypass Interchanges Project and related works are expected to improve overall network performance.

Figure 29 SIDRA Layout – Stirling Crescent / Kalamunda Road

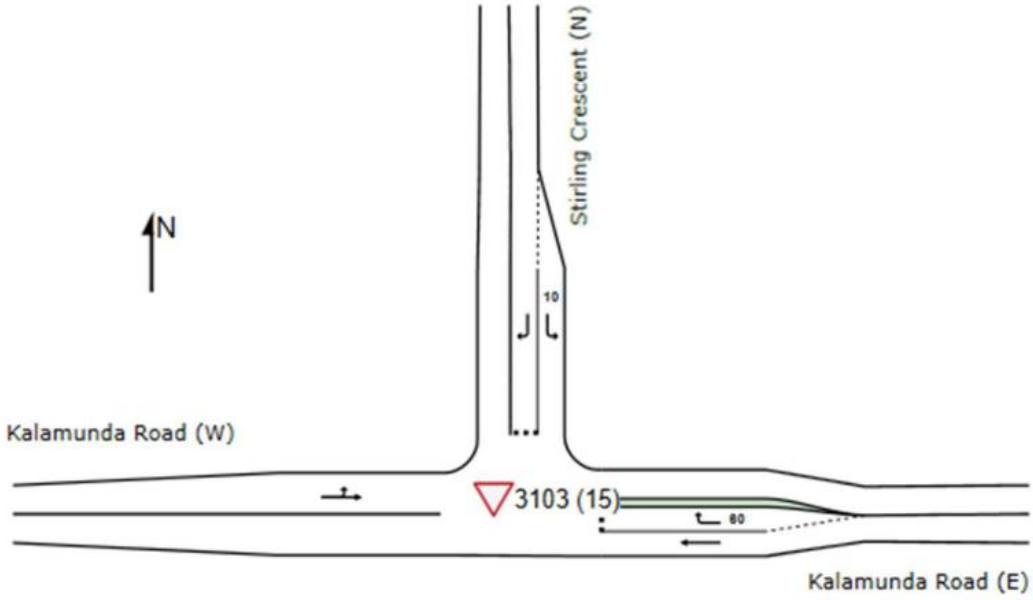


Table 23 SIDRA Results – Stirling Crescent / Kalamunda Road– Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Kalamunda Road (E)	T	0.489	0.5	A	0	0.289	0.2	A	0
	R	0.065	7.1	A	2.2	0.224	14.8	B	6.4
Stirling Crescent (N)	L	0.067	6.9	A	2.2	0.209	16.5	C	5.9
	R	0.76	71.4	F	23.4	1.771	791	F	233.1

Kalamunda Road (W)	L	0.179	5.7	A	0	0.485	5.7	A	0
	T	0.179	0	A	0	0.485	0.1	A	0

Table 24 SIDRA Results – Stirling Crescent / Kalamunda Road – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Kalamunda Road (E)	T	0.566	0.4	A	0	0.299	0.2	A	0
	R	0.317	20	C	8.9	0.4	20.9	C	11.9
Stirling Crescent (N)	L	0.254	103.6	F	7.1	0.363	40.1	E	11.4
	R	7.985	6535.4	F	508.3	4.944	3684.2	F	684.7
Kalamunda Road (W)	L	0.545	5.7	A	0	0.543	5.7	A	0
	T	0.545	0.1	A	0	0.543	0.1	A	0

Based on SIDRA analysis, the existing intersection at Stirling Crescent / Kalamunda Road will operate at a very poor level at full LSP buildout. A potential mitigation to the poor performance could be the conversion of the intersection into a roundabout layout as shown in **Figure 30.** The results show a significant improvement in intersection performance as seen in **Table 25,** with all legs experiencing LOS A-B and a maximum DOS at 0.566, which is below the Austroads threshold for roundabouts.

It should be noted that while the roundabout performs better than the existing priority-controlled intersection, the capacity of the road reserve to accommodate the modelled roundabout configuration will need to be assessed first. In addition, the proposed Local Structure Plan does not explicitly consider this intersection as a roundabout and this option was only considered in this assessment to present potential mitigation measures.

Alternatively, movement restrictions at this intersection, such as banning right turns, may be implemented as a more cost-effective option but may result in redistribution of traffic and decline of performance in other intersections within the network.

Figure 30 SIDRA Layout – Stirling Crescent / Kalamunda Road – Roundabout

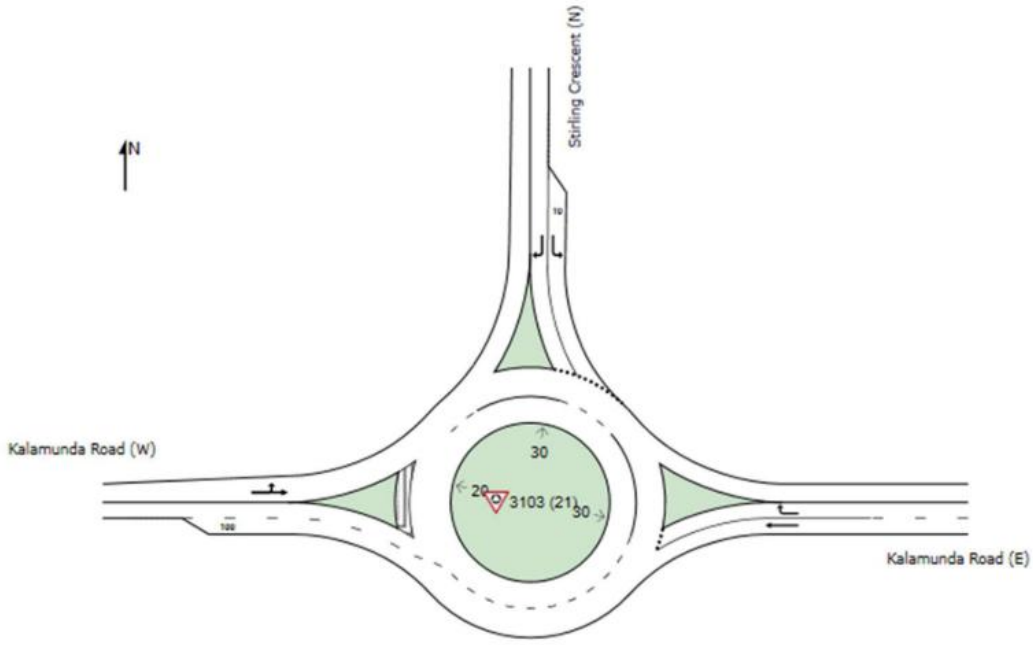


Table 25 SIDRA Results – Stirling Crescent / Kalamunda Road – Scenario 2 – Roundabout

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Kalamunda Road (E)	T	0.566	4.5	A	0	0.299	4.3	A	0
	R	0.116	10.2	B	5.3	0.161	10.8	B	7.4
Stirling Crescent (N)	L	0.164	12.6	B	7.7	0.085	3.7	A	0
	R	0.156	16.7	B	8	0.228	16.5	B	11.8
Kalamunda Road (W)	L	0.545	3.9	A	0	0.543	3.9	A	0
	T	0.545	3.8	A	0	0.543	3.8	A	0

Increasing the intensity of development as proposed within the LSP will result in an increase in the overall traffic and a decrease in intersection performance for non-upgraded intersections. There is no requirement for the intersections to be upgraded, however, the TIA report should provide upgrade options as required by the WAPC guidelines. However, it should be noted that the intersections will operate under worsening LOS in the future, even without development traffic.

7.4.11 Kalamunda Road – Site Access 3

The SIDRA layout adopted for the Kalamunda Road / Site Access 3 is shown in **Figure 31**. The analysis results for the intersection are presented in **Table 26** and **Table 27**.

The results indicate that the intersection operates satisfactorily in Scenario 1, with a maximum delay of 12.7 seconds at LOS B in the PM Peak. In Scenario 2, the maximum delay is anticipated to be 34.4 seconds, which occurs at the right turn lane of Site Access 3 in the AM peak hour period.

Overall, Scenario 2 reflects a shift from free flow to moderately constrained conditions, with the most significant effects on the eastbound approach and site access due to trips generated by the LSP. While performance remains generally acceptable, the increase in queue lengths, particularly on the east approach, may warrant consideration or intersection upgrades if traffic volumes increase further in the future.

Figure 31 SIDRA Layout – Kalamunda Road – Site Access 3

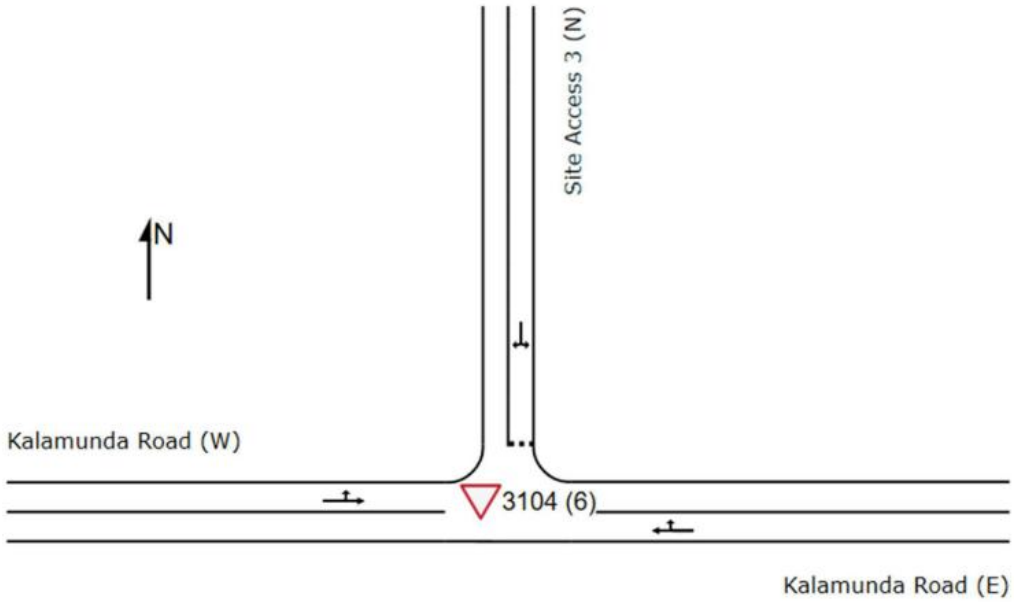


Table 26 SIDRA Results – Kalamunda Road / Site Access 3 – Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Kalamunda Road (E)	T	0.52	0	A	0.1	0.334	0	A	0.2
	R	0.52	5.7	A	0.1	0.334	7	A	0.2
Site Access 3 (N)	L	0.003	6	A	0.1	0.006	12.7	B	0.1
	R	0.003	9.5	A	0.1	0.006	12	B	0.1
Kalamunda Road (W)	L	0.191	5.7	A	0	0.519	5.8	A	0
	T	0.191	0	A	0	0.519	0.2	A	0

Table 27 SIDRA Results – Kalamunda Road / Site Access 3 – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Kalamunda Road (E)	T	0.762	12.8	B	94.4	0.402	0.8	A	4.9
	R	0.762	28.9	D	94.4	0.402	14.1	B	4.9
	L	0.288	18.5	C	5.2	0.553	19.4	C	15

Site Access 3 (N)	R	0.288	34.4	D	5.2	0.553	19.7	C	15
Kalamunda Road (W)	L	0.628	5.9	A	0	0.557	5.9	A	0
	T	0.628	0.3	A	0	0.557	0.2	A	0

7.4.12 Abernethy Road / Kalamunda Road

The SIDRA layout adopted for the Abernethy Road / Kalamunda Road is shown in **Figure 32**. The analysis results for the intersection are presented in **Table 28** and **Table 29**.

In Scenario 1 several movements operating at LOS F and degrees of saturation exceeding 1.0, particularly on the Abernethy Road south and Kalamunda Road west approaches in the PM. Delays are substantial (up to with very long queues (up to 635 m). Some movements, particularly on the north approach, continue to operate at acceptable levels.

Scenario 2 demonstrates most movements across all approaches operating at LOS F in both peaks. Delays increase further (exceeding 200 seconds), and queues are significantly longer (up to 732 m), indicating more widespread and consistent oversaturation. This may be attributed to the high volumes along Abernethy Road and the diversion of traffic from Stirling Crescent due to the closure of its intersection at Great Eastern Highway Bypass. Further detailed assessment should be undertaken to determine the most suitable mitigation measures.

High volumes of through traffic along Kalamunda Road and Abernethy Road causes turning movements along to perform poorly since vehicles have to wait to be able to safely cross the intersections. This results in a significant buildup of traffic and extended delays.

Overall, the assessment results indicate that the intersection will perform poorly and at capacity with just the projected background traffic growth by 2041. With the introduction of development traffic upon full development (under Scenario 2), the intersection will likely operate beyond its practical capacity, wherein significant delays and queueing are anticipated.

Figure 32 SIDRA Layout – Abernethy Road / Kalamunda Road

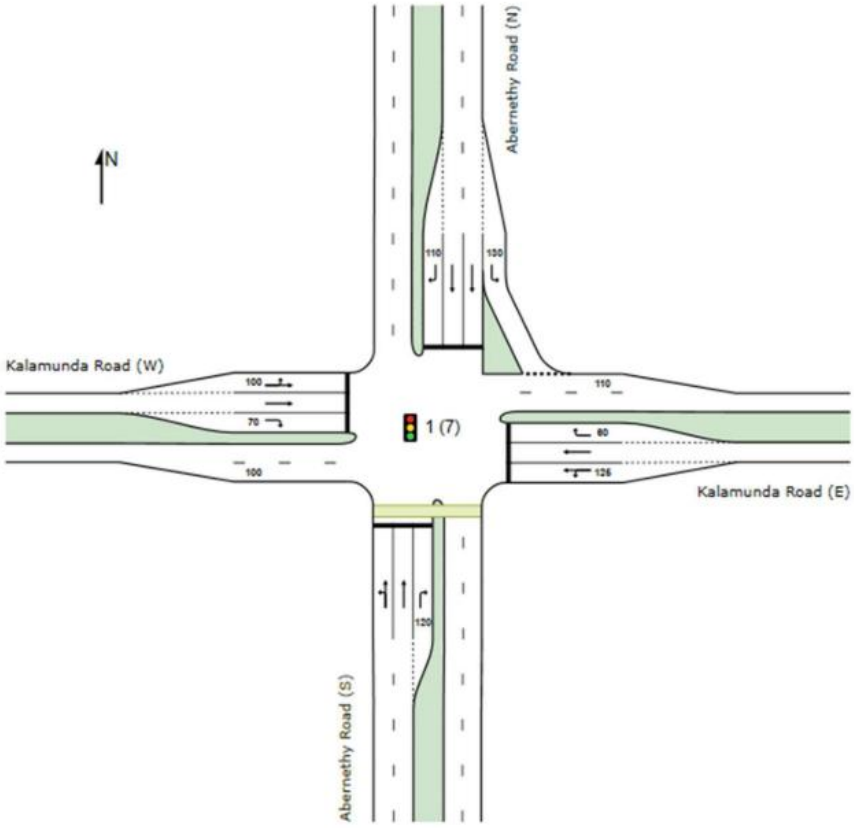


Table 28 SIDRA Results – Abernethy Road / Kalamunda Road – Scenario 1

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Abernethy Road (S)	L	0.711	38.4	D	136.1	1.130	174.5	F	635.2
	T	0.711	52.5	D	136.1	1.13	186.5	F	635.2
	R	0.811	77.3	E	37.4	1.132	203.2	F	233.2
Kalamunda Road (E)	L	0.489	31.3	C	115.4	0.576	34.4	C	82.8
	T	0.811	52.9	D	218	0.956	75.6	E	183.4
	R	0.298	71.8	E	33.6	0.245	72	E	12.3
Abernethy Road (N)	L	0.035	7.1	A	2.3	0.101	13.2	B	11.6
	T	0.811	53.9	D	163.6	0.421	30.3	C	87.7
	R	0.275	70.9	E	11.7	0.155	52.3	D	14.8
Kalamunda Road (W)	L	0.18	26.5	C	36.6	0.739	33	C	110.8
	T	0.275	29.1	C	58.8	1.132	137.3	F	316.1
	R	0.811	64.9	E	106.9	1.131	204.6	F	108.8

Table 29 SIDRA Results – Abernethy Road / Kalamunda Road – Scenario 2

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Abernethy Road (S)	L	0.964	72	E	235.7	1.192	225.1	F	731.7
	T	0.964	85.7	F	235.7	1.192	237.9	F	731.7
	R	0.962	93.1	F	103.8	1.193	255.2	F	319.2
Kalamunda Road (E)	L	0.58	34.3	C	137	0.718	39.2	D	112.1
	T	0.962	86.7	F	313.6	1.191	212.7	F	362.2
	R	0.385	80.6	F	38.1	0.525	80.8	F	25.9
Abernethy Road (N)	L	0.075	8.1	A	5.4	0.114	13.2	B	12.6
	T	0.921	69.7	E	200.6	0.556	32.7	C	120.5
	R	0.135	61.4	E	10.6	0.135	49.7	D	14.3
Kalamunda Road (W)	L	0.218	25.4	C	42.7	0.779	33.4	C	114.9
	T	0.333	33.4	C	68.7	1.192	170.5	F	361.9
	R	0.964	90.3	F	130.5	1.191	257.7	F	123.8

Figure 33 shows the indicative layout of the Abernethy Road / Kalamunda Road intersection with lane duplications, including the addition of right turn lanes at the south and west approach legs. In addition, signal optimisation was also considered.

Results of the analysis in **Table 30** show some improvement across all legs with the maximum delay anticipated to be 84.1 seconds for the right turn lane of the south approach leg in the PM peak period. However, this right turn movement will still operate at LOS F with a DOS of 0.952 and with an expected queue length of 93m.

Figure 33 SIDRA Layout – Abernethy Road / Kalamunda Road – With Improvements

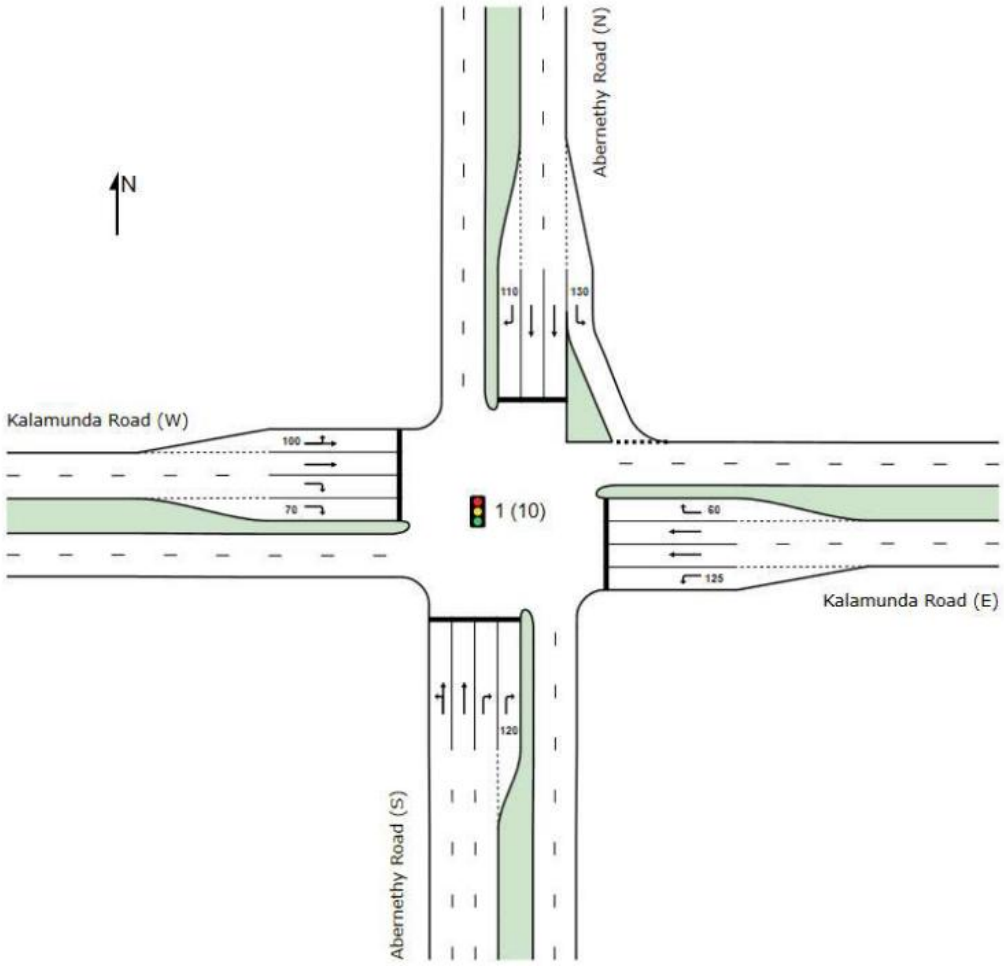


Table 30 SIDRA Results – Abernethy Road / Kalamunda Road – Scenario 2 – With Improvements

Intersection Approach	Turn	AM Peak				PM Peak			
		DOS	Delay (s)	LOS	95% Queue (m)	DOS	Delay (s)	LOS	95% Queue (m)
Abernethy Road (S)	L	0.64	32.2	C	152.3	0.953	61.6	E	413.1
	T	0.640	40.6	D	152.3	0.953	64.2	E	413.1
	R	0.640	69.4	E	42.2	0.952	84.1	F	93
Kalamunda Road (E)	L	0.363	31.7	C	81.4	0.29	32.9	C	53.3
	T	0.640	44.5	D	132	0.712	47	D	101.3
	R	0.511	70	E	40.1	0.645	66.4	E	26.9

Abernethy Road (N)	L	0.067	7.3	A	5	0.101	11.2	B	12.6
	T	0.607	37.9	D	142.4	0.457	25.8	C	106.7
	R	0.179	65.5	E	11.1	0.215	57.3	E	15.7
Kalamunda Road (W)	L	0.324	31.6	C	59.9	0.952	60.2	E	177.8
	T	0.324	38.2	D	60	0.952	72.4	E	177.8
	R	0.640	65.4	E	51.5	0.733	67.7	E	31.1

It is noted that the proposed improvements at this intersection will perform better than the existing configuration. However, the capacity of the road reserve to accommodate these improvements will need to be assessed first. In addition, the proposed Local Structure Plan does not explicitly propose any lane duplications at this intersection and was only considered in this assessment to present potential mitigation measures.

7.5 Access Strategy

As discussed in Section 4.1, all future development traffic will access the site via a defined network of connections. Traffic from light industrial lots currently using Hatch Court will be redirected to Adelaide Street via the proposed Peak Court connection, following the conversion of the Hatch Court/Stirling Crescent intersection to a cul-de-sac.

Light Industry Lots 200 and 201 will be served by access crossovers to Kalamunda Road and Stirling Crescent, while residential access will be provided from Stirling Crescent via a proposed internal road linking to Wem Mews. Overall, the access strategy distributes traffic across multiple connections to support safe and efficient operation.

7.6 Restricted Access Vehicles (RAV) Network

As part of the Great Eastern Highway Bypass Interchanges project, a RAV 7 connection is proposed along Adelaide Street. Heavy vehicles are likely to utilise Adelaide Street to access the industrial area.

7.7 Pedestrian and Cycling Network

As discussed in Section 3.3, no internal pedestrian/cycling network are proposed within the light industry component of the LSP area, reflecting their primary function of accommodating private and heavy vehicle movements associated with the intended land use.

Accordingly, there is a proposed 1.8m-wide footpath along the proposed access road to the residential lots as discussed in Section 4.5 which may be able to connect to the existing footpath located along Stirling Crescent and Wem Mews as discussed in Section 3.4. This connection will facilitate pedestrian permeability and improve accessibility to and within the residential component of the LSP area.

7.8 Public Transport Access

As discussed in Section 3.5, there is an existing route that is available within the southern section of the LSP area which also has a nearby bus stop along Kalamunda Road. A 500-metre walking catchment for the nearest bus stop was conducted, as shown in

Figure 34, as WAPC guidelines indicate that 90% of street addresses within an LSP area should be within this radius of a Transperth Bus Stop. The assessment indicates that Light Industry Lots 200 and 201 fall within the catchment, along with approximately 40% of the proposed residential lots. This demonstrates partial, but not comprehensive, coverage of the LSP area.

Figure 34 Bus Stop Catchment Area (500 metres)



As outlined in **Section 4.6**, no internal public transport routes are currently proposed within the LSP area. Combined with the existing close spacing of stops along Kalamunda Road, this limits the justification for additional services penetrating the site. Consequently, the development is unlikely to meet WAPC accessibility thresholds for public transport in its current form.

A potential future bus route along Stirling Crescent, with a stop near the Hatch Court cul-de-sac, could improve overall accessibility. However, delivery of such a service is contingent on broader development progression and funding availability and therefore cannot be relied upon at this stage.

8 SAFETY ISSUES

8.1 Crash Assessment

A crash assessment for the surrounding road network of the Site has been completed using Main Roads WA Reporting Centre. The assessment covers all the recorded crashes for the 5-year period between 1 January 2020 to 31 December 2024 along the roads surrounding the Site.

The crash locations and severity of these crashes for intersection and midblock crashes are illustrated in **Figure 35** while **Table 31** to **Table 38** provides the summary of all crashes that occurred within the vicinity of the Site.

Table 31 Total Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Right Turn Thru	-	-	-	1		1
Right Angle	-	-	3	5	1	9
Rear End	-	1	6	6	5	18
Sideswipe Same Direction	-	-	-	3	1	4
Hit Animal	-	-	-	1		1
Hit Object	-	-	-	2	1	3
Unspecified	-	-	-	2	1	3
Total	-	1	9	20	9	39

Table 32 Stirling Crescent – Adelaide St Intersection Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Right Angle	-	-	1	4	-	5
Unspecified	-	-	-	2	-	2
Total	-	-	1	6	-	7

Table 33 Stirling Crescent – Kalamunda Rd Intersection Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Right Angle	-	-	2	1	-	3
Rear End	-	-	1	2	-	3
Right Turn Thru	-	-	-	1	1	2
Hit Object	-	-	-	-	1	1
Total	-	-	3	4	2	9

Table 34 Kalamunda Rd - Abernethy Rd Intersection Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Right Angle	-	-	1	-	-	1
Rear End	-	-	3	4	2	9
Sideswipe Same Dirn	-	-	-	-	1	1
Hit Object	-	-	-	1	-	1
Unspecified	-	-	-	-	1	1
Total	-	-	4	5	4	13

Table 35 Adelaide St – Abernethy Rd Intersection Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Rear End	-	1	-	-	-	1
Total	-	1	-	-	-	1

Table 36 Stirling Crescent Midblock Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Right Angle	-	-	-	-	1	1
Rear End	-	-	-	-	1	11
Sideswipe Same Dirn	-	-	-	1	-	
Hit Animal	-	-	-	1	-	1
Total	-	-	-	2	2	4

Table 37 Kalamunda Road Midblock Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes
Rear End	-	-	1	-	1	2
Sideswipe Same Dirn	-	-	-	1	-	1
Hit Object	-	-	-	1	-	1
Total	-	-	1	2	1	4

Table 38 Abernethy Road Midblock Crashes

Crash Nature	Fatal	Hospital	Medical	PDO Major	PDO Minor	Total Crashes

Sideswipe Same Dirn	-	-	-	1	-	1
Total	-	-	-	-	-	1

Figure 35 Crash Locations



Source: Main Roads WA Reporting Centre

Crash data is summarised as follows:

- A total of thirty-nine (39) crashes were recorded within the vicinity of the Site, with no fatal crashes recorded.
- Seven (7) crashes were located at the intersection of Stirling Crescent and Adelaide Street which resulted in 1 Medical and 6 PDO Major.
- Nine (9) crashes were recorded at the intersection of Stirling Crescent and Kalamunda Road which resulted in 3 Medical, 4 PDO Major, and 2 PDO Minor.
- Thirteen (13) crashes occurred at the intersection of Kalamunda Road and Abernethy Road which resulted in 4 Medical, 5 PDO Major, and 4 PDO Minor.
- One (1) intersection crash is recorded at Abernethy Road – Adelaide Street.
- Four (4) midblock crashes were recorded along Stirling Crescent between Adelaide Street and Kalamunda Road, with two (2) crashes resulting in major property damage.
- Four (4) midblock crashes were recorded along Kalamunda Road, between Stirling Crescent and Abernethy Road which resulted in 1 Medical crash.
- One (1) midblock crash was reported along Abernethy Road, between Kalamunda Road and Adelaide Street.

Overall, the recorded crash history does not indicate any significant road safety issues that are likely to be exacerbated by the development of the LSP. The distribution of crashes in the study area generally corresponds to the higher traffic volumes along Kalamunda Road.

The number of crashes recorded at the Stirling Crescent/Adelaide Street intersection is indicative of the current 'rural' type road layout with growing traffic volumes resulting from the surrounding residential and industrial developments.

There are two significant planned changes to the road network that will likely reduce the frequency and severity of crashes at this location in the near future:

- Closure of Stirling Crescent at Great Eastern Highway Bypass will significantly reduce the volume of traffic using Stirling Crescent as a through route between Kalamunda Road and Great Eastern Highway Bypass. Due to the altered access arrangements, this traffic will likely divert via Kalamunda and Abernethy Roads, with only local traffic using Stirling Crescent.
- Construction of a roundabout at the Stirling Crescent / Adelaide Street intersection. The roundabout intersection will likely eliminate right-angle crashes at this intersection as well as reduce the speed of vehicles through the intersection.

9 CONCLUSIONS

This Transport Impact Assessment has been prepared in accordance with the *WAPC Transport Assessment Guidelines for Developments: Volume 2 – Planning Schemes, Structure Plans and Activity Centre Plans* (2016).

The following conclusions have been made in regard to the proposed Local Structure Plan:

- The proposed LSP is located in a predominantly residential area with industrial lots within High Wycombe in the City of Kalamunda. It is bounded by Kalamunda Road, Stirling Crescent, and Adelaide Street.
- The proposed LSP is estimated to yield 21.57 ha of industrial land and 4.9126 ha of residential lots.
- Public transport is considered to be good since there are several bus stops and routes along the Site's boundaries.
- Access strategy to the proposed LSP areas is summarised as follows:
    - Industrial lots will have at least three (3) access points: one will be via Adelaide Street through Peak Court and for industrial lots fronting Hatch Court. For industrial lots within Lots 200 and 201, one access point is proposed along Stirling Crescent, and another access point is proposed along Kalamunda Road, and
    - An intersection at Stirling Crescent connecting to Wem Mews Road and Acton Link is proposed for access to the residential lots.
- Due to the significant traffic volume, Other Regional Road status and existing residential developments fronting Kalamunda Road adjacent to the LSP site, access directly from the Kalamunda Road frontage is to be limited to a single crossover, proposed to remain as currently located. Similarly with Stirling Crescent, no additional crossovers are to be permitted under the LSP for future developments due to the desire to retain as much "residential amenity" for the Stirling Crescent road environment as practicable.
- Pedestrian and cycle routes are considered to be average since there are discontinuities in the network and some roads do not have dedicated pedestrian paths.
- Analysis of the key intersections on the external road network has been undertaken with the following conclusions:
    - The Abernethy Road / Adelaide Street / Brinsmead Road roundabout is expected to perform satisfactorily on either assessment scenarios considered.
    - The Adelaide Street / Site Access 1 – Peak Court intersection is expected to maintain satisfactory performance in both scenarios with most legs experiencing LOS A.
    - The Adelaide Street / Stirling Crescent roundabout is also expected to operate satisfactorily in both scenarios with a maximum LOS B and DOS <0.85.
    - The Stirling Crescent / Site Access 2 intersection is expected to maintain LOS A and DOS <0.8 even after full development.
    - The Kalamunda Road / Stirling Crescent Intersection is anticipated to operate beyond practical capacity considering the 2041 background traffic volumes only. The intersection's performance will further deteriorate considering the addition of LSP-generated traffic with significant delays and vehicle queueing anticipated particularly at the north leg's (Stirling Crescent) right turning lane. It is noted that the roundabout configuration is considered as a potential mitigation measure only and that the ability to accommodate a roundabout within the existing available road reserve would need to be investigated in detail. Alternatively, movement restrictions at this intersection, such as banning right turns, may be implemented as a more cost-effective option but may result in redistribution of traffic and decline of performance in other intersections within the network.
    - The Kalamunda Road / Site Access 3 intersection will generally operate satisfactorily in both assessment scenarios. However, Scenario 2 reflects a shift to moderately constrained conditions, with impacts concentrated on the eastbound approach and site access; while performance remains acceptable, increased queuing may warrant future monitoring or upgrades.
    - Analysis of the Abernethy Road / Kalamunda Road intersection indicates that the intersection operates under poor conditions in both scenarios, with Scenario 1 showing several movements, particularly on the Abernethy Road south and Kalamunda Road west approaches, operating at LOS F in the PM peak. In Scenario 2, performance is further degraded, with most movements operating at LOS F in both peak periods, indicating widespread oversaturation likely associated with high traffic volumes on Abernethy Road and redistributed traffic. SIDRA analysis show that the considered potential mitigation measure such as lane duplication and signal optimisation will result in significant improvements in the performance of the intersection.



Appendix A

WAPC Checklist





APPENDIX A – WAPC CHECKLIST

Item	Status	Comments/Proposal
Summary		
Introduction/Background	Section 1	
Structure Plan Proposal		
Regional Context	Section 2	
Proposed Land Uses	Section 2	
Table Of Land Uses and Quantities	Section 2	
Major Attractors/Generators	Section 2	
Specific Issues	Section 2	
Existing Situation		
Existing Land Uses within Structure Plan	Section 3	
Existing Land Uses within 800 Metres of Structure Plan Area	Section 3	
Existing Road Network within 2 (or 5) km of Structure Plan Area	Section 3	
Existing Pedestrian/Cycle Networks within Structure Plan Area	Section 3	
Existing Pedestrian/Cycle Networks within 800m of Structure Plan Area	Section 3	
Existing Public Transport Services	Section 3	
Existing Traffic Flows	Section 3	
Existing Restricted Access Vehicle	Section 3	
Proposed Internal Transport Networks		
Connections to External Road Network	Section 4	
Road Reservation Widths and Cross Sections	Section 4	
Intersection Controls	Section 4	
Speed Limits	Section 4	
Pedestrian/Cycle Networks and Crossing Facilities	Section 4	
Public Transport Routes	Section 4	
Changes to External Transport Networks		
Road Network	Section 5	
Pedestrian/Cycle Networks and Crossing Facilities	Section 5	
Public Transport Services	Section 5	
Integration With Surrounding Area		
Trip Attractors/Generators Within 800 Metres	Section 6	

Proposed Changes to Land Uses Within 800 Metres	Section 6	
Travel Desire Lines from Structure Plan to These Attractors/Generators	Section 6	
Adequacy and Deficiencies of External Transport Networks	Section 6	
Analysis of External Transport Networks		
Structure Plan Generated Traffic	Section 7	
Traffic Distribution	Section 7	
Extraneous Traffic	Section 7	
Background Traffic	Section 7	
Daily Traffic Summary	Section 7	
Intersection Performance	Section 7	
Key Intersection Analysis	Section 7	
Sensitivity Analysis	Section 7	
Access Strategy	Section 7	
Restricted Access Vehicle Network	Section 7	
Pedestrian and Cycling Network	Section 7	
Public Transport Access		
Safety Issues	Section 8	
Conclusions	Section 9	

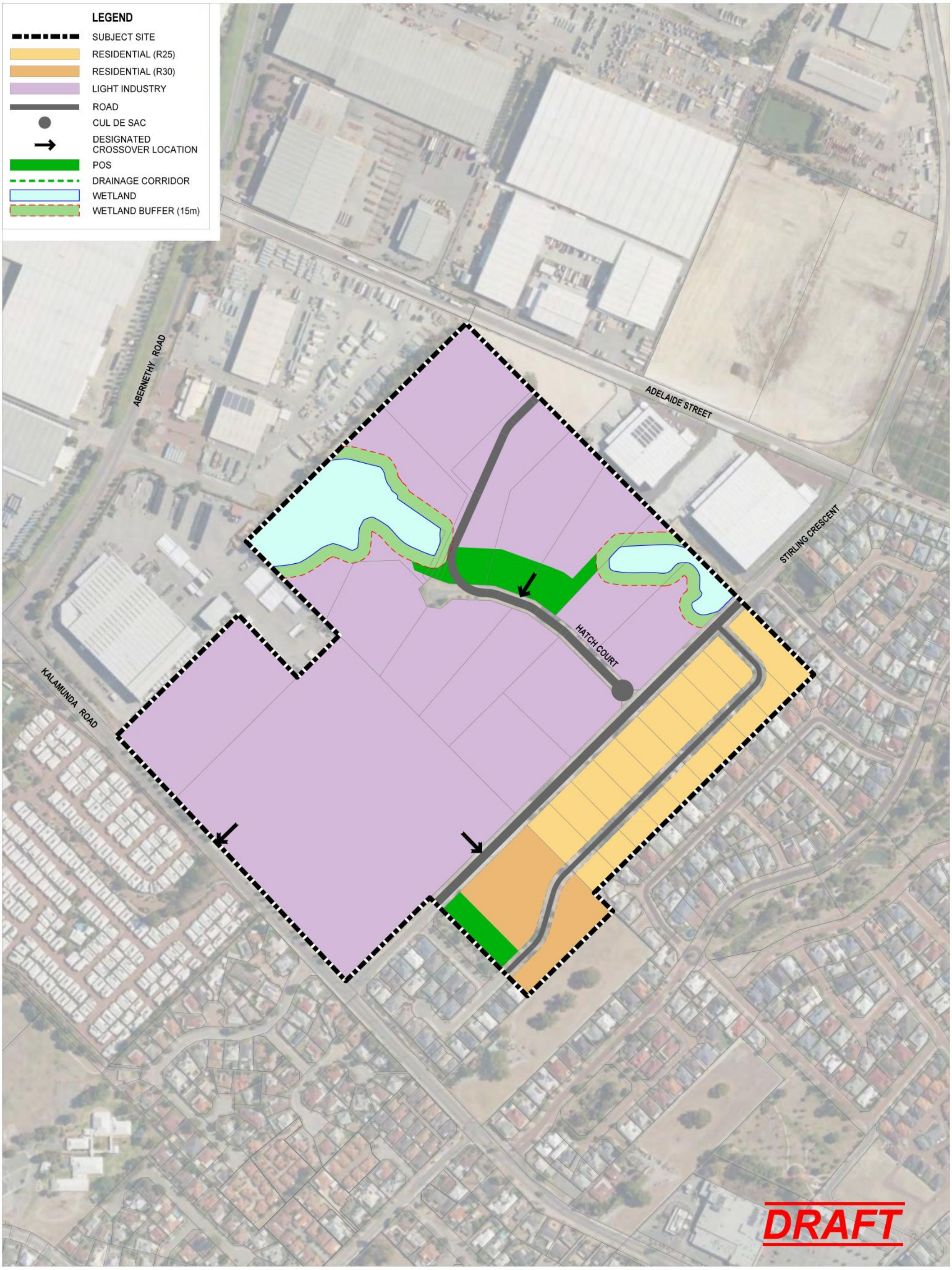


Appendix B

Concept LSP Layout







0 50 100 150 200
metres

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LOCAL STRUCTURE PLAN

CITY OF KALAMUNDA

VARIOUS LOTS - STIRLING CRESCENT / HATCH COURT

SCALE: 1:4,000 @ A3

DATE: 18 June 2026

FILE: 2490-2-001J

DRAW: - BL

CHECKED: -

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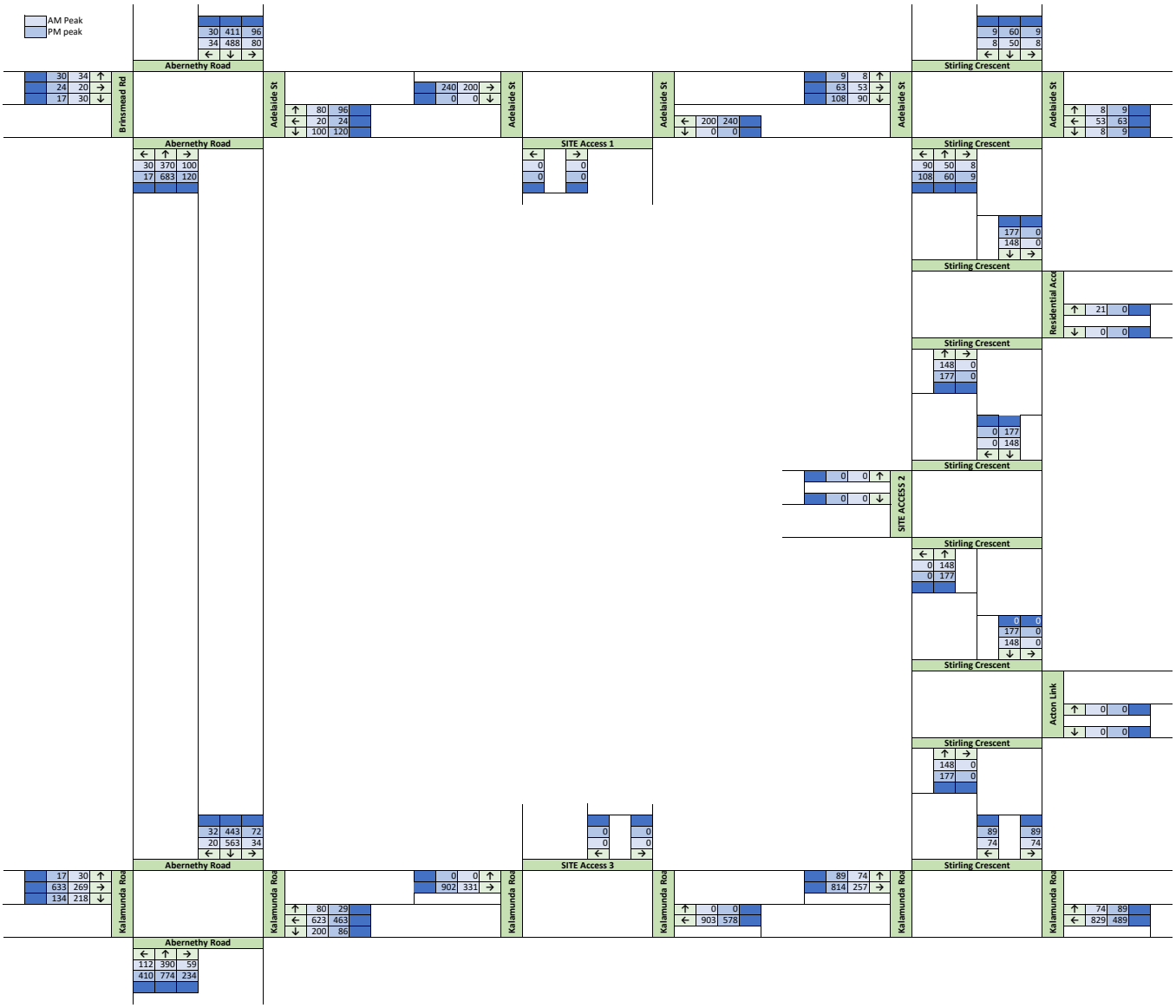


Appendix C

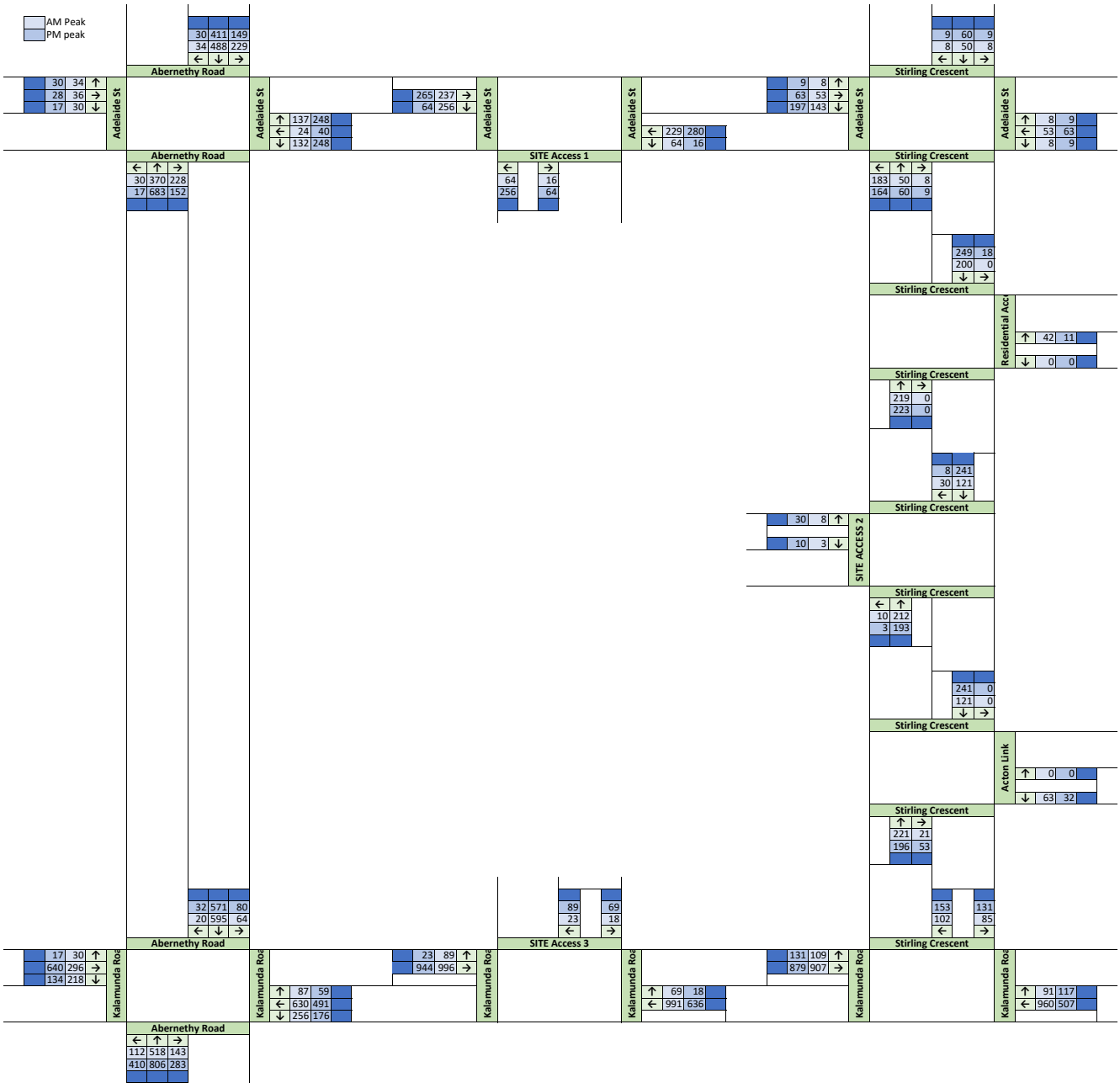
Traffic Volume Diagrams







S1: 2041 BACKGROUND TRAFFIC



S2: 2041 BACKGROUND + DEVELOPMENT TRAFFIC



Appendix D

SIDRA Results





MOVEMENT SUMMARY

Site: [2 (4)] I-1 Adelaide St/Abernethy Rd (S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	32	33.4	32	33.4	0.139	6.0	LOS A	0.7	6.7	0.42	0.50	0.42	46.8
2	T1	All MCs	389	33.4	389	33.4	0.348	5.6	LOS A	2.4	21.3	0.44	0.50	0.44	50.4
3	R2	All MCs	105	33.4	105	33.4	0.348	10.1	LOS B	2.4	21.3	0.44	0.51	0.44	49.2
Approach			526	33.4	526	33.4	0.348	6.6	LOS A	2.4	21.3	0.44	0.50	0.44	49.9
East: Adelaide Road (E)															
4	L2	All MCs	105	33.4	105	33.4	0.156	9.2	LOS A	0.8	7.4	0.68	0.70	0.68	49.3
5	T1	All MCs	21	33.4	21	33.4	0.175	9.1	LOS A	0.9	8.1	0.69	0.76	0.69	40.8
6	R2	All MCs	84	33.4	84	33.4	0.175	13.9	LOS B	0.9	8.1	0.69	0.76	0.69	40.1
Approach			211	33.4	211	33.4	0.175	11.1	LOS B	0.9	8.1	0.69	0.73	0.69	44.8
North: Abernethy Road (N)															
7	L2	All MCs	84	33.4	84	33.4	0.125	6.2	LOS A	0.6	5.6	0.43	0.55	0.43	48.6
8	T1	All MCs	514	33.4	514	33.4	0.453	5.8	LOS A	3.3	29.5	0.49	0.50	0.49	50.5
9	R2	All MCs	36	33.4	36	33.4	0.453	10.4	LOS B	3.3	29.5	0.49	0.50	0.49	42.3
Approach			634	33.4	634	33.4	0.453	6.1	LOS A	3.3	29.5	0.48	0.50	0.48	49.8
West: Brinsmead Road (W)															
10	L2	All MCs	36	42.7	36	42.7	0.151	8.6	LOS A	0.6	5.9	0.59	0.73	0.59	43.8
11	T1	All MCs	21	42.7	21	42.7	0.151	8.4	LOS A	0.6	5.9	0.59	0.73	0.59	45.4
12	R2	All MCs	32	42.7	32	42.7	0.151	13.3	LOS B	0.6	5.9	0.59	0.73	0.59	46.1
Approach			88	42.7	88	42.7	0.151	10.2	LOS B	0.6	5.9	0.59	0.73	0.59	45.1
All Vehicles			1459	34.0	1459	34.0	0.453	7.2	LOS A	3.3	29.5	0.50	0.55	0.50	48.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

MOVEMENT SUMMARY

Site: [2 (5)] I-1 Adelaide St/Abernethy Rd (S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	18	33.4	18	33.4	0.231	6.3	LOS A	1.3	12.0	0.47	0.51	0.47	46.5
2	T1	All MCs	719	33.4	719	33.4	0.576	6.4	LOS A	5.1	46.1	0.57	0.53	0.57	49.9
3	R2	All MCs	126	33.4	126	33.4	0.576	10.7	LOS B	5.1	46.1	0.60	0.53	0.60	48.7
Approach			863	33.4	863	33.4	0.576	7.0	LOS A	5.1	46.1	0.57	0.53	0.57	49.7
East: Adelaide Road (E)															
4	L2	All MCs	126	33.4	126	33.4	0.174	8.5	LOS A	1.0	8.6	0.66	0.67	0.66	49.6
5	T1	All MCs	25	33.4	25	33.4	0.192	8.5	LOS A	1.0	9.3	0.67	0.72	0.67	41.2
6	R2	All MCs	101	33.4	101	33.4	0.192	13.4	LOS B	1.0	9.3	0.67	0.72	0.67	40.4
Approach			253	33.4	253	33.4	0.192	10.5	LOS B	1.0	9.3	0.66	0.70	0.66	45.2
North: Abernethy Road (N)															
7	L2	All MCs	101	33.4	101	33.4	0.137	6.3	LOS A	0.7	6.4	0.45	0.56	0.45	48.5
8	T1	All MCs	433	33.4	433	33.4	0.400	5.8	LOS A	2.8	25.2	0.50	0.50	0.50	50.4
9	R2	All MCs	32	33.4	32	33.4	0.400	10.4	LOS B	2.8	25.2	0.50	0.50	0.50	42.3
Approach			565	33.4	565	33.4	0.400	6.2	LOS A	2.8	25.2	0.49	0.51	0.49	49.7
West: Brinsmead Road (W)															
10	L2	All MCs	32	42.7	32	42.7	0.178	12.4	LOS B	0.8	7.4	0.73	0.83	0.73	41.8
11	T1	All MCs	25	42.7	25	42.7	0.178	11.2	LOS B	0.8	7.4	0.73	0.83	0.73	43.4
12	R2	All MCs	18	42.7	18	42.7	0.178	16.1	LOS B	0.8	7.4	0.73	0.83	0.73	44.4
Approach			75	42.7	75	42.7	0.178	12.9	LOS B	0.8	7.4	0.73	0.83	0.73	43.1
All Vehicles			1756	33.8	1756	33.8	0.576	7.5	LOS A	5.1	46.1	0.56	0.56	0.56	48.8

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

MOVEMENT SUMMARY

Site: [3102 (9)] I-2_Adelaide St/Site Access 1 - Peak Court

(S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Stop (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Site Access 1 (S) - Peak Court															
30	L2	All MCs	1	10.0	1	10.0	0.001	6.5	LOS A	0.0	0.0	0.32	0.52	0.32	47.5
32	R2	All MCs	1	10.0	1	10.0	0.001	7.8	LOS A	0.0	0.0	0.43	0.58	0.43	46.8
Approach			2	10.0	2	10.0	0.001	7.2	LOS A	0.0	0.0	0.37	0.55	0.37	47.1
East: Adelaide Street (E)															
21	L2	All MCs	1	10.0	1	10.0	0.143	4.7	LOS A	0.0	0.0	0.00	0.00	0.00	47.9
22	T1	All MCs	211	33.4	211	33.4	0.143	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	49.9
Approach			212	33.3	212	33.3	0.143	0.1	NA	0.0	0.0	0.00	0.00	0.00	49.9
West: Adelaide Street (W)															
28	T1	All MCs	211	33.4	211	33.4	0.143	0.0	LOS A	0.0	0.1	0.00	0.00	0.00	50.0
29	R2	All MCs	1	10.0	1	10.0	0.143	4.8	LOS A	0.0	0.1	0.00	0.00	0.00	49.3
Approach			212	33.3	212	33.3	0.143	0.0	NA	0.0	0.1	0.00	0.00	0.00	49.9
All Vehicles			425	33.2	425	33.2	0.143	0.1	NA	0.0	0.1	0.00	0.01	0.00	49.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3102 (10)] I-2_Adelaide St/Site Access 1 - Peak Court

(S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Stop (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Site Access 1 (S) - Peak Court															
30	L2	All MCs	1	10.0	1	10.0	0.001	6.7	LOS A	0.0	0.0	0.35	0.52	0.35	47.4
32	R2	All MCs	1	10.0	1	10.0	0.002	8.5	LOS A	0.0	0.0	0.47	0.60	0.47	46.3
Approach			2	10.0	2	10.0	0.002	7.6	LOS A	0.0	0.0	0.41	0.56	0.41	46.9
East: Adelaide Street (E)															
21	L2	All MCs	1	10.0	1	10.0	0.172	4.7	LOS A	0.0	0.0	0.00	0.00	0.00	47.9
22	T1	All MCs	253	33.4	253	33.4	0.172	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	49.9
Approach			254	33.3	254	33.3	0.172	0.1	NA	0.0	0.0	0.00	0.00	0.00	49.9
West: Adelaide Street (W)															
28	T1	All MCs	253	33.4	253	33.4	0.172	0.0	LOS A	0.0	0.1	0.00	0.00	0.00	50.0
29	R2	All MCs	1	10.0	1	10.0	0.172	4.8	LOS A	0.0	0.1	0.00	0.00	0.00	49.3
Approach			254	33.3	254	33.3	0.172	0.0	NA	0.0	0.1	0.00	0.00	0.00	50.0
All Vehicles			509	33.2	509	33.2	0.172	0.1	NA	0.0	0.1	0.00	0.00	0.00	49.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3 (4)] I-3_Stirling Crescent/Adelaide Street (S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
1	L2	All MCs	95	13.3	95	13.3	0.129	4.5	LOS A	0.8	5.9	0.28	0.46	0.28	51.0
2	T1	All MCs	53	13.3	53	13.3	0.129	4.7	LOS A	0.8	5.9	0.28	0.46	0.28	52.8
3	R2	All MCs	8	13.3	8	13.3	0.129	9.4	LOS A	0.8	5.9	0.28	0.46	0.28	50.1
Approach			156	13.3	156	13.3	0.129	4.8	LOS A	0.8	5.9	0.28	0.46	0.28	51.6
East: Adelaide Street (E)															
4	L2	All MCs	8	33.4	8	33.4	0.075	5.5	LOS A	0.4	3.6	0.39	0.49	0.39	49.2
5	T1	All MCs	56	33.4	56	33.4	0.075	5.6	LOS A	0.4	3.6	0.39	0.49	0.39	49.9
6	R2	All MCs	8	33.4	8	33.4	0.075	10.4	LOS B	0.4	3.6	0.39	0.49	0.39	49.8
Approach			73	33.4	73	33.4	0.075	6.2	LOS A	0.4	3.6	0.39	0.49	0.39	49.8
North: Stirling Crescent (N)															
7	L2	All MCs	8	13.3	8	13.3	0.065	5.1	LOS A	0.4	2.7	0.39	0.49	0.39	51.4
8	T1	All MCs	53	13.3	53	13.3	0.065	5.3	LOS A	0.4	2.7	0.39	0.49	0.39	51.9
9	R2	All MCs	8	13.3	8	13.3	0.065	10.0	LOS A	0.4	2.7	0.39	0.49	0.39	50.7
Approach			69	13.3	69	13.3	0.065	5.8	LOS A	0.4	2.7	0.39	0.49	0.39	51.7
West: Adelaide Street (W)															
10	L2	All MCs	8	33.4	8	33.4	0.141	4.7	LOS A	0.8	7.4	0.27	0.53	0.27	49.8
11	T1	All MCs	56	33.4	56	33.4	0.141	4.9	LOS A	0.8	7.4	0.27	0.53	0.27	48.8
12	R2	All MCs	95	33.4	95	33.4	0.141	9.6	LOS A	0.8	7.4	0.27	0.53	0.27	47.2
Approach			159	33.4	159	33.4	0.141	7.7	LOS A	0.8	7.4	0.27	0.53	0.27	47.9
All Vehicles			457	23.5	457	23.5	0.141	6.2	LOS A	0.8	7.4	0.31	0.49	0.31	50.0

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3 (5)] I-3_Stirling Crescent/Adelaide Street (S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV %]	Arrival Flows [Total veh/h	HV %]	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist m]	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
1	L2	All MCs	114	13.3	114	13.3	0.156	4.6	LOS A	0.9	7.4	0.31	0.46	0.31	50.8
2	T1	All MCs	63	13.3	63	13.3	0.156	4.8	LOS A	0.9	7.4	0.31	0.46	0.31	52.7
3	R2	All MCs	9	13.3	9	13.3	0.156	9.5	LOS A	0.9	7.4	0.31	0.46	0.31	50.0
Approach			186	13.3	186	13.3	0.156	4.9	LOS A	0.9	7.4	0.31	0.46	0.31	51.5
East: Adelaide Street (E)															
4	L2	All MCs	9	33.4	9	33.4	0.092	5.8	LOS A	0.5	4.4	0.43	0.51	0.43	49.0
5	T1	All MCs	66	33.4	66	33.4	0.092	5.9	LOS A	0.5	4.4	0.43	0.51	0.43	49.7
6	R2	All MCs	9	33.4	9	33.4	0.092	10.7	LOS B	0.5	4.4	0.43	0.51	0.43	49.7
Approach			85	33.4	85	33.4	0.092	6.4	LOS A	0.5	4.4	0.43	0.51	0.43	49.6
North: Stirling Crescent (N)															
7	L2	All MCs	9	13.3	9	13.3	0.080	5.3	LOS A	0.4	3.4	0.43	0.51	0.43	51.2
8	T1	All MCs	63	13.3	63	13.3	0.080	5.5	LOS A	0.4	3.4	0.43	0.51	0.43	51.7
9	R2	All MCs	9	13.3	9	13.3	0.080	10.2	LOS B	0.4	3.4	0.43	0.51	0.43	50.5
Approach			82	13.3	82	13.3	0.080	6.1	LOS A	0.4	3.4	0.43	0.51	0.43	51.5
West: Adelaide Street (W)															
10	L2	All MCs	9	33.4	9	33.4	0.171	4.9	LOS A	1.0	9.2	0.30	0.53	0.30	49.7
11	T1	All MCs	66	33.4	66	33.4	0.171	5.0	LOS A	1.0	9.2	0.30	0.53	0.30	48.7
12	R2	All MCs	114	33.4	114	33.4	0.171	9.8	LOS A	1.0	9.2	0.30	0.53	0.30	47.0
Approach			189	33.4	189	33.4	0.171	7.8	LOS A	1.0	9.2	0.30	0.53	0.30	47.7
All Vehicles			543	23.5	543	23.5	0.171	6.4	LOS A	1.0	9.2	0.34	0.50	0.34	49.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [2105 (8)] I-4_Stirling Crescent/Site Access 2 (S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
21	L2	All MCs	1	10.0	1	10.0	0.090	5.7	LOS A	0.0	0.0	0.00	0.00	0.00	53.8
22	T1	All MCs	156	13.3	156	13.3	0.090	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Approach			157	13.3	157	13.3	0.090	0.1	NA	0.0	0.0	0.00	0.00	0.00	59.9
North: Stirling Crescent (N)															
28	T1	All MCs	156	13.3	156	13.3	0.090	0.0	LOS A	0.0	0.1	0.00	0.00	0.00	59.9
29	R2	All MCs	1	10.0	1	10.0	0.090	5.7	LOS A	0.0	0.1	0.00	0.00	0.00	50.9
Approach			157	13.3	157	13.3	0.090	0.0	NA	0.0	0.1	0.00	0.00	0.00	59.9
West: Site Access 2 (W)															
30	L2	All MCs	1	10.0	1	10.0	0.002	5.2	LOS A	0.0	0.1	0.30	0.51	0.30	44.9
32	R2	All MCs	1	10.0	1	10.0	0.002	6.0	LOS A	0.0	0.1	0.30	0.51	0.30	45.4
Approach			2	10.0	2	10.0	0.002	5.6	LOS A	0.0	0.1	0.30	0.51	0.30	45.1
All Vehicles			316	13.3	316	13.3	0.090	0.1	NA	0.0	0.1	0.00	0.01	0.00	59.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [2105 (9)] I-4_Stirling Crescent/Site Access 2 (S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
21	L2	All MCs	1	10.0	1	10.0	0.108	5.7	LOS A	0.0	0.0	0.00	0.00	0.00	53.8
22	T1	All MCs	186	13.3	186	13.3	0.108	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Approach			187	13.3	187	13.3	0.108	0.1	NA	0.0	0.0	0.00	0.00	0.00	59.9
North: Stirling Crescent (N)															
28	T1	All MCs	186	13.3	186	13.3	0.108	0.0	LOS A	0.0	0.1	0.00	0.00	0.00	59.9
29	R2	All MCs	1	10.0	1	10.0	0.108	5.7	LOS A	0.0	0.1	0.00	0.00	0.00	50.9
Approach			187	13.3	187	13.3	0.108	0.0	NA	0.0	0.1	0.00	0.00	0.00	59.9
West: Site Access 2 (W)															
30	L2	All MCs	1	10.0	1	10.0	0.002	5.3	LOS A	0.0	0.1	0.33	0.51	0.33	44.8
32	R2	All MCs	1	10.0	1	10.0	0.002	6.3	LOS A	0.0	0.1	0.33	0.51	0.33	45.3
Approach			2	10.0	2	10.0	0.002	5.8	LOS A	0.0	0.1	0.33	0.51	0.33	45.1
All Vehicles			377	13.3	377	13.3	0.108	0.1	NA	0.0	0.1	0.00	0.01	0.00	59.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3103 (12)] I-5_Stirling Crescent/Kalamunda Road (S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	873	7.6	873	7.6	0.489	0.5	LOS A	0.0	0.0	0.00	0.00	0.00	59.6
29	R2	All MCs	78	7.6	78	7.6	0.065	7.1	LOS A	0.3	2.2	0.43	0.62	0.43	49.2
Approach			951	7.6	951	7.6	0.489	1.1	NA	0.3	2.2	0.04	0.05	0.04	58.2
North: Stirling Crescent (N)															
30	L2	All MCs	78	13.3	78	13.3	0.067	6.9	LOS A	0.3	2.2	0.36	0.60	0.36	47.7
32	R2	All MCs	78	13.3	78	13.3	0.760	71.4	LOS F	2.8	23.4	0.97	1.20	1.78	20.0
Approach			156	13.3	156	13.3	0.760	39.1	LOS E	2.8	23.4	0.67	0.90	1.07	30.9
West: Kalamunda Road (W)															
21	L2	All MCs	78	7.6	78	7.6	0.179	5.7	LOS A	0.0	0.0	0.00	0.13	0.00	50.9
22	T1	All MCs	271	7.6	271	7.6	0.179	0.0	LOS A	0.0	0.0	0.00	0.13	0.00	58.1
Approach			348	7.6	348	7.6	0.179	1.3	NA	0.0	0.0	0.00	0.13	0.00	56.4
All Vehicles			1455	8.2	1455	8.2	0.760	5.2	NA	2.8	23.4	0.09	0.16	0.14	52.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3103 (18)] I-5_Stirling Crescent/Kalamunda Road (S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	515	7.6	515	7.6	0.289	0.2	LOS A	0.0	0.0	0.00	0.00	0.00	59.8
29	R2	All MCs	94	7.6	94	7.6	0.224	14.8	LOS B	0.8	6.4	0.79	0.93	0.85	44.6
Approach			608	7.6	608	7.6	0.289	2.5	NA	0.8	6.4	0.12	0.14	0.13	55.8
North: Stirling Crescent (N)															
30	L2	All MCs	94	13.3	94	13.3	0.209	16.5	LOS C	0.7	5.9	0.74	0.90	0.78	44.0
32	R2	All MCs	94	13.3	94	13.3	1.771	791.0	LOS F	27.9	233.1	1.00	2.92	8.79	4.5
Approach			187	13.3	187	13.3	1.771	403.7	LOS F	27.9	233.1	0.87	1.91	4.79	9.8
West: Kalamunda Road (W)															
21	L2	All MCs	94	7.6	94	7.6	0.485	5.7	LOS A	0.0	0.0	0.00	0.06	0.00	51.5
22	T1	All MCs	857	7.6	857	7.6	0.485	0.1	LOS A	0.0	0.0	0.00	0.06	0.00	58.8
Approach			951	7.6	951	7.6	0.485	0.6	NA	0.0	0.0	0.00	0.06	0.00	58.1
All Vehicles			1746	8.2	1746	8.2	1.771	44.5	NA	27.9	233.1	0.14	0.29	0.56	35.8

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3104 (8)] I-6_Kalamunda Road/Site Access 3 (S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	951	7.6	951	7.6	0.520	0.0	LOS A	0.0	0.1	0.00	0.00	0.00	60.0
29	R2	All MCs	1	10.0	1	10.0	0.520	5.7	LOS A	0.0	0.1	0.00	0.00	0.00	46.3
Approach			952	7.6	952	7.6	0.520	0.0	NA	0.0	0.1	0.00	0.00	0.00	60.0
North: Site Access 3 (N)															
30	L2	All MCs	1	10.0	1	10.0	0.003	6.0	LOS A	0.0	0.1	0.49	0.58	0.49	38.4
32	R2	All MCs	1	10.0	1	10.0	0.003	9.5	LOS A	0.0	0.1	0.49	0.58	0.49	42.0
Approach			2	10.0	2	10.0	0.003	7.7	LOS A	0.0	0.1	0.49	0.58	0.49	40.5
West: Kalamunda Road (W)															
21	L2	All MCs	1	10.0	1	10.0	0.191	5.7	LOS A	0.0	0.0	0.00	0.00	0.00	53.4
22	T1	All MCs	348	7.6	348	7.6	0.191	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Approach			349	7.6	349	7.6	0.191	0.1	NA	0.0	0.0	0.00	0.00	0.00	59.8
All Vehicles			1303	7.6	1303	7.6	0.520	0.0	NA	0.0	0.1	0.00	0.00	0.00	59.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3104 (9)] I-6_Kalamunda Road/Site Access 3 (S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	608	7.6	608	7.6	0.334	0.0	LOS A	0.0	0.2	0.00	0.00	0.00	59.9
29	R2	All MCs	1	10.0	1	10.0	0.334	7.0	LOS A	0.0	0.2	0.00	0.00	0.00	46.2
Approach			609	7.6	609	7.6	0.334	0.0	NA	0.0	0.2	0.00	0.00	0.00	59.9
North: Site Access 3 (N)															
30	L2	All MCs	1	10.0	1	10.0	0.006	12.7	LOS B	0.0	0.1	0.74	0.81	0.74	34.6
32	R2	All MCs	1	10.0	1	10.0	0.006	12.0	LOS B	0.0	0.1	0.74	0.81	0.74	39.0
Approach			2	10.0	2	10.0	0.006	12.3	LOS B	0.0	0.1	0.74	0.81	0.74	37.1
West: Kalamunda Road (W)															
21	L2	All MCs	1	10.0	1	10.0	0.519	5.8	LOS A	0.0	0.0	0.00	0.00	0.00	53.2
22	T1	All MCs	949	7.6	949	7.6	0.519	0.2	LOS A	0.0	0.0	0.00	0.00	0.00	59.5
Approach			951	7.6	951	7.6	0.519	0.2	NA	0.0	0.0	0.00	0.00	0.00	59.5
All Vehicles			1562	7.6	1562	7.6	0.519	0.1	NA	0.0	0.2	0.00	0.00	0.00	59.6

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [1 (3)] I-7_Kalamunda Road/Abernethy Road (S1: BG 2041 - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 122.0 seconds (Site User-Given Cycle Time)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	118	33.4	118	33.4	0.711	38.4	LOS D	15.1	136.1	0.97	0.86	1.01	31.8
2	T1	All MCs	411	33.4	411	33.4	0.711	52.5	LOS D	15.1	136.1	0.98	0.86	1.01	33.3
3	R2	All MCs	62	33.4	62	33.4	* 0.811	77.3	LOS E	4.2	37.4	1.00	0.91	1.34	24.4
Approach			591	33.4	591	33.4	0.811	52.3	LOS D	15.1	136.1	0.98	0.86	1.04	31.9
East: Kalamunda Road (E)															
4	L2	All MCs	211	7.6	211	7.6	0.489	31.3	LOS C	15.5	115.4	0.80	0.77	0.80	36.2
5	T1	All MCs	656	7.6	656	7.6	* 0.811	52.9	LOS D	29.2	218.0	0.93	0.88	0.98	35.2
6	R2	All MCs	84	7.6	84	7.6	0.298	71.8	LOS E	4.5	33.6	0.92	0.77	0.92	29.4
Approach			951	7.6	951	7.6	0.811	49.8	LOS D	29.2	218.0	0.90	0.84	0.94	31.4
North: Abernethy Road (N)															
7	L2	All MCs	36	33.4	36	33.4	0.035	7.1	LOS A	0.3	2.3	0.16	0.72	0.16	45.1
8	T1	All MCs	593	33.4	593	33.4	* 0.811	53.9	LOS D	18.2	163.6	1.00	0.96	1.13	31.9
9	R2	All MCs	21	33.4	21	33.4	0.275	70.9	LOS E	1.3	11.7	0.99	0.71	0.99	27.1
Approach			649	33.4	649	33.4	0.811	51.9	LOS D	18.2	163.6	0.95	0.94	1.07	32.2
West: Kalamunda Road (W)															
10	L2	All MCs	32	7.6	32	7.6	0.180	26.5	LOS C	4.9	36.6	0.71	0.62	0.71	39.6
11	T1	All MCs	283	7.6	283	7.6	0.275	29.1	LOS C	7.9	58.8	0.73	0.62	0.73	39.5
12	R2	All MCs	229	7.6	229	7.6	* 0.811	64.9	LOS E	14.3	106.9	1.00	0.92	1.16	28.5
Approach			544	7.6	544	7.6	0.811	44.1	LOS D	14.3	106.9	0.84	0.75	0.91	33.8
All Vehicles			2735	19.3	2735	19.3	0.811	49.7	LOS D	29.2	218.0	0.92	0.85	0.99	32.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

* Critical Movement (Signal Timing)

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MOVEMENT SUMMARY

Site: [1 (6)] I-7_Kalamunda Road/Abernethy Road (S1: BG 2041 - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 111.0 seconds (Site User-Given Cycle Time)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	432	33.4	432	33.4	* 1.130	174.5	LOS F	70.5	635.2	1.00	1.60	2.15	15.6
2	T1	All MCs	815	33.4	815	33.4	1.130	186.5	LOS F	70.5	635.2	1.00	1.81	2.17	16.0
3	R2	All MCs	246	33.4	246	33.4	* 1.132	203.2	LOS F	25.9	233.2	1.00	1.46	2.29	13.8
Approach			1493	33.4	1493	33.4	1.132	185.8	LOS F	70.5	635.2	1.00	1.69	2.18	15.1
East: Kalamunda Road (E)															
4	L2	All MCs	91	7.6	91	7.6	0.576	34.4	LOS C	11.1	82.8	0.95	0.80	0.95	32.1
5	T1	All MCs	487	7.6	487	7.6	0.956	75.6	LOS E	24.6	183.4	0.99	1.09	1.31	27.6
6	R2	All MCs	31	7.6	31	7.6	0.245	72.0	LOS E	1.7	12.3	0.98	0.72	0.98	28.0
Approach			608	7.6	608	7.6	0.956	69.3	LOS E	24.6	183.4	0.98	1.03	1.24	26.6
North: Abernethy Road (N)															
7	L2	All MCs	76	33.4	76	33.4	0.101	13.2	LOS B	1.3	11.6	0.53	1.27	0.53	28.1
8	T1	All MCs	466	33.4	466	33.4	0.421	30.3	LOS C	9.7	87.7	0.82	0.69	0.82	40.2
9	R2	All MCs	34	33.4	34	33.4	0.155	52.3	LOS D	1.6	14.8	0.91	0.73	0.91	31.5
Approach			576	33.4	576	33.4	0.421	29.3	LOS C	9.7	87.7	0.78	0.77	0.78	37.6
West: Kalamunda Road (W)															
10	L2	All MCs	18	7.6	18	7.6	0.739	33.0	LOS C	14.9	110.8	1.00	0.88	1.06	32.9
11	T1	All MCs	666	7.6	666	7.6	* 1.132	137.3	LOS F	42.4	316.1	1.00	1.38	1.76	18.6
12	R2	All MCs	141	7.6	141	7.6	1.131	204.6	LOS F	14.6	108.8	1.00	1.39	2.34	15.0
Approach			825	7.6	825	7.6	1.132	146.5	LOS F	42.4	316.1	1.00	1.37	1.85	17.3
All Vehicles			3502	22.8	3502	22.8	1.132	130.6	LOS F	70.5	635.2	0.96	1.35	1.71	18.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

* Critical Movement (Signal Timing)

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MOVEMENT SUMMARY

Site: [2 (2)] I-1 Adelaide St/Abernethy Rd (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	32	33.4	32	33.4	0.045	6.5	LOS A	0.2	2.0	0.47	0.58	0.47	46.8
2	T1	All MCs	389	33.4	389	33.4	0.566	6.4	LOS A	4.9	43.9	0.66	0.59	0.66	49.0
3	R2	All MCs	240	33.4	240	33.4	0.566	11.1	LOS B	4.9	43.9	0.66	0.59	0.66	48.1
Approach			661	33.4	661	33.4	0.566	8.1	LOS A	4.9	43.9	0.65	0.59	0.65	48.6
East: Adelaide Road (E)															
4	L2	All MCs	139	33.4	139	33.4	0.263	10.9	LOS B	1.5	13.8	0.78	0.75	0.78	48.1
5	T1	All MCs	25	33.4	25	33.4	0.275	9.3	LOS A	1.7	15.3	0.78	0.76	0.78	40.5
6	R2	All MCs	144	33.4	144	33.4	0.275	14.5	LOS B	1.7	15.3	0.78	0.76	0.78	39.8
Approach			308	33.4	308	33.4	0.275	12.4	LOS B	1.7	15.3	0.78	0.75	0.78	43.7
North: Abernethy Road (N)															
7	L2	All MCs	241	33.4	241	33.4	0.329	7.9	LOS A	2.0	17.6	0.64	0.65	0.64	47.0
8	T1	All MCs	514	33.4	514	33.4	0.555	7.8	LOS A	4.7	42.3	0.73	0.65	0.78	48.9
9	R2	All MCs	36	33.4	36	33.4	0.555	12.5	LOS B	4.7	42.3	0.73	0.65	0.78	40.8
Approach			791	33.4	791	33.4	0.555	8.1	LOS A	4.7	42.3	0.70	0.65	0.74	48.1
West: Brinsmead Road (W)															
10	L2	All MCs	36	42.7	36	42.7	0.259	12.5	LOS B	1.4	13.3	0.80	0.81	0.80	40.5
11	T1	All MCs	38	42.7	38	42.7	0.259	12.6	LOS B	1.4	13.3	0.80	0.81	0.80	42.1
12	R2	All MCs	32	42.7	32	42.7	0.259	17.5	LOS B	1.4	13.3	0.80	0.81	0.80	43.3
Approach			105	42.7	105	42.7	0.259	14.0	LOS B	1.4	13.3	0.80	0.81	0.80	42.0
All Vehicles			1865	33.9	1865	33.9	0.566	9.1	LOS A	4.9	43.9	0.70	0.65	0.72	47.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [2 (3)] I-1 Adelaide St/Abernethy Rd (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	18	33.4	18	33.4	0.302	8.8	LOS A	1.7	15.7	0.67	0.65	0.67	45.3
2	T1	All MCs	719	33.4	719	33.4	0.753	11.6	LOS B	10.3	92.7	0.87	0.81	1.08	46.4
3	R2	All MCs	160	33.4	160	33.4	0.753	16.3	LOS B	10.3	92.7	0.93	0.85	1.20	44.9
Approach			897	33.4	897	33.4	0.753	12.4	LOS B	10.3	92.7	0.88	0.81	1.09	46.1
East: Adelaide Road (E)															
4	L2	All MCs	261	33.4	261	33.4	0.414	10.3	LOS B	2.6	23.8	0.77	0.74	0.81	48.3
5	T1	All MCs	42	33.4	42	33.4	0.424	9.0	LOS A	2.8	25.4	0.77	0.75	0.80	40.7
6	R2	All MCs	261	33.4	261	33.4	0.424	13.9	LOS B	2.8	25.4	0.77	0.75	0.80	39.9
Approach			564	33.4	564	33.4	0.424	11.9	LOS B	2.8	25.4	0.77	0.75	0.80	43.9
North: Abernethy Road (N)															
7	L2	All MCs	157	33.4	157	33.4	0.207	6.8	LOS A	1.2	10.5	0.52	0.59	0.52	48.1
8	T1	All MCs	433	33.4	433	33.4	0.426	6.2	LOS A	3.2	28.5	0.58	0.53	0.58	50.0
9	R2	All MCs	32	33.4	32	33.4	0.426	10.8	LOS B	3.2	28.5	0.58	0.53	0.58	41.9
Approach			621	33.4	621	33.4	0.426	6.6	LOS A	3.2	28.5	0.57	0.55	0.57	49.2
West: Brinsmead Road (W)															
10	L2	All MCs	32	42.7	32	42.7	0.257	16.2	LOS B	1.2	11.8	0.83	0.89	0.83	39.5
11	T1	All MCs	29	42.7	29	42.7	0.257	14.1	LOS B	1.2	11.8	0.83	0.89	0.83	41.2
12	R2	All MCs	18	42.7	18	42.7	0.257	19.1	LOS B	1.2	11.8	0.83	0.89	0.83	42.5
Approach			79	42.7	79	42.7	0.257	16.1	LOS B	1.2	11.8	0.83	0.89	0.83	40.9
All Vehicles			2161	33.7	2161	33.7	0.753	10.7	LOS B	10.3	92.7	0.76	0.72	0.86	46.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3102 (7)] I-2_Adelaide St/Site Access 1 - Peak Court

(S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Stop (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Site Access 1 (S) - Peak Court															
30	L2	All MCs	67	10.0	67	10.0	0.057	6.7	LOS A	0.2	1.8	0.36	0.59	0.36	47.4
32	R2	All MCs	17	10.0	17	10.0	0.040	12.0	LOS B	0.1	0.9	0.65	0.85	0.65	44.0
Approach			84	10.0	84	10.0	0.057	7.8	LOS A	0.2	1.8	0.42	0.65	0.42	46.7
East: Adelaide Street (E)															
21	L2	All MCs	67	10.0	67	10.0	0.203	5.3	LOS A	0.0	0.0	0.00	0.12	0.00	47.0
22	T1	All MCs	241	33.4	241	33.4	0.203	0.1	LOS A	0.0	0.0	0.00	0.12	0.00	48.7
Approach			308	28.3	308	28.3	0.203	1.2	NA	0.0	0.0	0.00	0.12	0.00	48.3
West: Adelaide Street (W)															
28	T1	All MCs	249	33.4	249	33.4	0.384	1.6	LOS A	2.3	20.5	0.46	0.53	0.50	45.8
29	R2	All MCs	269	10.0	269	10.0	0.384	6.8	LOS A	2.3	20.5	0.46	0.53	0.50	45.9
Approach			519	21.2	519	21.2	0.384	4.3	NA	2.3	20.5	0.46	0.53	0.50	45.9
All Vehicles			912	22.6	912	22.6	0.384	3.6	NA	2.3	20.5	0.30	0.40	0.32	46.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3102 (8)] I-2_Adelaide St/Site Access 1 - Peak Court

(S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Stop (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Site Access 1 (S) - Peak Court															
30	L2	All MCs	269	10.0	269	10.0	0.244	7.3	LOS A	1.1	8.7	0.45	0.66	0.45	47.1
32	R2	All MCs	67	10.0	67	10.0	0.125	10.4	LOS B	0.4	3.2	0.58	0.82	0.58	45.0
Approach			337	10.0	337	10.0	0.244	8.0	LOS A	1.1	8.7	0.48	0.69	0.48	46.7
East: Adelaide Street (E)															
21	L2	All MCs	17	10.0	17	10.0	0.209	4.8	LOS A	0.0	0.0	0.00	0.03	0.00	47.6
22	T1	All MCs	295	33.4	295	33.4	0.209	0.1	LOS A	0.0	0.0	0.00	0.03	0.00	49.6
Approach			312	32.1	312	32.1	0.209	0.3	NA	0.0	0.0	0.00	0.03	0.00	49.4
West: Adelaide Street (W)															
28	T1	All MCs	279	33.4	279	33.4	0.241	0.5	LOS A	0.6	5.7	0.20	0.24	0.20	48.1
29	R2	All MCs	67	10.0	67	10.0	0.241	6.4	LOS A	0.6	5.7	0.20	0.24	0.20	47.8
Approach			346	28.8	346	28.8	0.241	1.7	NA	0.6	5.7	0.20	0.24	0.20	48.1
All Vehicles			995	23.5	995	23.5	0.244	3.4	NA	1.1	8.7	0.23	0.33	0.23	47.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3 (2)] I-3_Stirling Crescent/Adelaide Street (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
1	L2	All MCs	193	13.3	193	13.3	0.204	4.5	LOS A	1.3	10.3	0.30	0.46	0.30	51.0
2	T1	All MCs	53	13.3	53	13.3	0.204	4.7	LOS A	1.3	10.3	0.30	0.46	0.30	52.9
3	R2	All MCs	8	13.3	8	13.3	0.204	9.4	LOS A	1.3	10.3	0.30	0.46	0.30	50.2
Approach			254	13.3	254	13.3	0.204	4.7	LOS A	1.3	10.3	0.30	0.46	0.30	51.4
East: Adelaide Street (E)															
4	L2	All MCs	8	33.4	8	33.4	0.081	6.0	LOS A	0.4	3.8	0.46	0.53	0.46	48.8
5	T1	All MCs	56	33.4	56	33.4	0.081	6.1	LOS A	0.4	3.8	0.46	0.53	0.46	49.5
6	R2	All MCs	8	33.4	8	33.4	0.081	10.9	LOS B	0.4	3.8	0.46	0.53	0.46	49.5
Approach			73	33.4	73	33.4	0.081	6.7	LOS A	0.4	3.8	0.46	0.53	0.46	49.4
North: Stirling Crescent (N)															
7	L2	All MCs	8	13.3	8	13.3	0.070	5.5	LOS A	0.4	2.9	0.45	0.52	0.45	51.1
8	T1	All MCs	53	13.3	53	13.3	0.070	5.7	LOS A	0.4	2.9	0.45	0.52	0.45	51.6
9	R2	All MCs	8	13.3	8	13.3	0.070	10.4	LOS B	0.4	2.9	0.45	0.52	0.45	50.4
Approach			69	13.3	69	13.3	0.070	6.3	LOS A	0.4	2.9	0.45	0.52	0.45	51.4
West: Adelaide Street (W)															
10	L2	All MCs	8	33.4	8	33.4	0.188	4.7	LOS A	1.1	10.3	0.28	0.55	0.28	49.4
11	T1	All MCs	56	33.4	56	33.4	0.188	4.9	LOS A	1.1	10.3	0.28	0.55	0.28	48.4
12	R2	All MCs	151	33.4	151	33.4	0.188	9.6	LOS A	1.1	10.3	0.28	0.55	0.28	46.8
Approach			215	33.4	215	33.4	0.188	8.2	LOS A	1.1	10.3	0.28	0.55	0.28	47.3
All Vehicles			611	22.8	611	22.8	0.204	6.4	LOS A	1.3	10.3	0.33	0.50	0.33	49.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3 (3)] I-3_Stirling Crescent/Adelaide Street (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
1	L2	All MCs	173	13.3	173	13.3	0.203	4.6	LOS A	1.3	10.3	0.33	0.46	0.33	50.8
2	T1	All MCs	63	13.3	63	13.3	0.203	4.8	LOS A	1.3	10.3	0.33	0.46	0.33	52.7
3	R2	All MCs	9	13.3	9	13.3	0.203	9.5	LOS A	1.3	10.3	0.33	0.46	0.33	50.0
Approach			245	13.3	245	13.3	0.203	4.9	LOS A	1.3	10.3	0.33	0.46	0.33	51.3
East: Adelaide Street (E)															
4	L2	All MCs	9	33.4	9	33.4	0.103	6.6	LOS A	0.6	5.0	0.53	0.56	0.53	48.4
5	T1	All MCs	66	33.4	66	33.4	0.103	6.8	LOS A	0.6	5.0	0.53	0.56	0.53	49.1
6	R2	All MCs	9	33.4	9	33.4	0.103	11.5	LOS B	0.6	5.0	0.53	0.56	0.53	49.2
Approach			85	33.4	85	33.4	0.103	7.3	LOS A	0.6	5.0	0.53	0.56	0.53	49.0
North: Stirling Crescent (N)															
7	L2	All MCs	9	13.3	9	13.3	0.089	6.1	LOS A	0.5	3.8	0.52	0.56	0.52	50.8
8	T1	All MCs	63	13.3	63	13.3	0.089	6.3	LOS A	0.5	3.8	0.52	0.56	0.52	51.2
9	R2	All MCs	9	13.3	9	13.3	0.089	10.9	LOS B	0.5	3.8	0.52	0.56	0.52	50.1
Approach			82	13.3	82	13.3	0.089	6.8	LOS A	0.5	3.8	0.52	0.56	0.52	51.0
West: Adelaide Street (W)															
10	L2	All MCs	9	33.4	9	33.4	0.251	4.9	LOS A	1.6	14.6	0.32	0.55	0.32	49.2
11	T1	All MCs	66	33.4	66	33.4	0.251	5.1	LOS A	1.6	14.6	0.32	0.55	0.32	48.1
12	R2	All MCs	207	33.4	207	33.4	0.251	9.8	LOS A	1.6	14.6	0.32	0.55	0.32	46.5
Approach			283	33.4	283	33.4	0.251	8.5	LOS A	1.6	14.6	0.32	0.55	0.32	47.0
All Vehicles			696	23.9	696	23.9	0.251	6.9	LOS A	1.6	14.6	0.37	0.52	0.37	49.2

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [2105 (6)] I-4_Stirling Crescent/Site Access 2 (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
21	L2	All MCs	11	10.0	11	10.0	0.135	5.7	LOS A	0.0	0.0	0.00	0.03	0.00	53.6
22	T1	All MCs	223	13.3	223	13.3	0.135	0.0	LOS A	0.0	0.0	0.00	0.03	0.00	59.6
Approach			234	13.2	234	13.2	0.135	0.3	NA	0.0	0.0	0.00	0.03	0.00	59.3
North: Stirling Crescent (N)															
28	T1	All MCs	127	13.3	127	13.3	0.097	0.3	LOS A	0.2	2.0	0.16	0.20	0.16	57.9
29	R2	All MCs	32	10.0	32	10.0	0.097	6.6	LOS A	0.2	2.0	0.16	0.20	0.16	49.5
Approach			159	12.6	159	12.6	0.097	1.5	NA	0.2	2.0	0.16	0.20	0.16	55.9
West: Site Access 2 (W)															
30	L2	All MCs	8	10.0	8	10.0	0.011	5.5	LOS A	0.0	0.3	0.34	0.53	0.34	44.8
32	R2	All MCs	3	10.0	3	10.0	0.011	6.5	LOS A	0.0	0.3	0.34	0.53	0.34	45.3
Approach			12	10.0	12	10.0	0.011	5.8	LOS A	0.0	0.3	0.34	0.53	0.34	44.9
All Vehicles			404	12.9	404	12.9	0.135	0.9	NA	0.2	2.0	0.07	0.11	0.07	57.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [2105 (7)] I-4_Stirling Crescent/Site Access 2 (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Stirling Crescent (S)															
21	L2	All MCs	3	10.0	3	10.0	0.119	5.7	LOS A	0.0	0.0	0.00	0.01	0.00	53.7
22	T1	All MCs	203	13.3	203	13.3	0.119	0.0	LOS A	0.0	0.0	0.00	0.01	0.00	59.8
Approach			206	13.2	206	13.2	0.119	0.1	NA	0.0	0.0	0.00	0.01	0.00	59.7
North: Stirling Crescent (N)															
28	T1	All MCs	254	13.3	254	13.3	0.152	0.0	LOS A	0.1	0.6	0.03	0.03	0.03	59.6
29	R2	All MCs	8	10.0	8	10.0	0.152	6.2	LOS A	0.1	0.6	0.03	0.03	0.03	50.7
Approach			262	13.2	262	13.2	0.152	0.2	NA	0.1	0.6	0.03	0.03	0.03	59.3
West: Site Access 2 (W)															
30	L2	All MCs	32	10.0	32	10.0	0.039	5.4	LOS A	0.1	1.1	0.34	0.55	0.34	44.7
32	R2	All MCs	11	10.0	11	10.0	0.039	7.1	LOS A	0.1	1.1	0.34	0.55	0.34	45.3
Approach			42	10.0	42	10.0	0.039	5.9	LOS A	0.1	1.1	0.34	0.55	0.34	44.9
All Vehicles			511	13.0	511	13.0	0.152	0.6	NA	0.1	1.1	0.04	0.06	0.04	57.8

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3103 (9)] I-5_Stirling Crescent/Kalamunda Road (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	1011	7.6	1011	7.6	0.566	0.4	LOS A	0.0	0.0	0.00	0.00	0.00	59.4
29	R2	All MCs	96	7.6	96	7.6	0.317	20.0	LOS C	1.1	8.9	0.86	0.99	1.03	41.8
Approach			1106	7.6	1106	7.6	0.566	2.1	NA	1.1	8.9	0.07	0.09	0.09	56.6
North: Stirling Crescent (N)															
30	L2	All MCs	89	13.3	89	13.3	0.254	103.6	LOS F	0.8	7.1	0.80	0.95	0.91	42.4
32	R2	All MCs	107	13.3	107	13.3	7.985	6535.4	LOS F	60.7	508.3	1.00	1.83	4.70	2.4
Approach			197	13.3	197	13.3	7.985	3611.8	LOS F	60.7	508.3	0.91	1.43	2.97	4.4
West: Kalamunda Road (W)															
21	L2	All MCs	115	7.6	115	7.6	0.545	5.7	LOS A	0.0	0.0	0.00	0.06	0.00	51.4
22	T1	All MCs	955	7.6	955	7.6	0.545	0.1	LOS A	0.0	0.0	0.00	0.06	0.00	58.7
Approach			1069	7.6	1069	7.6	0.545	0.7	NA	0.0	0.0	0.00	0.06	0.00	57.8
All Vehicles			2373	8.1	2373	8.1	7.985	300.9	NA	60.7	508.3	0.11	0.19	0.29	26.8

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3103 (15)] I-5_Stirling Crescent/Kalamunda Road (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	534	7.6	534	7.6	0.299	0.2	LOS A	0.0	0.0	0.00	0.00	0.00	59.8
29	R2	All MCs	123	7.6	123	7.6	0.400	20.9	LOS C	1.5	11.9	0.87	1.02	1.14	41.3
Approach			657	7.6	657	7.6	0.400	4.1	NA	1.5	11.9	0.16	0.19	0.21	53.8
North: Stirling Crescent (N)															
30	L2	All MCs	138	13.3	138	13.3	0.363	40.1	LOS E	1.4	11.4	0.81	0.99	1.04	42.2
32	R2	All MCs	161	13.3	161	13.3	4.944	3684.2	LOS F	81.8	684.7	1.00	3.38	10.94	2.7
Approach			299	13.3	299	13.3	4.944	2003.3	LOS F	81.8	684.7	0.91	2.27	6.37	5.5
West: Kalamunda Road (W)															
21	L2	All MCs	138	7.6	138	7.6	0.543	5.7	LOS A	0.0	0.0	0.00	0.08	0.00	51.3
22	T1	All MCs	925	7.6	925	7.6	0.543	0.1	LOS A	0.0	0.0	0.00	0.08	0.00	58.5
Approach			1063	7.6	1063	7.6	0.543	0.8	NA	0.0	0.0	0.00	0.08	0.00	57.5
All Vehicles			2019	8.4	2019	8.4	4.944	298.4	NA	81.8	684.7	0.19	0.44	1.01	22.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3103 (21)] I-5_Stirling Crescent/Kalamunda Road - Conversion (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	1011	7.6	1011	7.6	0.566	4.5	LOS A	0.0	0.0	0.00	0.36	0.00	53.0
29	R2	All MCs	96	7.6	96	7.6	0.116	10.2	LOS B	0.7	5.3	0.37	0.60	0.37	51.3
Approach			1106	7.6	1106	7.6	0.566	5.0	LOS A	0.7	5.3	0.03	0.38	0.03	52.7
North: Stirling Crescent (N)															
30	L2	All MCs	89	13.3	89	13.3	0.164	12.6	LOS B	0.9	7.7	0.78	0.75	0.78	48.8
32	R2	All MCs	107	13.3	107	13.3	0.156	16.7	LOS B	1.0	8.0	0.78	0.76	0.78	45.4
Approach			197	13.3	197	13.3	0.164	14.8	LOS B	1.0	8.0	0.78	0.76	0.78	47.1
West: Kalamunda Road (W)															
21	L2	All MCs	115	7.6	115	7.6	0.545	3.9	LOS A	0.0	0.0	0.00	0.37	0.00	54.2
22	T1	All MCs	955	7.6	955	7.6	0.545	3.8	LOS A	0.0	0.0	0.00	0.37	0.00	51.0
Approach			1069	7.6	1069	7.6	0.545	3.8	LOS A	0.0	0.0	0.00	0.37	0.00	51.5
All Vehicles			2373	8.1	2373	8.1	0.566	5.3	LOS A	1.0	8.0	0.08	0.41	0.08	51.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3103 (22)] I-5_Stirling Crescent/Kalamunda Road - with improvements - Conversion (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Roundabout
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	534	7.6	534	7.6	0.299	4.3	LOS A	0.0	0.0	0.00	0.36	0.00	53.2
29	R2	All MCs	123	7.6	123	7.6	0.161	10.8	LOS B	0.9	7.4	0.46	0.62	0.46	51.1
Approach			657	7.6	657	7.6	0.299	5.5	LOS A	0.9	7.4	0.09	0.41	0.09	52.5
North: Stirling Crescent (N)															
30	L2	All MCs	138	13.3	138	13.3	0.085	3.7	LOS A	0.0	0.0	0.00	0.43	0.00	53.7
32	R2	All MCs	161	13.3	161	13.3	0.228	16.5	LOS B	1.4	11.8	0.79	0.77	0.79	45.5
Approach			299	13.3	299	13.3	0.228	10.6	LOS B	1.4	11.8	0.43	0.61	0.43	49.4
West: Kalamunda Road (W)															
21	L2	All MCs	138	7.6	138	7.6	0.543	3.9	LOS A	0.0	0.0	0.00	0.38	0.00	54.2
22	T1	All MCs	925	7.6	925	7.6	0.543	3.8	LOS A	0.0	0.0	0.00	0.38	0.00	51.0
Approach			1063	7.6	1063	7.6	0.543	3.8	LOS A	0.0	0.0	0.00	0.38	0.00	51.6
All Vehicles			2019	8.4	2019	8.4	0.543	5.4	LOS A	1.4	11.8	0.09	0.42	0.09	51.4

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: SIDRA Roundabout LOS.
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Roundabout Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [3104 (6)] I-6_Kalamunda Road/Site Access 3 (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	1043	7.6	1043	7.6	0.762	12.8	LOS B	11.9	94.4	0.23	0.28	0.98	42.7
29	R2	All MCs	73	10.0	73	10.0	0.762	28.9	LOS D	11.9	94.4	0.23	0.28	0.98	32.9
Approach			1116	7.8	1116	7.8	0.762	13.9	NA	11.9	94.4	0.23	0.28	0.98	42.1
North: Site Access 3 (N)															
30	L2	All MCs	19	10.0	19	10.0	0.288	18.5	LOS C	0.6	5.2	0.90	0.99	1.02	26.1
32	R2	All MCs	24	10.0	24	10.0	0.288	34.4	LOS D	0.6	5.2	0.90	0.99	1.02	31.4
Approach			43	10.0	43	10.0	0.288	27.4	LOS D	0.6	5.2	0.90	0.99	1.02	29.4
West: Kalamunda Road (W)															
21	L2	All MCs	94	10.0	94	10.0	0.628	5.9	LOS A	0.0	0.0	0.00	0.05	0.00	52.5
22	T1	All MCs	1048	7.6	1048	7.6	0.628	0.3	LOS A	0.0	0.0	0.00	0.05	0.00	58.5
Approach			1142	7.8	1142	7.8	0.628	0.8	NA	0.0	0.0	0.00	0.05	0.00	57.9
All Vehicles			2301	7.8	2301	7.8	0.762	7.6	NA	11.9	94.4	0.13	0.18	0.50	48.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

MOVEMENT SUMMARY

Site: [3104 (7)] I-6_Kalamunda Road/Site Access 3 (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

NA
Site Category: (None)
Give-Way (Two-Way)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Queued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
East: Kalamunda Road (E)															
28	T1	All MCs	669	7.6	669	7.6	0.402	0.8	LOS A	0.6	4.9	0.08	0.09	0.10	58.1
29	R2	All MCs	19	10.0	19	10.0	0.402	14.1	LOS B	0.6	4.9	0.08	0.09	0.10	44.8
Approach			688	7.7	688	7.7	0.402	1.1	NA	0.6	4.9	0.08	0.09	0.10	57.7
North: Site Access 3 (N)															
30	L2	All MCs	73	10.0	73	10.0	0.553	19.4	LOS C	1.8	15.0	0.89	1.08	1.33	29.9
32	R2	All MCs	94	10.0	94	10.0	0.553	19.7	LOS C	1.8	15.0	0.89	1.08	1.33	35.0
Approach			166	10.0	166	10.0	0.553	19.5	LOS C	1.8	15.0	0.89	1.08	1.33	33.1
West: Kalamunda Road (W)															
21	L2	All MCs	24	10.0	24	10.0	0.557	5.9	LOS A	0.0	0.0	0.00	0.01	0.00	53.0
22	T1	All MCs	994	7.6	994	7.6	0.557	0.2	LOS A	0.0	0.0	0.00	0.01	0.00	59.2
Approach			1018	7.7	1018	7.7	0.557	0.4	NA	0.0	0.0	0.00	0.01	0.00	59.0
All Vehicles			1873	7.9	1873	7.9	0.557	2.4	NA	1.8	15.0	0.11	0.14	0.16	54.7

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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MOVEMENT SUMMARY

Site: [1 (5)] I-7_Kalamunda Road/Abernethy Road (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 122.0 seconds (Site User-Given Cycle Time)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	118	33.4	118	33.4	* 0.964	72.0	LOS E	26.2	235.7	1.00	1.21	1.45	24.5
2	T1	All MCs	545	33.4	545	33.4	0.964	85.7	LOS F	26.2	235.7	1.00	1.22	1.45	25.5
3	R2	All MCs	151	33.4	151	33.4	* 0.962	93.1	LOS F	11.5	103.8	1.00	1.11	1.58	21.8
Approach			814	33.4	814	33.4	0.964	85.1	LOS F	26.2	235.7	1.00	1.20	1.47	24.7
East: Kalamunda Road (E)															
4	L2	All MCs	269	7.6	269	7.6	0.580	34.3	LOS C	18.4	137.0	0.86	0.81	0.86	34.7
5	T1	All MCs	663	7.6	663	7.6	* 0.962	86.7	LOS F	42.1	313.6	0.98	1.14	1.27	27.2
6	R2	All MCs	92	7.6	92	7.6	0.385	80.6	LOS F	5.1	38.1	0.96	0.77	0.96	28.5
Approach			1024	7.6	1024	7.6	0.962	72.4	LOS E	42.1	313.6	0.94	1.02	1.13	25.8
North: Abernethy Road (N)															
7	L2	All MCs	67	33.4	67	33.4	0.075	8.1	LOS A	0.6	5.4	0.27	0.86	0.27	41.9
8	T1	All MCs	626	33.4	626	33.4	0.921	69.7	LOS E	22.3	200.6	1.00	1.13	1.33	28.1
9	R2	All MCs	21	33.4	21	33.4	0.135	61.4	LOS E	1.2	10.6	0.94	0.71	0.94	29.1
Approach			715	33.4	715	33.4	0.921	63.6	LOS E	22.3	200.6	0.93	1.09	1.22	28.9
West: Kalamunda Road (W)															
10	L2	All MCs	32	7.6	32	7.6	0.218	25.4	LOS C	5.7	42.7	0.76	0.65	0.76	38.1
11	T1	All MCs	312	7.6	312	7.6	0.333	33.4	LOS C	9.2	68.7	0.78	0.66	0.78	37.8
12	R2	All MCs	229	7.6	229	7.6	0.964	90.3	LOS F	17.5	130.5	1.00	1.10	1.51	23.9
Approach			573	7.6	573	7.6	0.964	55.7	LOS E	17.5	130.5	0.87	0.84	1.07	30.3
All Vehicles			3125	20.2	3125	20.2	0.964	70.6	LOS E	42.1	313.6	0.94	1.05	1.23	26.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

* Critical Movement (Signal Timing)

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MOVEMENT SUMMARY

Site: [1 (7)] I-7_Kalamunda Road/Abernethy Road (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 111.0 seconds (Site User-Given Cycle Time)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	432	33.4	432	33.4	* 1.192	225.1	LOS F	81.3	731.7	1.00	1.78	2.47	13.4
2	T1	All MCs	848	33.4	848	33.4	1.192	237.9	LOS F	81.3	731.7	1.00	2.03	2.48	13.8
3	R2	All MCs	298	33.4	298	33.4	* 1.193	255.2	LOS F	35.5	319.2	1.00	1.60	2.56	12.0
Approach			1578	33.4	1578	33.4	1.193	237.7	LOS F	81.3	731.7	1.00	1.88	2.49	13.0
East: Kalamunda Road (E)															
4	L2	All MCs	185	7.6	185	7.6	0.718	39.2	LOS D	15.0	112.1	0.98	0.86	1.02	31.1
5	T1	All MCs	517	7.6	517	7.6	1.191	212.7	LOS F	48.6	362.2	1.00	1.67	2.21	14.3
6	R2	All MCs	62	7.6	62	7.6	0.525	80.8	LOS F	3.5	25.9	1.00	0.76	1.00	27.5
Approach			764	7.6	764	7.6	1.191	159.9	LOS F	48.6	362.2	0.99	1.40	1.82	16.3
North: Abernethy Road (N)															
7	L2	All MCs	84	33.4	84	33.4	0.114	13.2	LOS B	1.4	12.6	0.54	1.27	0.54	28.0
8	T1	All MCs	601	33.4	601	33.4	0.556	32.7	LOS C	13.4	120.5	0.87	0.75	0.87	39.1
9	R2	All MCs	34	33.4	34	33.4	0.135	49.7	LOS D	1.6	14.3	0.89	0.72	0.89	32.1
Approach			719	33.4	719	33.4	0.556	31.2	LOS C	13.4	120.5	0.83	0.81	0.83	37.2
West: Kalamunda Road (W)															
10	L2	All MCs	18	7.6	18	7.6	0.779	33.4	LOS C	15.4	114.9	1.00	0.92	1.11	32.2
11	T1	All MCs	674	7.6	674	7.6	* 1.192	170.5	LOS F	48.5	361.9	1.00	1.50	1.96	16.4
12	R2	All MCs	141	7.6	141	7.6	1.191	257.7	LOS F	16.6	123.8	1.00	1.48	2.62	13.0
Approach			833	7.6	833	7.6	1.192	182.3	LOS F	48.5	361.9	1.00	1.49	2.06	15.2
All Vehicles			3894	22.8	3894	22.8	1.193	172.5	LOS F	81.3	731.7	0.97	1.50	1.96	16.1

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

* Critical Movement (Signal Timing)

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MOVEMENT SUMMARY

Site: [1 (10)] I-7_Kalamunda Road/Abernethy Road - with Improvements (S2: BG 2041+Dev - AM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 80.0 seconds (Site Optimum Cycle Time - Minimum Delay)
Site Scenario: 1 | Local Volumes

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	118	33.4	118	33.4	0.753	28.5	LOS C	13.0	117.5	0.97	0.91	1.07	37.1
2	T1	All MCs	545	33.4	545	33.4	* 0.753	33.9	LOS C	13.0	117.5	0.97	0.91	1.08	39.2
3	R2	All MCs	151	33.4	151	33.4	* 0.662	49.6	LOS D	3.2	28.9	1.00	0.84	1.17	30.7
Approach			814	33.4	814	33.4	0.753	36.0	LOS D	13.0	117.5	0.98	0.90	1.10	37.1
East: Kalamunda Road (E)															
4	L2	All MCs	269	7.6	269	7.6	0.381	24.2	LOS C	7.5	56.1	0.76	0.78	0.76	40.1
5	T1	All MCs	663	7.6	663	7.6	* 0.753	33.7	LOS C	13.0	96.7	0.99	0.90	1.09	37.4
6	R2	All MCs	92	7.6	92	7.6	0.601	47.0	LOS D	3.8	28.0	1.00	0.81	1.07	31.7
Approach			1024	7.6	1024	7.6	0.753	32.4	LOS C	13.0	96.7	0.93	0.86	1.00	37.4
North: Abernethy Road (N)															
7	L2	All MCs	67	33.4	67	33.4	0.069	7.3	LOS A	0.5	4.2	0.23	0.84	0.23	41.7
8	T1	All MCs	626	33.4	626	33.4	0.723	31.1	LOS C	11.9	107.0	0.97	0.87	1.04	39.9
9	R2	All MCs	21	33.4	21	33.4	0.185	46.4	LOS D	0.8	7.5	0.97	0.70	0.97	33.1
Approach			715	33.4	715	33.4	0.723	29.3	LOS C	11.9	107.0	0.90	0.87	0.96	39.8
West: Kalamunda Road (W)															
10	L2	All MCs	32	7.6	32	7.6	0.387	24.3	LOS C	5.8	43.0	0.88	0.73	0.88	39.4
11	T1	All MCs	312	7.6	312	7.6	0.387	29.2	LOS C	5.8	43.0	0.89	0.73	0.89	39.6
12	R2	All MCs	229	7.6	229	7.6	* 0.753	49.4	LOS D	4.9	36.6	1.00	0.90	1.24	32.6
Approach			573	7.6	573	7.6	0.753	37.0	LOS D	5.8	43.0	0.93	0.80	1.03	36.3
All Vehicles			3125	20.2	3125	20.2	0.753	33.5	LOS C	13.0	117.5	0.93	0.86	1.02	37.6

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

* Critical Movement (Signal Timing)

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MOVEMENT SUMMARY

Site: [1 (9)] I-7_Kalamunda Road/Abernethy Road - with Improvements (S2: BG 2041+Dev - PM Peak)

Output produced by SIDRA INTERSECTION Version: 10.0.5.217

New Site
Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 130.0 seconds (Site Optimum Cycle Time - Minimum Delay)
Site Scenario: 1 | Local Volumes

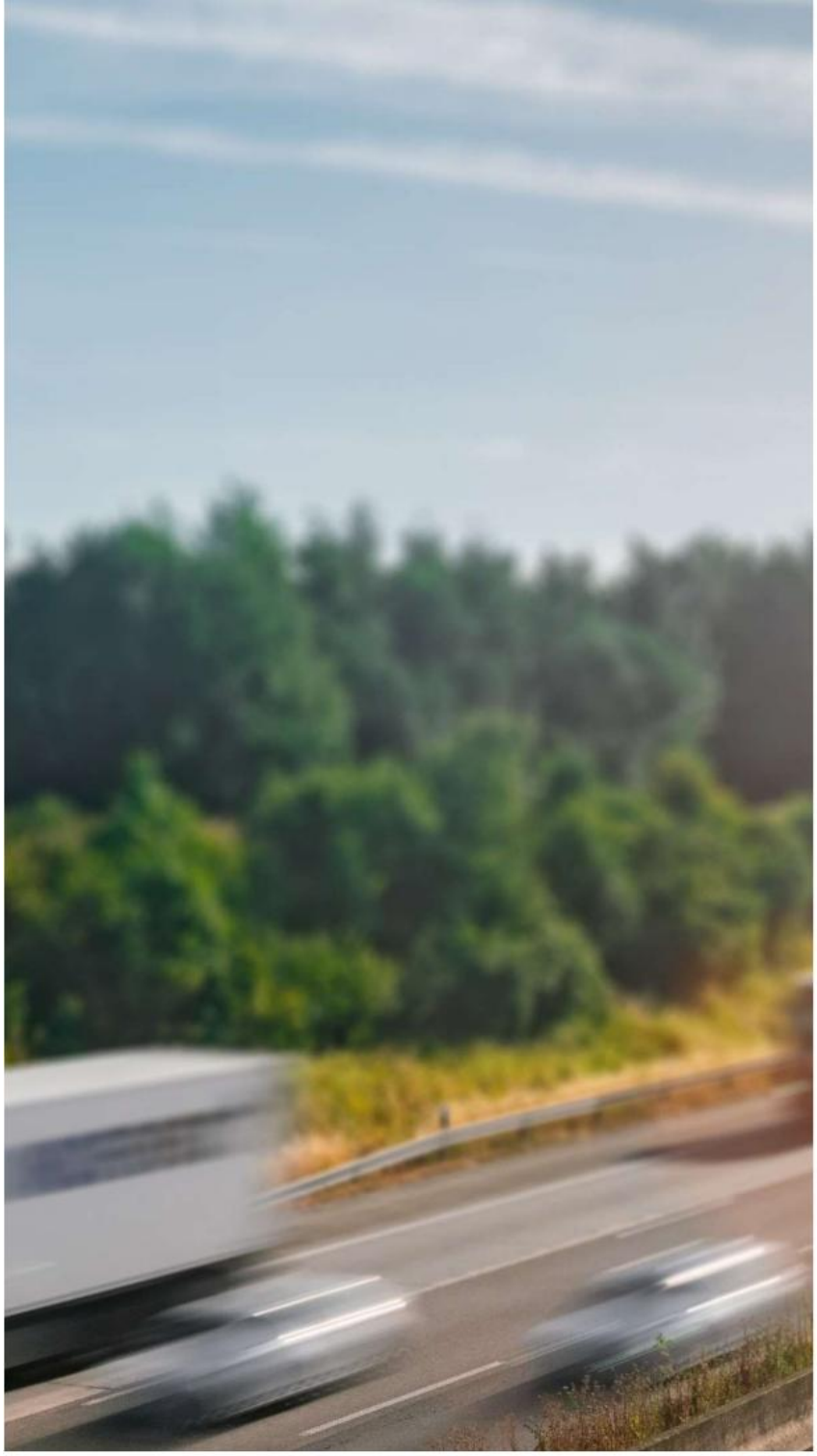
Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] m	Prop. Qued	Eff. Stop Rate	Number of Cycles to Depart	Aver. Speed km/h
South: Abernethy Road (S)															
1	L2	All MCs	432	33.4	432	33.4	*0.902	49.6	LOS D	44.3	398.6	1.00	0.99	1.14	31.2
2	T1	All MCs	848	33.4	848	33.4	0.902	52.0	LOS D	44.3	398.6	1.00	1.02	1.15	32.9
3	R2	All MCs	298	33.4	298	33.4	0.901	83.2	LOS F	11.0	98.9	1.00	1.03	1.38	23.4
Approach			1578	33.4	1578	33.4	0.902	57.3	LOS E	44.3	398.6	1.00	1.01	1.19	30.3
East: Kalamunda Road (E)															
4	L2	All MCs	185	7.6	185	7.6	0.284	36.6	LOS D	8.2	61.3	0.75	0.77	0.75	34.9
5	T1	All MCs	517	7.6	517	7.6	0.678	53.4	LOS D	15.4	114.9	0.98	0.83	0.98	31.0
6	R2	All MCs	62	7.6	62	7.6	0.756	81.9	LOS F	4.3	32.1	1.00	0.86	1.23	24.3
Approach			764	7.6	764	7.6	0.756	51.7	LOS D	15.4	114.9	0.93	0.82	0.95	30.8
North: Abernethy Road (N)															
7	L2	All MCs	84	33.4	84	33.4	0.099	11.6	LOS B	1.6	14.4	0.44	1.31	0.44	32.3
8	T1	All MCs	601	33.4	601	33.4	0.429	27.4	LOS C	13.2	118.5	0.74	0.65	0.74	41.5
9	R2	All MCs	34	33.4	34	33.4	0.204	64.6	LOS E	2.0	18.1	0.95	0.73	0.95	28.5
Approach			719	33.4	719	33.4	0.429	27.3	LOS C	13.2	118.5	0.72	0.73	0.72	39.5
West: Kalamunda Road (W)															
10	L2	All MCs	18	7.6	18	7.6	*0.901	53.8	LOS D	24.8	184.5	1.00	1.06	1.24	27.8
11	T1	All MCs	674	7.6	674	7.6	0.901	68.3	LOS E	24.8	184.5	1.00	1.06	1.24	27.0
12	R2	All MCs	141	7.6	141	7.6	0.858	82.8	LOS F	5.0	37.6	1.00	0.93	1.39	25.1
Approach			833	7.6	833	7.6	0.901	70.4	LOS E	24.8	184.5	1.00	1.04	1.27	26.7
All Vehicles			3894	22.8	3894	22.8	0.902	53.4	LOS D	44.3	398.6	0.93	0.93	1.07	30.9

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Intersection and Approach LOS values are based on average delay for all vehicle movements.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

* Critical Movement (Signal Timing)

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APPENDIX 9

Economic Impact Assessment

Hatch Court & Stirling Crescent Local Structure Plan

Economic Impact Assessment

PREPARED FOR City of Kalamunda

9 June 2026

FINAL



macroplan

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Executive Summary

Study Context

This report was prepared by Macroplan (the author) for the City of Kalamunda (the City). This report provides an independent Economic Impact Assessment (EIA) in relation to the Hatch Court and Stirling Crescent Local Structure Plan (LSP).

This report provides insights in relation to the likely direct and indirect economic and employment benefits that may arise from the future developments in the LSP together with wider qualitative economic, social and community benefits.

Hatch Court & Stirling Crescent LSP

The Hatch Court and Stirling Crescent LSP is in the northwest of High Wycombe, approximately 3.5 km northwest of the Perth Airport and 13 km from the Perth CBD. It is strategically located on the interface of the existing industrial precinct in Perth Airport / Hazelmere and residential areas in High Wycombe.

The Hatch Court precinct is zoned for Light Industrial while the Stirling Crescent precinct is zoned for Urban Development with the preferred uses being residential.

Several interventions and studies have been undertaken by the City concurrently with the preparation of the LSP. These interventions and studies have informed the recommended options for re-alignment of road access and connection of living stream to wetlands, which provides a framework for shaping the LSP. This framework concept indicates approximately 21.57 hectares of net development areas (NDAs) for industrial uses in the Hatch Court precinct and 4.7 hectares of NDA for residential uses in the Stirling Crescent precinct.

Relevant assumptions have been made based on the City's instructions and it is estimated that the Hatch Court precinct may accommodate around 94,908-118,635 sqm gross floor area (GFA) of industrial floorspace while the Stirling Crescent precinct may yield around 115-125 dwellings when fully built out, subject to design and layout.

The LSP is anticipated to complete in mid-late 2028, while the developments in the LSP will be generally led by market.

Key Economic Impacts

The potential industrial and residential developments in the LSP will deliver several economic and community benefits to the local area and wider region.

Key quantifiable economic impacts that may arise from the potential developments are summarised below.

- The construction of the developments together with the delivery of enabling infrastructure in the LSP may attract an estimated total of **$177.6-$219.1 million** of construction investment. This initial construction investment is expected to create another **$220.8-$272.3 million** production-induced indirect output and **$140.8-$173.6 million** consumption-induced output elsewhere in the wider economy. This totals **$539.2-$665.1 million** construction output (including direct and indirect) to the economy during the construction phase.

- The construction of the developments and infrastructure is expected to generate approximately **335-414** direct construction full time equivalent (FTE) jobs on site, plus another **451-556** production-induced indirect FTE jobs and **425-524** consumption-induced indirect FTE jobs elsewhere in the economy. This totals **1,211-1,494** construction related FTE jobs during the construction phase.

- Upon completion, the developments will accommodate a mix of industries which are anticipated to be anchored by transport, postal and warehousing, manufacturing and construction, followed by wholesale trade, mining and other services (i.e. repair and maintenance), and supplemented by business services, professional services and other supporting services benchmarking to the current industrial mix in the existing Forrestfield / High Wycombe industrial precinct, as well as some home based businesses.

- These anticipated uses in the LSP are likely to create around **864-1,079** ongoing FTE jobs on site when fully operational, which will support a further **605-756** production-induced FTE jobs and **766-957** consumption-induced FTE jobs elsewhere in the economy. This totals **2,235-2,792** direct and indirect FTE jobs in the local and regional economy.

- The ongoing employment operating in the LSP is also expected to create approximately **$354.8-$443.3 million** direct economic output per annum, translating to another **$278.9-$348.5 million** production-induced indirect output and **$253.6-$316.8 million** consumption-induced indirect output per annum elsewhere in the economy. This totals **$887.2-$1,108.6** million direct and indirect economic output per annum.

- The Stirling Crescent residential precinct is expected to accommodate approximately **269-292 residents** upon completion, who has the capacity to generate up to **$14.5-$15.8 million** consumption expenditure per year.

- The industrial and residential developments in the LSP will also generate an estimate of approximately **$1.7-$2.1 million** industrial and residential rates revenue per annum (subject to future valuation undertaken by the Valuer-General), which is a net increase of approximately **$1.6-$2.0 million** from the current level.

Table 1 Key Economic Impact Summary

Item	Direct	Indirect		Total
		Production	Consumption	(D+P+C)
Construction Output ($M)	177.6-219.1	220.8-272.3	140.8-173.6	**539.2-665.1**
Construction Employment (FTE)	335-414	451-556	425-524	**1,211-1,494**
Ongoing Output ($M)	354.8-443.3	278.9-348.5	253.6-316.8	**887.2-1,108.6**
Ongoing Employment (FTE)	864-1,079	605-756	766-957	**2,235-2,792**
Residents' Consumption Expenditure ($M)	14.5-15.8	-	-	**-**
Increase in Rates Revenue($M)	1.6-2.0	-	-	**-**

Source: ABS, ABS Census 2021, City of Kalamunda (2026), City of Sydney Floor Space and Employment Survey (2022), JLL (2026), MarketInfo, Rawlinsons Australian Construction Handbook, SQM Research (2026), Macroplan

In addition, the proposed facility will also deliver a number of non-quantifiable economic and community benefits.

The proposed land uses and developments in the LSP will transform underutilised land into productive land and provide the much-needed industrial and housing supply amid the currently extremely constrained industrial market in Perth and nationwide housing shortage. It can leverage its locational advantages adjacent to major transport infrastructure and existing industrial precincts, simulating investments, economic activities, employment opportunities, industrial clustering, and improved productivity, while mitigating adverse amenity impacts on the

residential precinct by appropriate re-alignment of road access. This will assist with the achievement of progressive value uplift and upgraded branding to the wider precinct.

The indirect social benefits of increased employment opportunities involve broader improvements in wellbeing, stability and social outcomes for individuals, households and community, which lies beyond the direct benefits to the employees supported by the specific developments.

Overall, the proposed industrial and residential uses in the LSP address the current undersupply of both uses and will deliver multiple benefits to the economy and community at both local and regional levels.

The detailed benefits are elaborated upon in this report.

Introduction

This report has been prepared by Macroplan (the author) for the City of Kalamunda (the City). This report provides an independent economic impact assessment (EIA) in relation to the Hatch Court and Stirling Crescent Local Structure Plan (LSP).

The draft LSP is currently under preparation aiming at public advertising by the City of Kalamunda Council in mid-2026 and submission to the WA Planning Commission (WAPC) in late 2026.

This report provides insights in relation to the likely economic and employment benefits that may rise from the future developments in the LSP, both directly and indirectly, together with various non-quantifiable wider economic, social and community benefits.

This report is presented as follows:

- **Section 1: Precinct & Regional Overview** – provides an overview of the LSP and the regional context of City of Kalamunda.
- **Section 2: Economic Impact Assessment** – provides an assessment estimating the likely economic output and employment benefits to be supported by the future developments in the LSP during the construction phase and upon completion, both directly and indirectly.

1 Precinct & Regional Context

1.1 The Subject Precinct

The Hatch Court and Stirling Crescent LSP is located in the northwest of High Wycombe, within the City of Kalamunda. It is approximately 3.5 km northwest of the Perth Airport and 13 km from the Perth CBD. The LSP is strategically located on the interface of the existing industrial precinct in Perth Airport / Hazelmere and residential areas in High Wycombe.

The Hatch Court LSP involves the Hatch Court Light Industrial Area (HCLIA) bounded by Kalamunda Road, Stirling Crescent, and Adelaide Street. It abuts the existing industrial areas to the northwest, with residential uses including a lifestyle village to the southwest of Kalamunda Road and southeast of Stirling Crescent.

With approximately 30 hectares of gross land area, the majority of the area is zoned for Light Industrial and partially subject to Bushfire Prone Areas under the *City of Kalamunda Local Planning Scheme* (LPS) No. 3. Based on the LPS, the area is permitted for uses of light industry and general industry, with industrial development subject to planning approval.

There are currently 15 lots from around 1 hectare to up to 8 hectares within the Hatch Court LSP, totalling 25.8 hectares of gross developable area. Only Lot 200 is currently developed as hardstand, with the balance of the precinct largely undeveloped. Several other lots have been granted with development approvals, but development have not yet been implemented.

The Stirling Crescent LSP is located to the southeast of the Stirling Crescent, adjacent to the Hatch Court precinct to the north and the existing residential area to the south, northeast and southwest. With approximately 6 hectares of gross land area, the Stirling Crescent LSP is currently zoned for Urban Development and partially subject to Bushfire Prone Areas under the LPS. There are currently 11 lots within the Stirling Crescent LSP, 10 of which area around 4,000 sqm except one being 20,000 sqm. Most of these lots are used for one storey detached houses.

Current access to the precinct is predominantly via the existing Stirling Cresent and Hatch Court.

There are also two large Class 2 wetlands at extremities, linked by open drainage channels, with environmental buffer zones around the wetlands and drainage.

Map 1.2 Hatch Court and Stirling Crescent LSP



Source: City of Kalamunda (2026), MetroMap (2026), Macroplan

1.2 Proposed Land Uses

To facilitate coordinated development within the Hatch Court and Stirling Crescent LSP, the City has undertaken a number of interventions concurrently with the preparation of the LSP. This includes the following:

- Purchase of land at Lot 13;
- Ceding of Peak Court access road from Adelaide Street as public road;
- Provision of Local Planning Policy No 35 as interim development control to the Hatch Court precinct; and
- Appointment of consultants to advise on the LSP and Development Contribution Plan (DCP).

These interventions together with advice received from consultants on the re-alignment of road access and connection of living stream to wetlands provide a framework for shaping the LSP. At the time of preparing this report, consideration by the City and consultants of the likely recommended features of the LSP include the following:

- A new access road over Lot 13 from Adelaide Street into the Hatch Court precinct connecting to the existing Hatch Court;
- Cul-de-sac of Hatch Court to protect residential amenity of the Stirling Crescent precinct with the Stirling Crescent being a logical boundary between industrial and residential uses;
- Controls over access from Lot 200 onto Kalamunda Road and Stirling Crescent;
- A new access road through the Stirling Crescent connecting to the intersection of Wem Mews and Acton Link;
- Re-alignment of living stream to Hatch Court and connection to wetland on Lot 11 to improve ecological outcomes and optimise developable areas; and
- The preferred outcome being a residential precinct for the Stirling Crescent precinct with R25 density which would facilitate typical lots of 12-metre wide and 32-metre depth.

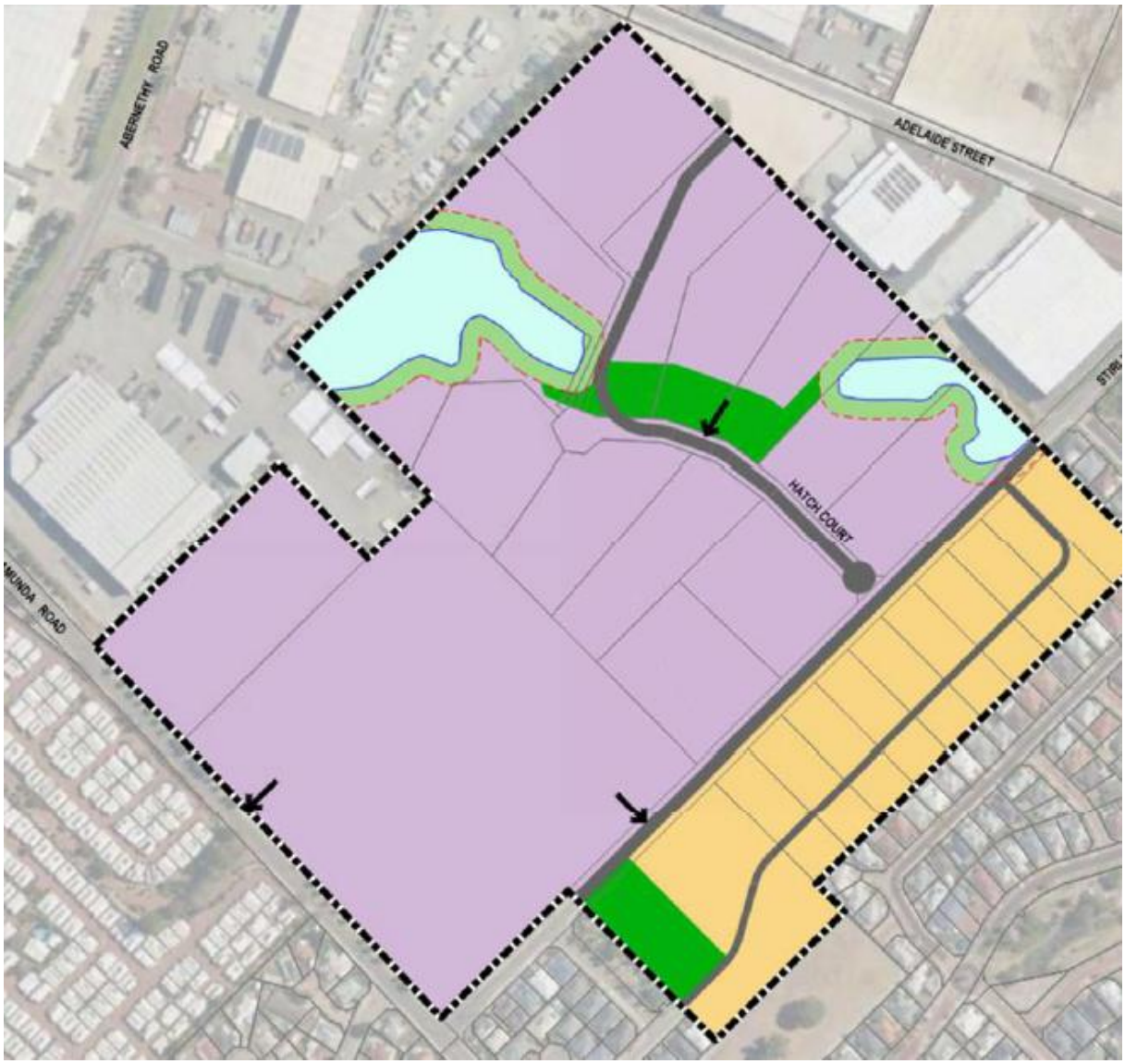
Based on the above, it is estimated that the net development areas (NDAs) for the Hatch Court and Stirling Crescent LSP are 21.57 hectares for industrial uses and 4.7 hectares for residential uses respectively.

Upon a review of the built forms of similar lots in the industrial precincts in Perth Airport / Hazelmere and High Wycombe / Forrestfield, it is also assumed around 40%-50% site coverage and average of 1.1 levels for future industrial developments in the Hatch Court precinct. This may result in an estimated industrial gross floor area (GFA) of 94,908-118,635 sqm when fully built out.

For the Stirling Crescent precinct, applying the R25 density and typical lot dimension, this may yield around 115-125 dwellings, subject to design and layout.

The LSP is anticipated to complete in mid-late 2028, while there is currently no timeframe for the developments in the LSP which is generally led by market.

Map 1.3 LSP Concept Framework



Source: City of Kalamunda (2026)

1.3 Regional Context

The Hatch Court and Stirling Crescent LSP is located in the City of Kalamunda and adjacent to the Perth Airport.

The City of Kalamunda is home to an estimated resident population (ERP) of approximately 65,000 residents as of 2025. It grew by 1.7% per annum on average from the last Census in 2021. While this growth rate is below that of the Greater Perth, the City of Kalamunda has generally maintained steady population growth during the past decade.

As an outer area of the Greater Perth, the demographic profile of the City is largely characterised as older, more affluent, more family dominant, but less diverse. The current housing provision is generally homogeneous with the majority being separated houses, resulting in a lower population and dwelling density compared to the Greater Perth average. The home ownership is higher in the City than the Greater Perth average.

Of the resident population aged 15 year and over living in the City of Kalamunda, approximately 29,000 residents were employed as at the 2021 Census. Over half of them were employed in health care and social assistance, construction, education and training, retail trade, mining, and transport, postal and warehousing.

The 2021 Census also reports a total of 16,385 local workers working in the City as of 2021. Over 60% of them were working in transport, postal and warehousing, education and training, construction, healthcare and social assistance, retail trade and manufacturing. The transport, postal and warehousing sector is the largest employing sector in the City. This is more prominent in Forrestfield where the largest existing industrial precinct in the City is located, together with other industrial sectors such as manufacturing and construction.

While there appears to be significant existing industrial precincts in Forrestfield / High Wycombe and Perth Airport / Hazelmere, the available industrial land and floorspace in these precincts and the wider Perth region is extremely constrained. Research indicates that industrial vacancy rates have remained below 2% since around 2022 and take-up over the past 12 months exceeded the 10-year average with new supply not being able to keep up with continuing demand. The demand for industrial land has been led by the transport, postal and warehousing, manufacturing, resource and retail sectors, as observed in the industrial precincts in Forrestfield / High Wycombe and Perth Airport / Hazelmere.

The demand for industrial land and floorspace is anticipated to remain solid during the short-term horizon, with potential increasing requirements toward smaller formats. However, new supply is expected to remain constrained, with limited serviced land and more cautious development sentiment, particularly for core precincts which are expected to remain severely undersupplied. This will continue to put downward pressure on vacancy rate.

Given the current industrial market and development environment, the Hatch Court LSP will play an important role in providing the much-needed developable industrial land adjacent to the Perth Airport / Hazelmere industrial precinct.

The detailed data in relation to the regional context is contained in Appendix 1.

2 Economic Impact Assessment

2.1 Overview

An EIA identifies the key economic impacts of a project, both quantitative and qualitative impacts (where they can be addressed) on the local and regional economy. The key economic indicators assessed include the following:

- Construction impacts, including estimated construction investment, output and related employment,
- Ongoing employment and economic output,
- Residents and expenditure,
- Estimated rates revenue, and
- Broader economic, social and community impacts.

To quantify potential economic impacts from the construction of a project, the Australian Bureau of Statistics (ABS) Input-Output (I-O) tables (2023-24) are used as a basis for calculating the flow-on impacts of initial capital expenditure upon local and wider economy in the construction sector both directly and indirectly. The I-O tables are an economic accounting framework published by the ABS. They show what each industry produces in the Australian economy, how each industry supplies its inputs from other industries to produce output, and who uses the output (e.g. other industries or final consumers).

The I-O multipliers are derived from the ABS I-O tables. They quantify how much economic activity (e.g. economic output and employment) is created across all industries to generate final demand for an industry's output. Output and employment multipliers have been used in this assessment to estimate the above economic indicators, which involve the following three folds in terms of impact in the economy:

- Direct impacts – including economic output and employment created in that industry, such as construction and manufacturing based on the *Australian and New Zealand Standard Industrial Classification* (ANZSIC).
- Indirect impacts: production-induced– which include the amount of economic output and employment required from all industries of the economy to produce the initial investment and all the subsequent induced output, such as manufacturing of building material / equipment, transport, postal and warehousing of material / equipment, professional, scientific and technical services, financial and insurance services, administrative and support services, and other services that support the construction and operation of the proposed development.
- Indirect impacts: consumption-induced – which include the amount of economic output and employment required from all industries of the economy to support the commodities and services that are spent by wage and salary earners to produce the initial investment and the production-induced output, such as, employees' spending their incomes at local supermarkets, retail, accommodation and food services, health and education, and various services.

The I-O multipliers have been adjusted by location quotients for Western Australia (WA) based on the latest employment status by industry as of February 2026.

More information relating to the methodology, glossary of terms and limitations of the quantitative assessment of an EIA is contained in the Appendices 2-4.

To quantify ongoing / operational phase economic impacts upon project completion, several assumptions and benchmarks regarding employment densities and expenditure are applied, together with relevant I-O multipliers (where applicable).

There are also a range of impacts which cannot be quantified. In this case, a qualitative approach is undertaken to assess the impacts likely to be generated by the project on the wider economy

2.2 Construction Impacts

To estimate the likely construction investment for the potential developments in the Hatch Court and Stirling Crescent LSP, the *Rawlinsons Australian Construction Handbook* has been referred to. The 2026 Q1 cost data indicate the following building cost rates for relevant uses:

- Single storey industrial / warehouse: ranging from $1,040/sqm to $1,590/sqm across letting type and owner occupation including low bay and high bay construction;
- Multi-storey ancillary office / amenities: $2,670-$2,875/sqm depending on different building standards;
- One-storey project house: $1,760-$2,045/sqm from basic to medium standard;
- One-storey individual house: $2,545-$3,205/sqm on average for medium standard;
- Two-storey townhouse: $2,890-$3,115/sqm on average for medium standard.

For the Hatch Court industrial precinct, a 10% on the total GFA has been assumed for ancillary offices and amenities, with the remaining being a mix of industrial and warehouses, including low bay and high bay for both letting and owner occupation. This averages $1,435/sqm.

For the Stirling Crescent residential precinct, most of the lots are assumed to be developed into single storey detached houses, with a small portion of up to 10% assumed to be two storeys. An average of 140 sqm GFA has been assumed per dwelling, plus 35 sqm garage, totalling 175 sqm per dwelling. This indicates an average cost of $343,000 per dwelling.

Applying these building costs to the estimated yield within the LSP, this indicates an estimated construction investment of approximately $175.6-$213.1 million should the LSP be fully developed.

Additionally, the City indicated preliminary infrastructure cost of approximately $2 million to up to $6 million for construction of roads, wetlands and other enabling civil infrastructure.

Including both construction of infrastructure and developments, this amounts to a total of $177.6-$219.1 million of estimated construction investment.

Table 2.1 Estimated Construction Investment

Use	Estimated Yield	Average Cost Rate	Total Estimated Cost
Industrial	94,908-118,635 sqm	$1,435/sqm	$136.1-$170.2 M
Residential	115-125 dwellings	$343,000/dwelling	$39.4 -$42.9 M
Infrastructure	-	-	$2.0-$6.0 M
Total	**-**	**-**	**$177.6-$219.1 M**

Source: City of Kalamunda, Rawlinsons Australian Construction Handbook (2026), Macroplan

The initial construction investment will translate into a first round of benefits, realised as increased construction output and employment during the construction phase.

Output multipliers derived from the ABS I-O tables are used for estimating potential economic output of the future development within the construction sector. Output multipliers indicate every $1 of construction investment is likely to generate another approximately $1.2 production-induced indirect economic output and $0.8 consumption-induced indirect output during the construction phase.

The production-induced impacts include the amount of output required within other industries throughout the economy to support the initial construction investment. This may include the following:

- Manufacturing (e.g. building material manufacturing),
- Professional, scientific and technical services (e.g. professional / technical services in planning, design and other services),
- Financial and insurance services (e.g. project financing services),
- Transport, postal and warehousing (e.g. storing and transporting building materials),
- Wholesale trade (e.g. building materials trade),
- Rental, hiring and real estate services,
- Administrative and support services (e.g. government / Council's supporting services, development assessment and approvals), and
- Other industries.

The consumption-induced impacts include the amount of output required within other industries in the economy to support the commodities and services that are spent by workers to produce the initial investment and output. This may include the follows:

- Health care and social assistance (e.g. healthcare and social assistance required for construction workers),
- Public administration and safety (e.g. government / Council's supporting services for everyday living),
- Financial and insurance services (e.g. financial and insurance for construction workers)
- Manufacturing (e.g. manufacturing of daily goods),
- Professional, scientific and technical services (e.g. various population-based services),

- Education and training (e.g. education and training required for construction workers' qualifications and skills),
- Retail trade (e.g. daily goods shopping),
- Transport, postal and warehousing (e.g. transport / daily commuting of construction workers), and
- Other industries.

Based on the output multipliers of the construction sector, the initial construction investment of $177.6-$219.1 million for the potential development in the LSP is likely to create another $220.8-$272.3 million production-induced indirect output and $140.8-$173.6 million consumption-induced output elsewhere in the wider economy, totalling $539.2-$665.1 million construction output (including direct and indirect) to the economy during the construction phase. This is significant compared to the current Gross Regional Product (GRP) of $4,303 million in the City.

It is noted that the I-O multipliers have been adjusted based on location quotients by industry for WA. If building materials and services are sourced locally, it is expected that a large share of this construction output can be captured locally in Greater Perth and WA.

Table 2.2 Estimated Construction Output

Construction Output	Direct	Indirect		Total
$M		Production	Consumption	(D+P+C)
Construction	177.6-219.1	220.8-272.3	140.8-173.6	**539.2-665.1**

Source: ABS 5209, 5220, 5246, City of Kalamunda (2026), Rawlinsons Australian Construction Handbook, Macroplan

The construction of the LSP will also create a significant number of onsite and supporting employment during the construction phase.

Employment multipliers from the ABS I-O tables are used for estimating potential employment effects of the proposed facility during construction phase. Employment multipliers for the construction sector indicate an initial impact at approximately 1.9 construction jobs created per $1 million of investment; plus another 2.5 production-induced indirect jobs and 2.4 consumption-induced indirect jobs elsewhere in the economy during the construction phase. All jobs reported in the ABS I-O tables are measured as full time equivalent (FTE).

Similarly, both the production and consumption-induced employment involves the additional jobs required in other industries throughout the economy to support the initial construction investment and the commodities and services spent by workers.

Based on employment multipliers, the construction of the infrastructure and developments in the LSP is expected to generate approximately 335-414 direct construction FTE jobs on site, plus another 451-556 production-induced indirect FTE jobs and 425-524 consumption-induced indirect FTE jobs elsewhere in the economy, totalling 1,211-1,494 construction related FTE jobs during the construction phase.

Table 2.3 Estimated Construction Employment

Construction Employment	Direct	Indirect		Total
FTE		Production	Consumption	(D+P+C)
Construction	335-414	451-556	425-524	**1,211-1,494**

Source: ABS 5209, 5220, 5246, City of Kalamunda (2026), Macroplan

2.3 Ongoing Employment and Economic Output

As the developments move into operational phase upon completion, it is expected to support ongoing direct and indirect employment at the subject and in the wider economy.

Given the early stage of the LSP and uncertainty of the types of tenants / occupiers of the floorspace, the current industrial employment mix in Forrestfield / High Wycombe has been referred to and benchmarked against. It indicates the tenants / occupiers of the industrial floorspace in the Forrestfield / High Wycombe industrial precinct are anchored by transport, postal and warehousing, manufacturing and construction, followed by wholesale trade, mining and other services (i.e. repair and maintenance), and supplemented by business services, professional services and other supporting services.

For each of these industries, the following average employment densities have been applied based on the *City of Sydney Floor Space and Employment Survey 2022* and other industry employment density guides:

- Mining: around 85 sqm of internal area per worker,
- Manufacturing: around 50 sqm of internal area per worker,
- Electricity, gas, water and waste services: around 45 sqm of internal area per worker,
- Construction: around 85 sqm of internal area per worker,
- Wholesale trade: around 90 sqm of internal area per worker,
- Transport, postal and warehousing: around 150 sqm of internal area per worker,
- Information media and telecommunications: around 35 sqm of internal area per worker,
- Professional, scientific and technical services: around 20 sqm of internal area per worker, and
- Other services: around 45 sqm of internal area per worker.

This results in a weight average employment density of approximately 94 sqm of internal area per worker for industrial uses in the Hatch Court precinct.

Additionally, another 0.05 FTE jobs per dwelling have been assumed to account for potential home-based businesses to be supported by the residential uses in the Stirling Crescent precinct.

Assuming an average building efficiency of 85% for industrial developments, based on the above average employment densities, this indicates the Hatch Court and Stirling Crescent LSP has the capacity to support around 864-1,079 ongoing FTE jobs on site when fully operational.

This direct employment will flow through the economy, realised as indirect employment growth elsewhere in the economy. Employment multipliers derived from the ABS I-O tables in the relevant industries are used for estimating the indirect employment generation. This indicates the onsite direct employment in the LSP may support another 605-756 production-induced FTE jobs and 766-757 consumption-induced FTE jobs elsewhere in the economy. This totals 2,235-2,792 direct and indirect FTE jobs in the local and regional economy.

Table 2.4 Estimated Ongoing Employment

Ongoing Employment	Direct	Indirect		Total
FTE		Production	Consumption	(D+P+C)
Mining	61-76	25-31	48-60	**133-167**
Manufacturing	159-198	79-98	106-132	**343-429**
Electricity, Gas, Water & Waste Services	30-37	40-50	38-47	**107-134**
Construction	134-167	142-178	160-201	**437-546**
Wholesale Trade	77-97	82-103	93-116	**252-315**
Transport, Postal & Warehousing	294-367	193-241	244-306	**731-914**
Information Media & Telecommunications	5-6	4-6	8-11	**18-22**
Professional, Scientific & Technical Services	31-39	21-26	26-33	**78-98**
Other Services	68-85	18-22	39-49	**125-156**
Home based businesses	~6	~2	3-4	**11-12**
Total	**864-1,079**	**605-756**	**766-957**	**2,235-2,792**

Source: ABS, City of Kalamunda (2026), City of Sydney Floor Space and Employment Survey (2022), Macroplan

With the ongoing employment operating onsite in the LSP, this will generate ongoing direct economic output in relevant industries, which will further translate into flow-on impacts in other industries throughout the economy. Based on the output multipliers derived from the ABS I-O tables in the relevant industries, it is estimated that the future onsite employment may create approximately $354.8-$443.3 million direct economic output per annum. The direct economic output will further create another $278.9-$348.5 million production-induced indirect output and $253.6-$316.8 million consumption-induced indirect output per annum elsewhere in the economy. This totals $887.2-$1,108.6 million direct and indirect economic output per annum.

Table 2.5 Estimated Ongoing Output

Ongoing Output	Direct	Indirect		Total
$M		Production	Consumption	(D+P+C)
Mining	17.9-22.4	10.0-12.5	15.9-19.9	**43.8-54.8**
Manufacturing	46.3-57.8	33.0-41.3	35.0-43.8	**114.3-142.9**
Electricity, Gas, Water & Waste Services	15.7-19.6	19.5-24.4	12.4-15.5	**47.6-59.5**
Construction	82.1-102.6	73.5-91.8	53.1-66.4	**208.7-260.9**
Wholesale Trade	47.4-59.3	42.5-53.1	30.7-38.4	**120.6-150.8**
Transport, Postal & Warehousing	115.7-144.7	80.8-101.1	81.0-101.2	**277.6-346.9**
Information Media & Telecommunications	3.1-3.9	2.1-2.6	2.8-3.5	**8.0-10.0**
Professional, Scientific & Technical Services	12.4-15.5	8.7-10.8	8.7-10.8	**29.7-37.2**
Other Services	13.0-16.3	8.2-10.2	12.9-16.1	**34.1-42.6**
Home based businesses	1.1-1.2	0.7-0.8	1.1-1.2	**2.9-3.1**
Total	**354.8-443.3**	**278.9-348.5**	**253.6-316.8**	**887.2-1,108.6**

Source: ABS, City of Kalamunda (2026), Macroplan

2.4 Residents and Expenditure

The residential uses in the Stirling Crescent precinct will provide additional housing supply with increased density to the local area. Based on the current dwelling occupancy of 93.6% and average household size of 2.5 persons in the High Wycombe Statistical Area Level 2 (SA2) as at the 2021 Census, the estimated dwelling yield in the Stirling Crescent precinct has the capacity to accommodate approximately 269-292 residents upon completion.

Based on the average consumption expenditure of $54,082 per capita per annum across Greater Perth, it is estimated these residents living in the precinct may generate up to $14.5-$15.8 million consumption expenditure per year. This includes expenditure in food, liquor and grocery, food catering, apparel retail, household goods, leisure, general retail, retail services and other services, most of which are likely to be contained in the local area.

Table 2.6 Estimated Residents and Expenditure

Dwelling Yield	Households Accommodated	Residents Accommodated	Total Consumption Expenditure
#	#	#	$M
115-125	108-117	269-292	14.5-15.8

Source: ABS 8501, ABS Census 2021, City of Kalamunda (2026), MarketInfo, Macroplan

2.5 Rates Revenue

The improved land use for industrial and residential developments in the Hatch Court and Stirling Crescent LSP will generate increased rates revenue for the City.

The City applies differential rating categories on gross rental value (GRV). The GRV is the total annual rent a property might reasonably be expected to earn each year if it was rented out. This includes associated rates, taxes, charges, insurances, and other outgoings. The GRV is determined by the Valuer-General for all rateable and leviable properties in WA. The valuation assessment is conducted every 3 years for the metropolitan area.

The City indicated that the total current rates revenue collected from the existing properties within the LSP is $126,141.86 in the financial year.

To estimate the likely rates revenue to be generated from the developments in the LSP, the current industrial and residential market rents have been referred to:

- The *Perth Industrial Market Dynamics* Q1 2026 released by Jones Lang LaSalle (JLL) indicates average net rent of $150/sqm per annum for industrial properties in Perth. Assuming 25% allowance for outgoings and other associated charges, this translates into an estimated gross rent of $200/sqm per annum.
- SQM Research indicates the current average weekly rent for houses in High Wycombe is $729 per week as of week ending 20 May 2026. This amounts to an annual gross rent of $38,012 per dwelling.

It is noted that the above assumptions have been made for analysis purposes. The actual GRV is subject to valuation undertaken by the Valuer-General.

Applying the current rate in dollar set by the City to the above estimated rental values, it is estimated that the future developments in the LSP may generate approximately $1.7-$2.1 million industrial and residential rates revenue per annum. This is an increase of approximately $1.6-$2.0 million per annum in rates revenue for the City.

With the ongoing price appreciation and potential increase in rate in dollar, the likely rates revenue to be generated by the development in the LSP upon completion is expected to be higher than the above estimates.

Table 2.7 Estimated Rates Revenue

Uses	Estimated GRV $ p.a.	Rate in Dollar	Estimated Rates Revenue $ p.a.
Industrial	16,134,360-20,167,950	0.087115	1,404,545-1,756,931
Residential	4,371,396-4,751,518	0.070124	306,540-333,195
Total			**1,712,085-2,090,126**
Net Increase			**1,585,943-1,963,985**

Source: City of Kalamunda (2026), JLL (2026), SQM Research (2026), Macroplan

2.6 Broader Economic, Social and Community Impacts

In addition to the quantified economic benefits outlined above, the potential development of the LSP is expected to deliver several economic, social and community benefits to local area and wider regions.

Some key benefits are summarised as follows:

- The potential industrial and residential developments in the LSP will transform underutilised land into productive land for employment uses and additional housing supply.
- The proposed land uses in the LSP align with the strategic directions of the overarching policy (such as the *Perth and Peel @ 3.5 Million*) and the purposes of current zoning.
- The construction and ongoing operation of the LSP will support increased investment and economic activities in various industries at local and regional levels, leveraging its strategic location adjacent to major transport hub and existing industrial precincts.
- The industrial land use will provide much-needed developable industrial land and floorspace to the currently extremely constrained market, supporting continuous business expansion and increasing industrial activities. The lot sizes in the Hatch Court precinct are generally smaller than those in the Perth Airport / Hazelmere precinct. These smaller industrial lots are currently sought after in the market, and also present differentiated offerings to meet diverse market needs.
- Being located with immediate access to major transport infrastructure and existing industrial precincts also stimulates interaction and synergy effect with existing uses, promoting industrial clustering, diversification and productivity.
- The development of the LSP will create additional employment opportunities both during construction and upon completion, enhancing the long-term employment sustainability with further improved employment self-sufficiency and self-containment in the area.
- The industrial uses in the Hatch Court precinct will provide ongoing long-term employment in various sectors including transport and logistics, manufacturing, construction, trades, and repairs and maintenance at a local level, which may also involve apprenticeships, skilled trades and training and technical support opportunities. This will provide local residents and the regional workforce with potential pathways for training, upskilling and career development.

- The indirect social benefits of increased employment opportunities involve broader improvements in wellbeing, stability and social outcomes for individuals, households and community, which lies beyond the direct benefits to the employees supported by a specific project or investment. The indirect social benefits of increased employment opportunities are well documented, and this may include improved financial stability for individuals, families and households, reduction in unemployment and underemployment, reducing social disadvantage, population retention and stability, increased expenditure on local services and facilities, improved mental health and wellbeing, improved community engagement and social cohesion, and decrease in crime rates, etc.

- The residential uses in the Stirling Crescent precinct will provide much-needed additional housing supply amid current nationwide housing shortage, with increased dwelling density and intensified land use compared to the current large lots.

- By providing housing options close to employment, it will improve access to jobs and therefore improve employment containment and population retention.

- The current concept framework of the LSP with the recommended road access will help mitigate adverse amenity impacts on the Stirling Crescent residential precinct.

- The development of the LSP will assist with the achievement of progressive value uplift and upgraded branding to the wider precinct.

Overall, the proposed industrial and residential uses in the LSP address the current undersupply of both uses and will deliver multiple benefits to the economy and community at both local and regional levels.

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ABS Estimated Resident Population (ERP), 2025

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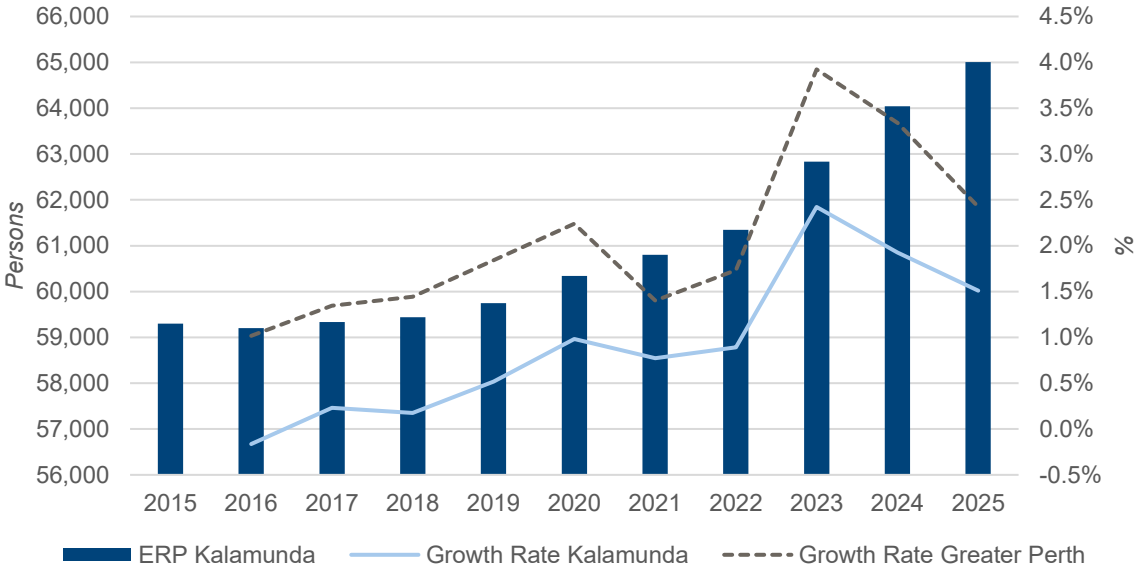
Rawlinsons Australian Construction Handbook, 2026

SQM Research, 2026

Appendices

Appendix 1 Supplementary Data

Figure A1 Population Growth, City of Kalamunda, 2015-2025



Source: ABS

Table A1 Demographic Profile, City of Kalamunda, 2021

Census 2021	Kalamunda	Greater Perth
Estimated Resident Population	58,762	2,116,647
Population Density (persons/ha)	*1.8*	*3.3*
Age Distribution (% ERP)		
0-4	5.6%	6.1%
5-19	19.8%	18.7%
20-24	5.4%	6.3%
25-34	11.0%	14.4%
35-44	13.6%	14.5%
45-54	13.4%	13.0%
55-64	12.3%	11.3%
65-74	10.6%	9.0%
75+	8.3%	6.8%
Median Age (years)	*40*	*37*
Birthplace (% ERP)		
Australian	70.2%	62.3%
Overseas	29.8%	37.7%
Household Composition (% Households)		
Couples with no children	29.4%	26.4%
Couples with children	34.5%	33.2%
One parent families	11.1%	10.8%
Other families	1.0%	1.2%
Lone person	21.8%	24.9%
Group households	2.2%	3.5%
Average Household Size (persons)	*2.6*	*2.6*
Income Levels		
Median Household Income ($ pa)	$97,299	$97,247
Variation From Greater Perth Benchmark	*0.1%*	-

Source: ABS Census 2021

Table A2 Dwelling Profile, City of Kalamunda, 2021

Census 2021	Kalamunda	Greater Perth
Total Private Dwellings	22,627	851,322
Dwelling Density (dwellings / ha)	*0.7*	*1.3*
Dwelling Structure (% dwellings)		
Separate House	93.9%	77.8%
Semi-detached / Townhouse	4.9%	14.2%
Flat / Unit / Apartment	0.4%	7.6%
Other	0.8%	0.3%
Housing Tenure (% households)		
Owned outright	35.2%	28.5%
Owned with a mortgage	45.1%	41.9%
Rented	16.7%	26.6%
Other	3.0%	3.0%
Mortgage Stress		
Median monthly mortgage repayments	$1,907	$1,907
Households with mortgage ≥ 30% of household income	12.7%	13.3%
Rent Stress		
Median weekly rent	$370	$350
Households with rent ≥ 30% of household income	31.0%	29.9%

Source: ABS Census 2021

Table A3 Employed Residents' Profile, City of Kalamunda, 2021

Census 2021	Kalamunda	Greater Perth
Employed Residents	28,979	1,058,890
Resident Workforce	30,369	1,117,807
Employment Rate (%)	*95.4%*	*94.7%*
Participation Rate (%)	*64.1%*	*65.2%*
Industry of Workers (% workers)		
Agriculture, Forestry & Fishing	1.0%	0.7%
Mining	7.6%	6.6%
Manufacturing	5.9%	5.3%
Electricity, Gas, Water & Waste Services	1.1%	1.1%
Construction	9.4%	8.9%
Wholesale Trade	3.7%	2.5%
Retail Trade	8.7%	8.9%
Accommodation & Food Services	5.2%	6.5%
Transport, Postal & Warehousing	7.5%	4.5%
Information Media & Telecommunications	0.8%	0.9%
Financial & Insurance Services	1.7%	2.4%
Rental, Hiring & Real Estate Services	1.4%	1.5%
Professional, Scientific & Technical Services	6.0%	7.8%
Administrative & Support Services	2.8%	3.1%
Public Administration & Safety	5.6%	6.0%
Education & Training	8.9%	8.8%
Health Care & Social Assistance	11.8%	14.1%
Arts & Recreation Services	1.6%	1.8%
Other Services	4.7%	3.9%
Other	4.6%	4.7%
Occupation of Workers (% workers)		
Managers	11.9%	11.9%
Professionals	18.8%	23.7%
Technicians and Trades Workers	17.3%	14.7%
Community and Personal Service Workers	10.8%	12.0%
Clerical and Administrative Workers	14.4%	12.5%
Sales Workers	7.6%	7.9%
Machinery Operators and Drivers	9.3%	7.0%
Labourers	8.2%	8.7%
Other	1.7%	1.7%

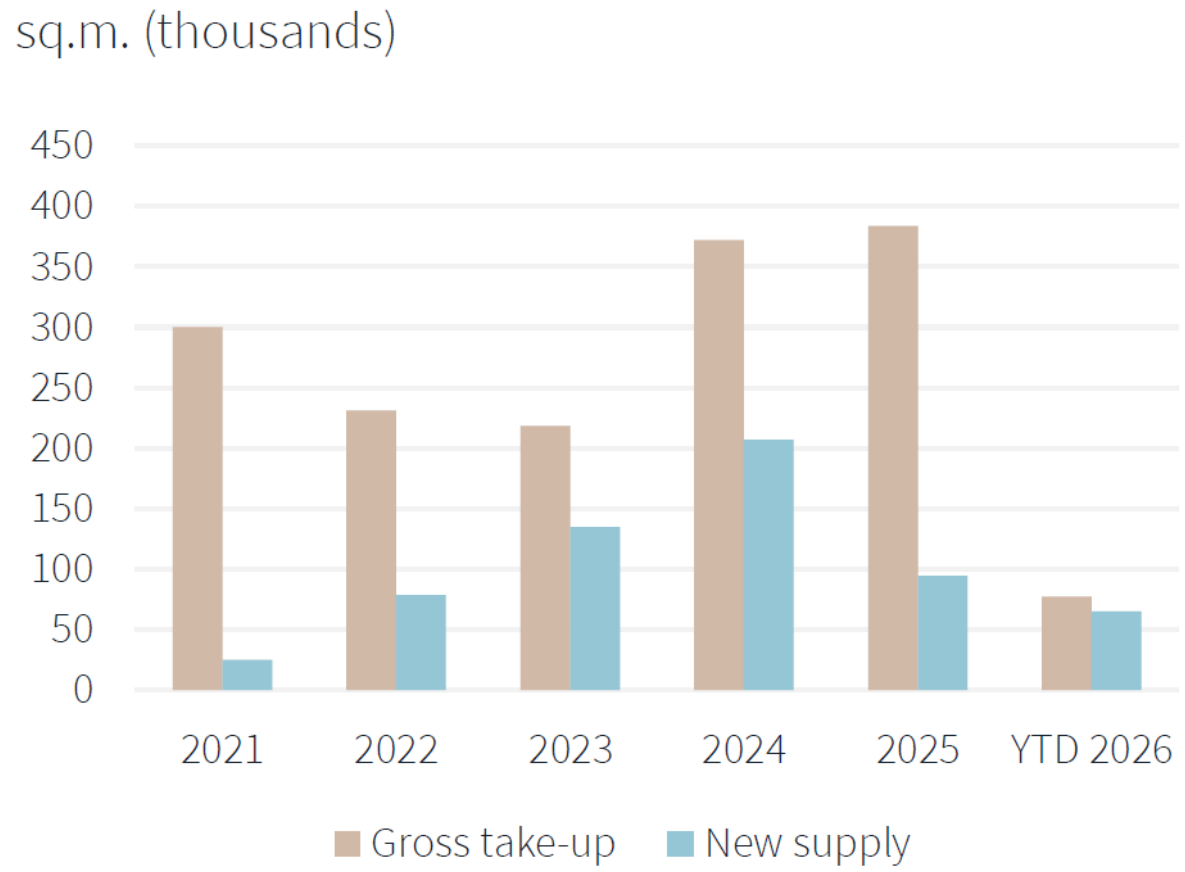
Source: ABS Census 2021

Table A4 Workers' Profile, City of Kalamunda, 2021

Census 2021	Kalamunda	Greater Perth
Workers	16,385	972,128
Job Density (workers/ha)	*0.5*	*1.5*
Job Servicing Ratio (workers/resident)	*0.3*	*0.5*
Industry of Workers (% workers)		
Agriculture, Forestry & Fishing	1.6%	0.6%
Mining	2.9%	4.4%
Manufacturing	8.2%	5.5%
Electricity, Gas, Water & Waste Services	1.4%	1.2%
Construction	8.9%	7.7%
Wholesale Trade	3.8%	2.6%
Retail Trade	8.8%	9.5%
Accommodation & Food Services	6.7%	6.7%
Transport, Postal & Warehousing	13.7%	4.5%
Information Media & Telecommunications	0.4%	0.9%
Financial & Insurance Services	1.0%	2.6%
Rental, Hiring & Real Estate Services	1.9%	1.6%
Professional, Scientific & Technical Services	3.5%	8.2%
Administrative & Support Services	2.9%	2.8%
Public Administration & Safety	2.5%	6.4%
Education & Training	12.0%	9.4%
Health Care & Social Assistance	8.9%	14.8%
Arts & Recreation Services	1.1%	1.8%
Other Services	4.6%	4.0%
Other	5.0%	4.8%
Occupation of Workers (% workers)		
Managers	11.5%	12.3%
Professionals	15.4%	24.6%
Technicians and Trades Workers	16.6%	13.3%
Community and Personal Service Workers	11.4%	12.4%
Clerical and Administrative Workers	12.7%	13.2%
Sales Workers	7.8%	8.4%
Machinery Operators and Drivers	12.7%	5.9%
Labourers	10.2%	8.1%
Other	1.6%	1.6%

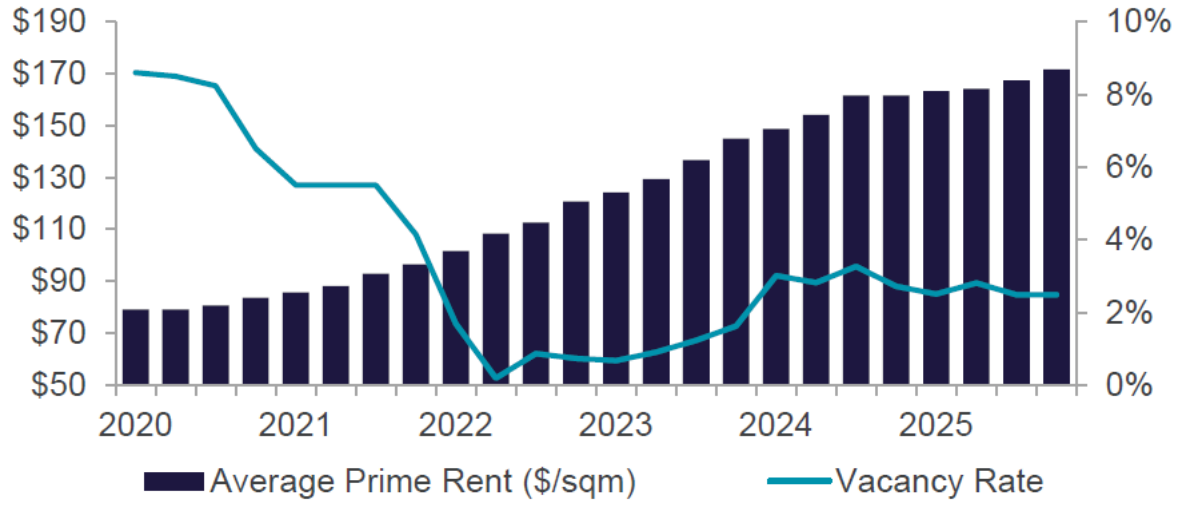
Source: ABS Census 2021

Figure A2 Industrial Floorspace Supply and Demand Trend, Greater Perth, 2021 - 2026 Q1



Source: JLL

Figure A3 Industrial Average Prime Rent & Vacancy, Greater Perth, 2020-2025



Source: Cushman & Wakefield

Appendix 2 Methodology

The Australian Bureau of Statistics (ABS) publishes the Australian National Accounts: Input-Output (I-O) Tables which provide detailed information about the supply and use of products in the Australian economy and the structure of and inter-relationships between Australian industries.

The ABS I-O Tables can translate into a series of I-O multipliers, including multipliers for economic output, employment, income and industry value added. The I-O multipliers are used as a way to estimate the economic impact of a change in demand for a product or service. They can be used to quantify the flow-on effect of a change in the output of an industry on one or more of imports, income, employment or output on individual industries, or in total. They can also be used to show "first-round" changes, or the aggregate effects once secondary effects have flowed through the system.

As an example, for every $1 investment in the construction sector, multipliers can be utilised to calculate the likely direct and indirect impacts on other industries in terms of output, employment, income and/or value added, both production and consumption induced.

The I-O multipliers is a most commonly used tool to quantify the economic impacts (both direct and indirect) relating to policies and projects.

The latest ABS I-O Tables release of FY2022-23 have been used to derive the national I-O multipliers. Further, locational quotients (LQ) based on employment by industry by each State during the same period have been applied, which adjusts the multipliers to a State / regional level.

Appendix 3 Glossary

The following lists a number of glossary of terms relating to an economic impact assessment as indicated by ABS.

Input-output tables provide a detailed dissection of intermediate transactions in an economy, and are thereby a means of describing the supply and use of the products of an entire economic system.

Input-output multipliers are summary measures used for predicting the total impact on all industries in an economy of changes in the demand for the output of any one industry.

Output multipliers for an industry (e.g. construction) are defined as the total value of production by all industries of the economy required to satisfy one extra dollar's worth of final demand for that industry's output.

Employment multipliers correspond to the additional employment (number of persons employed) generated by producing the extra output induced by each of the output effects.

Income multipliers for a given industry are defined as the total value of income from wages, salaries and supplements required to satisfy a dollar's worth of final demand for the output of that industry.

Value added multipliers can be interpreted in the same way as the income multipliers being wages, salaries and supplements plus gross operating surplus required to satisfy a dollar's worth of final demand for the output of an industry.

Initial effects are the initial requirement for an extra dollar's worth of output of a given industry.

First round effects are the amount of output / employment / income / value added required from all industries of the economy to produce the initial one dollar of extra output from an industry.

Industry support effects are the induced output / employment / income / value added from the first round effects (but excluding the first round effect), where the first round output from all industries will induce extra output from all industries, and in turn, these will induce extra output, and so on.

Production-induced effects are the amount of output / employment / income / value added required from all industries of the economy to produce the initial one dollar of extra output and all the subsequent induced output. Production-induced effects include the total of first round effects and industry support effects.

Consumption-induced effects means, to produce the initial and the production-induced output, wage and salary earners will earn extra income which they will spend on commodities produced by all industries in the economy and this spending will induce further production by all industries, where the output / employment / income / value added resulting from this further induced production is the consumption-induced effects.

Total multipliers are the total amount of output / employment / income / value added induced by the requirement from all industries to produce output to satisfy the demand for an extra dollar of output from an industry, and by the spending of the extra wages and salaries earned (from producing the additional output) by householders (consumers). The total multipliers include initial effects, production-induced effects (which include first round effects and industry support effects), and consumption-induced effects.

Appendix 4 Limitations

The following provides a summary of the limitations of I-O multipliers approach for an economic impact assessment as indicated by ABS.

I–O multipliers are most commonly used to quantify the economic impacts (both direct and indirect) relating to policies and projects.

While their ease of use makes I–O multipliers a popular tool for economic impact analysis, they are based on limiting assumptions that results in multipliers being a biased estimator of the benefits or costs of a project.

Inherent shortcomings and limitations of multipliers for economic impact analysis include:

Lack of supply–side constraints: The most significant limitation of economic impact analysis using multipliers is the implicit assumption that the economy has no supply–side constraints. That is, it is assumed that extra output can be produced in one area without taking resources away from other activities, thus overstating economic impacts. The actual impact is likely to be dependent on the extent to which the economy is operating at or near capacity.

Fixed prices: Constraints on the availability of inputs, such as skilled labour, require prices to act as a rationing device. In assessments using multipliers, where factors of production are assumed to be limitless, this rationing response is assumed not to occur. Prices are assumed to be unaffected by policy and any crowding out effects are not captured.

Fixed ratios for intermediate inputs and production: Economic impact analysis using multipliers implicitly assumes that there is a fixed input structure in each industry and fixed ratios for production. As such, impact analysis using multipliers can be seen to describe average effects, not marginal effects. For example, increased demand for a product is assumed to imply an equal increase in production for that product. In reality, however, it may be more efficient to increase imports or divert some exports to local consumption rather than increasing local production by the full amount;

Absence of budget constraints: Assessments of economic impacts using multipliers that consider consumption-induced effects (type two multipliers) implicitly assume that household and government consumption is not subject to budget constraints.

No allowance for purchasers' marginal responses to change: Economic impact analysis using multipliers assumes that households consume goods and services in exact proportions to their initial budget shares. For example, the household budget share of some goods might increase as household income increases. This equally applies to industrial consumption of intermediate inputs and factors of production.

Not applicable for small regions: Multipliers that have been calculated from the national I–O table are not appropriate for use in economic impact analysis of projects in small regions. For small regions multipliers tend to be smaller than national multipliers since their inter–industry linkages are normally relatively shallow. Inter–industry linkages tend to be shallow in small regions since they usually don't have the capacity to produce the wide range of goods used for inputs and consumption, instead importing a large proportion of these goods from other regions.



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