



## BUSH FIRE ADVISORY COMMITTEE MINUTES

Thursday 15 July 2021  
Annual General Meeting – 5.30pm  
Derek Fletcher Training Room, Kalamunda BFB  
20 Raymond Road, Walliston

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### 1.0 OPENING OF MEETING

Chairperson – Cr. John Giardina welcomed attendees.

### 2.0 ATTENDANCE AND APOLOGIES

#### Attending Members:

Cr. John Giardina – City of Kalamunda, Councillor – South East Ward  
Mike Ward – Kalamunda Community Emergency Services Manager  
Tony Moiler AFSM – Captain, Kalamunda Volunteer Fire & Rescue Service  
David Stewart – Captain, Kalamunda Volunteer Bush Fire Brigade  
Warwick Martindale – Local Manager State Emergency Service  
Brian McGinley – Foreman, Kalamunda Volunteer Fire & Rescue Service

#### City Staff:

James Wickens - Manager Environmental Health and Community Safety

#### Visitors:

Steve Lake – Fire Control Officer, Kalamunda Volunteer Bush Fire Brigade  
Andrew Cove – Bushfire Mitigation Manager, Water Corporation

#### Apologies:

Sean Winter – Deputy Chief Bush Fire Control Officer  
Michael Pasotti – DBCA – Fire Coordinator  
Paul Southam – DFES District Officer, South East  
Peter Varelis – City of Kalamunda, Director, Development Services

#### Minutes:

Andrew Haselden – Lieutenant, Kalamunda Volunteer Bush Fire Brigade

### 3.0 CONFIRMATION OF MINUTES

Moved: Tony Moiler

Seconded: David Stewart

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**4.0 MATTERS ARISING FROM PREVIOUS MINUTES**

Nil.

**5.0 CORRESPONDENCE IN/OUT**

5.1 Correspondence in, Draft Resolution – Light Tanker Aging Fleet

**6.0 GENERAL BUSINESS**

6.1 Volunteer Statistics 2020/21 – CESM, Captains, (Attachment #1)

Mike Ward discussed the summarised turnout statistics for the Kalamunda Volunteer services. Mike Ward notes that it was a busy year for both fire and natural hazard responses. Several calls can be attributed to the current severe weather conditions, Cyclone Seroja as well as the Wooroloo and Thomas Road fires earlier in the year,

David Stewart discussed the detailed breakdown of the 12,211 volunteer hours undertaken by the Kalamunda Volunteer Bush Fire Brigade, the breakdown of these hours is below.

KVBFB total hours 2020/21

Type	Total Hours
Training	4673:18
Incidents	2710:21
Hazard Reduction	1724:20
Maintenance	763:47
Admin	396:37
Meetings	1130:14
Bush Fire Ready	297:33
Community Engagement	346:07
Other	169:11
<b>Total</b>	<b>12211:28</b>

6.2 Pickering Brook Volunteer BFB Station Update – CESM (Attachment #2)

Mike Ward provides an update on the proposed Pickering Brook fire station. BFAC’s recommendation to conduct a feasibility study into a new fire station in Pickering Brook was presented to Council and was accepted. The provision of a consultant was taken to market and an engagement was made to undertake this study. A community engagement and information session was held in Pickering Brook on the 1<sup>st</sup> of June 2021. Approximately thirty-five people attended, a survey was also conducted to capture residents who could not attend. There were twenty respondents to this survey and the feedback provided was generally supportive. Mike Ward advised that there is also another separate proposal and

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review process underway in the area about short term accommodation and community hub. Mike Ward noted that he did not believe that this proposal would have an impact on the fire station proposal. The fire station feasibility study report is being finalised and will be distributed shortly to BFAC members; any comments are requested to be returned to Mike Ward by the end of July 21. A briefing is anticipated to be made to the City's leadership team in August with a presentation on key outcomes to Council in September 2021,

Brian McGinley queried the estimated timeframe around the establishment of this facility. Mike Ward advised that he estimated completion within a couple of years however noted that there were several hurdles to overcome regarding the acquisition and assignment of the land and other community factors.

### 6.3 Aging Bushfire Brigade Fleet – Cr. Giardina – (Final Resolution, Attachment #3)

A draft resolution was tabled to the committee with background provided by Cr. Giardina on the aging fleet of light tanker fire appliances allocated to the Kalamunda Volunteer Bush Fire Brigade. These Light Tankers are past their nominated replacement date, travel long distances under load and run at idle for extended hours. The tabled draft resolution calls for the following,

*Draft Resolution: That the Bush Fire Advisory Committee (BFAC): RECOMMEND Council to REQUEST the Chief Executive Officer to write to the Department of Fire and Emergency Services Commissioner and the Mayor write to the Minister for Emergency Services relaying the concerns regarding the age of the Light Tanker fleet, and to request a timeline for replacement of these appliances.*

Cr. Giardina advised that since providing this draft resolution, he has discussed this concern with MP. Matthew Hughes MLA. Following this discussion, Cr. Giardina proposes that the resolution is amended to include distribution to Mr Hughes, in addition to previously recommended Minister for Emergency Services; Racing and Gaming; Small Business & Volunteering, the Hon. Reece Whitby MLA, and the Fire and Emergency Services Commissioner, Commissioner Darren Klemm AFSM.

Cr. Giardina seeks comment from the gathered members.

David Stewart advises that Kalamunda BFB Light Tanker 1 experienced a total engine failure on route to the early outbreak of the Wooroloo fire, delaying the Brigade's response to this fire and reducing the Brigades response capacity until a loan vehicle was sourced. David Stewart also noted that two of the current Light Tankers are not equipped with air bags, a risk that would be alleviated by the timely replacement of these appliances. David Stewart

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advised that while all Light Tankers are now past due, two of the three heavy appliances are either past or coming due for replacement also.

Tony Moiler discusses that the roll out of the emergency services levy (ESL) had initially bought the appliances up to date but is possibly now stalling due to a backlog of appliances. Tony Moiler noted that this appears to be an issue across the VBFB and VFRS services and believes that the DFES "Future Fleet" project has delayed the roll out of the newer trucks.

Warwick Martindale agrees and notes that the SES fleet of troop carriers are about four years overdue for replacement due to the new replacement utility vehicle being finalised to replace them. Tony Moiler confirms that in his opinion, the development of new vehicle platforms generally appears to have frustrated the process across the services.

Brian McGinley asks Mile Ward whether there is a definitive standard or direction from DFES in regards of its vehicles requiring airbags. Mike Ward advises that there is not, providing the vehicle was not manufactured with them. Mike Ward confirmed that the Career Fire Fighters Union has rejected its members operating Light Tankers without fitted airbags.

James Wickens proposed that while the Light Tankers may not need airbags, if the tankers were replaced on schedule, the replacement vehicles would be supplied with them, improving Volunteer safety for those operating the appliance. This can be considered as a safety risk due to the lower standard of safety presented while the replacement is delayed.

Steve Lake thanks Cr. Giardina for his assistance with the background document and resolution. Steve Lake proposes that the Committee considers adding the manufacture date for the vehicles and the concern regarding a lack of air bags to the amended resolution.

Andrew Cove advises that with the new Occupational Safety and Health harmonisation laws, the responsibility for the safety of workers is now borne across a much wider gambit of "persons conducting a business or undertaking" (PCBU's) which should be seriously considered by the Council and DFES as a part of this process.

Tony Moiler proposes that as part of further discussions, DFES are requested to provide their fleet replacement programme.

A query is raised by Brian McGinley around ESL allocation to the City emergency services. Mike Ward notes that the ESL covers a large state and several different services.

James Wickens asks whether it is worth engaging with the Bushfire Volunteers Association, Cr. Giardina agrees that this issue should be as inclusive as possible. Tony Moiler notes that the new Minister for Emergency Services has been very open to comments and discussions.

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Andrew Cove advises that he sits on a DFES safety committee and asks if the BFAC is happy with him raising these concerns at high level. It is agreed by the gathered members that this is a good idea.

Steve Lake advised that he had discussed this issue with the City of Mundaring while acting in the Kalamunda CESM role. He advised that the feedback received was that they are experiencing similar issues with replacing their fleet. Steve Lake noted that their cause had however been frustrated by inconsistencies in the details of the vehicles submitted. Steve Lake proposes that for this reason, he believes this resolution should be kept short and factual.

An updated resolution is proposed as follows,  
**RECOMMEND Council to REQUEST the Chief Executive Officer to write to the Department of Fire and Emergency Services Commissioner and the Mayor to write to the Minister for Emergency Services and the Member for Kalamunda relaying the concerns regarding the age of the Light Tanker fleet, and to request a timeline for replacement of these appliances.**

Cr. Giardina notes that this is about volunteers and their wellbeing and that with the agreement of BFAC, he may update the recommendation before it goes to council.

David Stewart moved a motion to accept the updated resolution for presentation the City Council, the motion is seconded by Tony Moiler. Voting Commenced, all members were unanimously in favour of the motion. – Motion Carried.

**ACTION – CR. Giardina to action the presentation of the agreed recommendation to Council.**

#### 6.4 Community Safety at the City – J Wickens (Attachment #4)

James Wickens presents a season summary of bush fire compliance in the city.

High level summary,

- o 172 permits to burn issued,
- o 40 illegal burns, down from 50,
- o Variations were reduced after a \$150 fee was introduced for late amendments.
- o Outstanding work orders have reduced.
- o Total work orders issued were marginally down,

Cr. Giardina queries whether there has been pushback from residents in the Gooseberry Hill area. James Wickens agrees this area does have a high level of pushback but also notes that there is a higher level of non-compliance around the foothills suburbs. This is being worked

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on through community engagement and education at this stage. Most work orders issued are for non-compliant fire breaks and grasses.

#### 6.5 Water Corporation Mitigation – Andrew Cove. (Attachment #5)

Andrew Cove provides a presentation on the Water Corporation's 2021 bush fire mitigation and burns programmes.

A query is raised regarding whether the Water Corporation are bound to follow any local laws regarding risk reductions. Andrew Cove advises that parcels of Crown land are not subject to the same laws as privately owned or privately acquired Water Corporation blocks.

Mike Ward asks if the Water Corporation Bush Fire Risk Assessment Tool "BRAT" system ties in with the City's Bush Fire Risk Management System "BRMS". Andrew Cove advises that their system is designed to assess individual parcels of land rather than an area wide assessment. Water Corporation advises the LGA's on completion of its mitigation works and their expectation is that the individual LGA's update their records and systems based on this advice.

#### 6.6 BFAC Terms of Reference – Cr. Giardina (Attachment #6)

Cr. Giardina advises that the Bush Fire Advisory Committee Terms of Reference (TOR) are due for review this calendar year. The current TOR are attached to these minutes and members are asked to review them prior to the September 21 BFAC meeting.

**ACTION – Andrew Haselden to add an agenda item "BFAC Terms of Reference Review" to the September 2021 BFAC agenda.**

### 7.0 AGENCY UPDATE

#### 7.1 DFES

Mike Ward advises that there are no updates to table.

### 8.0 NEXT MEETING

8.1 1730hrs Meeting commencement, Next Meeting for 2021, Thursday the 16th of September 2021, Derek Fletcher Training Room, Kalamunda Volunteer Bush Fire Brigade / State Emergency Service, 20 Raymond Road, Walliston.

### 9.0 CLOSURE

9.1 Meeting closed at 1926hrs

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**Attachment #1 – Volunteer Statistics 2020/21**

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 Department of **Fire & Emergency Services**



## Incident Attendance Report

### No. of Incidents Attended

This report shows the number of Incidents attended in any capacity.  
 It does not count multiple turnouts to the same Incident.  
 HAZMAT incidents are included, but not displayed.  
 Note: Bushfire (lge) is a fire greater than 1 hectare

Dates: 01/07/2020 to 30/06/2021

	<b>2020/2021</b>	<b>Total</b>
<b>KALAMUNDA BFB</b>		
False Call - Good Intent	12	12
Fire - Bushfire (lge)	8	8
Fire - Bushfire (sml)	16	16
Fire - Other/Rubbish/Vehicle	7	7
Fire - Structure	2	2
Hazardous Situation	2	2
Road Crash & Rescue	2	2
<b>Total:</b>	<b>49</b>	<b>49</b>

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Dates: 01/07/2020 to 30/06/2021

	2020/2021	Total
<b>KALAMUNDA SES</b>		
Called Off - No Attendance	4	4
Fire Support	4	4
Natural Hazard - Storm	28	28
Rescue - Other & Medical Assist	1	1
Rescue - Vertical	1	1
Search - Ground	5	5
Search - Water	1	1
Temporary Building Repair	2	2
<b>Total:</b>	<b>46</b>	<b>46</b>

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Dates: 01/07/2020 to 30/06/2021

	2020/2021	Total
<b>KALAMUNDA VFRS</b>		
Called Off - No Attendance	4	4
False Alarm - System Initiated	16	16
False Call - Good Intent	28	28
False Call - Malicious	2	2
Fire - Bushfire (lge)	5	5
Fire - Bushfire (sml)	11	11
Fire - Other/Rubbish/Vehicle	18	18
Fire - Structure	5	5
Hazardous Situation	10	10
Rescue & Medical	12	12
Road Crash & Rescue	14	14
<b>Total:</b>	<b>125</b>	<b>125</b>

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Dates: 01/07/2020 – 30/06/2021	No. of Incidents	Volunteer Hours
<b>Kalamunda SES – Supplemental Information</b>		
Requests for Assistance		
Called Off – No Attendance	4	
Storm	28	1265
Rescue/Medical Assist	2	34
Rescue – Vertical	1	3
Search		
Within City of Kalamunda	1	137
Outside City of Kalamunda	5	174
Temporary Building Repairs	2	7
Fire Support		
Outside City of Kalamunda	4	342



**Attachment #2 – Pickering Brook Volunteer BFB Station Update Presentation**

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# Proposed Pickering Brook Volunteer Bush Fire Brigade Fire Station Feasibility Study





## BFAC Recommendation for a Proposed Pickering Brook Fire Station

Following the recommendation from BFAC, the council at an ordinary council meeting passed the following,

1. Support further feasibility studies and investigations into the establishment of the Pickering Brook Bush Fire Brigade and Pickering Brook Fire Station.
2. Support further feasibility studies and investigations being undertaken into a potential station at the George Spriggs Reserve.
3. Support undertaking engagement with the Pickering Sports Club on the potential for a station at the George Spriggs Reserve.



# Proposed Pickering Brook Fire Station Feasibility Study

Funding, Terms of reference and quotations from the emergency management industry to provide a feasibility study was completed with Executive Risk Solutions been successful and appointed on 9 April 2021.

Study to be finalised by 30 June 2021



## Community Information session 1 June 2021

A vital element of the feasibility study was to receive community feedback.

A community information session was held on 1 June at the Pickering Brook Sports Club.

Community consultation was paramount with the following communication methods employed;

- Letter drop to 222 local properties;
- Pickering Brook Sports Club – 223 email contacts;
- Pickering Brook Heritage Association contact list;
- Local school P&C newsletter;
- City of Kalamunda social media mediums;
- Two electronic variable message boards.





# Community Information Session



## Community Information session 1 June 2021

A total of 26 community members signed the attendance register at the community session however it should be noted that approximately 8-10 individuals were in attendance who had not signed the register.

People that could not attend were given a survey to complete with 2 questions asked, been;

- Question 1: Are you supportive of the proposed Pickering Brook Volunteer Bush Fire Brigade Fire Station?
- Question 2: Are you supportive of the proposed location of the Pickering Brook Volunteer Bush Fire Brigade Fire Station at the George Spriggs Reserve?



# Preliminary community information session results

Based on the approach to the review, the following comments were made:

*Proposed Fire Station analysis:*

Supportive Comments
Supportive result: 18 results (94.7%)
Increase response time for incidents within the Community
Reduction in potential catastrophic bushfires within district
Supports the proposed developments of the area in the future
Community safety to homes and lives, protection of the water catchment areas and flora and fauna
No 'brainer'
Past fires have impacted the community and a local station will assist in protecting the community
Undecided Comment
Undecided result: 2 results (5.26%)
Unsure as to the location and impact to the quality of life and future lifestyle.

*Proposed Fire Station location – George Spriggs Reserve analysis:*

Supportive
Supportive results: 17 results (89.4%)
Location has infrastructure such as power, sewer, and part of the community hub
Centralised location with an area that is currently idle and unutilised
Will bring the community together in time of need
Access to Canning Mills, Carmel, Karragullen
Supports response times locally
Undecided Comment
Undecided result: 2 results (10.5%)
Unsure of proposed location and impact to quality of life and lifestyle
Would like to see the Fire Station located on the main road of Pickering Brook by the service station.



## Where to from here

- Internal Review of study with comments on the report – July 2021.
- Study to be reviewed by BAFC committee with comments from the report by 31 July 2021.
- Briefing to the Council's Leadership Team with outcomes from the Study and Costing of project, City's and DFES financial commitments by August 2021.
- Briefing to Council on the key outcomes – September 2021.
- Report to council with recommendation to progress further detailed design to understand cost associated with earthworks and site works to bring it to development standard – TBA.
- Engage with DFES on final recommendations from council to understand timing of grant applications – TBA.
- Assimilate any outcomes into capital works program for next/future budgets – TBA.





# Overview

This Information Session for the proposed  
Pickering Brook  
Volunteer Bush Fire Brigade Station  
and its location at the  
George Spriggs Reserve





# Welcome



This Information sessions aims to:

- investigate the planning and economic development-related opportunities, constraints and options to revitalise the Pickering Brook townsite and surrounding area.
- provide face-to-face opportunities for landowners and the community to have their say about the proposed Pickering Brook Volunteer Bush Fire Brigade Station.
- balance the aspirations of local government, landowners and community stakeholders in regards to infrastructure capacity, bushfire risks, the environment and the needs of a Volunteer Bush Fire Brigade Station.
- consider any implications for the proposed Volunteer Bush Fire Brigade Station and its location at the George Spriggs Reserve.



## Future Town expansion

A Working Group investigated future land use for 80ha of rural land located west of the townsite which is identified as a Planning Investigation Area in the Perth and Peel@3.5million – North-East Sub-regional Planning Framework (2018).

This Working Group has recommended support for a townsite expansion. The recommended expansion area relates to approximately 14ha of land that is estimated to potentially yield up to 44 additional dwellings and 131 additional residents, including 14 primary school-age children.





# Proposed Pickering Brook Townsite Expansion

# Changing community with a focus on tourism







IntraMaps	Pickering Brook Sports Club	Map Created: 24/09/2020
	<p><b>Disclaimer:</b> The City of Kalamunda accepts no responsibility for the accuracy of this image or the results of any actions taken when using this image. Based on information provided by and with the permission of the Western Australian Land Information Authority. © Landgate (2017)</p>	<p>Scale: 1:2405</p> 

# George Spriggs Reserve

15



# Two Bay Bush Fire Brigade Fire Station





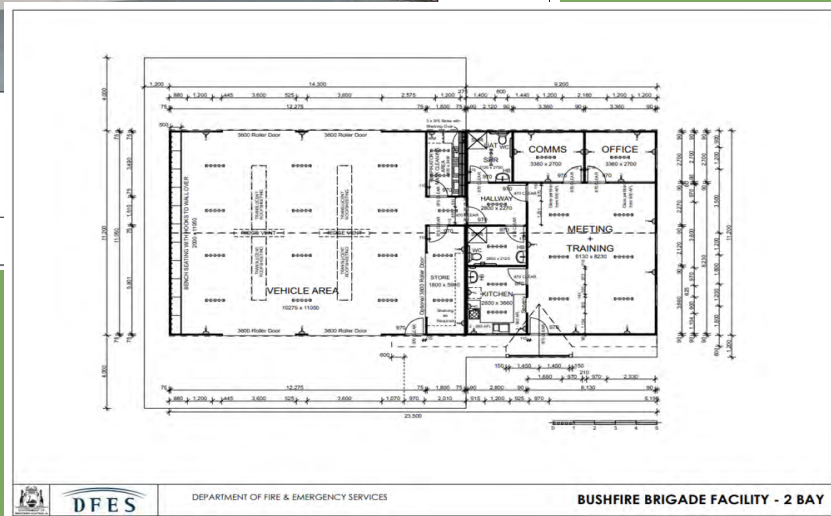


INDICATIVE METAL CLAD OPTION



DFES

DEPARTMENT OF FIRE & EMERGENCY SERVICES



# Station Design



## PICKERING BROOK VOLUNTEER BUSH FIRE BRIGADE



**Attachment #3 – Aging Bushfire Brigade Fleet Resolution**

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## Concerns Regarding Ageing City of Kalamunda Bush Fire Brigade Light Tanker Appliances

### Background

The City of Kalamunda Bush Fire Brigade (BFB) appliances are funded through the Local Government Grants Scheme (LGGS) Statewide Resource Replacement Program.

Two of the BFB light tankers were manufactured in 2007, and the latest was manufactured in 2010. Light Tanker appliances are due for new replacement every 10 years<sup>1</sup> of service.

The two older appliances are not equipped with airbags or anti-lock braking system (ABS), which poses a concern for volunteer safety when driving.

When responding to the Wooroloo incident on February 1, 2021, Kalamunda Light Tanker 1 suffered a total engine failure due to the No.2 injector driver Electronic Driver Unit causing the engine to fail. The appliance required a full engine replacement and was out of service until June 1, 2021. The cost of the repair to the appliance was in excess of \$25,000.

The Department of Fire and Emergency Services (DFES) are due to offer the City of Kalamunda the scheduled appliance replacement program for 2021/2022 together with an indicative program for the four-year forward estimates period. This offer is to be done in consultation with the City of Kalamunda<sup>2</sup>.

DFES acknowledges there may be a delay in the delivery of appliances that are due (or overdue) for replacement<sup>2</sup>, however this statement lacks detail and assurance in terms of a timeline or prioritisation.

For the City of Kalamunda to meet its responsibilities of ensuring the safety of volunteers responding to emergency incidents, the City of Kalamunda needs more opportunity to better consult with DFES on the agreed timelines of the replacement of fire appliances funded by LGGS.

### Resolution:

That the Bush Fire Advisory Committee (BFAC):

- RECOMMEND Council to REQUEST the Chief Executive Officer to write to the Department of Fire and Emergency Services Commissioner and the Mayor to write to the Minister for Emergency Services and the Member for Kalamunda relaying the concerns regarding the age of the Light Tanker fleet, and to request a timeline for replacement of these appliances.**

<sup>1</sup> [LGGS Manual](#) Page 14 – BFB Appliances

<sup>2</sup> [LGGS Manual](#) Page 13 – Statewide Resource Replacement Program





**Attachment #4 – Community Safety at the City Presentation**

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Community Safety –  
Fire and Emergency Management

# Bushfire Compliance Season Summary 2020/2021





PURPOSE

- Provide a comprehensive summary of bushfire data.
- Expand on the City’s prior summary to include all bushfire compliance outcomes.

AIM

- Analyse data collected throughout the season.
- Develop stronger engagement plans, targeted communication and process reviews.
- Examine COVID-19 impacts to the season.

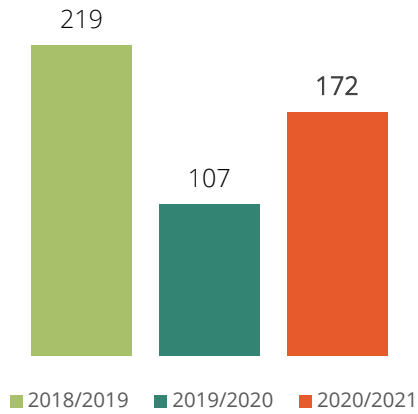
SCOPE

- Permits to burn (private property only).
- Illegal burning activity (private property only).
- Fire hazard assessments.

CONTEXT

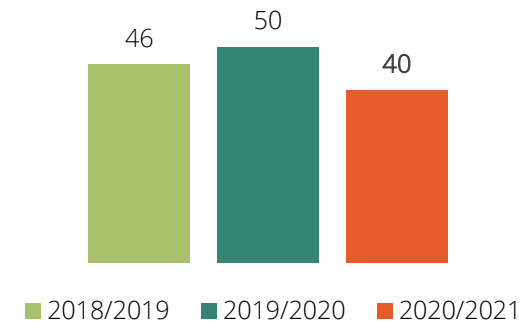
- Kalamunda Advancing Strategic objectives
- National Emergency Risk Assessment Guidelines [NERAG]
- DFES Strategic Control Priorities 2016-2028

## PERMITS TO BURN (private property only)



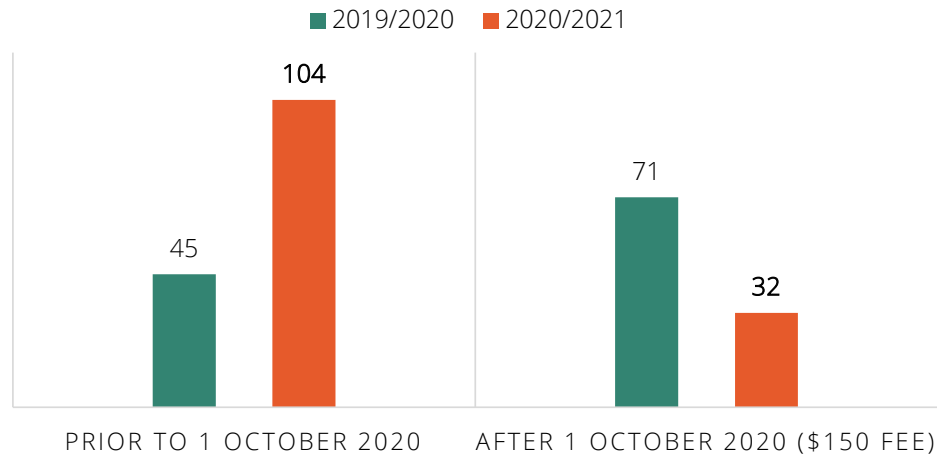
Restricted Burning Period	2018/2019	2019/2020	2020/2021
October	93	54	79
November	32	10	44
April	28	0	22
May	66	43	27

## ILLEGAL BURNS (private property only)



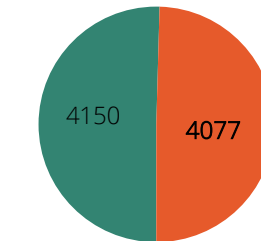
		2018/2019	2019/2020	2020/2021
<b>Restricted Burning period</b>	October	6	6	7
	November	9	5	6
<b>Prohibited Burning Period</b>	December	6	1	4
	January	4	0	1
	February	3	1	3
	March	3	2	3
<b>Restricted Burning Period</b>	April	8	12	8
	May	7	23	8

## VARIATIONS

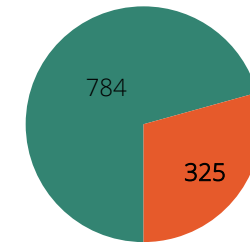


## ASSESSMENTS

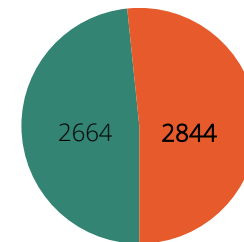
■ 2019/2020 ■ 2020/2021



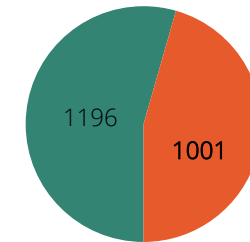
Total fire hazard assessments conducted.



Work orders outstanding (no follow ups conducted).



Total properties deemed compliant at the time of assessment.



Total work orders issued.

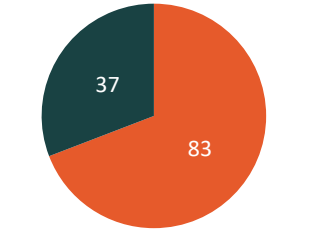
	Assessments completed	Compliant outcome	Work orders issued	Infringement issued			
<b>Eastern Rural District</b>							
<b>Pickering Brook</b>	283	213	75.2%	51	18%	5	1.7%
<b>Pauls Valley</b>	61	37	60.6%	12	19.6%	1	1.6%
<b>Hacketts Gully</b>	17	14	82.3%	2	11.7%	0	0
<b>Bickley</b>	294	243	82.6%	39	13.2%	3	1%
<b>Carmel</b>	297	244	82.1%	33	11.1%	5	1.6%
<b>Piesse Brook</b>	104	73	70.1%	25	24%	3	2.8%
<b>Canning Mills</b>	14	8	57.1%	1	7.1%	0	0
<b>Escarpment</b>							
<b>Gooseberry Hill</b>	631	404	64%	212	33.5%	5	<1%
<b>Kalamunda</b>	627	522	83.2%	77	12.2%	10	1.5%
<b>Walliston</b>	114	100	87.7%	12	10.5%	2	1.7%
<b>Lesmurdie</b>	280	197	70.3%	71	25.3%	6	2.1%
<b>Foothills</b>							
<b>Maida Vale</b>	339	195	57.5%	122	35.9%	10	2.9%
<b>High Wycombe</b>	241	157	65.1%	73	30.2%	5	2%
<b>Forrestfield</b>	423	274	64.7%	123	29%	12	2.8%
<b>Wattle Grove</b>	372	164	44%	153	41.1%	17	4.5%



Non-Compliance	Total Work Orders Issued	
<b>Fire Breaks</b>	399	39%
<b>Fuel load (over 8 tonne p/ha)</b>	245	24.4%
<b>Grasses</b>	505	50.4%
<b>Asset Protection Zone</b>	135	13.4%
<b>Gutters</b>	299	29.8%
<b>Additional works</b>	318	31.7%

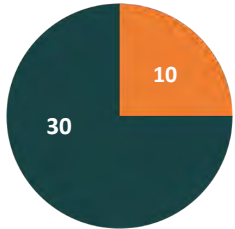


# ENFORCEMENT



Infringements issued under s.33(3)

2019/2020 2020/2021



Infringements issued under relevant Bush Fire Act sections

Cautions Infringements





**Attachment #5 – Water Corporation Mitigation Presentation**

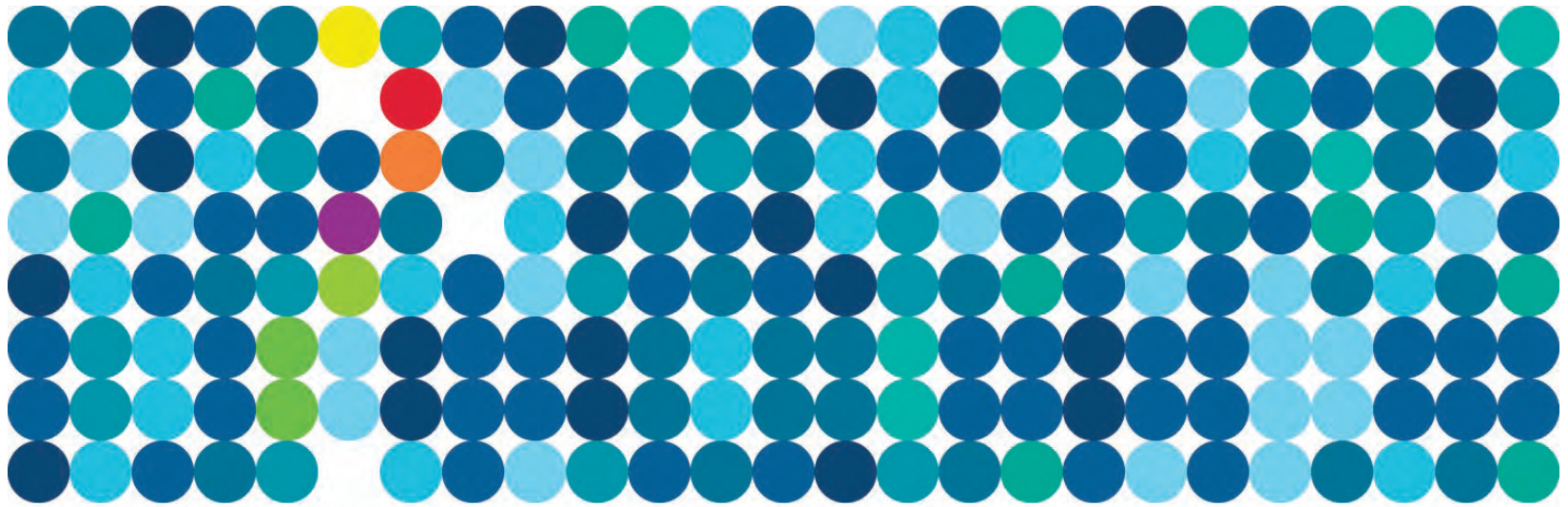
[kalamunda.wa.gov.au](http://kalamunda.wa.gov.au)

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ABN 60 741 095 678





# Bushfire Mitigation

2021 Update



# Team Members



- Andrew Cove - Chief BMO - Jandakot VBFB, Airport Fire Officer
- Rob Annells - Deputy Chief BMO - Asset Protection
- Ryan Turnbull - Deputy Chief BMO - Environment Spatial
- Evan Lawrence - BMO - Wanneroo VBFB Captain
- Erwan Crozetiere - BMO - Broome VBFB Ex-Captain
- Ben Coles - BMO - Broome VBFB Ex- 1<sup>st</sup> LT
- Antonia Scott - Support Officer



## Aims of the Program



- Assess the fuel loads on Water Corporation (WC) managed land that poses a risk to our assets or RUI assets
- Prioritise land where bushfire risk impacts are Extreme or Very High
- Design and Coordinate gap treatments to mitigate the risk of bushfire



# Tenure Overview



Water Corporation is a significant land owner / manager across the state >840,000 ha

Tenure	Number of Sites
Total tenure	>34,000
Land without infrastructure (LWI)	>2,900
Land with assets (LWA)	>30,600
Assets not on WC Land	>1,225

## Scope of the Program



- Scope is focused on Extreme and Very High risk sites extracted from the WC Bushfire Risk Assessment Tool (BRAT)
- Sites identified form a 5 Year Plan.
- Once assessed, a 2 year Schedule of works will follow
- New program commenced assessment phase in 2020.

# 5 Year Plan Delivery



## Bushfire Mitigation - Workflow





# B.R.A.T.



**WATER CORPORATION**
Reset Filters (CTRL + Click)

## Bushfire Risk Assessment Tool - Overall Risk Level

### Bushfire Risk Level Summary - Number of Sites

**Risk**

- Extreme
- Very High

### Bushfire Land Type Summary - Number of Sites

**Type**

- E- easement
- A- acquisition
- L- lease from ...
- S- section 70a
- SBA- service b...

### Summary Statistics

**Extreme**  
1291  
Land Count

**Very High**  
1158  
Land Count

### Filters

Facility FL: All

Facility Name: All

Land FL: All

Facility - Max Criticality: All

UID: 1

### Land count

2449

Region, District: All

Risk: Multiple selections

Land or Asset: All

Land Type: All

### Location Map of Bushfire Risk

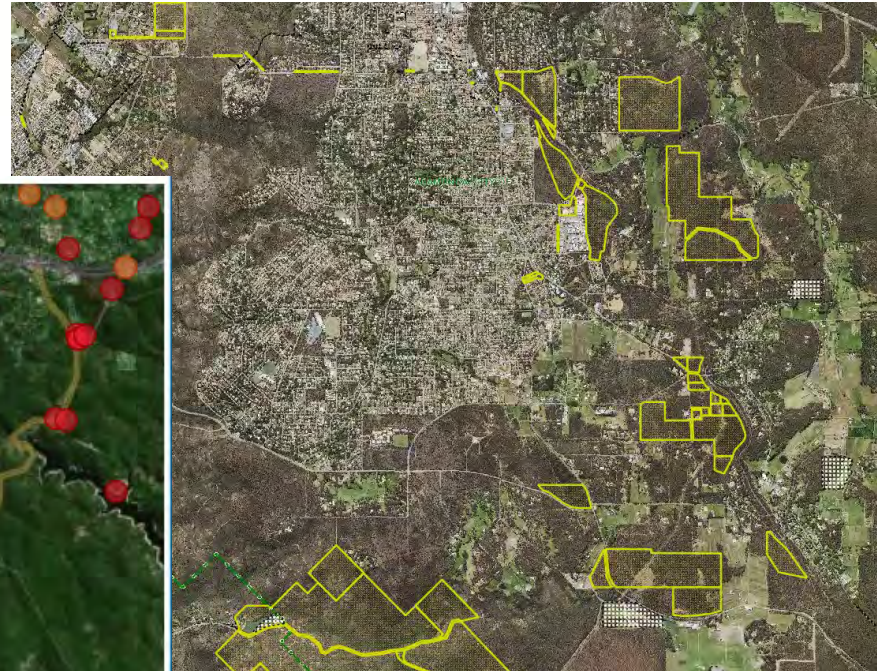
**HINTS:**

- Click on filters on the right hand side to see bushfire risk levels in your region.
- Hold Ctrl while selecting to choose multiple filtering options.
- Click anywhere on the screen to reset data.
- You can also filter by clicking on any of the graphics.

UID	Land or Asset	Region	District	Land FL	Land Name	Land Type	Risk
19005	WC land with asset	GOLDFIELDS & AGRICULTURAL	AG West	W0021016	A6739 RESERVE 2909	A- acquisition	Extreme
10867	WC land without asset	PERTH	Perth North	W0007946	A4215 LOT 50 MUNDARING WEIR ROAD	A- acquisition	Extreme
12975	WC land with asset	NORTH WEST	West Pilbara			S- section 70a	Extreme
18584	WC land with	GREAT SOUTHERN	South Coastal	W0023864	A7106 RESERVE 29445	A- acquisition	Extreme
<b>Total</b>							

User Documentation can be found at: <https://nexus.watercorporation.com.au/otcs/cs.exe/app/nodes/81126028>

# B.R.A.T. - Kalamunda





# Synergies - DBCA 5yr Burn Program



# Gap Treatments



- Mechanical works
  - Pruning
  - Slashing
  - Clearing
  - Mulching
  - Access (gates / fencing etc)
- Hazard Reduction Burns
- Chemical spraying
- Dumped rubbish removal



## What have we done so far...?



Hazard Reduction Burns = 141 completed

Area of HRB's = 8300 ha

Strategic Access Tracks Installed = 25 km

Fencing Installed = 20 km





# Site 073

## Brigita Road Kalamunda

Risk Reduced from High 3A to Low 5B



*Hazard  
Reduction  
Burn Area  
in Red*



**BEFORE - 11 t/ha of Leaf Fuel Load**



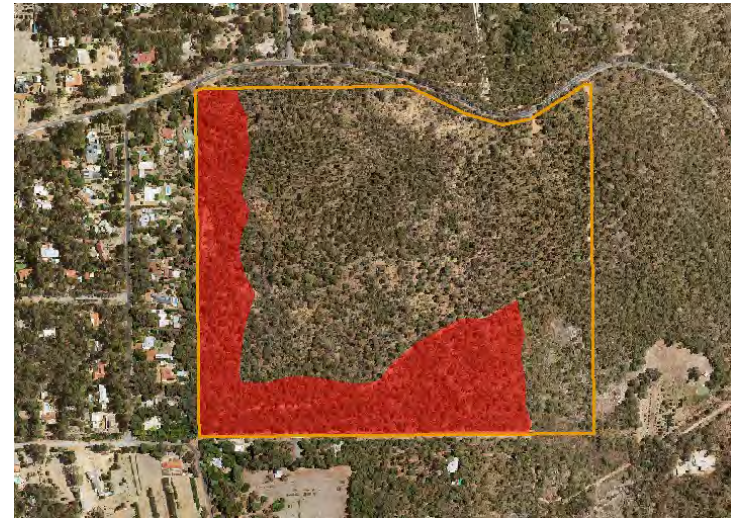
**AFTER - 1 t/ha of Leaf Fuel Load**



# Site 101 Mundaring Weir Rd Kalamunda Risk Reduced from Extreme 1B to High 3C

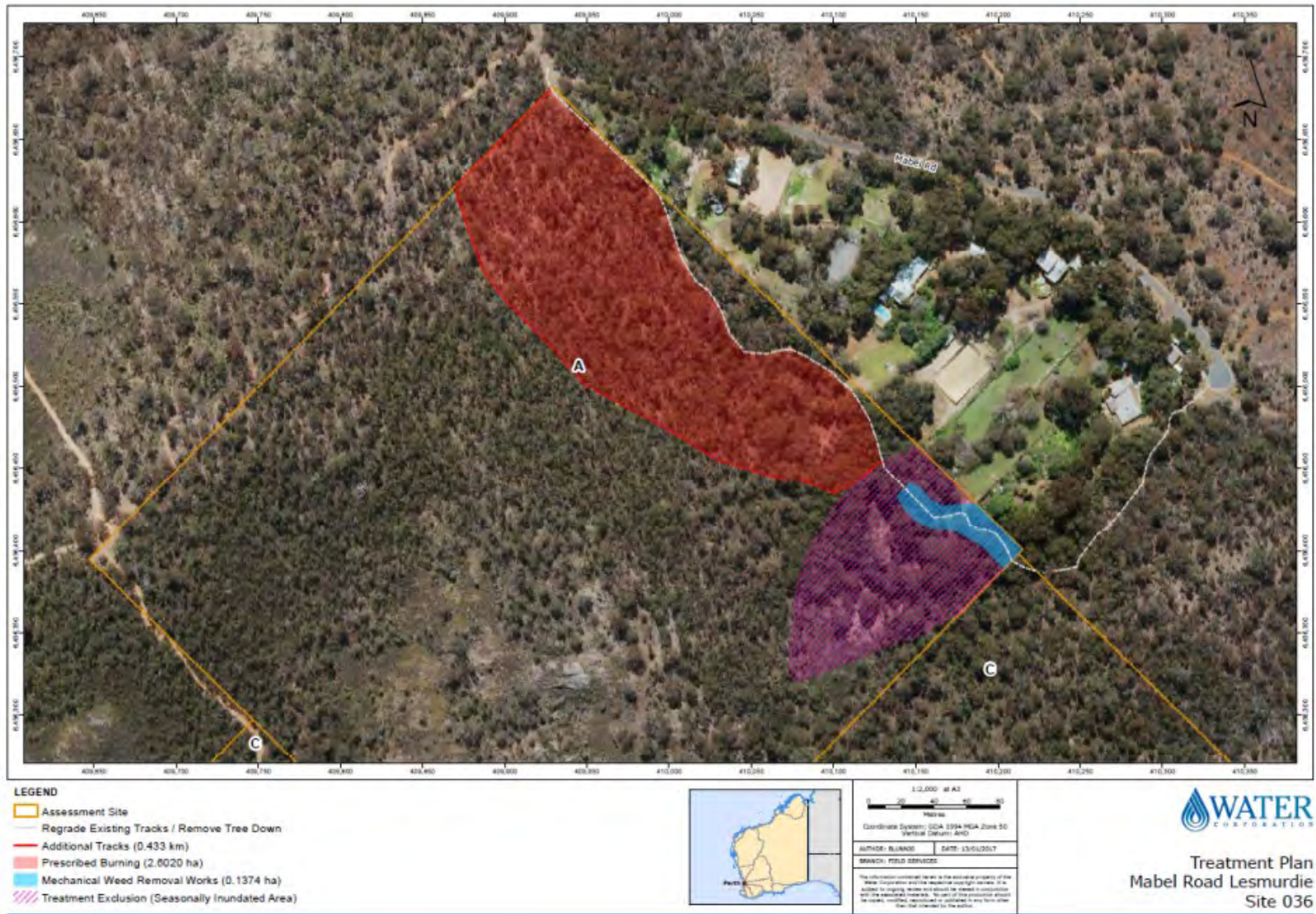


**BEFORE - >24 t/ha of Leaf Fuel Load**

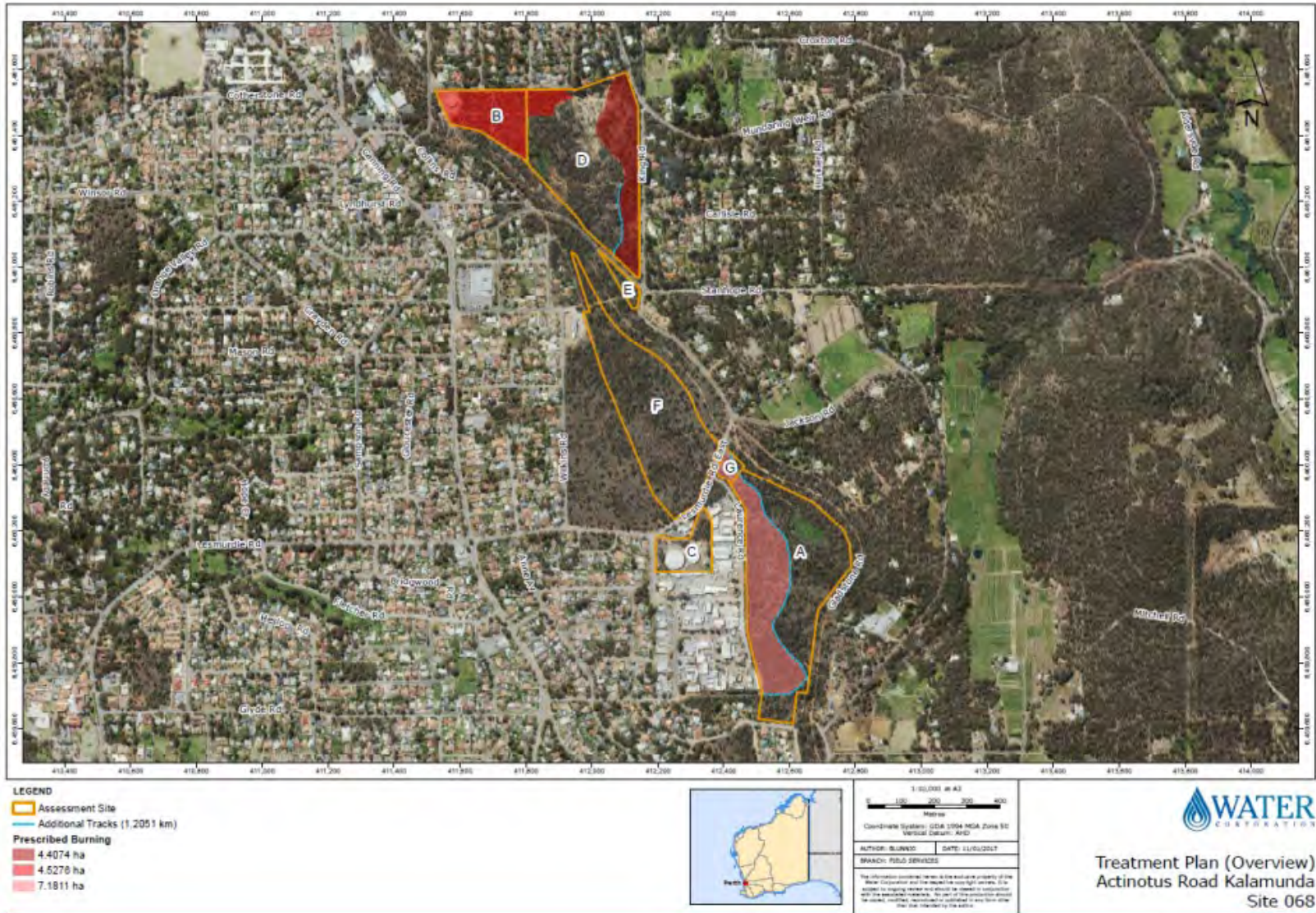


**AFTER - <5 t/ha of Leaf Fuel Load**

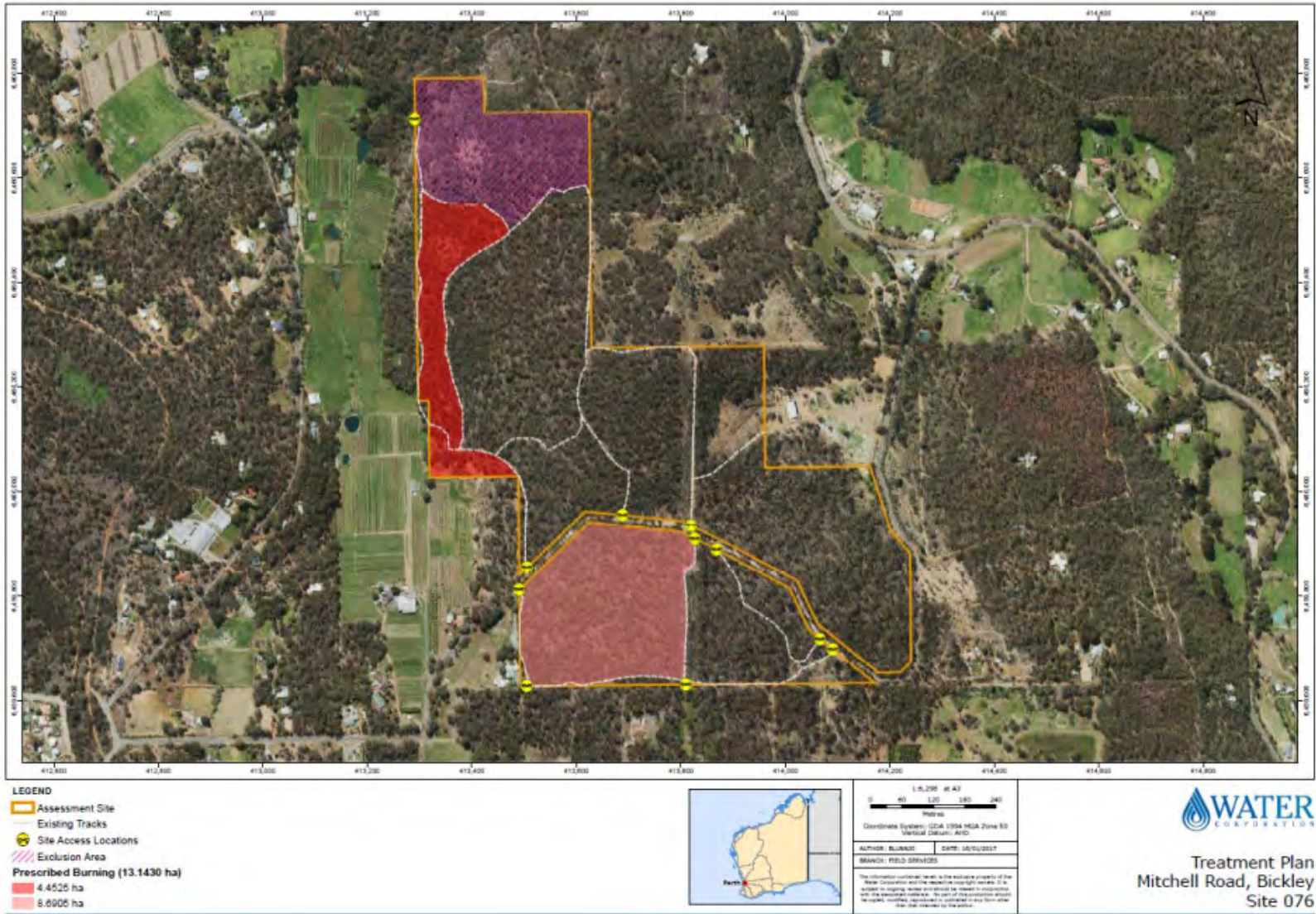














# Technology – DRONE Program



## Thermal Imaging Drones

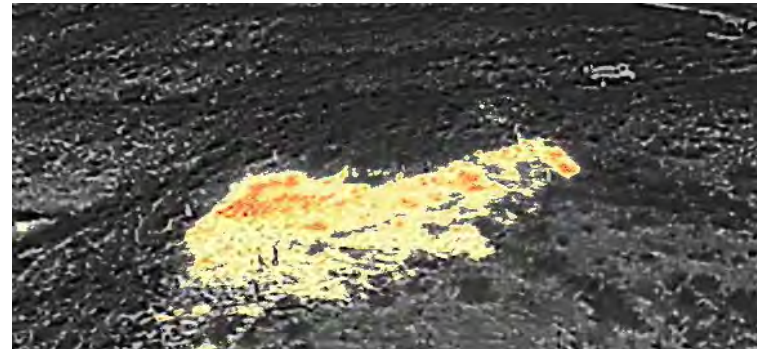
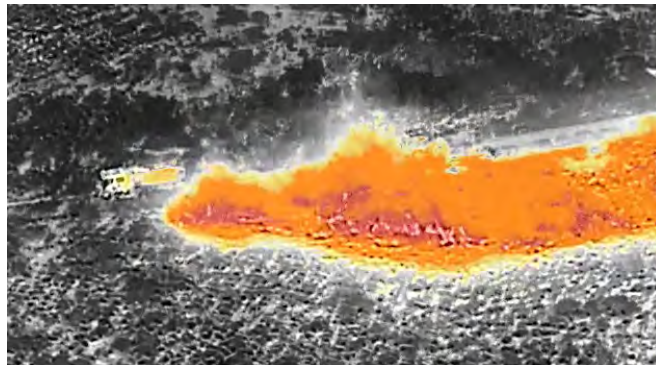
- DJI M300,
- DJI Mavic Enterprise 2

## Visual Drones

- DJI Mavic Mini (5)

## UAV Pilots

- 2 Senior Base Pilots,
- 6 NVLoS Pilots



## Technology – Other Programs



### **Soil Moisture** – *research project*

- % moisture
- vegetation type
- topography

### **Smoke Plume Modelling** – *research project*

- 0-100 mtr settling / dispersion (local impact)
- >100 mtr air quality dispersion (big picture)

### **Cultural / Traditional Burning** – *development project*

- Relationships
- techniques
- Right Time Fire
- Esperance / Dampier Peninsular (WiP)



# Fleet Upgrade





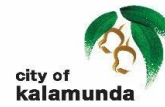
**Attachment #6 – BFAC Terms of Reference (Current).**

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ABN 60 741 095 678



## **BUSH FIRE ADVISORY COMMITTEE**

### Terms of Reference

Accepted by the Kalamunda Bush Fire Advisory Committee at the Annual General Meeting 18/07/2019

#### **1. Name**

The name of the Committee shall be the Bush Fire Advisory Committee (the Committee).

#### **2. Purpose**

The purpose of the Committee is to provide advice to Council on matters related to effective bush fire risk and emergency management.

#### **3. Objectives**

The objectives of the Committee are to report and make recommendations to Council on:

- 3.1 All matters relating to the Bush Fires Act 1954.
- 3.2 The financial affairs of the Bush Fire Brigade, not covered by the Local Government Grants Scheme.
- 3.3 The general management of the affairs of the Bush Fire Brigade
- 3.4 Provide advice and submissions on needs.
- 3.5 Oversee the implementation of the policies, to assist in the development and maintenance of an appropriate emergency management and bush fire capability.
- 3.6 Preventing, controlling and extinguishing of bush fires
- 3.7 The planning of the layout of fire-breaks in the district
- 3.8 Prosecutions for breaches of the Bush Fire Act 1954.
- 3.10 The formation of bush fire brigades and the grouping thereof under group brigade officers
- 3.11 The ensuring of co-operation and co-ordination of bush fire brigades in their efforts and activities
- 3.12 Any other matter relating to bush fire control whether of the same kind, as, or a different kind from, those specified.
- 3.13 Carrying out other functions assigned to the committee by Council

#### 4. Legislative framework

Council established the Bush Fire Advisory Committee under s5.8 of the Local Government Act 1995 and is a committee for such purpose as defined under s67 of the Bushfire Act 1954.

#### 5. Council's Strategic Alignment

Kalamunda Advancing Strategic Community Plan to 2027

Strategy 1.2.1 Facilitate a safe community environment.

Strategy 4.2.1 Actively engage with the community in innovative ways.

#### 6. Membership

- 6.1 A total membership of up to Nine full members comprising
- (i) One Councillor
  - (ii) Chief Bush Fire Control Officer
  - (iii) The Deputy Chief Bush Fire Control Officer(s) as appointed from time to time by the Council
    - Two Members nominated by the Kalamunda Volunteer Bush Fire Brigade
    - Two Members nominated by the Kalamunda Volunteer Fire & Rescue Service
  - (iv) The Committee may invite additional members as necessary.
- 6.2 Ex-Officio Members may be called from the following agencies:
- (i) Member nominated by the Department of Fire and Emergency Services
  - (ii) Member nominated by the Department of Biodiversity, Conservation and Attractions
  - (iii) Member nominated by the State Emergency Service
  - (iv) Another member nominated the Committee
- 6.3 All members may have an appointed Deputy who is to attend meetings in the absence of the member.
- 6.4 The committee will also include three City appointed representatives to provide support and are without voting rights:
- (i) Director Development Services
  - (ii) Manager Parks and Environmental Service
  - (iii) Manager Community Safety Services
  - (iv) Other officers as required from time to time
- 6.5 Appointment is up to two years and members are eligible for reappointment following the Council Ordinary Election.



- 6.6 Observers are welcome to attend meetings. However, they are not able to become involved in the discussion of the meeting unless the Committee has made a resolution inviting observers to participate.
- 6.7 Perth South District Operations Advisory Committee
- (a) The City of Kalamunda shall be a member of the Perth South District Operations Advisory Committee pursuant to the powers conferred under Section 68 of the Bush Fires Act 1954.
  - (b) Membership of the Committee shall consist of two delegates from the
  - (c) local authority, one of which will be its Chief Bush Fire Control Officer and the other a Deputy Chief Bush Fire Control Officer. Each member of the Committee shall have a deputy member.
  - (d) Meetings are to be held as prescribed by the Chairman of the Perth South Region District Operations Advisory Committee and not less than once a year.

## **7. Election of Presiding Member and Deputy Presiding Member**

- 7.1 The Committee will conduct the election of the Presiding Member and Deputy Presiding Member in accordance with the provisions of the Local Government Act 1995.

## **8. Meetings**

- 8.1 The Committee will hold its ordinary meetings in the months of March, July (incorporating the Annual General Meeting) and September each year.
- 8.2 The Committee may convene special meetings or working groups, under the following circumstances:
- (a) By the Presiding Member.
  - (b) By written notice to all Committee members, at least four members of the Committee must sign the notice and give a minimum of at least seven (7) days' notice and state the purpose of the meeting.
  - (c) By the Council.
- 8.3 The time and venue of meetings will be determined by the Presiding Member or the Council having due regard to the general convenience of the Committee members.
- 8.4 A quorum shall consist of at least one half of the appointed members.
- 8.5 Only, each appointed full member present shall have one (1) vote, with the Presiding Member having a casting vote if required.
- 8.6 The following shall apply to agendas and minutes
- (i) The Chief Executive Officer or their delegate will administer Agendas and Minutes.
  - (ii) The Secretary will distribute an Agenda and notice of meeting electronically at least 7 days prior to each meeting.

- (iii) It is important, the Secretary send the Agenda Items along with any supporting papers no later than 7 days prior to the meeting. This allows time for members to consider the item and make an informed decision.
- (iv) If there are no Agenda Items the Secretary in consultation with the Presiding Member, will cancel the scheduled meeting and provide notifying all members.
- (v) The Committee may accept late agenda or business items for consideration.
- (vi) The Secretary shall keep minutes of all business transacted at all meetings and a copy shall be forwarded to members within 7 days of each meeting.
- (vii) Bush Fire Advisory Committee will report all recommendations to Council for consideration.
- (viii) The City of Kalamunda will publish (making them available to the public) the unconfirmed Bush Fire Advisory Committee minutes at the next Ordinary Council meeting.

8.6 Reports to the Bush Fire Advisory Committee

- (a) The Chief Bush Fire Control Officer and the Deputy Chief Bush Fire Control Officers will submit a report.
- (b) The Brigade representatives will submit a report on other Brigade activities including operational matters, training and appliance and equipment status.
- (c) Kalamunda Volunteer Fire & Rescue
- (d) The Council delegate and Ex Officio members will report on matters relevant to the Committee.

**9. City of Kalamunda Administrative Support**

A City of Kalamunda staff member or the Secretary of the Volunteer Bush Fire Brigade will act as a secretary for the Committee.

**10. Key Performance Indicators**

10.1 Committee to determine their key performance indicators.