



MINUTES

Ordinary Council Meeting

Held in Council Chambers
Corner King & Barrack Street's, Merredin
Tuesday, 26 March 2024
Commencing 4.00pm



Common Acronyms Used in this Document

CBP	Corporate Business Plan
CEACA	Central East Accommodation & Care Alliance Inc
CEO	Chief Executive Officer
CSP	Community Strategic Plan
CWVC	Central Wheatbelt Visitors Centre
EO	Executive Officer
EMCS	Executive Manager Corporate Services
EMDS	Executive Manager Development Services
EMES	Executive Manager Engineering Services
EMS&C	Executive Manager Strategy & Community
GECZ	Great Eastern Country Zone
GO	Governance Officer
LGIS	Local Government Insurance Services
LPS	Local Planning Scheme
MCO	Media and Communications Officer
MoU	Memorandum of Understanding
MP	Manager of Projects
MRCLC	Merredin Regional Community and Leisure Centre
SRP	Strategic Resource Plan
WALGA	Western Australian Local Government Association
WEROC	Wheatbelt East Regional Organisation of Councils



March Ordinary Council Meeting

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Shire of Merredin
Ordinary Council Meeting
4:00pm Tuesday, 26 March 2024



1. Official Opening

The President acknowledged the Traditional Owners of the land on which we meet today, and paid his respects to Elders past, present and emerging. The President then welcomed those in attendance and declared the meeting open at 4:01pm.

2. Record of Attendance / Apologies and Leave of Absence

Councillors:

Cr M McKenzie	President
Cr R Manning	Deputy President
Cr B Anderson	
Cr H Billing	
Cr D Crook	Via Zoom
Cr L O'Neill	
Cr M Simmonds	
Cr P Van Der Merwe	

Staff:

J Merrick	T/CEO
L Boehme	EMCS
A Tawfik	EMES
P Zenni	EMDS
M Wyatt	EO
A Bruyns	GO

Members of the Public:

Apologies: C Brindley Mullen, EMS&C

Approved Leave of Absence:

Cr Crook's attendance via Zoom was approved by the Shire President in advance in accordance with Regulation 14C.2(b) of the Local Government (Administration) Amendment Regulations 2022.

3. Public Question Time

Nil

4. Disclosure of Interest

Nil

5. Applications of Leave of Absence

Nil

6. Petitions and Presentations

Nil

7. Confirmation of Minutes of Previous Meetings

- 7.1 Ordinary Council Meeting held on 27 February 2024
Attachment 7.1A

Voting Requirements



Simple Majority



Absolute Majority

Resolution

Moved: Cr Billing Seconded: Cr Van Der Merwe

83352 That the Minutes of the Ordinary Council Meeting held on 27 February 2024
be confirmed as a true and accurate record of proceedings.

CARRIED 8/0

*For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr
Van Der Merwe*

Against: Nil

8. Announcements by the Person Presiding without Discussion

Nil

9. Matters for which the Meeting may be Closed to the Public

- 19.1 Award of Contract – RFQ05 2023-24 Sealing Works
19.2 Appointment of Chief Executive Officer

10. Receipt of Minutes of Meetings

- 10.1 Minutes of the Great Eastern Country Zone Meeting held on 22 February 2024
Attachment 10.1A
- 10.2 Minutes of the Wheatbelt East Regional Organisation of Councils (WEROC) Board Meeting held on 6 March 2024
Attachment 10.2A

Voting Requirements



Simple Majority



Absolute Majority

Resolution

Moved: Cr Simmonds

Seconded:

Cr Anderson

That Council;

- 83353**
1. RECEIVE the Minutes of the Great Eastern Country Zone Meeting held on 22 February 2024; and
 2. RECEIVE the Minutes of the Wheatbelt East Regional Organisation of Councils (WEROC) Board Meeting held on 6 March 2024.

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil

11. Recommendations from Committee Meetings for Council Consideration

Nil

Great Eastern Country Zone

MINUTES

Thursday, 22 February 2024
Commenced at 9:34am

Shire of Merredin

Merredin Regional Community & Leisure Centre
Bates Street, Merredin Western Australia 6415

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1. Opening and Welcome

The Chair declared the meeting open at 9.34am.

1.1 Acknowledgement of Country

We, the Great Eastern Country Zone of WALGA acknowledge the Traditional Custodians of this land, and pay our respects to their Elders past, present and future.

2. Attendance and Apologies

Shire of Bruce Rock	President Cr Ram Rajagopalan Cr Stephen Strange (State Council Representative) Mr Darren Mollenoyux, Chief Executive Officer, non-voting
Shire of Cunderdin	Deputy President Cr Tony Smith Mr Stuart Hobley, Chief Executive Officer, non-voting
Shire of Dowerin	President Cr Robert Trepp Mr David Singe, Chief Executive Officer, non-voting
Shire of Kellerberrin	Cr Dennis Reid Ms Morgan Ware, Manager of Governance
Shire of Koorda	President Cr Jannah Stratford Mr Zac Donovan, Chief Executive Officer, non-voting
Shire of Merredin	Cr Megan Simmonds
Shire of Mount Marshall	Cr Tony Sachse (Zone Chairperson) Mr Gary Martin, A/Chief Executive Officer, non-voting
Shire of Mukinbudin	President Cr Gary Shadbolt Mr Dirk Sellenger, Chief Executive Officer, non-voting
Shire of Narembeen	President Cr Scott Stirrat Deputy President Cr Holly Cusack
Shire of Nungarin	Deputy President Cr Gary Coumbe Mr Ric Halse, Chief Executive Officer, non-voting
Shire of Tammin	Deputy President Cr Tanya Nicholls

	Ms Joanne Soderlund, Chief Executive Officer, non-voting
Shire of Trayning	President Cr Melanie Brown Ms Leanne Parola, Chief Executive Officer, non-voting
Shire of Westonia	President Cr Mark Crees Mr Bill Price, Chief Executive Officer, non-voting
Shire of Wyalkatchem	Deputy President Cr Christy Petchell Cr Ross Lawson Kerr Cr Misha Stratford (Observer) Ms Sabine Taylor, Chief Executive Officer, non-voting
Shire of Yilgarn	President Cr Wayne Della Bosca Mr Nic Warren, Chief Executive Officer, non-voting
Guests	
Telstra	Boyd Brown, Regional General Manager WA
Main Roads WA	Mohammad Siddiqui, Regional Manager Wheatbelt
Water Corporation	Rebecca Bowler, Manager Customer & Stakeholder – Goldfields & Agricultural Region
Regional Development Australia WA	Josh Pomykala, Director Regional Development
Members of Parliament	Hon Mia Davies MLA, Member for Central Wheatbelt Kath Brown, Electorate Officer, Office of Hon Mia Davies MLA
WALGA	James McGovern, Manager Governance & Procurement Naomh Donaghy, Governance & Organisational Services Officer
Apologies	
Shire of Cunderdin	President Cr Alison Harris
Shire of Dowerin	Deputy President Cr Nadine McMorran
Shire of Kellerberrin	President Cr Matt Steber Deputy President Cr Emily Ryan Mr Raymond Griffiths, Chief Executive Officer, non-voting
Shire of Kondinin	President Cr Kent Mouritz Deputy President Cr Bev Gangell Mr David Burton, Chief Executive Officer, non-voting
Shire of Koorda	Deputy President Cr Gary Greaves
Shire of Merredin	President Cr Mark McKenzie Deputy President Cr Renee Manning Ms Leah Boehme, A/Chief Executive Officer, non-voting
Shire of Mount Marshall	Deputy President Cr Nick Gillett
Shire of Nungarin	President Pippa de Lacy
Shire of Narembeen	Rebecca McCall, Chief Executive Officer, non-voting
Shire of Tammin	Cr Nick Caffell
Shire of Trayning	Cr Michelle McHugh
Shire of Westonia	Deputy President Ross Della Bosca

Shire of Wyalkatchem
Shire of Yilgarn

President Cr Owen Garner
Deputy President Cr Bryan Close

Hon Colin de Grussa MLC, Member for Agricultural Region
Hon Steve Martin, Member for the Agricultural Region
Rick Wilson MP, Federal Member for O'Connor
Hon Peter Rundle MLA, Member for Roe
Hon Martin Aldridge MLC, Member for Agricultural Region
Hon Shelley Payne MLC, Member for Agricultural Region
Hon Darren West MLC, Member for Agricultural Region
Hon Sandra Carr MLC, Member for Agricultural Region

Department of Local Government,
Sport, & Cultural Industries

Samantha Cornthwaite, Regional Manager Wheatbelt

Wheatbelt Development Commission

Renee Manning, Principal Regional Development Officer – Central East

3. Attachments

The following are provided as attachments to the Minutes:

1. Item 6.1 Telstra presentation
2. Item 8.4 Main Roads report

The full State Council Agenda can be found via link: [State Council Agenda 6 March 2024 \(walga.asn.au\)](https://www.walga.asn.au)

4. Declarations of Interest

NIL

5. Announcements

NIL

6. Guest Speakers / Deputations

6.1 Speakers for the February Zone Meeting

6.1.1 Telstra

Boyd Brown, Regional General Manager, Telstra Retail & Regional, presented to the Zone on key topics including 3G network closure, mobile update on co-investment and 4G/5G upgrades, satellites and network resilience. Additionally, Mr Brown provided an update on telecommunications resilience planning in the wake of recent severe weather event across the wheatbelt and Goldfields regions.

Boyd took a number of questions from Zone members during his presentation – **Attachment 1**

NOTED

7. Members of Parliament

Any Members of Federal and State Government in attendance were invited to provide a brief update on matters relevant to the Zone.

- Mia Davies, Electorate Officer, Office of Hon Mia Davies MLA

NOTED

8. Agency Reports

8.1 Department of Local Government, Sport, and Cultural Industries

Samantha Cornthwaite, Regional Director Wheatbelt was an apology, a report was submitted for the Zone.

Executive Officer Comment:

The Executive Officer suggested the Department of Local Government, Sport and Cultural Industries be contacted to request a representative attends Zone meetings. Members were in agreeance.

NOTED

8.2 Wheatbelt Development Commission

Renee Manning, Principal Regional Development Officer was an apology for this meeting.

NOTED

8.3 Regional Development Australia Wheatbelt

Josh Pomykala, Director Regional Development was in attendance and took a few moments to introduce himself. There was no report for the February meeting.

NOTED

8.4 Main Roads Western Australia

Mohammad Siddiqui, Regional Manager Wheatbelt provided a report in advance of the meeting, now attached – **Attachment 2**

NOTED

8.5 Water Corporation

Rebecca Bowler, Manager Customer & Stakeholder gave a verbal report.

NOTED

9. Minutes

9.1 Confirmation of Minutes from the Great Eastern Country Zone meeting held on Monday 20 November 2023

The Minutes of the Great Eastern Country Zone meeting held on Tuesday, 20 November 2023 have previously been circulated to Member Councils.

RESOLUTION:

Moved: Shire of Koorda

Seconded: Shire of Yilgarn

That the minutes of the Great Eastern Country Zone meeting held on Monday, 20 November 2023 be confirmed as a true and accurate record of the proceedings.

CARRIED

9.2 Business Arising from the Minutes from the Great Eastern Country Zone Meeting held on Monday, 20 November 2023

9.2.1 Carriage Lighting/Train Visibility – Rail Network (Item 13.1)

At the November 2023 Zone meeting, Cr Alison Harris raising concerns in relation to lighting of train carriages. WALGA provides the following update of information:

In December 2023, the Federal Government released the [National Level Crossing Safety Strategy \(Department of Transport and Main Roads\) \(tmr.qld.gov.au\)](https://www.transport.gov.au/publications/national-level-crossing-safety-strategy) which includes strategies for train lighting and visibility.

Additional commentary is available in this article:

<https://infrastructuremagazine.com.au/2024/02/05/national-level-crossing-safety-strategy-released/>

WALGA also provided a technical submission to the review of AS 7531 'Lighting and Visibility Standard' which occurred in October 2023. There is no current WALGA advocacy or Policy Team activity on this matter.

RESOLUTION:

Moved: Cr Melanie Brown, Shire of Trayning
Seconded: Cr Gary Shadbolt, Shire of Mukinbudin

That the Zone Executive Officer request a comment from WALGA on their capacity to advocate for change, with an item to be prepared for the next Great Eastern Zone meeting.

CARRIED

9.2.2 Zone Council Member Training Rebate (Item 13.4)

Following discussion of this item in November 2023, WALGA commenced monitoring Zone Local Governments that enrol Councillors in the Council Members Essentials training modules.

Under the revised rebate scheme, the Zone through the WALGA Secretariat will directly reimburse each Local Government their \$2,000 allocation rather than request Local Governments to raise an invoice. The rebate is not dependent on all Council Members completing the modules.

NOTED

9.3 Minutes of the Great Eastern Country Zone Executive Committee meeting held on Tuesday 13 February 2024

The Minutes of the Great Eastern Country Zone Executive Committee meeting held on Tuesday, 13 February 2024 were attached.

RESOLUTION

Moved: Shire of Trayning
Seconded: Shire of Nungarin

That the Minutes of the Great Eastern Country Zone Executive Committee Meeting held on Tuesday 13 February 2024 be received.

CARRIED

9.4 Business arising from the Great Eastern Country Executive Committee Meeting held on Tuesday, 13 February 2024

9.4.1 Prioritisation of Strategic Zone Issues

In no particular order, the following items are regarded as strategic Zone priority issues for 2024 with proposed new items identified in **green**:

- Regional Health Services to include:
 - Hospitals
 - Aged Care
 - Future of Nurse Practitioner Service
- St John Ambulance Service – Impact on Volunteers and the provision of the service generally.

- Regional Subsidiaries
- Transport – Road Network
- Telecommunications
- Education
- Review of GROH Housing and Regional Housing issues
- Waste Management
- Agricultural Land Use

Executive Committee Comment:

Strategic priorities have been updated for consideration of Zone members. Covid-19 has been excluded and the theme of regional housing has been added to GROH housing in recognition that many Local Governments struggle with lack of residential housing.

In advance of the Executive Committee meeting, Cr Mark Crees proposed a new priority based on corporations purchasing productive agricultural land to offset their carbon footprint by planting trees; this issue is aligned to the use of productive agricultural land for solar farms and wind farms. There is a relationship between this emerging issue and the buying up of productive agricultural land in various regions of WA commencing in the 1990’s for planting of commercial blue gum farms.

Both added priorities were the subject of adopted 2023 WALGA AGM motions that are currently under consideration by WALGA Policy Teams:

Regional Housing

That WALGA advocates to the WA State and Commonwealth Governments to address the dire shortage of affordable key worker family housing options in regional and remote towns to encourage families to live and work in regional and remote towns. Social housing is addressed at both the State and Federal levels.

Agricultural Land Use

That WALGA establish and promote policies to protect and prioritise the preservation of agricultural land against its displacement by non-agricultural activities that lead to a net reduction of the State’s productive agricultural land.

Comment:

Cr Crees, Shire of Westonia, gave an overview on the importance of the addition of “Agricultural Land Use”, using the example of the potential sale of Merredin Farms to a Mining Corporation for their Carbon Offsets. This would equate to 20,000Ha of 240,000Ha farmland in the Shire of Westonia alone.

The Executive Officer will keep Zone Members informed on what WALGA are doing in this space.

RESOLUTION

Moved: Shire of Westonia
Seconded: Shire of Narembeen

That the Great Eastern Country Zone endorse the Strategic Zone Priorities for 2024.

CARRIED

9.4.2 Medicare Rebate

At the November 2023 Zone meeting, Cr Alison Harris brought a Medicare item forward; that Medicare are proposing that the rebate will not be offered for first telehealth consultations with speciality doctors.

The current Medicare Benefits Schedule does not identify any change to the first telehealth consultation with speciality doctors. The Executive Committee discussed this matter and recommended that the Zone prepare correspondence to advocate against any change, highlighting the impact it will have on regional communities who rely heavily on telehealth consultations.

RESOLUTION:

Moved: Shire of Bruce Rock
Seconded: Shire of Westonia

That the Zone Executive Officer write to Medicare / Services Australia and inform that the WALGA Great Eastern Country Zone is opposed to any change to the Medicare rebate for initial telehealth consultations with specialist doctors.

CARRIED

9.4.3 Women of the Wheatbelt Elected Members (WoWem) Sundowner

On Friday 15 March 2024, Cr Harris in partnership with other Members of the Great Eastern Country Zone, will host a Sundowner for female councillors in the region, the “Women of the Wheatbelt Elected Members (WoWem) Sundowner” in Merredin. It is estimated there will be 30+ attendees.

The Executive Committee supports a request for Zone consideration of a financial contribution in support of this event.

The organisers are currently awaiting catering quotes and can advise on a suggested contribution closer to the event. In the absence of specific costings, the Executive Committee therefore propose a financial contribution to a maximum of \$1,000 be considered.

Comment:

Cr Brown thanked Cr Harris for her work, stating this event is a great initiative.

RESOLUTION

Moved: Shire of Trayning
Seconded: Shire of Bruce Rock

That the Great Eastern Country Zone make a financial contribution up to a maximum of \$1,000 toward the cost of hosting the Women of the Wheatbelt Elected Members (WoWem) Sundowner to be held on 15 March 2024.

CARRIED

10. Zone Business

10.1 2024 Meeting dates

Background:

Meeting dates for the Great Eastern Country Zone's Executive Committee and Zone meetings are presented for the Zone's review and acceptance.

These dates were endorsed by the Executive Committee at their meeting on Tuesday 13 February.

The Executive Committee dates are 1.5 weeks prior to the Zone meeting. Zone meetings are scheduled to align with State Council meetings.

NOTICE OF MEETINGS
GREAT EASTERN COUNTRYZONE EXECUTIVE COMMITTEE 2024

Exec Comm Meeting Dates Tuesday	Time	HOST COUNCIL
2 April	Tuesday 8am	Teleconference
4 June	Tuesday 8am	Teleconference
13 August	Tuesday 8am	Teleconference
5 November	Tuesday 8am	Teleconference

NOTICE OF MEETINGS
GREAT EASTERN COUNTRY ZONE 2024

Zone Meeting Dates	Time	Host Council	State Council meeting Dates 2024	Time to read State Council Agenda
11 April	Thursday 9.30 am	Kellerberrin	Wednesday 1 May	2 weeks and 1 day
13 June	Thursday 9.30 am	Merredin	Wednesday 3 July	1 week and 1 day
22 August	Thursday 9.30 am	Kellerberrin	Regional Meeting 5-6 September	1 week and 1 day
14 November	Thursday 9.30 am	Merredin	Wednesday 4 December	2 week and 1 day

RESOLUTION

Moved: Shire of Dowerin

Seconded: Shire of Bruce Rock

That the 2024 Great Eastern Country Zone Executive Committee and Zone dates are confirmed as stated above.

CARRIED

10.2 Great Eastern Country Zone Conference 2025

The Great Eastern Country Zone Conference was held in Merredin on Tuesday 28 February 2023. Themed “Regional Collaboration,” the intent of the Conference was to provide information on current and planned regional collaboration involving Zone Local Governments. A total of 100 people attended, including Local Government Councillors, Senior officers, and three members of Parliament.

A subsequent survey provided a strong response that the conference is a valuable experience, particularly the information and networking opportunity it provides for Council Members that do not attend the Zone.

The Zone is committed to a biennial conference and it would be practical to commence planning for the 2025 conference as soon as possible. The Executive Committee recently discussed establishing a Zone Conference Planning Subcommittee to take the lead on the conference theme, speakers, location and potential innovations.

It is recommended the Subcommittee comprise between 4 and 6 members and it will be supported by WALGA through the Zone Executive Officer. The Zone Conference Planning Subcommittee will also be able to leverage the capability within WALGA’s Marketing and Events team to assist with matters including conference planning and promotion, venue identification and logistics, speaker and MC acquisition.

RESOLUTION

Moved: Shire of Westonia

Seconded: Shire of Mukinbudin

That the Great Eastern Country Zone establish a Zone Conference Planning Subcommittee comprising the following Zone delegates:

Cr Melanie Brown, Shire of Trayning;

Cr Jannah Stratford, Shire of Koorda :

Cr Ram Rajagopalan, Shire of Bruce Rock;

Cr Gary Shadbolt, Shire of Mukinbudin :

Cr Tony Sasche, Shire of Mount Marshall;

Cr Stephen Strange, Shire of Bruce Rock;

Cr Mark Crees, Shire of Westonia

CARRIED

10.3 Road Works during a Total Fire Ban Regulatory Review Update

By Max Bushell, Senior Policy Advisor, Road Safety and Infrastructure

EXECUTIVE SUMMARY

- *The Department of Fire and Emergency Services (DFES) has announced that changes to the Bush Fires Regulations 1954 dealing with grading and bituminising works during a Total Fire Ban have come into effect.*
- *All conditions on conducting road works during a Total Fire Ban have been removed, except for the following three conditions: 24Y, 24ZA, and 24ZB.*
- *Local Governments should still employ robust risk management and assessment strategies when deciding whether to proceed with roadworks during a Total Fire Ban.*

BACKGROUND

Following consultation with WALGA and Local Governments, Main Roads, and contractors, DFES have removed all conditions on conducting road works during a Total Fire Ban, except for:

- Regulation 24Y: road work remains prescribed for the purposes of section 22B(2) of the Bush Fires Act 1954; meaning business, industry and public authorities (which include Local Governments) can continue to conduct road work during a total fire ban without requiring an exemption.
- Regulation 24ZA: road work must stop during a Total Fire Ban where there is a Catastrophic fire danger rating – with exceptions for essential services.
- Regulation 24ZB: notification is still required via the online notification form which notifies DFES and the Local Government where the works are occurring during a Total Fire Ban. If working within 3kms of DBCA managed land, notification to DBCA is also required.

Local Governments should continue to employ their own thorough risk assessment and risk management practices that consider fire prevention and mitigation when programming road works during a Total Fire Ban.

Additional information can be found on the DFES [website](#). The DFES road work [factsheet](#) may be particularly useful for Local Governments.

NOTED

10.4 Consultation Opportunities

The following consultations are currently open and Zone Local Governments may consider providing a response or formal submission:

Auditor Experience Survey

WALGA has again partnered with LG Professionals WA to conduct a survey of the sector seeking feedback in relation to the annual audit process.

To this end we have jointly revised the questionnaire based on last year's experiences to ensure we obtain feedback from the sector that will enable us to provide constructive advice to the Office of the Auditor General. The OAG is supportive of this process and welcomes advice from the peak bodies to inform their continued improvement.

Please assist us in this important research exercise by completing the online survey at <https://www.surveymonkey.com/r/6KRF2K9> before close of business on **Friday, 15th March**.

Kindly note that only one response is required per organisation.

If you have any queries, please don't hesitate to contact me on either my mobile: 0439 914 349, direct work number 9213 2051 or email: tbrown@walga.asn.au

Stop Puppy Farming - Fees and Charges Consultation Paper

Consultation is now being undertaken by consultants Marsden Jacob Associates on the new and existing fees and charges under the Dog Act 1976 and Cat Act 2011. Local Governments should have received correspondence from them providing a consultation paper and a link to an online survey for submissions in response.

The five-week consultation period opened on Thursday 1 February and responses will inform the development of fees for the following approvals:

1. Dog and cat registration by owners and contributions to the Centralised Registration System (CRS)
2. Dog supply approvals
3. Approvals to breed for dogs
4. Pet shops approvals (only applicable to dogs)

If you have not received a copy of the consultation paper and a link to their survey, please contact Marsden Jacob Associates for at SPFees@marsdenjacob.com.au

The consultation closes on **Friday, 8 March.**

Cemeteries and Cremations Act Review

The March 2024 State Council Agenda includes an Item for Decision on this review, this is a timely opportunity to inform the Zone that the consultation period has been extended to 15 March. This provides Local Governments with a renewed opportunity to provide a submission, with information provided below:

The Department of Local Government, Sport and Cultural Industries has commenced a **Review of the Cemeteries Act 1976 and the Cremations Act 1929.**

Local Governments that operate cemeteries or have cremation facilities within their district are encouraged to provide a submission to the DLGSC via the above link. WALGA would appreciate receiving a copy of submissions to inform the development of advocacy. Please send copies of submissions to governance@walga.asn.au by Thursday 25 January 2024.

NOTED

10.5 2024 Local Government Honours Program

By Meghan Dwyer, Executive Officer Governance

The annual Local Government Honours Program affords public recognition and celebration of the outstanding achievements and lasting contributions made by Elected Members and Local Government officers to their respective Councils, the WA Local Government sector and the wider community.

There are six awards in the 2024 Program:

1. Local Government Medal
2. Life Membership
3. Eminent Service Award
4. Merit Award
5. Local Government Distinguished Officer Award
6. Young Achievers Award

Nominations will open on **Friday, 8 March 2024** and close at **5:00pm on Friday, 31 May 2024.**

Details on the 2024 Honours Program and Nomination Forms will be available from Friday, 8 March 2024 on the [WALGA website](https://www.walga.asn.au).

For more information contact Meghan Dwyer, Executive Officer Governance, on 9213 2050 or via email at honours@walga.asn.au.

NOTED

11. Zone Reports

11.1 Zone Chair President Report

President Tony Sachse

As we moved into 2024 and January in particular, GECZ member councils experienced a series of bushfires, mainly due to lightning, followed by a very intense super cell with wide-ranging impacts such that it was designated a Level 2 Amber emergency. There are items relating to this in today's agenda.

The GECZ met for the first-time last week with items relating to current and future meetings as well as discussion on holding a Wheatbelt Zone Conference in 2025. Our guest speaker today is Mr Boyd Brown, Regional General Manager, Telstra Retail & Regional who will present on a range of topics. We also look forward to all our Agency and other reports. By working together in a positive way, we are hopeful many of the concerns we have can be addressed, within the resources available. Good planning and process is also important.

Thanks to the WALGA staff for their contribution in preparing today's agenda, especially James McGovern and Naoimh Doherty. Thanks also to the Shire of Merredin for hosting us today.

RESOLUTION

Moved: Shire of Trayning

Seconded: Shire of Mukinbudin

That the Zone President's Report be received.

CARRIED

11.2 Wheatbelt District Emergency Management Committee (DEMC)

President Tony Sachse

The last Wheatbelt DEMC met on 19th October 2023. The unconfirmed minutes were attached.

You will probably already be aware but Yvette Grigg, District Emergency Management Advisor, Wheatbelt and Goldfields-Esperance Districts, Department of Fire and Emergency Services finished up in her role on Thursday 25th January, 2024. Yvette has given all of us considerable support over many years. Thank you, Yvette.

The Wheatbelt Operational Area Support Group (OASG)/ISG is now meeting on an as needed basis. After the multiple bushfires and the Level 2 Amber Emergency due to the Super Cell in January 2024, Meetings were held twice daily from 17th January 2024 until and including 21st January 2024, and daily from 22nd – 24th January, 2024. A final meeting a debrief of this emergency is scheduled for Tuesday, 20th February, 2024.

Wheatbelt OASG Minutes, Extracts and attachments were distributed to the WALGA GECZ members during the emergency by our executive, so they are not repeated in this report. Of note though are the notes from DFES relating to the use of generators during a Total Fire Ban. A TFB was in place in some Local Governments on Sunday 21st January 2024 during the Emergency. Agencies, Local Governments, Businesses and Individuals were required to consider the reasons for running a generator, and if they did so, that they met the conditions for doing so including having a suitable spark arrestor fitted.

- Regulation 24A(4) Bush Fire Regulations provides that use of an engine, vehicle, plant, equipment or machinery is not prohibited under reg 24A / s 23B Bush Fire Act provided that: o (a) the purpose of that use or operation is the prevention of an immediate and serious risk to the health or safety of a person or livestock; and o (b) all reasonable precautions have been taken to prevent the use or operation from causing a bush fire; and o (c) without limiting paragraph (b), the condition applicable under sub regulation (5) is complied with.
- Based on the above information the use of the generators is to prevent an immediate and serious risk to the health and safety of a person or livestock given the known impacts of the current outage and failure to return normal services within a reasonable period of time may mean for those persons already identified as vulnerable in the community due to pre-existing medical conditions among other things.
- The generator user must ensure that the internal combustion engine that is, or that activates, the engine, vehicle, plant, equipment or machinery being used or operated is mechanically sound and has an exhaust system that — o (a) is clean and free from gas leaks; and o (b) except in the case of a motor vehicle, is fitted with a suitable spark arrester for the engine. • The use of a generator for an essential service becomes relevant if the fire danger is catastrophic, but that does not appear to be the case at the moment.
- The relevant exemption holders should also consult any exemptions they have regarding works they can perform.

RESOLUTION

Moved: Shire of Bruce Rock

Seconded: Shire of Yilgarn

That the Wheatbelt District Emergency Management Committee Report be received.

CARRIED

11.3 Regional Health Advocacy Group

Cr Alison Harris was an apology for this meeting.

RESOLUTION

Moved: Shire of Bruce Rock

Seconded: Shire of Narembeen

That the Regional Health Advocacy Report be received.

CARRIED

11.4 WALGA RoadWise

Cliff Simpson, Road Safety Advisor, was an apology.

12. Western Australian Local Government Association (WALGA) Business

12.1 State Councillor Report

Cr Stephen Strange

- Cr Strange gave a verbal report referencing;
- We have a record 14 new Councillors on State Council.
- A new WALGA President and Deputy President will be elected at the March meeting.

- Highlighted the positive actions coming from Policy Teams.
- Following the next State Council meeting, State Council will meet to determine sector's key asks in advance of the March 2025 State election and will develop our advocacy campaign around these priorities, which will be a key focus of our work in 2024.
- Reminder that all Council meetings will be audio recorded from January 2025 onwards. Encouraged Zone Members to take advantage of WALGA's Meeting Procedures workshop training.

Executive Officer Comment:

The Executive Officer reminded Members that there are free workshop training opportunities available through WALGA to prepare for the recording of Council meetings.

RESOLUTION

Moved: Shire of Kellerberrin
Seconded: Shire of Wyalkatchem

That the State Councillor Report be received.

CARRIED

12.2 State Council Agenda Items – 6 March 2024

Background

WALGA State Council meets five times each year and as part of the consultation process with Member Councils circulates the State Council Agenda for input through the Zone structure.

Zone delegates to consider the Matters for Decision contained in the WA Local Government Association State Council Agenda and put forward resolutions to Zone Representatives on State Council

The full State Council Agenda can be found via link: [State Council Agenda 6 March 2024 \(walga.asn.au\)](https://www.walga.asn.au)

The Zone is able to provide comment or submit an alternative recommendation that is then presented to the State Council for consideration.

MATTERS FOR DECISION

1.1 Separation (Centre) and Edge Line Markings by Local Government on Low Volume Rural Roads

Executive Summary

- The Main Roads WA warrant does not currently allow edge line or separation (centre) line markings on Local Government roads that carry less than certain traffic volume thresholds.
- Local Governments would like to enhance the safety of their roads by installing line markings in instances where only the traffic volume criterion under the warrant is not met.
- A process is proposed in this item whereby Local Governments would pay for the installation and maintenance and Main Roads would perform the necessary inspections to ensure that the markings adhere to the applicable standard.

- Local Governments would not be required to undertake these works, but rather would have the option to install line markings on qualifying roads that do not meet the traffic volume criterion at their own cost.

WALGA RECOMMENDATION

That WALGA endorse the below Advocacy Position:

1. Main Roads Western Australia allow Local Governments to install edge line and separation (centre) line markings on roads that meet all relevant criteria, but do not meet the criterion on traffic volume.
2. For this exemption, Local Governments must adhere to the following conditions:
 - a) The Local Government contact Main Roads via the Regional Network Manager with their intent to undertake line marking on specific roads that do not meet the traffic volume criterion, but meet all the other criteria.
 - b) The Local Government obtain a Council resolution, committing to fund all installation and maintenance costs.
 - c) Local Government undertake spotting/surveying.
 - d) Main Roads to undertake an inspection following the survey/spotting work, confirm the start and finish points for the longitudinal line markings, and record the sections of road with line markings to be maintained by Local Government in the relevant database.
 - e) Main Roads approve the final layout prior to line marking occurring.
 - f) Local Government undertake the works.
 - g) Local Government maintain the works in accordance with Main Roads WA standards.
 - h) Local Government remove the lines if maintenance works are not performed to the standard.

1.2 Recovered Materials Framework Advocacy Position

Executive Summary

- The [Standards for Recycled Organics Applied to Land Policy Statement 2007](#) was developed at a time when the main option for landfill diversion of organic material in Western Australia was through mixed waste Alternative Waste Treatment (AWT) facilities.
- The Policy Statement provides principles for the development of standards for recycled organics applied to land, however these principles are potentially broadly applicable to any recovered material applied to land.
- The approach taken is that the principles/approach in the Policy Statement have been reviewed and used to inform the development of the Recovered Materials Framework Advocacy Position.
- The Department of Water and Environmental Regulation is developing a Recovered Materials Framework to cover the application of recovered materials to land.
- The Municipal Waste Advisory Council (MWAC) endorsed the new Advocacy Position in December 2023.

WALGA RECOMMENDATION

That WALGA:

1. Rescind the existing WALGA *Standards for Recycled Organics Applied to Land Policy Statement 2007* and Advocacy Position 7.9:

Local Government:

1. Acknowledges the benefits of applying recycled organics to land, especially as a means of diverting organic material from landfill; and,
2. Supports the development of standards for applying recycled organics to land, to ensure a fit for purpose product is developed.

2. Endorse a new *Recovered Materials Framework* Advocacy Position as follows:

The use of recovered materials, across a range of applications, is essential in reducing the use of basic raw materials, meeting State Waste Strategy Targets and increasing diversion of waste from landfill. To ensure end users have high confidence in the quality and safety of products derived from recovered materials, consistent, outcomes-based standards and investment certainty are required.

The State Government, in consultation with Local Government and the waste management industry, should take a leadership role in facilitating the use of recovered material by:

1. **Developing a regulatory framework which:**
 - a. **Outlines clear, outcomes-based specifications for individual products which take into consideration the receiving environment and allow for site-specific assessment.**
 - b. **Minimises risk to human health and the environment from the use of recovered material.**
 - c. **Establishes robust systems to provide quality assurance and ongoing surveillance throughout the supply chain.**
2. **Providing guidance and support mechanisms for the successful implementation of the framework.**
3. **Supporting the development of, and access to, sustainable end markets and long-term offtake agreements through initiatives such as active engagement with potential end users and the inclusion of recovered material content targets in Government procurement and large infrastructure projects.**

1.3 Review of Cemeteries Act 1986 and Cremation Act 1929 Discussion Paper

Executive Summary

- The Department of Local Government, Sport and Cultural Industries released the Review of *Cemeteries Act 1986* and *Cremation Act 1929* Discussion Paper in November 2023 for public submission.
- WALGA was granted an extension to the submission closing period of 16 February 2024 to permit sector involvement in providing feedback from the Zone process and State Council consideration.

WALGA RECOMMENDATION

That WALGA:

1. **Supports the intent of the Review of Cemeteries Act 1986 and Cremation Act 1929 Discussion Paper to reduce red tape, modernise legislation and standardise administrative practices; and**
2. **Advocates that Local Government cemetery managers retain the capacity to impose cemetery fees and charges under Part 6 of the Local Government Act.**

POLICY TEAM AND COMMITTEE REPORTS

- 9.1 Environment Policy Team Report
- 9.2 Governance Policy Team Report
- 9.3 Infrastructure Policy Team Report
- 9.4 People and Place Policy Team Report

9.5 Municipal Waste Advisory Council (MWAC) Report

MATTERS FOR NOTING / INFORMATION

10.1 2024-25 Federal Budget Submission

10.2 Emergency Management Sector Adaptation Plan (EM-SAP) Local Government Consultation Project

RESOLUTION

Moved: Shire of Nungarin

Seconded: Shire of Tammin

That the Great Eastern Country Zone:

- 1. Supports all Matters for Decision as listed above in the March 2024 State Council Agenda; and**
- 2. Notes all Matters for Noting, Policy Team and Committee Reports and Organisational Reports as listed in the March 2024 State Council Agenda.**

CARRIED

12.3 WALGA President's Report

The WALGA President's Report was attached to the agenda.

RESOLUTION

Moved: Shire of Koorda

Seconded: Shire of Wyalkatchem

That the Great Eastern Country Zone notes the WALGA President's Report.

CARRIED

13. Emerging Issues

NIL

14. Date, Time, and Place of Next Meetings

The next Executive Committee meeting will be held on Tuesday 2 April, via MS Teams – 8am.

The next Great Eastern Country Zone meeting will be held on Thursday 11 April commencing at 9.30am. This meeting will be hosted by the Shire of Kellerberrin.

15. Closure

There being no further business the Chair declared the meeting closed at 12.19pm.



WEROC Inc. Board Meeting MINUTES

Wednesday 6 March 2024

Shire of Westonia Council Chambers
Wolfram Street

WEROC Inc. | Incorporating the Shires of Bruce Rock, Kellerberrin, Merredin, Tammin, Westonia and Yilgarn

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WEROC Inc.

Wheatbelt East Regional Organisation of Councils Inc.

Shires of Bruce Rock, Kellerberrin, Merredin, Tammin, Westonia, Yilgarn

MINUTES

Minutes of the Board Meeting held in Westonia on Wednesday 6 March 2024.

1. OPENING AND ANNOUNCEMENTS

Ms. Renee Manning as Chair of WEROC Inc. welcomed Members of the Board and opened the meeting at 1.39pm.

2. RECORD OF ATTENDANCE AND APOLOGIES

2.1 Attendance

Ms. Emily Ryan (joined via videoconference)

Mr. Mark Crees

Mr. Wayne Della Bosca

Ms. Renee Manning (Chair)

Mr. Bill Price

Mr. Ramesh Rajagopalan

Ms. Joanne Soderlund

Ms. Charmaine Thomson (Deputy Chair)

Ms. Rebekah Burges, Executive Officer

2.2 Apologies

Mr. Darren Mollenoyux

Mr. Nic Warren

Mr. Raymond Griffiths

2.3 Guests

Mr. John Merrick, Acting Chief Executive Officer, Shire of Merredin

Mr. Cameron Watson, Executive Manager Corporate Services, Shire of Yilgarn

Ms. Vanessa King, Town Team Builder, WEROC (joined the meeting at 1.39pm and left at 2.02pm)

Ms. Jacquie Lucas, Corella Project Coordinator, Wheatbelt NRM (joined the meeting via videoconference at 2.02pm and left at 2.20pm)

Dr. Karl O'Callaghan, Chief Executive Officer, Wheatbelt NRM (joined the meeting via videoconference at 2.02pm and left at 2.20pm)

Mr. Alex MacKenzie, Senior Regional Development Officer, Wheatbelt Development Commission (joined the meeting via videoconference at 2.30pm and left at 2.55pm)

3. DECLARATIONS OF INTEREST

As per Clause 42 of the Associations Incorporation Act 2015, “a member of the management committee of an incorporated association who has a material personal interest in a matter being considered at a management committee meeting must, as soon as the member becomes aware of the interest, disclose the nature and extent of the interest to the management committee”.

Name	Agenda Item / Initiative	Disclosure
Ms. Joanne Soderlund	7.4 Discussion and decisions arising from presentation by Ms. Jacquie Lucas	Ms. Soderlund noted a potential conflict as a result of her husband being on the Board of Wheatbelt NRM.

4. PRESENTATIONS

4.1 Ms. Vanessa King, Town Team Builder, WEROC (1.30pm)

Ms. Vanessa King commenced in the role of Town Team Builder for WEROC on 29 January 2024. Ms. King is contracted for the equivalent of one day (8 hours) per week for a term of 12 months. The key deliverables for Ms. King include:

- Supporting established town teams and local governments to identify placemaking opportunities.
- Establishing new town teams in communities where they don’t already exist.
- Providing guidance and support to new and established town teams.
- Planning and delivery of town team events.
- Facilitation of one “do-over” event per annum including seeking funding and applying for grants for the event.
- Work with WEROC Shires to educate their communities about community-led placemaking.

The Executive Officer met with Ms. King via videoconference when she commenced in the role and asked that she prepare a proposed schedule of works to deliver against these key performance areas, along with some indicative costing. Ms. King will join the Board to discuss her proposed approach.

Comments from the meeting:

- Ms. King talked to a PowerPoint presentation, which will be circulated to Members along with the minutes of this meeting.
- Ms. King proposed that the first WEROC “do-over” be held in Bruce Rock in late September or early October 2024. The approximate cost of this will be \$15,000 - \$20,000 of which \$5,000 would need to be committed by WEROC and \$5,000 would be provided through the FRRR funding that Town Teams secured last year.
- Mr. Ram Rajagopalan queried why Bruce Rock had been suggested as the location for the first do-over. Ms. King advised that she is familiar with the Bruce Rock community and has well established relationships within the community.
- Mr. Rajagopalan also queried who the target audience for these events is (i.e., the immediate community or the broader WEROC community). Ms. King advised that it can be either and this is a decision for WEROC.
- Mr. Mark Crees asked what the purpose of the do-over events was. Ms. King advised that it is essentially a demonstration of what Town Teams can achieve and that each year the location of the event would change to showcase another WEROC community.
- Several members noted that they already have progress associations or similar in their towns and they would not want to see any duplication. Ms. King advised that existing groups could become a town team.

Ms. King left the meeting at 2.02pm and did not return.

4.2 Ms. Jacquie Lucas, Corella Project Coordinator, Wheatbelt NRM (2.00pm)

Attachment 1: *Corellas in the Wheatbelt information sheet.*

Attachment 2: *Scope of works for corella management project.*

Attachment 3: *Corella Stakeholder Engagement Plan*

In October 2023, Wheatbelt NRM advised that Ms. Jacquie Lucas had been appointed to oversee the Corella Management Project which WEROC is contributing to, alongside CBH and AROC. At the WEROC Inc. Board meeting held on 29 November 2023 it was requested that Ms. Lucas be asked for an update on how the eradication strategy is progressing and for a timeline for implementation. On 22 December 2023, Ms. Lucas provided a scope of works and information sheet, which are attached. The Executive Officer also requested that Ms. Lucas advise of her planned approach to engaging with the funding partners. Ms. Lucas advised that she was updating the stakeholder engagement plan and aimed to have this out before Christmas. An updated stakeholder engagement plan has not yet been provided. The original plan sent through in May last year is attached for reference.

Ms. Lucas and Dr. Karl O'Callaghan will join the meeting to provide a further update.

Comments from the meeting:

- Ms Jacquie Lucas provided the following update:
 - A scope of works, communication plan and stakeholder engagement plan were circulated via email prior to the meeting. Ms. Lucas requested that feedback on these documents be provided by the end of the month.
 - Wheatbelt NRM have been investigating the use of a euthanising agent as a control method. This is currently going through the Government processes for approval. If approval is granted use will be permit based. They intend on conducting a trial in Toodyay if they are successful. Merredin has also expressed an interest in trialling the method.
 - An email has been sent to all Shire CEO's requesting information on the financial impact of corellas. There have been limited responses to date and Ms. Lucas requested that all CEO's reply as soon as they are able.
 - Wheatbelt NRM will be sending out emails in the near future reminding participating organisations of their budget commitments for this project for the 2024-25 financial year.
- Ms. Lucas talked to a PowerPoint presentation, which will be circulated to Members along with the minutes of this meeting. The focus of this presentation was on the information gathering survey commissioned by Wheatbelt NRM late last year.
- Ms. Joanne Soderlund commented that while the data presented is good information to have, it does not tell us anything new, it just confirms what we already know. Ms. Soderlund noted that from the Shire of Tammin's perspective they were hoping to have by now, some practical on the ground solutions. Ms. Lucas responded by saying that she only started work on this project in July 2023 and invoices were only sent to participating organisations in November. Dr. O'Callaghan responded by saying that they are investigating the euthanising agent as previously mentioned but because they are proposing to try something that is different to the usual method, it takes time to go through the bureaucratic process and they need the economic data they are trying to gather from Local Governments to escalate the discussion with State Government.

Due to technical difficulties the presentation was disrupted. Ms. Renee Manning advised Ms. Lucas and Dr. O'Callaghan that as a result of the IT complications, any further comments or queries would be relayed to them via email after the meeting for a response.

Ms. Lucas and Dr. O'Callaghan left the meeting at 2.20pm and did not return.

4.3 Mr. Alex MacKenzie, Senior Regional Development Officer, Wheatbelt Development Commission (2.30pm)

At the WEROC Inc. Board meeting held on 29 November 2023, the Executive Officer advised that based on the recommendation of Mr. Alex MacKenzie, work on a WEROC Housing Analysis would be held over until early 2024 to allow all Shire's time to complete their review of the initial housing data prepared by the Wheatbelt Development Commission and to allow WEROC to better leverage off the sub-regional work taking place across other parts of the Wheatbelt. Mr. MacKenzie will join the meeting to provide an update on the work already in progress and advise on next steps for WEROC.

Comments from the meeting:

- Mr. Alex MacKenzie provided the following update on the work being supported by the Wheatbelt Development Commission in other parts of the Wheatbelt:
 - Since completing their initial housing analysis, the 4WDL group of Shires have completed comprehensive market testing to ascertain the type of housing, pricing points, etc. that is feasibly going to work in their area.
 - The 4WDL group have identified some "quick win" sites for development (8 in total).
 - This group identified 120 sites across their respective Shires but found that only around 14% of these sites were capable of development in their current state.
 - Across the Wheatbelt there is an unmet demand for 500 workers to be housed right now and based on population growth projections it is believed that there will be an additional 450 workers that need to be housed.
- Mr. MacKenzie noted that there is some positive work that has already been done across the 7 shires involved in the Growing Regions Program application (this includes the WEROC Shires of Tammin, Kellerberrin and Bruce Rock) but there is a bit more work that needs to be done on site specific implications of development.
- Mr. MacKenzie advised that he has spoken with ROEROC and NEWROC about a staged approach to assessing housing needs across these areas.
- Ms. Renee Manning asked each Shire to provide an indication of their current housing needs:
 - Ms. Joanne Soderlund advised that the Shire of Tammin are still waiting on the outcome of the growing regions application. There is potential for the headworks costs to be funded under the infrastructure development fund.
 - Mr. Wayne Della Bosca advised that the Shire of Yilgarn are currently building two new houses which will be completed in the coming months. The difficulty once they are built will be deciding who gets to rent them because there are more people needing accommodation than what they can provide.
 - Ms. Rennee Manning advised that in the Shire of Merredin houses are purchased almost as soon as they go on the market. Someone has purchased the old flying school houses and there is a possibility that they will be used for GROH housing.
 - Mr. Bill Price advised that Westonia have no public housing and no government workers so social and GROH housing are not a consideration for them. The Shire own the majority of houses in the town and when the mine closes at the end of the year, they will have vacancies. There are currently three private homes being built.
 - Mr. Ram Rajagopalan advised that in Bruce Rock the biggest issue is demand for housing from Bruce Rock Engineering. They buy anything the goes to market and still need more. GROH have asked the Shire to build two new houses but with the investment in the supermarket they are not in a position to do so at present.

- Ms. Soderlund asked Mr. MacKenzie what he would advise WEROC to do from here. Mr. MacKenzie advised that subject to interest from WEROC there is an opportunity for WDC to assist in a collective scope of works and also a Shire specific scope of works, recognising that some Shires are more advanced in their assessment of housing needs and development opportunities than others. The approximate cost to proceed with a housing analysis would be \$8,000 - \$10,000 per Shire and the work would commence mid-April with a completion date in late July. The output of this work would be something ready to take to market or to lobby government for program delivery aligned to what the needs are.

Mr. MacKenzie left the meeting at 2.55pm and did not return.

5. MINUTES OF MEETINGS

5.1 Minutes of the WEROC Inc. Board Meeting held on Wednesday 29 November 2023

Minutes of the WEROC Inc. Board Meeting held in Bruce Rock on Wednesday 29 November 2023 have previously been circulated.

Recommendation:

That the Minutes of the WEROC Inc. Meeting held in Bruce Rock on Wednesday 29 November 2023 be confirmed as a true and correct record.

RESOLUTION:

Moved: Mr. Ram Rajagopalan

Seconded: Ms. Joanne Soderlund

That the Minutes of the WEROC Inc. Meeting held in Bruce Rock on Wednesday 29 November 2023 be confirmed as a true and correct record.

CARRIED

5.2 Business Arising – Status Report

Attachment 4: Eastern Wheatbelt self-drive trail, trail marker

Attachment 5: Eastern Wheatbelt self-drive trail, tourist information sign

Attachment 6: WMSIP Meeting 7 December 2023 Summary Notes

Actions Arising from the WEROC Inc. Board Meeting held on 29 November 2023.

Agenda Item	Action(s)	Status
7.2 Signatories to the WEROC Inc. Bank Accounts	1) Remove Ms. Emily Ryan as approver. 2) Add Ms. Renee Manning as approver	Ms. Emily Ryan has been removed as a signatory. Ms. Renee Manning has not yet been added.
7.3 WEROC Futures Discussion	1) Organise a CEO Committee meeting to discuss operational challenges 2) Distribute Shire survey in January 3) Consolidate information and present at first WEROC Board meeting for 2024	A survey was circulated to all Shire CEOs on 8 January with a request that it be completed by 9 February. The CEO Committee meeting planned for 22 February 2024 did not proceed. Further information is provided under Agenda item 7.1.
7.4 WEROC Drive Trail	1) Order 2,000 printed copies of the drive trail map/brochure	Printed copies of the map/brochure will be distributed to the Member Shires at the March meeting.

	2) Engage graphic designers to prepare a trail marker and tourist information sign.	A link to the print ready versions of the trail signage have been provided to WEROC CEO's. Low resolution versions are provided as an attachment.
7.5 Wheatbelt Medical Student Immersion Program	Arrange a meeting with Rural Health West and Notre Dame to discuss concerns and suggestions for the program.	A meeting was held via videoconference on 7 December 2023. In attendance were Mr. Raymond Griffiths, Mr. Darren Mollenoyux, Ms. Emily Ryan, Ms. Betony Dawson (Rural Health West), Ms. Tallulah Sargon (Rural Health West) and Professor Donna Mak (UND). The summary notes from this meeting were circulated via email and are provided again as an attachment.
8.1 Corella Management	1) Request an update on progress with the eradication strategy and a timeline for implementation 2) Invite Ms. Jacquie Lucas to the March 2024 meeting of the WEROC Inc. Board.	Ms. Jacquie Lucas provided an information sheet and scope of works on 22 December 2023. This was forwarded to CEOs on the same day. Ms. Lucas will present at the March meeting.
8.2 Town Team Movement	1) Finalise contract with Ms. Vanessa King 2) Request that a proposed schedule of works be presented to the WEROC Board at the March 2024 meeting.	Ms. King commenced in the role of Town Team Builder for WEROC on 29 January 2024. Ms. King was asked to prepare a proposed schedule of activities to deliver against the agree key performance areas and an indicative budget for these activities. Ms. King will present this scope of works at the March meeting.
8.3 Co-operative marketing	Advise Australia's Golden Outback that WEROC will no longer promote the Golden Pipeline Heritage Trail and will instead focus on marketing the Eastern Wheatbelt self-drive trail.	Australia's Golden Outback were advised of the Board's decision and have created content for the Eastern Wheatbelt self-drive trail on their website. This will be used in the Wheatbelt Weekends Road-Trip Campaign Autumn/Winter 2024.
8.4 WEROC Housing Analysis	Follow up with Mr. Alex MacKenzie (Wheatbelt Development Commission) in early 2024 to develop a scope of works for a WEROC housing analysis.	The Executive Officer contacted Mr. MacKenzie in January 2024 to discuss a planned approach to this work. Mr. MacKenzie will present at the March meeting.

Recommendation:

That the status report be received.

Comments from the meeting:

- The Executive Officer reminded Members that the drive trail signage designs have been completed and it is now up to each individual Shire to order and pay for their own signage through their preferred supplier as had been previously agreed.

RESOLUTION: **Moved:** Mr. Ram Rajagopalan **Seconded:** Mr. Wayne Della Bosca

That the status report be received.

CARRIED

6. WEROC INC. FINANCE

6.1 WEROC Inc. Financial Report as of 31 January 2024

Author: Rebekah Burges, Executive Officer

Disclosure of Interest: No interest to disclose.

Date: 1 February 2024

Attachments: Nil

Voting Requirement: Simple Majority

At the WEROC Inc. Board Meeting held on 26 April 2023 the budget for the financial year commencing 1 July 2023 and ending 30 June 2024 was adopted. The approved Budget 2023-24 is used as the basis for the financial report.

An explanation for each of the notations on the financial report is provided below.

Note 1	Annual Financial contributions paid by Member Local Governments.
Note 2	GST received
Note 3	GST refund for Q4 BAS 2022-23 and Q2 BAS 2023-24
Note 4	Executive Officer services
Note 5	Executive Officer travel to Board and other meetings
Note 6	Monthly subscription fee for Xero accounting software
Note 7	Payment to Audit Partners Australia for completing the audit of WEROC finances for the 2022-23 financial year
Note 8	Payments to the Shire of Merredin for the Central Wheatbelt Visitor Centre mail out service, Flat Earth Mapping for the design of the WEROC Drive Trail map, Strike Point Graphic design for the WEROC drive trail informational sign, Seed Studio for the graphic design of the WEROC drive trail marker sign, Australia’s Golden Outback for co-operative marketing activities in 2023-24 and Vanguard Publishing for advertisement in the AGO 2024 Holiday Planner.
Note 9	Payments to PWD for the 12-month website hosting fee and SSL certificate for website
Note 10	Payments to Local Community Insurance Services for insurances for WEROC Inc. including workers compensation, Cyber insurance, Public and Products Liability, Associations and Officials Liability and Personal Accident – Volunteer Workers.
Note 11	Transfer to Term Deposit.
Note 12	GST paid
Note 13	GST paid for Q1 BAS 2023-24

Note 14	Actual expenditure exceeds total budgeted expenditure for the financial year because of the unbudgeted transfer of funds to a Term Deposit.
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WEROC Inc.
ABN 28 416 957 824
1 July 2023 to 30 June 2024

		Budget 2023/2024	Actual to 31/01/2024	Notes
INCOME				
0501	General Subscriptions	\$72,000.00	\$72,000.00	1
504.01	Consultancy & Project Reserve	\$0.00	\$0.00	
0575	Interest received	\$0.00	\$0.00	
584	Other Income	\$0.00	\$0.00	
	GST Output Tax	\$7,200.00	\$7,200.00	2
	GST Refunds	\$5,083.15	\$3,941.00	3
Total Receipts		\$84,283.15	\$83,141.00	
EXPENSES				
1545	Bank Fees & Charges	\$0.00	\$0.00	
1661.01	WEROC Inc. Executive Services	\$34,500.00	\$17,783.17	4
1661.02	Executive Officer Travel and Accommodation	\$1,000.00	\$707.00	5
1661.03	WEROC Executive Officer Recruitment	\$1,000.00	\$0.00	
1687	WEROC Financial Services Accounting	\$1,000.00	\$477.26	6
1687.03	WEROC Financial Services Audit	\$1,050.00	\$982.00	7
1585	WEROC Consultant Expenses	\$60,000.00	\$26,204.73	8
1850	WEROC Management of WEROC App & Website	\$420.00	\$685.00	9
1801	WEROC Meeting Expenses	\$500.00	\$0.00	
1851	WEROC Insurance	\$6,300.00	\$5,953.61	10
1852	WEROC Legal Expenses	\$2,000.00	\$0.00	
1853	WEROC Incorporation Expenses	\$0.00	\$0.00	
1854	Transfer to Term Deposit	\$0.00	\$100,000.00	11
1930	WEROC Sundry	\$300.00	\$0.00	
3384	GST Input Tax	\$10,807.00	\$4,859.69	12
	ATO Payments	\$2,393.33	\$5,908.00	13
Total Payments		\$121,270.33	\$163,560.46	14
Net Position		-\$36,987.18	-\$80,419.46	
OPENING CASH 1 July		\$181,216.58	\$181,083.80	
CASH BALANCE		\$144,229.39	\$100,664.34	

Recommendation:

That the WEROC Inc. financial report for the period 1 November 2023 to 31 January 2024, be received.

RESOLUTION: **Moved:** Mr. Ram Rajagopalan **Seconded:** Ms. Renee Manning

That the WEROC Inc. financial report for the period 1 November 2023 to 31 January 2024, be received.

CARRIED

6.2 Income, Expenditure & Balance Sheet

Author: Rebekah Burges, Executive Officer
Disclosure of Interest: No interest to disclose.
Date: 1 February 2024
Attachments: Nil
Voting Requirement: Simple Majority

A summary of income and expenditure for the period 1 November 2023 to 31 January 2024 is provided below.

Date	Description	Credit	Debit	Running Balance
Opening Balance		139,487.59		
01 Nov 2023	Payment: PWD Australia		66.00	139,421.59
13 Nov 2023	Payment: 150 Square Pty Ltd		2,731.50	136,690.09
20 Nov 2023	Payment: ATO		5,908.00	130,782.09
24 Nov 2023	Payment: Code Research Australia		225.50	130,556.59
04 Dec 2023	Payment: Seed Studio		140.00	130,416.59
12 Dec 2023	Payment: Wheatbelt NRM		6,300.00	124,116.59
12 Dec 2023	Payment: 150 Square Pty Ltd		3,631.50	120,485.09
13 Dec 2023	Payment: Wheatbelt NRM		7,450.00	113,035.09
20 Dec 2023	Payment: Flat Earth Mapping Pty Ltd		7,625.75	105,409.34
20 Dec 2023	Payment: Seed Studio		140.00	105,269.34
22 Dec 2023	Strike Point Graphic Design		825.00	104,444.34
22 Dec 2023	Payment: Vanguard Publishing		841.50	103,602.84
09 Jan 2024	150 Square Pty Ltd		2,662.50	100,940.34
25 Jan 2024	Australia's Golden Outback		3,300.00	97,640.34
25 Jan 2024	ATO	3,024.00		100,664.34
TOTAL		3,024.00	41,847.25	100,664.34
Closing Balance		100,664.34		

Balance Sheet

Wheatbelt East Regional Organisation of Councils Inc
As at 31 January 2024

	31 JAN 2024
Assets	
Bank	
Term Deposit	100,000.00
Westpac Community Solution One	100,664.34
Total Bank	200,664.34
Total Assets	200,664.34
Liabilities	
Current Liabilities	
GST	601.30
Total Current Liabilities	601.30
Non-current Liabilities	
GST Clearing	(1,154.00)
Total Non-current Liabilities	(1,154.00)
Total Liabilities	(552.70)
Net Assets	201,217.04
Equity	
Current Year Earnings	19,207.23
Retained Earnings	182,009.81
Total Equity	201,217.04

Recommendation:

That the WEROC Inc. summary of income and expenditure for the period 1 November 2023 to 31 January 2024 be received.

That the Accounts Paid by WEROC Inc. for the period 1 November 2023 to 31 January 2024 totalling \$41,847.25 be approved.

That the Balance Sheet as of 31 January 2024 be noted.

RESOLUTION:

Moved: Ms. Charmain Thomson

Seconded: Mr. Wayne Della Bosca

That the WEROC Inc. summary of income and expenditure for the period 1 November 2023 to 31 January 2024 be received.

That the Accounts Paid by WEROC Inc. for the period 1 November 2023 to 31 January 2024 totalling \$41,847.25 be approved.

That the Balance Sheet as of 31 January 2024 be noted.

CARRIED

7. MATTERS FOR DECISION

7.1 WEROC Futures Discussion

Author: Rebekah Burges, Executive Officer

Disclosure of Interest: No interest to disclose.

Date: 22 February 2024

Attachments: Attachment 7: WEROC Futures Discussion Summary Report

Consultation: WEROC CEO’s

Financial Implications: NA

Voting Requirement: Simple Majority

Background:

At the WEROC Inc. Board meeting held on 29 November 2023, a staged approach to the discussion on future priorities for WEROC was agreed and is outlined below:

Activity	Timeframe
Initial discussion with all WEROC Board Members to identify expectations of WEROC and to discuss what has been working well to date and what can be improved in future.	29 November 2023
Shire survey to identify social, economic, and operational priorities and challenges.	January - February 2024
WEROC CEO Committee meeting to discuss common pain points and opportunities for collective action.	22 February 2024
WEROC Inc. Board to agree on priorities and actions for WEROC over the next 1 – 5 years.	Board Meeting on 6 March 2024

Executive Officer Comment:

A summary of the input provided at the WEROC meeting held in November 2023 and the Shire survey is provided as Attachment 7. The WEROC CEO Committee planned for 22 February did not proceed due to availability of members. The purpose of that meeting was to delve deeper into some of the common challenges and discuss potential resolutions and opportunities for collaborative action, which would then help in determining the priorities and actions for WEROC over the near to medium term.

From the information supplied through the Shire survey (noting that not all Shire’s responded) the Executive Officer makes the following observations:

Economic:

- New economic activity in the area overall is quite limited.
- There is pressure on existing businesses (reduced hours, empty shop fronts, closures).
- Lack of accommodation is a major limiting factor.
- Possible areas of focus for WEROC – worker accommodation, tourism (product development and marketing) and leveraging opportunities from any major projects (social responsibility angle?).

Social:

- A range of social infrastructure projects are being pursued individually.
- Supporting aging in place is a common priority.
- Possible area of focus for WEROC – collective age friendly planning review/renewal (not every Shire has an age friendly community plan and for those that do, they are outdated).

Operational:

- Challenges exist around compliance and auditing requirements and access to skilled labour.
- Possible areas of focus for WEROC – resource sharing arrangement for hard to fill roles, focused discussion on local government reform challenges and opportunities to collaborate.

Some questions to consider in advance of the meeting and to prompt discussion during the meeting are provided below:

- 1) What other (i.e., not already captured in the survey) operational constraints or challenges are limiting progress for your Shire?
- 2) What other contextual constraints or challenges are limiting progress (economic, social, environmental) in the region?
- 3) What are the strengths or assets of the WEROC region that we should be trying to leverage?
- 4) What are the most impactful things WEROC can do to tackle these challenges or capitalize on these strengths/assets?

Recommendation:

That the Board consider the summary report presented and discuss future focus areas and actions for WEROC Inc.

Comments from the meeting:

- It was requested that discussion on this item be deferred until such time that the CEO's have met and the Shire's of Yilgarn and Kellerberrin have completed the survey.

RESOLUTION:

Moved: Mr. Ram Rajagopalan

Seconded: Ms. Renee Manning

That discussion on this matter be held over until the next meeting.

CARRIED

7.2 Central Wheatbelt Visitors Centre MoU Renewal

Author: Rebekah Burges, Executive Officer
Disclosure of Interest: No interest to disclose.
Date: 1 February 2024
Attachments: *Attachment 8: CWVC MoU Revisions for Consideration*
Consultation : Nil
Financial Implications: As per Schedule 3 of the MoU.
Voting Requirement: Simple Majority

Background:

The current Memorandum of Understanding between the Shire of Merredin and the WEROC Shires and the Shire of Cunderdin will expire on 30 June 2024. The Shire of Merredin have asked that the WEROC Member Shires give consideration to an extension of the MoU for a further three (3) years.

Executive Officer Comment:

WEROC Inc. is not a signatory to the MoU, rather the individual Members Shires are. WEROC however cover the costs of the additional activities detailed in Schedule 2. The cost to WEROC for these additional activities in 2023 was \$6,205.40 (inc. GST). This was made up of the following:

- Co-operative marketing in collaboration with Australia's Golden Outback, NEWTravel, Roe Tourism and Pioneers Pathway. The Central Wheatbelt Visitors Centre (CWVC) does not make a financial contribution toward this co-operative marketing but does provide input/direction. The cost to WEROC in 2023/24 was \$3,300 (inc. GST).

- Brochure mail out service provided by the CWVC in response to marketing campaigns. The cost to WEROC over the past three years has been:
 - 1 November 2022 – 30 September 2023 = \$318.70 (inc. GST)
 - 1 October 2021 – 30 November 2022 = \$416.05 (inc. GST)
 - 1 October 2020 to 31 October 2021 = \$442.60 (inc. GST)
- Full page advertisement in the Eastern Wheatbelt Visitors Guide to promote the Golden Pipeline Heritage Trail. In 2023 the cost of this was \$1,325 (inc. GST)
- Australia’s Golden Outback Annual Holiday Planner advertisement to promote self-drives through the Central Wheatbelt (GPHT and Pioneer’s Pathway). This cost is split between Pioneers Pathway, CWVC and WEROC. In 2023 the cost of this to WEROC was \$841.50 (inc. GST).
- Annual Perth Caravan & Camping Show exhibit. This cost is split between AGO, WEROC, NEWTravel, Pioneers Pathway and Roe tourism – this is in addition to the \$3,300 toward marketing activity. The CWVC do not contribute toward the cost of the exhibitor space, but they do provide staff to attend and cover associated travel expenses. The cost to WEROC in 2023 was \$420.20 (inc. GST).

There is currently no wording in the MoU that specifies the role of WEROC as an entity separate to the Member Shires. It is therefore suggested that the wording in Schedule 3 be changed to reflect the contributions made by WEROC in addition to the contributions made by the individual Shires. Suggested edits have been highlighted in Attachment 8.

Recommendation:

That the suggested edits be adopted and the WEROC Shire’s agree to an additional three year term of the MoU.

RESOLUTION:

Moved: Mr. Ram Rajagopalan

Seconded: Ms. Joanne Soderlund

That the suggested edits to the MOU be adopted and the Central Wheatbelt Visitors Centre be advised of the WEROC Shire’s intention to extend the agreement for an additional three year term.

CARRIED

7.3 Discussion and Decisions Arising from the Presentation by Ms. Vanessa King

Author: Rebekah Burges, Executive Officer

Disclosure of Interest: No interest to disclose.

Date: 1 February 2024

Attachments: Nil

Voting Requirement: Simple Majority

Executive Officer Comment:

Following the presentation from Ms. Vanessa King it may be appropriate for the WEROC Inc. Board to consider what, if any, further action is required on this matter.

Recommendation:

That the information as presented by Ms. Vanessa King be considered, and the matter discussed.

Comments from the meeting:

- Mr. Ram Rajagopalan noted that it was still not clear what we are trying to achieve with the proposed “do-over” event and suggested that rather than selecting a date or location for this event, the first step should

be establishing a rapport with existing community groups. Once the groups are engaged in the concept, they should be the ones to drive the agenda.

- Ms. Emily Ryan noted that the Kellerberrin Town Team was established two years ago, and they were responsible for installing flower beds at the front of the shops on the main street but have not been active since. Ms. Ryan suggested that the Town Teams and Shires need to work closely together.
- Ms. Renee Manning reiterated that the focus for Ms. King should be on working in with existing groups and not on establishing new ones.
- Ms. Charmain Thomson suggested that Vanessa should contact each Shire individually and coordinate with them, a time to meet with established community groups.

RESOLUTION: **Moved:** Mr. Ram Rajagopalan **Seconded:** Ms. Charmain Thomson

Request that Ms. King contact Shire's individually to coordinate a meeting with established community groups to discuss the Town Team concept and benefits.

CARRIED

7.4 Discussion and Decisions Arising from the Presentation by Ms. Jacquie Lucas

Author: Rebekah Burges, Executive Officer

Disclosure of Interest: As per Agenda item 3

Date: 1 February 2024

Attachments: Nil

Voting Requirement: Simple Majority

Executive Officer Comment:

Following the presentation from Ms. Jacquie Lucas it may be appropriate for the WEROC Inc. Board to consider what, if any, further action is required on this matter.

Recommendation:

That the information as presented by Ms. Jacquie Lucas be considered, and the matter discussed.

Comments from the meeting:

- Mr. Ram Rajagopalan commented that it is not clear from the presentation where this project is going or why WEROC would continue to fund it.
- Several Members noted their disappointment in the lack of progress, reaffirming that the expectation was that we would have some strategies/solutions by now.
- Mr. John Merrick noted that the euthanising agent mentioned by Ms. Lucas as been explored as a solution in the past and was rejected because it is non-descript (i.e., it will kill any bird not just corella's).

RESOLUTION: **Moved:** Mr. Ram Rajagopalan **Seconded:** Ms. Joanne Soderlund

Request that Wheatbelt NRM coordinate a face to face meeting of all project funding partners as soon as possible, as per the original Stakeholder Engagement Plan.

CARRIED

7.5 Discussion and Decisions Arising from the Presentation by Mr. Alex MacKenzie

Author: Rebekah Burges, Executive Officer

Disclosure of Interest: No interest to disclose.

Date: 1 February 2024

Attachments: Nil

Voting Requirement: Simple Majority

Executive Officer Comment:

Following the presentation from Mr. Alex MacKenzie it may be appropriate for the WEROC Inc. Board to consider what, if any, further action is required on this matter.

Recommendation:

That the information as presented by Mr. Alex MacKenzie be considered, and the matter discussed.

Comments from the meeting:

- Mr. Ram Rajagopalan noted that WALGA are undertaking an accommodation survey at zone level. CEACA are also doing working in the accommodation space now, that is not restricted to aged housing. Several WEROC Shires are also already involved in the growing regions program application.
- Ms. Joanne Soderlund suggested that rather than a generic housing analysis it may be better to have something tailored to an opportunity otherwise it risks just being another planning document with no tangible benefit.
- Ms. Soderlund also suggested that perhaps we can go back to Mr. MacKenzie with the information already gathered to see what can be done with that and to request site specific assistance on developing the sites that have already been identified.

RESOLUTION:

Moved: Ms. Renee Manning

Seconded: Mr. Ram Rajagopalan

That the information as presented by Mr. Alex MacKenzie was considered and discussed.

CARRIED

8. PROJECT UPDATES

8.1 Corella Management Project

As per presentation from Ms. Jacquie Lucas.

8.2 Town Team Movement

As per presentation from Ms. Vanessa King.

8.3 WEROC Housing Analysis

As per presentation from Mr. Alex MacKenzie.

8.4 Waste Management

The Executive Officer invites Members to provide any updates on progress with the agreed actions to implement the WEROC Strategic Waste Management Plan.

- Mr. John Merrick advised that Merredin are going ahead with the development of more cells and will be ready in future for more Shires to come across when they are ready to do so.
- Mr. Bill Price advised that they are going to work in with the Shire of Yilgarn for their future waste management required.

8.5 Co-Operative Marketing Activity

WEROC Inc. as a partner organisation to the Wheatbelt Co-operative Marketing Group, committed \$3,000 + GST in 2023-24 to cooperative marketing initiatives in conjunction with Roe Tourism, NEW Travel, Pioneers Pathway and Australia's Golden Outback.

A road trips campaign is in the works at present, with the aim of encouraging travel to the region heading into Autumn/Winter. The primary target market for this is families. The campaign will include a Perth Now feature article, a paid social media and email campaign, sponsored social media posts and a radio campaign.

8.6 Wheatbelt Medical Student Immersion Program 2024

Attachment 9: WMSIP Itineraries 2024

The Wheatbelt Medical Student Immersion Program for 2024 will take place from 12 – 15 March 2024. As per the discussion held with Rural Health West and the University of Notre Dame on 7 December 2023, the itineraries for this year’s program incorporate more opportunities for students to experience the towns social infrastructure and participate in community activities. A copy of the itineraries as of 28 February 2024, are attached. A debrief for WEROC Board Members with Rural Health West and the University of Notre Dame is scheduled for 11.00am on Thursday 28 March.

9. EMERGING ISSUES

9.1 Power & Telecommunications

In the wake of the extended power and telecommunications outages experienced across the Wheatbelt in January 2024, the Wheatbelt Business Network called a meeting to discuss a coordinated approach. In the meeting was the Wheatbelt Development Commission CEO, RDA Wheatbelt Director of Regional Development, WBN CEO, NEWROC and WEROC Executive Officers. Since this meeting, it is understood that the following has occurred:

- WALGA coordinated a round table discussion with impacted Shires.
- NEWROC have completed an economic impact assessment and are preparing media exposure and meetings with Ministers, etc.
- The Wheatbelt Business Network has completed a survey and compiled some case studies to demonstrate the personal and business impact.

The WEROC Board may like to consider, what, if any, action we can take to advocate for improved reliability of power and telecommunications supply in our part of the region.

The Shire of Merredin might like to provide an update on the proposed battery energy storage system, which will reportedly boost the SWIS grid system reliability in the Wheatbelt and Goldfields regions.

Comments from the meeting:

- It was noted that there was considerable talk on this topic at the last Zone meeting and a representative from Telstra was in attendance. The impression that was given is that Telstra have no intention to make improvements to regional towers because technology advancements will likely make them redundant in the coming years.
- The Shire of Merredin advised that they have received a development application for battery energy storage system that will be located adjacent to the solar farm and Western Power sub-station. The cost of the project is \$220 million. The public comment period is about to close, and Council will consider the application at its March meeting.
- In terms of any action from WEROC, it was decided that the best course of action for now is to continue to push for the Zone to demand action.

10. OTHER MATTERS (FOR NOTING)

10.1 Research Report – Rural Health Concerns

Attachment 10: Article from the International Journal of Whole Person Care

In the second half of 2019, WEROC funded a pilot research project undertaken by Dr Andrew Harper, Adjunct Clinical Professor at the Curtin Medical School. An initial report on this work was tabled at a WEROC meeting held on Thursday 28 November 2019. It was intended that the study, which originally only included Merredin and Westonia, be extended to the remaining WEROC Shires but this was not pursued due to the COVID pandemic. A copy of the research article, which was published this year, has been forwarded to WEROC and is provided as an attachment.

10.2 McCusker Centre Internship Program

Attachment 11: Regional Internships Booklet

At the last meeting of the WEROC Inc. Board an opportunity was identified to engage with the McCusker Centre for Citizenship's Internship program. Details of this program are summarized below:

- The program allows UWA students the opportunity to contribute towards a project in a community-minded organisation.
- A diverse range of intern projects are accepted, including but not limited to social impact analysis and research projects, marketing and events, data modelling and 3D imaging.
- Four internship rounds are offered per year:
 - Late February to late May
 - Mid-June to mid-July
 - Mid-July to mid-October
 - Mid-November to mid-December
- To be eligible to host an intern the following criteria must be met:
 - Your organisation is a **not-for-profit or government organisation** with regular staff members who can supervise an intern.
 - You have a **meaningful project/activity** that adds value to the organisation and allows the intern to understand the link to the broader community impact.
 - The project/activity equates to a **minimum of 100 hours** of work by the intern.
 - You can provide an **appropriate work environment** so that the student is embedded in the organisation and able to work safely.
 - You can provide the student with **supervision** and the opportunity to receive feedback on their work.
 - You can commit to providing a short evaluation on the intern's performance and the program at the end of the internship period.

Comments from meeting:

- Ms. Joanne Soderlund suggested that we could look at an intern to undertake or support the Corella Management project. The Executive Officer will look at the potential of this as a project under this program and report back at the next meeting.

11. FUTURE MEETINGS

The schedule of meeting dates and locations for 2024 is as follows:

Date	Time	Host Council
Thursday 22 February 2024 – CEO's only	1.30pm	Merredin

Wednesday 6 March 2024	1.30pm	Westonia
Wednesday 8 May 2024	9.30am	Kellerberrin
Wednesday 31 July 2024	9.30am	Yilgarn
Wednesday 11 September 2024	9.30am	Bruce Rock
Wednesday 28 November 2024	9.30am	Tammin

The next meeting will be held in Kellerberrin on 8 May 2024.

12. CLOSURE

There being no further business the Chair closed the meeting at 4.06pm.

12. Officer's Reports – Development Services

12.1 Application for Subdivision (WAPC 164637) Lot No 17113, 17944 Depot Dam Road Merredin

Development Services	
Responsible Officer:	Peter Zenni, EMDS
Author:	As above
Legislation:	<i>Planning and Development Act 2005</i> Shire of Merredin Local Planning Scheme No.6
File Reference:	A7049
Disclosure of Interest:	Nil
Attachments:	Attachment 12.1A – WAPC Referral and Associated Documentation



Development Services

Purpose of Report



Executive Decision



Legislative Requirement

To recommend to Council that it advises the Western Australian Planning Commission (WAPC) that it has no objection to the proposed subdivision of Lot 17113 and Lot 17994 Depot Dam Road, Merredin.

Background

An application for subdivision of land located approximately 15 kilometres southeast of the Merredin townsite, has been referred to the WAPC for approval. The WAPC is seeking comments from Council prior to issuing a determination on the application.

The proposed subdivision will result in a boundary realignment resulting in 2 new Lots. Lot 1 (72.8ha) which will contain all existing building and structures and Lot 2 (315.1ha) which will contain the balance of the rural land.

Comment

Planning Considerations

The land in question is zoned General Farming (Rural). All existing buildings incorporating the farmhouse and sheds will be located on the proposed Lot 1. There are currently no buildings located on the proposed Lot 2.

The WAPC Development Control Policy 3.4 – Subdivision of Rural Land as well as provisions of the Shire of Merredin Local Planning Scheme No. 6 highlight the need to maintain the viability and rural character of the land in question.

In this case, the boundary realignment will not result in the creation of any additional Lots but rather consolidate the portion of the property containing remnant vegetation and structures on one Lot and the balance of the land which is viable for farming purposes on the other Lot.

Bush Fire Management

A portion of the property subject to the subdivision application (boundary realignment) is identified as being bushfire prone. The Shire has received the following advice from the WAPC with respect to bushfire related considerations particular to this application.

Vegetation present within the lots is classified as being bushfire prone by the Fire and Emergency Services Commissioner. State Planning Policy 3.7: Planning in bushfire prone areas (SPP 3.7) would normally require that a subdivision proposal provide detail to address bushfire risk management. However, clause 2.6 of the Guidelines for Planning in Bushfire Prone Areas (v.1.4) exempts proposals that do not result in the intensification of land use or an increased bushfire threat to people, property and infrastructure. Considering the nature of the proposal (boundary rationalisation), SPP 3.7 does not apply in this instance and the requirement for additional bushfire studies is not required to support the proposal.

Furthermore, should future development be proposed there is sufficient cleared area within the balance lot which would be capable of achieving a BAL-29 or less.

Road Access

Lot 17113 currently has road access from the Depot Dam Road whilst Lot 17994 which is under the same ownership as Lot 17113 appears to be currently landlocked. Following the proposed subdivision (boundary realignment), both Lots 1 and 2 will have potential road access from the Depot Dam Road.

Policy Implications

Compliance with WAPC Development Control Policy 3.4 – Subdivision of Rural Land.

Statutory Implications

Compliance with the *Planning and Development Act 2005*.

Compliance with the Shire of Merredin Local Planning Scheme No.6.

Strategic Implications

∅ Strategic Community Plan

Theme:	5. Places and Spaces
Service Area Objective:	5.4 Town Planning & Building Control 5.4.2 The Shire has current local planning scheme and associated strategy which is flexible and able to suitably guide future residential and industrial growth
Priorities and Strategies for Change:	Nil

∅ Corporate Business Plan

Theme: 5. Places and Spaces.
Priorities: Nil
Objectives 5.4 Town Planning & Building Control.
5.4.2 The Shire has a current local planning scheme and associated strategy which is flexible and able to suitably guide future residential and industrial growth.

Sustainability Implications

∅ Strategic Resource Plan

Nil

Risk Implications

Nil

Financial Implications

Nil

Voting Requirements



Simple Majority



Absolute Majority

Resolution

Moved: Cr O'Neill

Seconded:

Cr Anderson

83354

That Council ADVISES the Western Australian Planning Commission that it has no objection to the proposed subdivision of Lot 17113 and Lot 17944 Depot Dam Road, Merredin, (WAPC Application No: 164637) resulting in the creation of two new lots, proposed Lot 1 (72.8ha) and proposed Lot 2 (315.1ha), as identified in Attachment 12.1A, subject to;

1. the proposed boundaries not encroaching upon any existing structures or onsite effluent disposal facilities; and
2. all new Lots being connected to a constructed road.

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil



Your Ref : 164637
Previous Ref :
Enquiries : Rosa Rigali (6551 9306)

7 March 2024

Application No: 164637 - Lot No 17113, 17944 Depot Dam Road Merredin

The Western Australian Planning Commission has received an application for planning approval as detailed below. Plans and documentation relating to the proposal are attached. The Commission intends to determine this application within 90 days from the date of lodgement.

Please provide any information, comment or recommended conditions pertinent to this application by 18 April 2024 being 42 days from the date of this letter. The Commission will not determine the application until the expiry of this time unless all responses have been received from referral agencies. If your response cannot be provided within that period, please provide an interim reply advising of the reasons for the delay and the date by which a completed response will be made or if you have no comments to offer.

Referral agencies are to use the Model Subdivision Conditions Schedule in providing a recommendation to the Commission. Non-standard conditions are discouraged, however, if a non-standard condition is recommended additional information will need to be provided to justify the condition. The condition will need to be assessed for consistency against the validity test for conditions. A copy of the Model Subdivision Conditions Schedule can be accessed: www.dplh.wa.gov.au

Send responses via email to referrals@dplh.wa.gov.au. **Always quote reference number "164637" when responding.**

This proposal has also been referred to the following organisations for their comments: *Western Power, Water Corporation, Dept Biodiversity, Conser & Attraction and LG Shire Of Merredin.*

Yours faithfully



Ms Sam Boucher
Secretary
Western Australian Planning Commission

APPLICATION DETAILS

Application Type	Subdivision	Application No	164637
Applicant(s)	Wilson & Mackay		
Owner(s)	[REDACTED]		
Locality	Lot No 17113, 17944 Depot Dam Road Merredin		
Lot No(s).	17113, 17944	Purpose	Rural
Location		Local Gov. Zoning	General Farming
Volume/Folio No.	1665/218, 1665/218	Local Government	Shire Of Merredin
Plan/Diagram No.	229629	Tax Sheet	
Centroid Coordinates	mE mN		
Other Factors	BUSHFIRE PRONE AREA, THREATENED ECOLOGICAL COMMUNITY BUFFER, REMNANT VEGETATION (NLWRA), THREATENED FAUNA BUFFER		



Application for Approval of Freehold or Survey Strata Subdivisions

Lodgement ID: 2024-229199

Your Reference	Lots 17113 & 17944 Depot Dam Road Merredin
Location of Subject Property	Lots 17113 & 17944 Depot Dam Road Merredin
No. of applicants	1
Are you applying on your own behalf?	No
Are you the primary applicant?	No
Do you have consent to apply from all landowners?	Yes
Lodgement Type	Subdivision
Submitted by	Cathryn Stafford
Email	[REDACTED]

About the land

Number of current lots on the land	2	Total number of proposed lots on the land including balance lots	2
Drainage Reserves	0	Public Access Ways	0
Recreation Reserves	0	Right of Ways	0
Road Reserves	0	Road Widening	0
Number of fee paying lots	2	Number of fee exempt lots	0

N/A

What is the proposed use/development?

Proposed Use	Lot size	Number of Lots	
Rural	Over 25 HA	2	
Local Government	Shire Of Merredin	Existing dwellings	Yes
Is common property proposed	No		

Applicants

Primary applicant (1)

Is the applicant a company/organisation?	Yes	Is the applicant a landowner?	No
Name/Company	Wilson & Mackay	ABN / ACN	NA
Email	[REDACTED]	Phone number	0408 938007

Address

Street address	[REDACTED]	Town / Suburb or City	Upper Swan
State	WA	Post Code	6069
Country	AUSTRALIA	OR Non-Australian Address, P.O. Box, & etc	N/A

Certificate of Title Details

Lots with certificate (1)

Volume	1665	Folio	218
Lot Number	17113	Plan/Diagram/Strata Plan Number	229629
Total land area	323.18	Land Area Units	Hectares
Reserve number (if applicable)	N/A	No. of landowners	2
Is the Landowners name different to that shown on the Certificate of Title?			No

Landowners

Landowner (1)

Full name	[REDACTED]	Company / Agency	N/A
ACN / ABN	N/A	Landowner type	Registered Proprietor/s
Address			
Street address	[REDACTED]	Town / Suburb or City	Merredin
State	WA	Post code	6415
Country	AUSTRALIA	OR Non-Australian Address, P.O. Box, & etc	N/A

Landowner (2)

Full name	██████████	Company / Agency	N/A
ACN / ABN	N/A	Landowner type	Registered Proprietor/s
Address			
Street address	██████████	Town / Suburb or City	Merredin
State	WA	Post code	6415
Country	AUSTRALIA	OR Non-Australian Address, P.O. Box, & etc	N/A

Lots with certificate (2)

Volume	1665	Folio	218
Lot Number	17944	Plan/Diagram/Strata Plan Number	229629
Total land area	64.75	Land Area Units	Hectares
Reserve number (if applicable)	N/A	No. of landowners	2
Is the Landowners name different to that shown on the Certificate of Title?			No

Landowners**Landowner (1)**

Full name	██████████	Company / Agency	N/A
ACN / ABN	N/A	Landowner type	Registered Proprietor/s
Address			
Street address	██████████	Town / Suburb or City	Merredin
State	WA	Post code	6415
Country	AUSTRALIA	OR Non-Australian Address, P.O. Box, & etc	N/A

Landowner (2)

Full name	██████████	Company / Agency	N/A
ACN / ABN	N/A	Landowner type	Registered Proprietor/s
Address			
Street address	██████████	Town / Suburb or City	Merredin
State	WA	Post code	6415
Country	AUSTRALIA	OR Non-Australian Address, P.O. Box, & etc	N/A

Subdivision detail

Number of dwellings	1	Dwelling retained	Yes
Dwelling description	N/A		
Number of outbuildings/structures	4	Structure/s retained	Yes
Other description	N/A		
Structure description	N/A		
Is a battleaxe lot/s proposed?			No
Does plan show the width and length of the access leg, the area of the access leg and total area of the rear lot			Not applicable
Has the land ever been used for potentially contaminating activity			No
Does the land contain any sites that have been classified under the Contaminated Sites Act 2003			No
Does the land contain any sites that have been reported or required to be reported under the Contaminated Sites Act 2003			No
Is the land located in an area where site characteristics or local knowledge lead you to form the view that there is a significant risk of acid sulfate soils in this location			No
Is this application to be assessed under the Liveable Neighbourhoods policy and is supporting documentation attached?			No
Is the development with in a Bushfire Prone Area?			N/A
Are there any dewatering or drainage works proposed to be undertaken			No
Is excavation of 100 cubic metres or more of soil proposed			No
If yes did the Acid Sulfate Soils investigation indicate acid sulfate soils were present			No
Is a Termination Proposal Attached			No
Is a Strata Company Resolution Attached			No

Fee & Payment

Fee amount	\$3,704.00	Payment Type	By Anyone
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Attachments

Attachment name	Attachment type
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Perth	Albany	Bunbury	Geraldton	Mandurah
140 William Street Perth Western Australia, 6000, Locked Bag 2506 Perth, 6001	PO Box 1108 Albany Western Australia, 6330	Sixth Floor Bunbury Tower 61 Victoria Street Bunbury Western Australia, 6230	Regional Planning and Strategy Office 10 209 Foreshore Drive Geraldton Western Australia, 6530	Unit 2B Suite 94/16 Dolphin Drive Mandurah Western Australia, 6210
Tel: (08) 6551 9000 Fax: (08) 6551 9001	Tel: (08) 9892 7333 Fax: (08) 9841 8304	Tel: (08) 9791 0577 Fax: (08) 9791 0576	Tel: (08) 9960 6999 Fax: (08) 9964 2912	Tel: (08) 9586 4680 Fax: (08) 9581 5491

the 1990s, the number of people with hearing impairment has increased significantly. In the United Kingdom, the number of people with hearing impairment has increased from 1.5 million in 1980 to 2.5 million in 1995. The number of people with hearing impairment is expected to increase further in the next 20 years, as the population ages and the prevalence of hearing impairment increases (Griffin et al. 1998).

The hearing impairment is caused by a variety of factors, including age, noise, and ototoxic drugs. The most common cause of hearing impairment is age-related hearing loss, which is caused by the degeneration of the hair cells in the cochlea. Noise-induced hearing loss is caused by the damage to the hair cells in the cochlea caused by prolonged exposure to high levels of noise. Ototoxic drugs, such as aminoglycosides and platinum-based chemotherapy, can also cause hearing impairment by damaging the hair cells in the cochlea.

The hearing impairment is characterized by a loss of hearing ability, which is often accompanied by a loss of sound quality. The hearing impairment is often accompanied by a loss of sound quality, which is caused by the damage to the hair cells in the cochlea. The hearing impairment is often accompanied by a loss of sound quality, which is caused by the damage to the hair cells in the cochlea. The hearing impairment is often accompanied by a loss of sound quality, which is caused by the damage to the hair cells in the cochlea.

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7. Required information about the proposal

An application may not be accepted and will be returned to the applicant with the submitted fee if the requirements are incorrect or incomplete.

General information required for all applications

1. Subdivision plans are based on an accurate and up-to-date feature survey that includes existing ground levels relative to AHD or topography of the subject lot/s. A feature survey is not required for amalgamation approval. Yes
2. Relevant copies of the subdivision plans and supporting documentation or accompanying information are attached. Yes
3. The subdivision plan is capable of being reproduced in black and white format. Yes
4. The subdivision plan is drawn to a standard scale (ie 1:100, 1:200, 1:500, 1:1000) at A3 or A4. Yes
5. All dimensions on the subdivision plan are in metric standard. Yes
6. The north point is shown clearly on the subdivision plan. Yes
7. The subdivision plan shows all lots or the whole strata plan (whichever is applicable). Yes
8. The subdivision plan shows all existing and proposed lot boundaries. Yes
9. The subdivision plan shows all existing and proposed lot dimensions (including lot areas). Yes
10. The subdivision plan shows the lot numbers and boundaries of all adjoining lots. Yes
11. For batlease lots, the subdivision plan shows the width and length of the access leg, the area of the access leg and the total area of the lot. Yes n/a (batlease lot not proposed)
12. The subdivision plan shows the name/s of existing road/s. Yes
13. The subdivision plan shows the width of proposed road/s. Yes n/a (no road proposed)
14. The subdivision plan shows all buildings and/or improvements, including driveways and crossovers (including setbacks) which are to be retained, or removed. Yes n/a (land is vacant)
15. The subdivision plan shows all physical features such as watercourses, wetlands, significant vegetation, flood plains and dams. Yes n/a (land does not contain such features)
16. The subdivision plan shows all electrical, sewer and water infrastructure. For on-site sewage disposal, the indicative disposal areas for wastewater distribution are to be shown. Yes
17. **Additional information required in the case of applications for residential infill subdivision within existing residential zoned areas**
Applications which propose to create two or more residential lots in existing residential areas must show all existing features (in addition to item 16 above) located in the road reserve/s adjoining the subject land and all existing improvements on the subject land and including:
 - driveways and crossovers
 - kerb lines
 - manholes
 - bus stops
 - gully pits
 - boundary setbacks for dwelling/s to be retained
 - fencing
 - street trees
 - water supply
 - swimming pools
 - pedestrian paths
 - retaining walls
 - telecommunication pillars
 - electricity transmission lines and poles
 - sewer, water and electricity connections
 - on-site sewage disposal systems, including treatment and wastewater disposal areas
18. **Additional information required in the case of an application for termination**
Has a copy of the outline of termination proposal been attached Yes
Has a copy of the strata resolution in support of this proposal been attached Yes

The WAPC has published a guide to applications and fees to assist applicants preparing to submit applications. The guide and other information about the planning system is available online:

www.dph.wa.gov.au

Transport impacts

Transport Impact Statements and Transport Impact Assessments are required to determine the likely transport impact of a proposal. Information to assist proponents is available on the DPLH website at www.dph.wa.gov.au/policy-and-legislation/state-planning-framework/fact-sheets,-manuals-and-guidelines/transport-impact-assessment-guidelines

1. Are there 10 - 100 vehicle trips in the subdivision's peak hour? Yes No
If yes, a transport impact statement is to be provided
2. Are there more than 100 vehicle trips in the subdivision's peak hour? Yes No
If yes, a transport impact assessment is to be provided.

Access to/from right-of-way or private road

Access is to be provided from an existing right of way or private road.

If you indicate 'yes', you must provide a copy of the plan or diagram of survey on which the subject right-of-way was created to confirm its exact width and whether a right of access exists. Right of access may be an easement under section 167A of the *Transfer of Land Act 1893*, an implied easement for access or other arrangement.

Yes No

Road and rail noise

Is the proposal within the trigger distance of a strategic transport route as defined by *State Planning Policy 5.4*?

Yes No

Contaminated sites

Information to assist applicants to respond to the following questions is on the Department of Water and Environmental Regulation (DWER) website at www.der.wa.gov.au/your-environment/contaminated-sites.

1. Has the land ever been used for a potentially contaminating activity? Yes No
Appendix B of Assessment and Management of Contaminated Sites (DWER Contaminated sites guidelines) lists potentially contaminating industries, activities and land uses. The list is not exhaustive.
If yes, please attach details of the activities/uses.
2. Does the land contain any site or sites that have been classified under the *Contaminated Sites Act 2003*? Yes No
3. Does the land contain any site or sites that have been reported or are required to be reported under the *Contaminated Sites Act 2003*? Yes No

If you indicated 'yes' to question 2 or 3 you must provide a Basic Summary of Records (BSR). Where a BSR is not available from the public Contaminated Sites Database, the form requesting a BSR from DWER is available online at www.der.wa.gov.au/your-environment/contaminated-sites/57-forms or by calling DWER on 1300 762 982.

If a BSR is not available, a copy of the letter from DWER notifying the applicant that the site or the sites are under assessment must be provided, followed by the BSR when available.

Yes No

Information requirements for Liveable Neighbourhoods

Subdivision applications proposing to create 20 or more lots on greenfield and urban infill sites will be assessed against the requirements of Liveable Neighbourhoods.

Such applications should be supported by documentation addressing the relevant criteria of Liveable Neighbourhoods, as identified in the application guidelines within the policy document.

Is this application to be assessed under the Liveable Neighbourhoods policy and is supporting documentation attached? Yes No

Acid sulfate soils

Is the land located in an area where site characteristics or local knowledge lead you to form the view that there is a significant risk of disturbing acid sulfate soils at this location? Yes No

Bushfire Prone Areas

Is all, or a section of the subdivision in a designated bushfire prone area? Yes No

If 'yes', has a BAL Contour Map been prepared; and

If the BAL Contour Map indicates areas of the subject site as BAL-12.5 or above, has a Bushfire Management Plan been provided with the application? Yes No

If NA is selected and the proposal is in a designated bushfire prone area then a statement advising why SPP 3.7 does not apply should be included. n/a

On-site sewage disposal

Is on-site sewage disposal proposed? Yes No

If yes, proposals for on-site sewage disposal should be accompanied by a site and soil evaluation as per the Government Sewerage Policy. n/a (Greater than 4ha)

Has a site and soil evaluation been provided? If no, then a statement is to be provided as to why an evaluation has not been provided.

Information on preparing site and soil evaluations may be found on the Department of Health's website <https://ww2.health.wa.gov.au/~media/Files/Corporate/general%20documents/water/Wastewater/Site-Soil-Evaluation.pdf>

Survey Strata Title lots

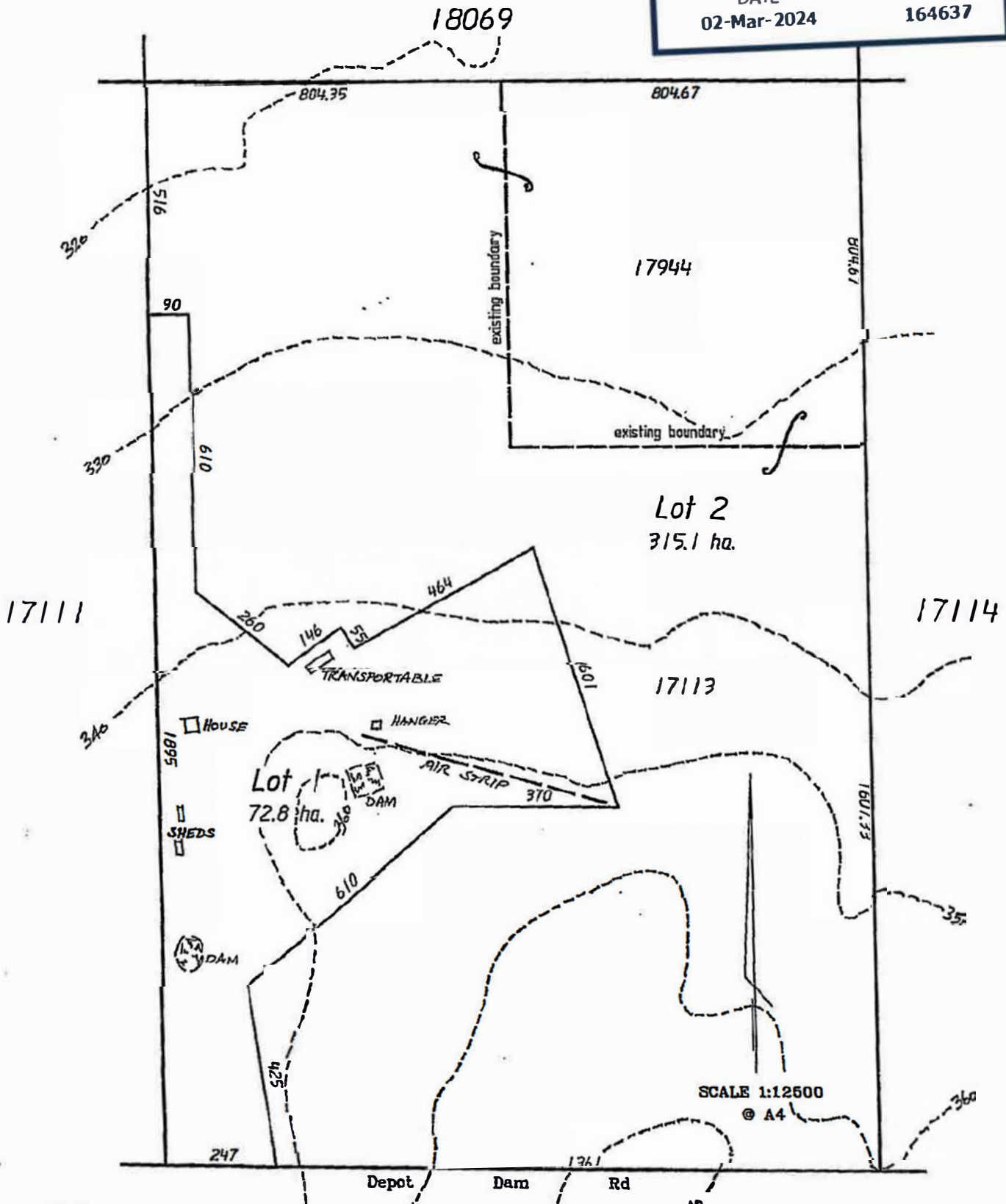
Is strata title subdivision proposed? Yes No

If yes, either the plan of subdivision or accompanying servicing plan is to show the indicative internal sewer and water connections to each lot.

If applicable, easements are to be shown.

Information on the water and sewer detail for survey-strata lots to be shown can be found on the Department of Mines, Industry Regulation and Safety website: www.commerce.wa.gov.au/publications/plumbers-technical-note-services-survey-strata-lots-0

18069



NOTES:

- 1. 2 existing lots.
- 2. 2 proposed lots.
- 3. Total area = 387.9 ha.
- 4. All buildings to be retained.
- 5. All dimensions subject to final survey.
- 6. Existing lot 17944 is 64.75 ha.
- 7. Existing lot 17113 is 323.18 ha.

**PROPOSED SUBDIVISION OF LOTS 17113 & 17944
ON DP 229629, DEPOT DAM RD, TANDEGIN.**

WILSON & MACKAY
Licensed Surveyors
Upper Swan, 6068
Telephone: [REDACTED]

Peter Zenni

From: Rowena O'Brien <[REDACTED]>
Sent: Tuesday, 12 March 2024 9:19 AM
To: Peter Zenni
Subject: Bushfire information for WAPC ref: 164637

Follow Up Flag: Follow up
Flag Status: Flagged

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OFFICIAL

Dear Peter,

A pleasure to talk to you this morning.

As discussed the of vegetation present within the lots is classified as being bushfire prone by the Fire and Emergency Services Commissioner. *State Planning Policy 3.7: Planning in bushfire prone areas* (SPP 3.7) would normally require that a subdivision proposal provide detail to address bushfire risk management. However, clause 2.6 of the *Guidelines for Planning in Bushfire Prone Areas* (v.1.4) exempts proposals that do not result in the intensification of land use or an increased bushfire threat to people, property and infrastructure. Considering the nature of the proposal (boundary rationalisation), SPP 3.7 does not apply in this instance and the requirement for additional bushfire studies is not required to support the proposal.

Furthermore, should future development be proposed there is sufficient cleared area within the balance lot which would be capable of achieving a BAL-29 or less.

I trust the above assists. Please call me if you wish to discuss further.

Kind regards,

Rowena

Rowena O'Brien

Senior Planning Officer | Land Use Planning

Department of Planning, Lands and Heritage



The Department is responsible for planning and managing land and heritage for all Western Australians – now and into the future

The Department acknowledges the Aboriginal people of Western Australia as the traditional custodians of this land, and we pay our respects to their Elders, past and present.

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MERREDIN, SHIRE OF

Rd



12.2 Application for Development Approval – Lot 5 Robartson Rd, Merredin Proposed Battery Energy Storage System (BESS)

<h2 style="margin: 0;">Development Services</h2> 	
Responsible Officer:	Peter Zenni, EMDS
Author:	Paul Bashall – Planwest (WA) Pty Ltd
Legislation:	<i>Planning and Development Act 2005</i> Shire of Merredin Local Planning Scheme No.6
File Reference:	A9722
Disclosure of Interest:	Nil
Attachments:	Attachment 12.2A - Development Application and Supporting Documentation. Attachment 12.2B - Responsible Authority Report (RAR). Attachment 12.2C – Submissions to Proposal.

Purpose of Report



Executive Decision



Legislative Requirement

To recommend to Council that it advises Joint Development Assessment Panel (JDAP) of its support of the development application and of its recommendation to JDAP, that it approves the application for development approval (DA) for the proposed battery energy storage system (BESS) on a portion of Lot 5 Robartson Road, Merredin.

The vehicle to transmit the Council’s recommendation is by the way of a Responsible Authority Report (RAR). A copy of this RAR is attached to this Item (Attachment 12.2B).

Background

An application has been received for development approval (DA) from Land Insights, Planning Consultants, on behalf of Nomad Energy for the proposed BESS.

Lot 5 Robartson Road is located approximately 7.5km south-west of the centre of Merredin and comprises a land area of approximately 61.51ha. Only a small portion (approximately 4ha) of this Lot, immediately adjacent to the Merredin Terminal sub-station, will be used for the development.

The subject site is an agricultural property, that does not contain any areas of remnant vegetation and is currently used for cropping and sheep grazing purposes.

Figure 1 provides a location plan of the site.

The proposed development is costed at \$220m and consists of the battery energy storage system facility that is comprised of battery packs, inverters, transformers and control systems, and the associated high voltage substation and additional switch room(s)/control building(s),

laydown areas, staff car parking, firefighting equipment, internal roads and a perimeter fence. The Battery Energy Storage System Project will be connected to Western Power’s transmission network at the adjacent Merredin Terminal.

FIGURE 1 – LOCATION PLAN



Source: Planwest, ESRI

The accompanying report states that the Shire of Merredin (the Shire) has become the renewable energy centre for the Wheatbelt and Western Australia. It pioneered wind turbines and solar farms, generating green energy to replace greenhouse gas emitting sources, and now the next iteration is in the storage and redistribution of this energy via battery energy storage systems.

Nomad Energy (the owner of the project) is an Australian company that has developed more than 500MW of renewable energy projects globally, including Western Australia’s largest operational solar farm (Merredin Solar Farm).

Nomad Energy has partnered with Atmos Renewables on this project. Atmos Renewables are one of the top 5 largest owner/operators of utility-scale renewable energy facilities in Australia and currently holds generation assets with a gross capacity in excess of 1.7GW. A core feature of the Nomad – Atmos partnership is the intent to develop, build, own and operate the assets they develop. This strategy demonstrates their long-term approach to the assets, the local communities in which they are situated and to the electricity market this project will ultimately support.

The proximity to Western Power’s Merredin Terminal substation was a key consideration when the site was selected and will result in relatively minor works being required to connect the proposed facility to the South West Interconnector System. The battery energy storage system facility will be accessed off Robertson Road and will be securely fenced.

The land is surrounded predominantly by other agricultural properties to the north and west, Western Power’s Merredin Terminal to the south and Merredin Solar Farm to the east/southeast. The subject site is in close proximity to other energy infrastructure assets, being the Merredin Energy dual-fuel peaking plant and Merredin Solar Farm (the largest operating solar farm in Western Australia).

Figure 2 shows the site plan with Bushfire Prone mapping data (DFES), a 150m assessment area and the battery development extent area.

FIGURE 2 – EXTRACT FROM DA SITE PLAN



Source: Land Insights, Bushfire Prone Planning, DFES, Planwest

The closest sensitive receptor is over 2km away from the site. To the south and west of the subject site sits the energy infrastructure assets mentioned previously, to the north east of the subject site at Lot 15490 is a lot reserved for parks and recreation under the Shire of Merredin Local Planning Scheme No.6, known as Merredin Nature Reserve. The applicant considers that, given the nature of the facility, it is unlikely that there will be any offsite impacts and the balance of the Lot will be retained for rural / agricultural purposes.

The DA is accompanied by a comprehensive Bushfire Management Plan (BMP) prepared by Bushfire Prone Planning. Although Lot 5 is affected by the Bushfire Prone mapping, the proposed development site is about 200m from the nearest mapped area (as per DFES data). Notwithstanding this distance, the BMP is deemed necessary as the proposed use class is considered a high-risk land use.

The BMP deals with risk issues that are better assessed by agencies specialising in these areas rather than from a planning perspective. During the advertising period, the DA will be forwarded to DFES, amongst others, for comment.

The BMP looks at:

- Assessment of potential bushfire impact;
- Environmental conservation;
- Assessment of the development's ability to acceptably mitigate bushfire risk through application of required and/or additional bushfire protection measures; and
- Creation of responsibilities to implement and maintain protection measures.

Council considered the application for development approval at the January Ordinary Council Meeting held 23 January 2024, where Council resolved the below (CMRef 83312);

That Council

1. *NOTES the receipt of the application for Development Approval for the proposed Battery Energy Storage System to be located on a portion of Lot 5 Robartson Road, Merredin;*
2. *ADVISES the Development Assessment Panel of the application for Development Approval by forwarding the lodged documentation;*
3. *ADVERTISES the application for Development Approval for a period of 21 days for public submissions, neighbours and agencies being advised of the advertising period. These agencies, amongst others, will include:*
 - a. *Department of Fire and Emergency Services (DFES);*
 - b. *Department of Water and Environmental Regulation (DWER);*
 - c. *Environmental Protection Authority (EPA);*
 - d. *Department of Biodiversity, Conservation and Attraction (DBCA);*
 - e. *Western Power (WP);*
 - f. *Civil Aviation Safety Authority (CASA); and*
4. *NOTES that all submissions received during the advertising period will be brought back to Council for its consideration prior to submitting its Responsible Authority Report to the Development Assessment Panel for its determination.*

Footnotes

1. *The applicant is advised that Council will consider all submissions received during the advertising period, however it is likely to require at least the following conditions;*
 - *The submission and approval of a dedicated Construction Management Plan, including a transport impact assessment, details showing the proposed interim and longer-term facilities including building/structure setbacks, carparking facility, landscaping/screening etc;*
 - *The submission and approval of a dedicated Drainage Management Plan;*
 - *The design and location of on-site effluent systems for the construction phase, as well as the longer term;*
 - *The removal of all construction infrastructure once the facility has been completed to the satisfaction of the local government; and*
 - *The approval of any crossovers required by the development;*
2. *The applicant is advised that granting of development approval does not constitute a building permit and that an application for relevant building*

- permits must be submitted to the local government and be approved before any work requiring a building permit can commence on site;*
- 3. The applicant is advised that effluent disposal facilities will require an application for the installation or construction of an apparatus for the treatment of sewage to be submitted to the local government, and be approved, before any work can commence on the installation of an onsite effluent disposal system; and*
 - 4. The applicant is advised of the need for compliance with the local government annual Firebreak Notice.*

Comment

The proposed development:

- Is consistent with the Council’s ambition to be a centre for renewable energy systems;
- Is logically located close to the source of renewable power systems;
- Is located near an entry point to the national power grid;
- Is more than 200m from the nearest bushfire prone area;
- Will have no impact on remnant vegetation, flora or fauna; and
- Will cause minimal loss of agricultural land.

The other matters to be considered include:

- Disruption during construction;
- Public and aviation safety;
- Noise; and
- Visual impact.

Strategic Considerations

The existing Shire of Merredin Local Planning Strategy (the Strategy) does not provide many details outside the main townsite area of Merredin. The district map of the Strategy designates the subject land as ‘General Agriculture Zone’. At the time of drafting the Strategy, renewables were not a significant land use that required consideration.

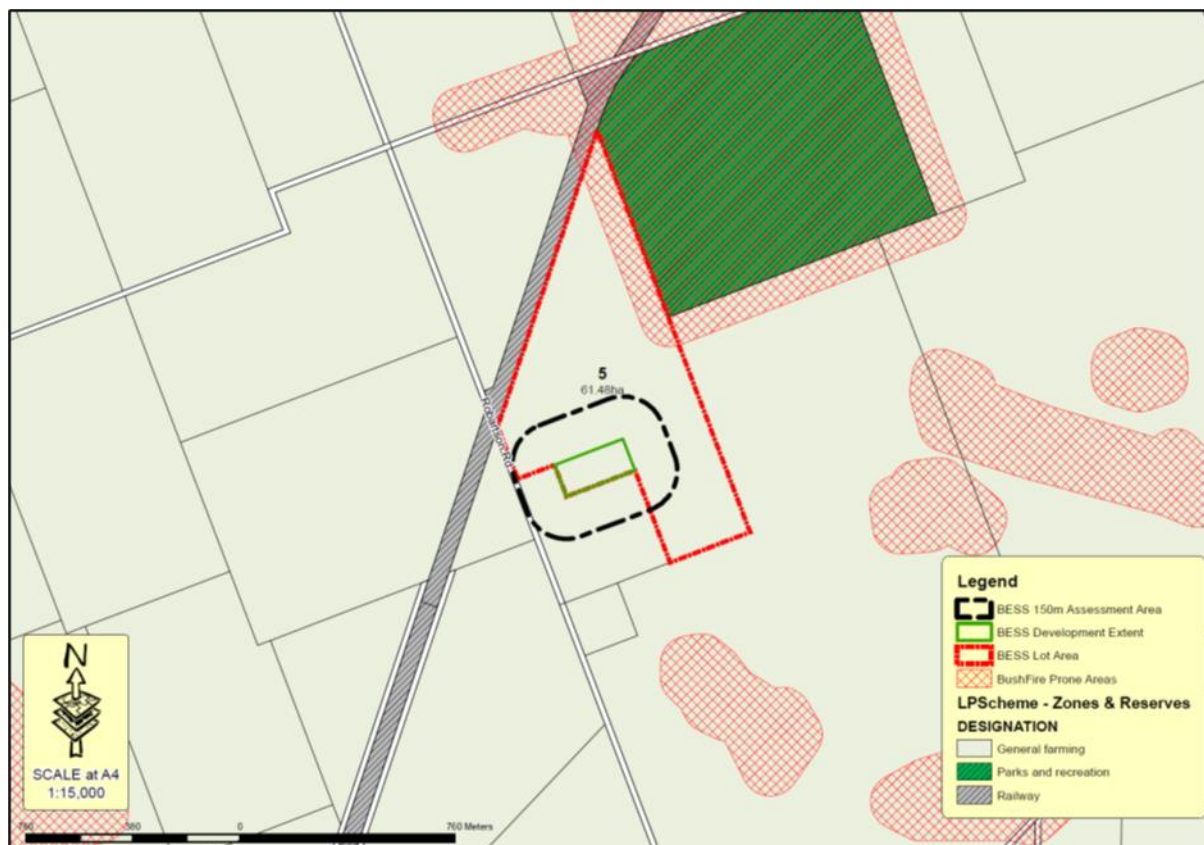
Storm Water Management

Storm water management will need to be addressed via a drainage strategy that is acceptable to the Shire’s engineers. This will ensure that any drainage from the site will be managed on the site and will not impact any neighbouring properties or public infrastructure like roadways, road reserves and other reserves.

Statutory Considerations

Figure 3 provides an extract from the Local Planning Scheme No 6 (the Scheme) showing the subject land zoned ‘General Farming’.

FIGURE 3 – SCHEME MAP EXTRACT (and BUSHFIRE PRONE MAPPING)



Source: Landgate, DPLH, Planwest

Table 1– Zoning Table in the Scheme does not specifically list a use class for battery storage, however there are two options of dealing with the proposal.

The first is to accept the use as falling within the use class of ‘Service utility’ which is defined as -

Service utility - means any work or undertaking constructed or maintained by a service authority or the local government as may be required to provide water, sewerage, electricity, gas, drainage, waste, communications or other similar services.

A service utility is a ‘D’ use in a General Farming zone. A ‘D’ use means that the use is not permitted unless the local government has exercised its discretion by granting development approval. It may be argued that the service utility proposed is not constructed by a service authority or a local government.

The second option is to treat the proposed use class as a use not listed. Clause 3.4.2 of the Scheme states that;

If a person proposes to carry out on land any use that is not specifically mentioned in the Zoning Table and cannot reasonably be determined as falling within the type, class or genus of activity of any other use category the local government may –

- a. *determine that the use is consistent with the objectives of the particular zone and is therefore permitted;*
- b. *determine that the use may be consistent with the objectives of the particular zone and thereafter follow the advertising procedures of clause 64 of the deemed provisions in considering an application for development approval; or*

- c. determine that the use is not consistent with the objectives of the particular zone and is therefore not permitted.*

In either option the proposal will need to be advertised to invite submissions from service agencies and the public.

Environmental Impact

The proposal affects about 4 hectares of general farming land of the 61-hectare lot. The area not affected by the proposed development will continue to be used for rural and agricultural purposes.

The BMP provides an assessment of the bushfire risk and suggests certain measures that need to be adopted to minimise the potential bushfire risk.

The DA provides a visual assessment that concludes that the new infrastructure will not have a significant visual impact on the environment given its proximity to the existing power terminal. Prior to a determination of the DA there may need to be a requirement for landscaping where the Shire considers the views from public places that will be detrimentally impacted.

The DA discusses the preparation of a Construction Management Plan (CMP) that will coordinate phases of the development including, temporary accommodation, laydown areas, access for delivery of equipment and temporary ablutions and amenities.

The detail of the CMP will need to be prepared and implemented to the satisfaction of the local government to ensure all temporary works and structures are removed on completion of the construction.

The CMP will need to include a Transport Impact Assessment that is prepared and implemented to the satisfaction of the local government. This will ensure minimal damage to local road infrastructure, maintain safety while accessing the site and minimise any impact to local drainage systems.

Building Requirements

The Shire has previously sought and obtained clarification from the Building Commission that power storage containers (batteries) are not considered buildings (roofed structures), nor incidental structures (associated with a building) and as such do not require a building permit from the Shire prior to their erection on site. However, buildings that will house staff and are accessible by the public such as site offices etc, will still require building permits from the Shire.

Policy Implications

Nil

Statutory Implications

Consistent with Scheme No.6 requirements for advertising and Councils resolution, a notice was published in the West Australian newspaper on 3 February 2024 inviting submissions to the BESS proposal before 26 February 2024.

There were no submissions received other than those from the servicing agencies shown in Attachment 12.2C.

In addition to the public invitation, several agencies were specifically contacted regarding the proposed development. Four responses were received including, CASA (Civil Aviation Safety Authority), DPIRD (the Department of Primary Industries and Regional Development) and DBCA (Department of Biosecurity, Conservation and Attractions).

DFES (Department of Fire and Emergency Services) requested an extension to the submission period due to its extreme demand for emergency services during this period. The Shire granted this extension.

A subsequent email (dated 11 March 2024) from DFES indicates that it has not reviewed the BMP as it has not formally been referred to the Department. Referrals are only received by DFES where the development is affected by the Bushfire Prone mapping.

CASA and DBCA indicated that they had no issues with the proposed development, whilst DPIRD requested that a Drainage Management Plan be prepared for the site.

Schedules of these submission (and copies of the submissions) are shown in Attachment 12.2C.

	Strategic Implications
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∅	Strategic Community Plan
---	--------------------------

Theme:	4. Communication and Leadership
Service Area Objective:	4.2 Decision Making 4.2.3 The Council is well informed in their decision-making, supported by a skilled administration team who are committed to providing timely, strategic information and advice.
Priorities and Strategies for Change:	Nil

∅	Corporate Business Plan
---	-------------------------

Theme:	5. Places and Spaces.
Priorities:	Nil
Objectives	5.4 Town Planning & Building Control. 5.4.2 The Shire has a current local planning scheme and associated strategy which is flexible and able to suitably guide future residential and industrial growth.

	Sustainability Implications
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∅	Strategic Resource Plan
---	-------------------------

Nil

	Risk Implications
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Although the development site is about 200m from the nearest bushfire prone area (as per DFES data) the proposed use class is considered a high-risk land use. Compliance with the recommendations of the BMP is critical to minimising the fire risk on an on-going basis.

	Financial Implications
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The relevant development application fees have been paid.

Voting Requirements



Simple Majority



Absolute Majority

Resolution

Moved: Cr O'Neill

Seconded:

Cr Van Der Merwe

That Council:

1. **ENDORSES** the Shire of Merredin Responsible Authority Report forming part of Attachment 12.2B;
2. **SUBMITS** the endorsed Shire of Merredin Responsible Authority Report to the Development Assessment Panel Secretariat;
3. **RECOMMENDS** that the Regional Joint Development Assessment Panel resolves to:
 - a. **ACCEPT** that the Development Assessment Panel Application reference DAP/24/02631 is appropriate for consideration as a “Use not listed” land use and compatible with the objectives of the zoning table in accordance with Clause 3.4.2 (b) of the Shire of Merredin Local Planning Scheme No. 6; and
 - b. **APPROVE** Development Assessment Panel Application reference DAP/24/02631 and accompanying plans (Attachment 12.2A) in accordance with Clause 68 of Schedule 2 (Deemed Provisions) of the Planning and Development (Local Planning Schemes) Regulations 2015, and the provisions of Clause 3.4.2 (b) of the Shire of Merredin Local Planning Scheme No. 6, subject to the following conditions:
 - i. The submission and approval of a dedicated Construction Management Plan, including a transport impact assessment, details showing the proposed interim and longer-term facilities including building/structure setbacks, carparking facility, landscaping/ screening etc, to the satisfaction of the local government;
 - ii. The removal of all construction infrastructure once the facility has been completed to the satisfaction of the local government;
 - iii. The preparation and lodgement of a Drainage Management Plan to contain all drainage on site to the satisfaction of the local government;
 - iv. The design and location of on-site effluent systems, for the construction phase as well as the longer term, to be designed and located to the satisfaction of the local government;

83355

- v. **Compliance with the Bushfire Management Plan dated 14 December 2023 recommendations (including the Bushfire Risk Assessment & Management Report); and**
- vi. **Any new crossover to Robartson Road shall be located and constructed to the satisfaction of the local government.**

Advice Notes

- 1 **If the development, subject of this approval, is not substantially commenced within a period of 24 months from the date of the approval, the approval will lapse and be of no further effect. For the purposes of this condition, the term “substantially commenced” has the meaning given to it in the *Planning and Development (Local Planning Schemes) Regulations 2015* as amended from time to time.**
- 2 **If an applicant or owner is aggrieved by this determination, there is a right of review by the State Administrative Tribunal in accordance with the *Planning and Development Act 2005* Part 14. An application must be made within 28 days of the determination.**
- 3 **The applicant is advised that granting of development approval does not constitute a building permit and that an application for relevant building permits must be submitted to the Shire of Merredin and be approved before any work requiring a building permit can commence on site.**

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O’Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil

PROPOSED BATTERY ENERGY STORAGE SYSTEM

PREPARED FOR NOMAD ENERGY

LOT 5 ROBERTSON ROAD, MERREDIN

DECEMBER 2023



Prepared by:
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Document Name: 1130b_MerredinBESS_RH_Rev1

Document History:

Date	Document Revision	Document Manager	Summary of Document Revision	Client Delivered
Dec-23	0	RH	Initial Draft	Dec-23
Dec-23	1	RH	Client comments incorporated	Dec-23

Important Note:

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COVER PHOTO:

Proposed BESS site, with Western Power Merredin Terminal, Merredin Energy Peaking Plant and Merredin Solar Farm in the background.

Photo credit: Land Insights, November 2023

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1.0 introduction

1.1 BACKGROUND AND CONTEXT

Land Insights act for Nomad Energy, who are seeking development approval to establish a Battery Energy Storage System (BESS) at Lot 5 (on Diagram 67824) Robertson Road, Merredin (the “subject site”). The proposed development will consist of the BESS facility (comprised of battery packs, inverters, transformers and control systems) and the associated high voltage substation and additional switch room(s)/control building(s), laydown areas, staff car parking, required firefighting equipment, internal roads and a perimeter fence. The BESS project will connect to Western Power’s transmission network at the adjacent Merredin Terminal.

The Shire of Merredin has become the renewable energy focus for the wheatbelt and Western Australia. It pioneered wind turbines and solar farms generating green energy to replace greenhouse gas emitting sources, and now the next iteration is in the storage and redistribution of this energy via battery energy storage systems (BESS). The area is continuing to advance the cooperative practices of energy farms and conventional farming.

The subject site is an agricultural property, does not contain any areas of remnant vegetation and is currently used for cropping and sheep grazing purposes. It is located approximately 7.5km south-west of the centre of the town of Merredin and comprises a land area of approximately 61.51ha. Only a small portion (approximately 4ha) of this lot, immediately adjacent to the Merredin Terminal sub-station, will be utilised for the development. The proximity to Western Power’s Merredin Terminal substation was a key consideration when selecting the site location, and will result in relatively minor works being required to connect the proposed facility to the South West Interconnector System (SWIS). The BESS facility will be accessed off Robertson road and will be securely fenced.

1.2 ABOUT NOMAD ENERGY

Nomad Energy is an Australian company who has developed more than 500MW of renewable energy projects globally, including Western Australia’s largest operational solar farm (Merredin Solar Farm). Nomad Energy has partnered with Atmos Renewables on this project, who are one of the top 5 largest owner / operators of utility-scale renewable energy facilities in Australia and currently hold generation assets with a gross capacity in excess of 1.7GW. A core feature of the Nomad – Atmos partnership is the intent to develop, build, own and operate the assets we develop. This strategy

demonstrates our long-term approach to the assets, the local communities in which they are situated and to the electricity market this project will ultimately support. The partnership has offices in Perth, Melbourne and Sydney and has over 30 employees across Australia.

1.3 LAND DESCRIPTION

The subject site is approximately 260km east of Perth and 7.5 kilometres southwest of Merredin. It is surrounded predominantly by other agricultural properties to the north and west, Western Power’s Merredin Terminal to the south and Merredin Solar Farm to the east/southeast. The subject site is in close proximity to other energy infrastructure assets being the Merredin Energy dual-fuel peaking plant and Merredin Solar Farm (the largest operating solar farm in Western Australia).

The site comprises one single freehold land. An easement (refer to yellow hatch) affects a portion of the lot, and there is one reserve (Merredin Nature Reserve, green hatch) abutting the eastern boundary. Table 1 below outlines the Certificate of Title details for the subject site that forms part of this application, and a copy of the Title can be found at Appendix A of this report.

Table 1 – Certificate of Title details

Lot	Volume / Folio	Registered Proprietor
Lot 5	1695 / 263	Ross Milton Robertson

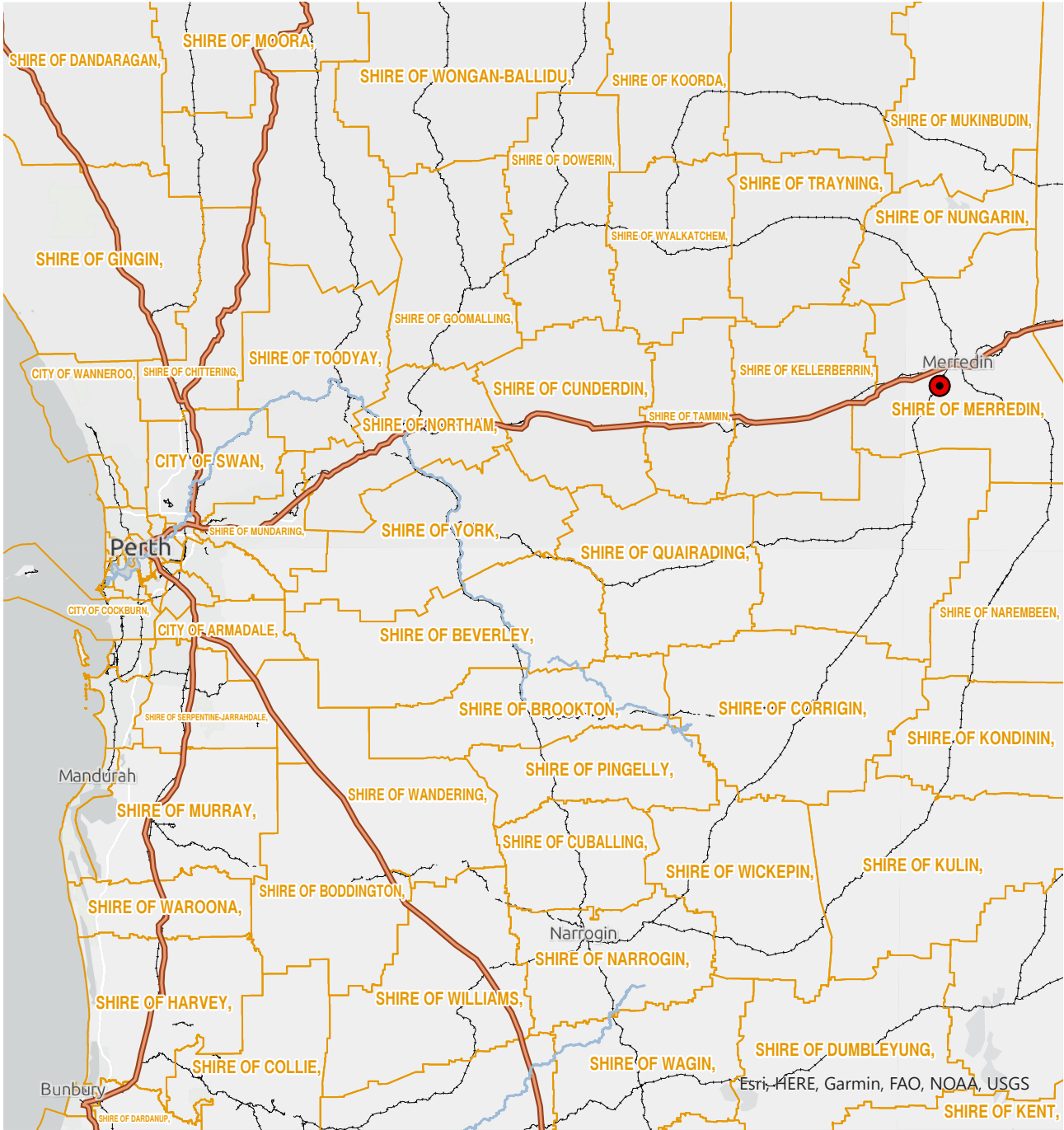
EXISTING USE

The site is located on cleared and disturbed land which is currently used as a rural farming property, predominantly for cropping and sheep grazing.

As shown below in Figure 1 & 2 – Site Context/Location the site is cleared of vegetation, will have minimal visual impact on neighbouring properties and is located adjacent to the north of the Western Power terminal, making this site highly suitable for the proposed BESS facility.

SURROUNDING LAND

Surrounding land uses include energy infrastructure (Western Power's Merredin Terminal), energy generation facilities (Merredin Energy peaking plant and Merredin Solar Farm) as well as agricultural (cropping and grazing) land. The closest sensitive receptor is over 2km away from the site. To the south and east of the subject site sits the energy infrastructure assets mentioned previously, to the north east of the subject site at Lot 15490 is a lot reserved Parks and Recreation under the Shire of Merredin Local Planning Scheme No.6, known as Merredin Nature Reserve. Given the nature of the facility it is unlikely that there will be any offsite impacts and the balance of the Lot will be retained for rural / agricultural purposes.



- BESS Site Location
- LGA Boundary
- Main Highways

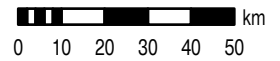
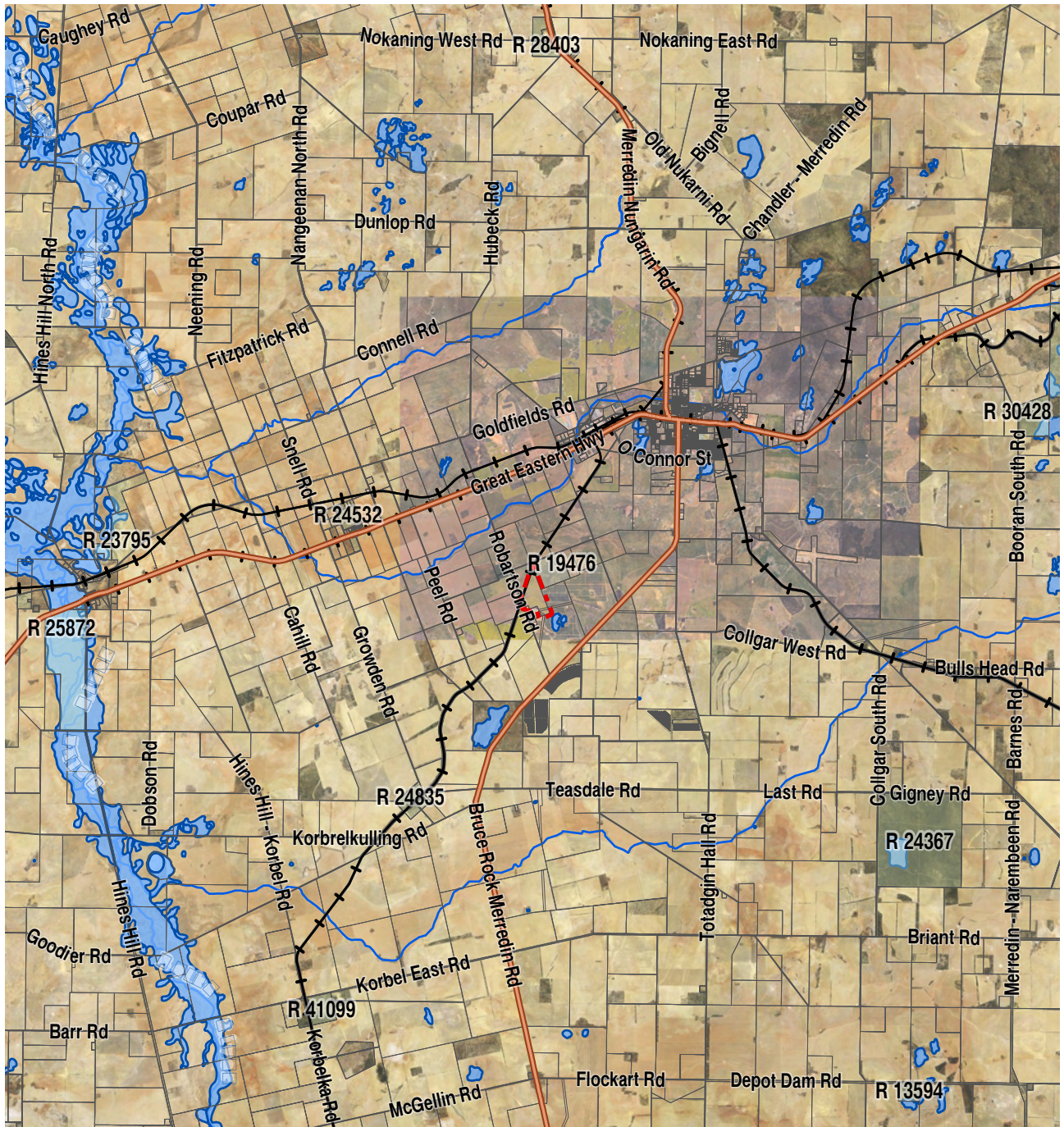


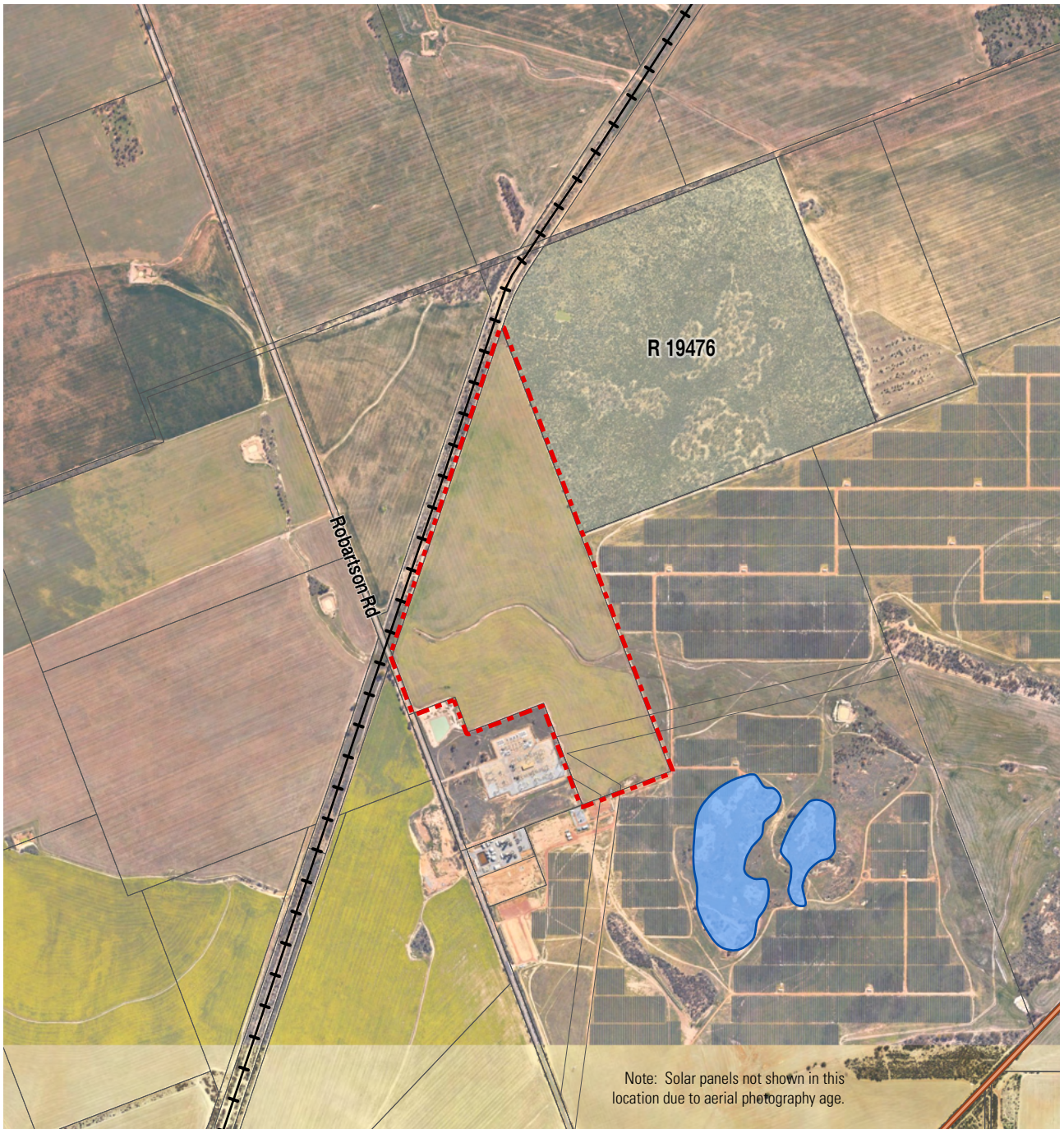
Figure 1: Site Location



- Lot Boundary
- Cadastre
- State Road
- Rail Line
- Reserves
- Wheatbelt Wetlands
- Hydrography Linear (DWER-031)



Figure 2: Site Context



- Lot Boundary
- Cadastre
- State Road
- Reserves
- + + + Rail Line
- Wheatbelt Wetlands

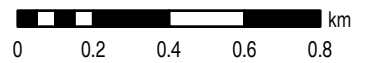


Figure 3a: Site and Surrounds



- Lot Boundary
- Rail Line
- Cadastre
- Access Road (6.5m)
- Battery Development Extent

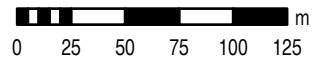


Figure 3b: Site Detail

2.0 the proposal

2.1 OVERVIEW

The proposed BESS facility and associated sub-station and ancillary infrastructure will have an export capacity of approximately 100MW / 400MWh. The proposed BESS is located adjacent to the existing Merredin Terminal Substation, which facilitates a least-impact connection to the South West Interconnected System (SWIS), and with access via a new internal road off Robartson Road, Merredin. The proposed BESS facility will take approximately 12 – 18 months to construct, with a peak construction workforce of approximately 50. The connection of the proposed onsite substation to the adjoining Merredin Terminal is a separate matter to this application and is currently being negotiated by the proponent and Western Power.

2.2 PRE-LODGE MENT LIAISON & CONSULTATION

A pre-lodgement conversation was undertaken with the Shire Administration to inform them of the upcoming project. This discussion indicated that the Shire is keen to facilitate renewable energy projects, particularly where they can be located in a precinct, adjacent to existing facilities, subject to normal planning and assessment processes. An informal pre-application meeting was also undertaken with the Shire representative on the 23rd of November in relation to the application.

The proponent has also been in ongoing discussions with Western Power regarding the project parameters and the proposed connection to the adjoining Merredin Terminal.

No pre-lodgement consultation was deemed necessary with surrounding landowners in this instance as the surrounding land is owned by either the Registered

Proprietor of the subject site or that of the adjoining solar farm in this emerging energy precinct, coupled with the small footprint of the BESS and limited potential impacts to the amenity of the area from its development. Relevant parties will have an opportunity to comment on the proposal during the statutory advertising period.

2.3 COMPONENTS

As stated above the BESS facility will have an export capacity of approximately 100MW/400MWh and the subject site infrastructure will include:

- 110-120 Battery containers
- 28-30 Ring Main Units (RMU's) – containing transformers and switchrooms
- A HV/MV Switchyard
- A Control Room building
- A Western Power relay room
- Substation (with bunding to approved standards)
- Parking for workers for both the construction and post construction phase
- Operation & Maintenance building
- Spare parts building
- Internal roads (built to the required standards of both the Shire and Bushfire Requirements)
- Firefighting infrastructure (to standards outlined in the Bushfire Management Plan)
- Development to support the construction phase - construction compound containing an ablution block, meeting room and crib room for onsite construction



workforce.

Appendix B – Layout Plans and Specifications of Equipment (Drawings MBB-GA-00 to MBB-GA) shows how the facility will be laid out over the subject site and the specification and elevations for the components that will be installed. The battery container units and ring-main units (RMU's) will sit on top of concrete pads. The switchyard /control room building is shown in drawing MBB-EL-231012 as a combined substation, these buildings may become separate structures following detail design. The switchyard/control room building is currently designed to be raised off the ground, however, it should be noted that this structure may be constructed on concrete plinths similar to the battery containers and RMU's. The layout as depicted in Appendix B is to be refined once an agreement with the battery manufacturer has been finalised and a construction contractor appointed.

2.4 CONSTRUCTION

The construction phase will take approximately 12 – 18 months and the peak workforce on site at any one time is anticipated to be 50 workers. Construction will commence with site preparation works (levelling, grubbing as required) and creating the access to the Robartson Road. A lay down area and construction staff parking area as well as temporary site offices, ablutions and welfare will be installed during this phase, as shown on plan MBB-GA-01 *HV Substation General Arrangement*.

As shown on plan MBB-GA-01 there is sufficient room on the subject site for the parking of private vehicles associated with the workforce to park on site, there is also sufficient area on the subject site for laydown areas during the construction period.

Nomad Energy will appoint a contractor to construct and install the facility with the contractor being responsible for adherence to all approvals and relevant standards along with an approved Construction Management Plan, which will be reviewed and endorsed by the Shire prior to development commencing. The principal construction contractor will be the Construction Design and Management (CDM) coordinator for the project and will be responsible for all site access and health and safety inductions.

Temporary development will be required during the construction phase of the project. This may include:

- Main office and meeting room
- Ablution block
- Crib room
- Water tanks (both for use onsite and bushfire)
- Car Park
- Construction laydown area.

During the construction phase it is expected that both a local and specialist/technical workforce will be utilised. The specialist/technical workforce will be sourced from outside of the Shire, however local workers will be used where possible. The workforce will be accommodated within the townsite during the 12 – 18 month construction phase.

2.5 OPERATIONS

The facility will be largely autonomous and unmanned once operational, with locally based contractors/ employees responsible for the ongoing management of the site. Remote monitoring of the facility will also occur to ensure that the facility is operating in accordance with Western Power's technical rules and in accordance with AEMO guidelines. The site operation and maintenance workforce will ensure the facility is operating as intended.

Once operational, only occasional maintenance personnel visits to the site will be required.

2.6 ACCESS

Access to the subject site will be via Robartson Road, utilising an existing farm crossing adjacent to the farm dam and firebreak. An upgraded crossover and access road will be constructed in this location, and will be built to both Shire and required bushfire standards. The subject site will be fully fenced for security reasons with only those who need to be on site for operations or maintenance permitted access once the facility is operational.

2.7 STAFFING

It is estimated that up to 150 people will be employed during the full construction phase, with a peak manpower requirement of approximately 50 people onsite. Once the project is complete operation will be largely autonomous and the site will be unmanned, with only operation and maintenance personnel visiting the site a few times a year or as required if an unplanned maintenance activity is required. There is sufficient room on the subject site for the

parking of staff that might visit the site and any additional workers that may be required on site for maintenance and upgrades that may be required during the life of the facility.

2.8 COMMUNITY AND ECONOMIC BENEFITS

The project is a major investment in the State and local economy, as well as a step towards a lower carbon future. It will benefit both local and wider communities.

Contract negotiations with Western Power are underway and will continue however these are of a commercial nature and not central to the consideration of the development application and from an implementation perspective.

The facility will use local, regional or Western Australian labour and materials as much as possible. However, the batteries will be made overseas and technical specialists will be needed for their installation and commissioning.

The project will create economic and employment opportunities for Merredin residents, including accommodation/housing and local goods and services during the construction period. The proponent will invite local companies to bid for jobs such as electrical, security, ground work, and mechanical work. This will provide work for local companies and their employees during the construction phase. The facility will also create local jobs for maintenance and monitoring after the development.

3.0 strategic considerations

3.1 STATE PLANNING STRATEGY 2050

The State Planning Strategy “highlights the principles, strategic goals and strategic directions that are important to the land-use planning and development of Western Australia”.

The strategy further states under point 2.3 Energy that:

- Effective and flexible planning, policy and regulatory frameworks provide an enabling environment for investment and the uptake of new technologies.
- Existing and emerging industries are encouraged to locate in appropriate regional areas to encourage economic diversification.
- With global and domestic pressures likely to cause further increases in the cost of fossil fuels, it is in Western Australia’s long-term interest to develop a diverse energy supply mix, including the use of renewable fuel sources.
- Renewable energy initiatives help to mitigate the risks from climate change, lessen fossil fuel use and reduce greenhouse emissions.

The development of the proposed BESS facility meets the objectives of the State Planning Strategy 2050 in that the facility will provide a source of clean energy within the Shire and the broader SWIS.

3.2 STRATEGY UPDATE: WESTERN AUSTRALIA’S FUTURE BATTERY AND CRITICAL MINERALS INDUSTRIES NOVEMBER 2020 – NOVEMBER 2022

This strategy was developed by the Department of Jobs, Tourism, Science and Innovation (JTSI) and states at Priority 4 to support energy storage applications that consider or address:

- Increasing the uptake of battery energy storage will support new industry development opportunities.
- Large and small-scale batteries offer opportunities for low cost, low emissions energy, and will form a large part of Western Australia’s energy transformation into the future.
- The increasing uptake of batteries in rural and remote communities, as well as emerging applications in mining, defence and other advanced manufacturing industries will help to create new jobs, skills and

technological capabilities in the assembly, installation and management of energy storage in Western Australia

With the next steps to be to:

- Promote the uptake and integration of batteries across a range of settings and industries in Western Australia.
- Support enhanced workforce capability in the assembly, installation, and management of batteries.

The proposed development of this facility within a rural area energy hub is delivering the priorities outlined within the strategy in relation to development of the proposed BESS facility.

4.0 Planning Framework

4.1 POSITION STATEMENT: RENEWABLE ENERGY FACILITIES

This policy identifies assessment measures to facilitate appropriate development of renewable energy facilities. It seeks to ensure that proposed facilities are located in areas that are suitable and minimise the impact on the environment, natural landscape and urban areas while maximising energy production and operational efficiency.

The objectives of the position statement are to:

- Outline key planning and environmental considerations for the location, siting and design of renewable energy facilities.
- Promote the consistent consideration and assessment of renewable energy facilities
- Facilitate appropriate development of renewable energy facilities while minimising any potential impact upon the environment, natural landscape, and urban areas
- Encourage informed public engagement early in the renewable energy facility planning process

Under Clause 6 of the position statement a definition of a Renewable Energy Facility is outlined and is as follows:

Renewable energy facility means premises used to generate energy from a renewable energy source and includes any building or other structure used in, or relating to, the generation of energy by a renewable resource. It does not include renewable energy electricity generation where the energy produced principally supplies a domestic and/or business premises and any on selling to the grid is secondary.

Clause 5.3 of the position statement relates to renewable energy facility proposals and includes matters that should be considered when assessing proposals, these include:

- Community consultation
- Environmental Impact
- Visual and Landscape impact
- Noise Impact
- Public and aviation safety
- Heritage
- Construction impact

The clauses and matters that are applicable to this

application are detailed in the Table 2 below:

Table 2 – Response to Position Statement on Renewable Energy

Clause	Response
<p>5.3.1 Community consultation</p> <p>Early consultation with the community and stakeholders by the proponents is encouraged to ensure that the proposal is compatible with existing land uses on and near the site.</p> <p>The local government should be consulted with respect to the community consultation program.</p>	<p>Given the location of the facility adjacent to the existing Merredin Terminal Station and its location on existing cleared agricultural land, consultation with the community was not seen as required in this instance. Further, the economic benefit to the Shire and the community along with the greater benefit to the residents within the Shire in being able to source clean energy to power their homes and businesses is seen as a benefit to the community.</p> <p>Land Insights has been consulting with the Shire in regard to the proposed development and met with the Shire on the 23rd of November 2023 to discuss the proposed facility.</p>
<p>5.3.2 Environmental Impact</p> <p>An environmental survey of the site should be conducted prior to the commencement of the renewable energy facility design. The type, location and significance of flora and fauna, particularly rare and endangered or threatened communities that may be impacted, should be described and mapped so that remnant vegetation and sensitive areas can be avoided.</p>	<p>The subject site is currently used for cropping and grazing and is cleared with no pockets of remnant vegetation contained on site. The facility will not have a detrimental affect on the environment rather the facility provides a greater capacity for renewable energy for not only the Shire but also the State to meet its proposed renewable targets for 2050. A qualified botanist reviewed the site, and it was determined that there was no requirement for a flora/ fauna survey in this instance.</p>

Clause	Response
Facilities should be located near the grid to minimise clearing of vegetation for grid connection power lines. Solar arrays over a large area may have significant effect on the clearing of native vegetation. Already cleared farming land may offer a practical solution to minimise any environmental impact.	The proposed facility is adjacent to the existing Merredin Terminal Station so there is no requirement for the clearing of vegetation for a grid connection. The site is already cleared for agricultural purposes meaning that the proposed development will have minimal, if any, environmental impact.
5.3.3 Visual and Landscape impact The location and siting of a renewable energy facility may require a visual and landscape impact assessment that addresses: <ul style="list-style-type: none"> landscape significance and sensitivity to change, site earthworks, topography, extent of cut and fill, the extent and type of vegetation, clearing and rehabilitation areas, land use patterns, built form character, public amenity and community values. 	The subject site is cleared, and the proposed development application will sit approximately 140m from Robertson Road (to the east) behind an existing dam and adjacent to the Merredin Terminal station. There are no residential buildings within the immediate surrounds of the subject site which means that the impact of the facility on its surrounds will be minimal. The closest house is over 2km away meaning there are no sensitive receptors nearby. A visual assessment of the proposal has been undertaken (refer to section 6 of this document), which concluded minimal, if any, visual impact.
<ul style="list-style-type: none"> likely impact on views including the visibility of the facility using view shed analysis and simulations of views from significant viewing locations including residential areas, major scenic drives and lookouts 	Given the location of the proposed development within an area that is largely cleared for agricultural purposes and adjacent to the existing Merredin Terminal station the proposed development will not have an impact on any significant views and it not located near any residential houses nor major scenic drives.

Clause	Response
<ul style="list-style-type: none"> layout of the facility including the number, height, scale, spacing, colour, surface reflectivity and design of components, including any ancillary buildings, signage, access roads, and incidental facilities measures proposed to minimise unwanted, unacceptable or adverse visual impacts. Visual Landscape Planning in WA: a manual for evaluation, assessment, siting and design, (November 2007) and the Australian Wind Energy Association and the Australian Council of National Trusts Publication Wind Farms and Landscape Values (2005) provide detailed guidance on visual landscape impact assessments. 	<p>Plans of the proposed development are provided with this application.</p> <p>Given the proposed development is adjacent with the existing Merredin Terminal station which already has infrastructure in place of a similar nature it is unlikely that the additional infrastructure proposed to be located on site will have an unacceptable or adverse visual affect.</p> <p>A visual assessment of the proposal has been undertaken (refer to section 6 of this document), which concluded minimal, if any, visual impact.</p>

Clause	Response
<p>Some locations may hold Aboriginal heritage, natural or historic heritage significance which may impact site suitability. An assessment should address:</p> <ul style="list-style-type: none"> local archaeological and ethnographic records any impact upon the natural environment that have aesthetic, historical, scientific or social significance or other special value for the present and future community any impact upon the historic heritage characteristics of adjoining/nearby places with an impact assessment of the proposal undertaken where relevant. <p>Consultation with the Department of Planning, Lands and Heritage may be required if heritage issues are identified. Appropriate consultation should be undertaken with respect to Aboriginal heritage matters.</p>	<p>A review of the relevant layers of the Department for Planning Lands and Heritage databases and other relevant documentation did not find any areas of Aboriginal Heritage, natural and historic significance. As such the trigger for consultation with the DPLH at this stage has not been reached. The DPLH will likely be consulted during the statutory advertising period.</p>

Clause	Response
<p>5.3.7 Construction impact</p> <p>It is important to accommodate the full scope of works to occur on the site in the development of a renewable energy facility. Consideration needs to be given to potential staging that may occur including one type of renewable energy being subsequently complemented by a second type of renewable energy to supplement continuity of feed into the grid, for example, wind turbines supplemented by solar arrays on the same site.</p> <p>Key matters that should be addressed during the construction phase are:</p>	<p>The construction impact will not be as significant as when the adjoining solar farm was constructed. It is predicted that over the period of 12 to 18 months that there will be an estimated 300 truck movements in total, delivering the batteries and associated infrastructure for the site. The majority of these deliveries will occur in the early to mid stages of the construction phase.</p> <p>During the construction phase it is expected that, at the peak, there will only need to be 50 workers arriving (between 6-8am) and leaving (between 4-6pm) the subject site.</p>
<p>a site construction management plan that identifies standards and procedures for the construction of the development including the management of environmental emissions such as dust and noise</p>	<p>A Construction Management Plan (CMP) can be implemented as a Condition of Approval by the Shire and the Joint Development Assessment Panel. The CMP will be in line with the Shire's requirements and will include the standards and procedures for the construction of the proposed development including the environmental emissions such as dust and noise that might occur during the construction phase.</p> <p>The CMP will also deal with matters such as traffic movements and stormwater that can be assessed once final detailed design has been undertaken.</p>

Clause	Response
site disturbance should be minimised during construction through careful siting and measures to address erosion, drainage run-off, flooding, water quality, retention of remnant vegetation, stabilisation of top soil, and weed and disease hygiene.	The proposed development has been designed to sensitively respond to the subject site and site disturbance will be minimised during the construction phase. The design reflects the best possible use of the subject site taking into account all of the various matters outlined under this point.
vehicle and machinery access and movement. A decommissioning program should be separately developed in relation to removal of the facility and any rehabilitation requirements.	<p>A Traffic Impact Statement has not been produced for this development given the low level of vehicle movements that are proposed over the construction timeframe and it should be noted, as mentioned previously, truck movements will be significantly less than during the construction of the surrounding solar farm. The internal roads will be constructed to a standard that will allow for easy onsite movement of the trucks delivering the battery packs and associated infrastructure and for ease of turnaround and access and egress.</p> <p>Further as shown on the plans there is sufficient area for the required staff to park on the subject site.</p> <p>The life of the proposed facility is expected to be up to 30 years. If/when the facility is decommissioned the infrastructure can be removed and the land returned for farming purposes - it is unlikely that rehabilitation will be required.</p>

4.2 STATE PLANNING POLICY 2.0 – ENVIRONMENT AND NATURAL RESOURCES (SPP2.0)

The policy states that:

Western Australia is one of the most biologically diverse regions in the world, home to a broad range of ecological communities and species, and natural landscapes. The States vast areas encompass rich and extensive agricultural, pastoral, marine and mineral resources. The protection and wise management of the environment and natural resources of the State are of paramount importance if we are to maintain our lifestyle now and into the future.

SPP 2.0 further states that:

Careful assessment will be required to resolve conflicts between land use and protection of natural resources, giving consideration to the potential impacts on the environment, community lifestyle preferences, and economic values. This requires an understanding of the competing pressures of development and environmental protection, together with the economics of sustainable land use and management practices, advances in technology, and the priorities of the community.

Clause 5.6 of SPP 2.0 relates to Agricultural Land and Rangelands and states that:

Planning strategies, schemes and decision making should:

- *Protect and enhance areas of agricultural significance, having regard to State, regional and local issues and characteristics, and to the requirements of Statement of Planning Policy No.11: Agricultural and Rural Land Use Planning*
- *Consider the natural resource capability of rangelands and agricultural lands*
- *Diversify compatible land use activities in agricultural areas and rangelands based on principles of sustainability and recognizing the capability and capacity of the land to support those uses.*

The proposed development meets these objectives in that the subject site is already cleared and used for broad acre cropping and grazing and is not in an area of agricultural significance with the balance of the subject site still used

for existing agricultural purposes. Further, the proposed development will allow the diversification of land use on the principle of sustainability by providing a green energy facility within the locality and broader surrounds.

Clause 5.10 of SPP 2.0 relates to Greenhouse Gas Emission and Energy Efficiency and states:

There is a widespread awareness of the need to increase the efficiency with which energy is used in Western Australia, including the need to reduce our reliance on energy produced from non-renewable resources such as fossil fuels. The primary objective is to reduce greenhouse gas emission by means (but not limited to) increasing energy efficiency, decreasing reliance on non-renewable fuels, and increasing usage of renewable energy sources.

Planning strategies, schemes and decision making should:

- *Promote energy efficient development and urban design incorporating such issues as energy efficient building design, walkable neighbourhoods, higher densities in areas accessible to high quality public transport, local access to employment, retail and community facilities, and orientation of building lots for solar efficiency.*
- *Support the retention of existing vegetation and revegetation in subdivision and development proposals.*
- *Support the use of alternative energy generation, including renewable energy, where appropriate.*
- *Support the adoption of adaptation measures that may be required to respond to climate change.*

The proposed development meets the objectives outlined under the Greenhouse Gas Emission and Energy efficiency clause in that the development of the BESS facility does not involve the removal of any remnant vegetation and is a form of alternative energy generation and storage which is a form of renewable energy and is a measure that is responding to climate change.

Clause 6 of SPP2.0 relates to the Implementation

of the policy and states that:

Implementation will also occur through the day-to-day process of decision-making on subdivision and development applications, and the actions of other State agencies in carrying out their responsibilities. Local Governments and State agencies will need to take account of these policy measures to ensure integrated decision-making and in the planning and management of the environment and natural resources.

The proposed development meets the requirements of SPP 2.0 in that the proposed development will help reduce the need to rely on traditional energy forms and the introduction of a renewable facility. Further as the proposed development is adjacent to the existing Merredin Terminal station.

4.3 STATE PLANNING POLICY 2.5 – RURAL PLANNING (SPP2.5)

The purpose of this policy is to protect and preserve Western Australia’s rural land assets due to the importance of their economic, natural resource, food production, environmental and landscape values. In terms of the proposed solar farm development compliance with SPP2.5 and compatibility with surrounding rural land uses.

The objectives of SPP2.5 are outlined and addressed in the Table 3 below:

Table 3 – Response to Objectives of SPP2.5

Objective	Response
Support existing, expanded and future primary production through the protection of rural land, particularly priority agricultural land and land required for animal premises and/or the production of food;	The subject site is not identified as priority agricultural land in the Local Planning Strategy or other applicable documents. Once the BESS facility and associated substation and infrastructure is operational, the remainder of the lot can be used for cropping and grazing. The facility will be fully fenced to ensure that it is protected.
Provide investment security for existing, expanded and future primary production and promote economic growth and regional development on rural land for rural land uses;	The proposed BESS facility will promote economic growth and regional development through the development of a new land use and the protection of energy for the region. The proposed farm will increase the workforce during the construction phase, this will occur in terms of accommodation options but also the workers spending money within the Shire.
Outside the Perth and Peel planning regions, secure significant basic raw material resources and provide for their extraction	Extraction of basic raw materials is not proposed.
Provide a planning framework that comprehensively considers rural land and land uses, and facilities consistent and timely decision-making	The local planning framework is addressed under Section 3.2 of this report.

Objective	Response
Avoid and minimise land use conflicts	Surrounding land uses are typically broad acre farming and grazing, the Merredin Terminal station and an operating solar farm. It is considered that the proposed BESS facility will not result in significant land use conflicts within the broader area instead being located in a precinct with existing power generation infrastructure.
Promote sustainable settlement in, and adjacent to, existing urban areas; and	The subject site is not proposing urban development.
Protect and sustainably manage environmental, landscape and water resource assets.	The proposed development will not have any detrimental effects on the environment, landscape, water nor resource assets. Instead, the proposed development the proposed facility will allow for the protection of the environment through the production of green energy.

Section 5.5 of SPP2.5 relates to regional variation, economic opportunities and regional development it states that:

Western Australia is a large and diverse State with regional variations of climate, economic activity, cultural values, demographic characteristics and environmental conditions. The WAPC’s decisions will be guided by the need to provide economic opportunities for rural communities and to protect the States primary production and natural resource assets. WAPC policy is to:

- (a) *continue to promote rural zones in schemes as flexible zones that cater for a wide range of land uses that may support primary production, regional facilities, environmental protections and cultural pursuits*

The proposed BESS facility meets the above Section 5.5 of the policy in that:

- The proposal is providing economic opportunities for the Shire and will not have a detrimental effect on the State’s primary production and natural resource

assets.

- The proposal represents a regional facility and therefore flexibility within the General Farming Zone considered by both the Shire and the WAPC can be supportive of this land use.

Section 5.12 relates to preventing and managing impacts in land use planning and states that:

Planning decision makers need to consider the broad suitability of land uses and the ability to manage offsite impacts prior to determining whether the use of a buffer is necessary.

Section 5.12.1 relates to Avoiding Land Use conflict and outlines the matters that planning decision makers shall take to avoid land use conflict which are outlined in the Table 4 below:

Table 4 – Objectives of Avoiding Land Use Conflict

Objective	Response
Where an existing land use that may generate impacts is broadly compatible with surrounding zones and land uses, a separation distance should be indicated in a local planning strategy so there is broad awareness of the land use	<p>The subject site is not identified as priority agricultural land in the Local Planning Strategy nor any other associated documents.</p> <p>The BESS facility is expected to generate little to no impact on its surrounds and therefore a separation distance from the solar farm to other uses within the General Farming zone is highly unlikely to be required.</p> <p>Further, no farmhouses are located within close proximity of the project, coupled with it being adjacent to the Merredin Terminal station, means that the location is highly suitable as the development will blend in with the existing operating development.</p>

Objective	Response
<p>Where a development is proposed for a land use that may generate offsite impacts, there should be application of the separation distances used in environmental policy and health guidance, prescribed standards, accepted industry standards and/or Codes of Practice, followed by considering</p> <p>Whether the site is capable of accommodating the land use and/or</p> <p>Whether surrounding rural land is suitable, and can be used to meet the separation distances between the nearest sensitive land use and/or zone, and would not limit future rural land uses; and</p> <p>Whether if clauses (i) and/ or (ii) are met, a statutory buffer is not required</p>	<p>The subject site is capable of accommodating the proposed land use and suitable separation distances in regard to bushfire and other requirements are adhered to.</p> <p>The proposed development meets both clauses (i) and (ii) and therefore a statutory buffer is not required.</p>
where a development is proposed for a land use that may generate off-site impacts and does not meet the standard outlined in clause 5.12.1 (b) then more detailed consideration of off-site impacts will be required, in accordance with clause 5.12.3 of this policy; and	It is unlikely that the proposed BESS facility will generate offsite impacts. Rather, the proposed facility will enhance and reduce off site impacts by providing green energy to Shire and the State to meet Net Zero targets.
where a development is proposed that could be contemplated in the zone, and has been assessed under clause 5.12.3 as having unacceptable off-site impacts that cannot be further mitigated or managed, the proposal should be refused	Not applicable to this proposal

4.4 STATE PLANNING POLICY 3.7 – PLANNING IN BUSHFIRE PRONE AREAS (SPP3.7)

Although the subject site is not within a bushfire prone area as shown in Figure 4 – Bushfire Prone Areas shown below, given the nature of the proposed development and for safety reasons a bushfire management plan and risk assessment has been undertaken to ensure that all safety measures are complied with and so that the correct recommended firefighting equipment can be kept on site should an incident occur.

The intent of SPP3.7 is to:

Implement effective, risk-based land use planning and development to preserve life and reduce impact of bushfire on property and infrastructure.

Policy measure 5 of SPP3.7 relates to the policy objectives and are as follows:

5.1 Avoid any increase in the threat of bushfire to people, property and infrastructure. The preservation of life and the management of bushfire impact are paramount.

5.2 Reduce vulnerability to bushfire through the identification and consideration of bushfire risks in decision making at all stages of the planning and development process.

5.3 Ensure that higher order strategic planning documents, strategic planning proposals, subdivision and development application take into account bushfire protection requirements and include specified bushfire protection measures.

5.4 Achieve an appropriate balance between bushfire risk management measures and, biodiversity conservation values, environmental protection and biodiversity management and landscape amenity, with consideration of the potential impacts of climate change.

The proposed development meets the objectives of the policy in that it will:

- Not increase the threat of bushfire to people, property and infrastructure and as part of the application the preservation of life and the management of the possible bushfire impact are paramount.

- It will reduce the vulnerability of bushfire over the subject site through the identification and consideration of bushfire risks through all stages of the planning and development process.
- The proposed development application will take into account bushfire protection requirements, and it will include specified bushfire protection measures within the applicable Bushfire Management Plan.
- The proposed development is aiming to achieve through careful design, a balance between bushfire risk management measures, biodiversity and conservation values, environmental protection and biodiversity management and landscape amenity.
- A specialist risk assessment has been undertaken in regard to the BESS facility with appropriate measures identified in relation to risk and management of the facility in relation to bushfire.

Policy measure 6.2 of SPP3.7 relates to development applications and states that:

- *Strategic planning proposals, subdivision and development applications within designated bushfire prone areas relating to land that has or will have a Bushfire Hazard Level (BHL) above low and/or where a Bushfire Attack Level (BAL) rating above BAL-LOW apply, are to comply with these policy measures.*
- *Any strategic planning proposal, subdivision or development application in an area to which policy measure 6.2 a) applies, that has or will, on completion, have a moderate BHL and/or where BAL-12.5 to BAL-29 applies, may be considered for approval where it can be undertaken in accordance with policy measures 6.3, 6.4 or 6.5.*
- *This policy also applies where an area is not yet designated as a bushfire prone area but is proposed to be developed in a way that introduces a bushfire hazard, as outlined in the Guidelines.*

Although the subject site does not contain any areas mapped as bushfire prone, given the nature of the proposed facility it was considered best practice to undertake both a bushfire assessment and a risk assessment so that all relevant safety

measures are considered and addressed.

Policy measure 6.5 relates to information that is required to accompany a development application and states that:

Any development application to which policy measure 6.2 applies is to be accompanied by the following information in accordance with the Guidelines:

a) (i) a BAL assessment. BAL assessments should be prepared by an accredited Level 1 BAL Assessor or a Bushfire Planning Practitioner unless otherwise exempted in the Guidelines; or

(ii) a BAL Contour Map that has been prepared for an approved subdivision clearly showing the indicative acceptable BAL rating across the subject site, in accordance with the Guidelines. BAL Contour Maps should be prepared by an accredited Bushfire Planning Practitioner

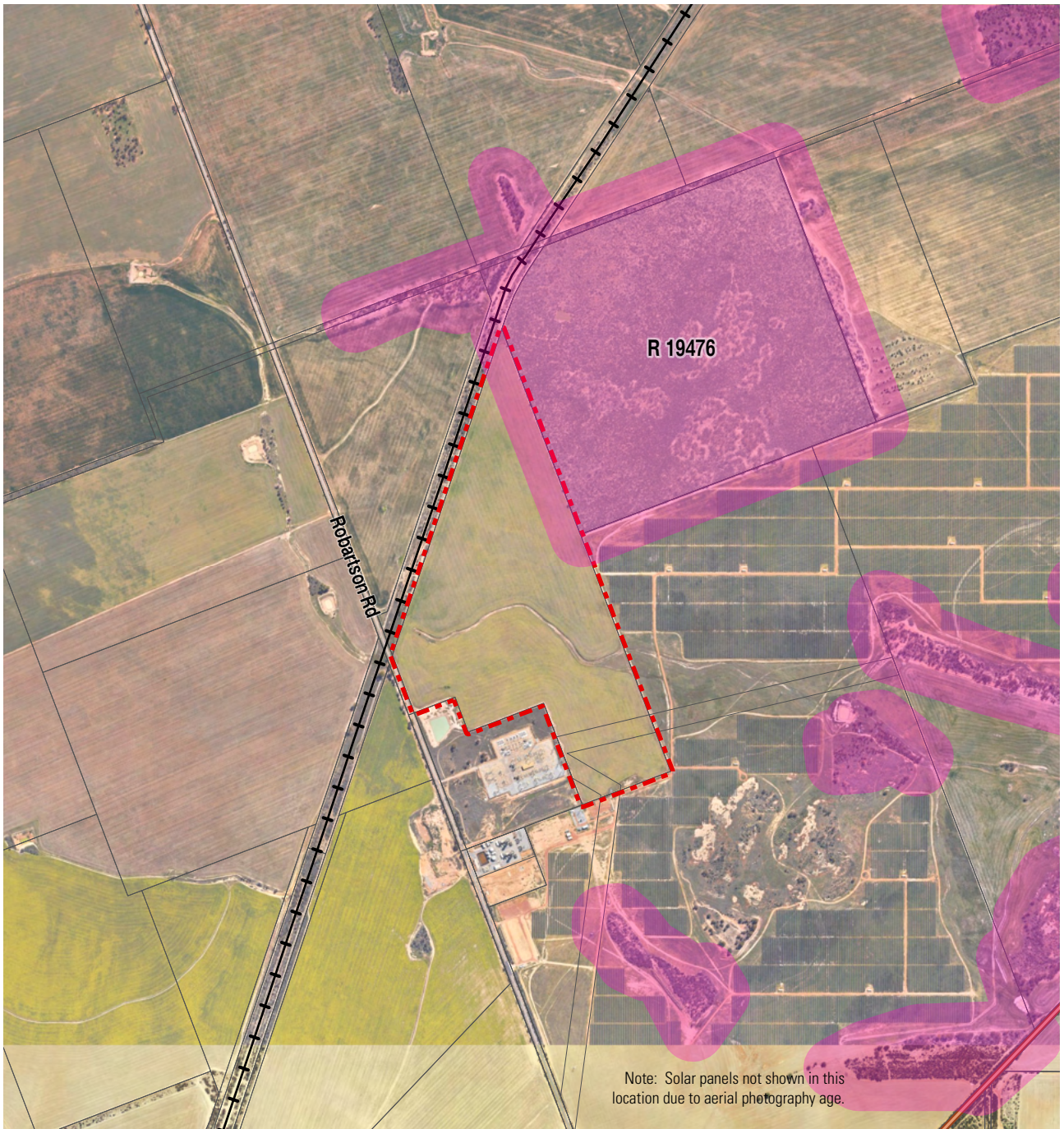
b) the identification of any bushfire hazard issues arising from the BAL Contour Map or the BAL assessment; and c) an assessment against the bushfire protection criteria requirements contained within the Guidelines demonstrating compliance within the boundary of the development site

This information can be provided in the form of a Bushfire Management Plan or an amended Bushfire Management Plan where one has been previously endorsed.

Under Clause 6.6 of SPP3.7 relates to vulnerable or high-risk land uses in areas where BAL-12.5 to BAL-29 apply and although the subject site is not within a bushfire prone area clause 6.6.1 states that:

Development applications should include an emergency evacuation plan for proposed occupants and/or risk management plan for any flammable on-site hazards.

Given the above the appropriate risk assessment has been undertaken for the subject site.



- Lot Boundary
- Cadastre
- State Road
- Reserves
- + Rail Line
- Bush Fire Prone Areas (OBRM-001)

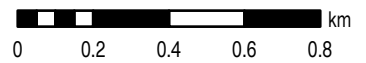


Figure 4: Bushfire Prone Areas

4.5 OTHER MATTERS TO BE CONSIDERED (C67 DEEMED PROVISIONS)

Clause 67(2) of the Deemed Provisions of the Planning and Development (Local Planning Schemes) Regulations 2015 (Regulations) sets out the matters for which due regard is to be given when considering a development application. Refer to Table 5 below for an assessment against the matters to be considered.

Table 5 – Other Matters to be Considered

Matters to be considered	Response
the aims of the provisions of this Scheme and any other local planning scheme operating within the Scheme area;	This section outlines in detail how the proposed development meets the aims and provisions of the Shire's Local Planning Scheme No.6 (LPS6).
the requirements of orderly and proper planning including any proposed local planning scheme or amendment to this Scheme that has been advertised under the Planning and Development (Local Planning Scheme) Regulations 2015 or any other proposed planning instrument that the local government is seriously considering adopting or approving;	<p>The proposed development meets the requirements of orderly and proper planning in that it meets the aims and objectives of the current local planning scheme.</p> <p>The Shire does not currently have any local planning policies applicable to the current development.</p> <p>The proposed development also meets the aims and objectives of both Federal and Commonwealth objectives for Australia and Western Australia to become net zero.</p>
any approved State Planning Policy	As outlined in Section 3.1 of this report the proposed development meets the requirements of the State's planning policies applicable to this development.
any environmental protection policy approved under the Environmental Protection Act 1986 section 31(d)	There are no relevant EPP's applicable to this area.
any policy of the Commission	All applicable policies and position statements of the Commission have been addressed under Section 4 of this report.

Matters to be considered	Response
any policy of the State	All applicable planning policies of the State have been addressed under Section 4 of this report. Further the proposed development meets the requirements of the State Governments aim to be net zero by 2050.
any local planning policy for the Scheme area	All applicable local planning policies have been addressed under Section 4 of this report.
any structure plan, activity centre plan or local development plan that relates to the development	There are no applicable structure plans, activity centre plans or local development plans in regard to the proposed development.
any report or review of the local planning scheme that has been published under the Planning and Development (Local Planning Schemes) Regulations 2015	Not Applicable
in the case of land reserved under this Scheme, the objectives for the reserve and the additional and permitted uses identified in this Scheme for the reserve	Not applicable
the built heritage conservation of any place that is of cultural significance	A search of the applicable databases and documentation did not identify any built heritage nor any place that is of cultural significance.
the effect of the proposal on the cultural heritage significance of the area in which the development is located	The proposed development will have no detrimental effect on the cultural heritage significance of the area.
the compatibility of the development with its setting including the relationship of the development on adjoining land or on other land in the locality including, but not limited to, the likely effect of height, bulk, scale, orientation and appearance of the development	The proposed development is compatible with its setting in that the proposed development is adjacent to with the Merredin Terminal station and is compatible with that already existing built form.

Matters to be considered	Response
<p>The amenity of the locality including the following –</p> <ul style="list-style-type: none"> • Environmental impacts of the development • The character of the locality • Social impacts of the development 	<p>The proposed development will have negligible environmental impact over the subject site. The site is currently cleared of remnant vegetation and used for grazing and cropping purposes.</p> <p>The proposed development will not have an impact on the character of the locality. The broadacre farming that surrounds the subject site will not be affected by the development and the character of the rural area will not be affected. Further, as mentioned previously, the siting of the development adjacent to the existing Merredin Terminal means that the development is well sited within the area.</p> <p>There will be no social impacts of the proposed development. In the long term only a small number of workers will be required to maintain the development which will provide employment opportunities for residents of the Shire.</p>
<p>The likely effect of the development on the natural environment or water resources and any means that are proposed to protect or to mitigate impacts on the natural environment or the water resource</p>	<p>As stated previously the proposed development has been carefully designed so that the BESS facility will be located on cleared cropping and grazing land adjacent to the Merredin Terminal.</p>
<p>Whether adequate provision has been made for the landscaping of the land to which the application relates and whether any trees or other vegetation on the land should be preserved</p>	<p>The subject site has already been wholly cleared.</p>

Matters to be considered	Response
<p>The suitability of the land for the development taking into account the possible risk of flooding, tidal inundation, subsidence, landslip, bushfire, soil erosion, land degradation or any other risk</p>	<p>The land has been selected by the proponent due to the suitability of the site for the proposed development and its location near the Merredin Terminal station. A bushfire management plan and risk management has been undertaken to ensure that the proposed development is suitable on the subject site.</p> <p>The subject site is not subject to any of the other identified risks.</p>
<p>The suitability of the land for the development taking into account the possible risk to human health or safety</p>	<p>There is no risk to human health in regard to the proposed development</p>
<p>The adequacy of -</p> <ul style="list-style-type: none"> • The proposed means of access and egress from the site; and • Arrangements for the loading, unloading, manoeuvring and parking of vehicles 	<p>Access and egress to the subject site will be upgraded to suitable standards to allow for private and truck movements during the construction phase and the subsequent operation phase. Requirements will be confirmed once a construction manager is appointed, with upgrades done to the Shire of Merredin requirements.</p> <p>There is sufficient room on the subject site for loading and unloading of trucks and laydown areas and the parking of vehicles.</p>

Matters to be considered	Response
The amount of traffic likely to be generated by the development, particularly in relation to the capacity of the road system in the locality and the probable effect on traffic flow and safety	It is expected that over the construction period of 12 – 18 months that there will be approximately 300 truck movements to and from the site. It is estimated that there will be a construction workforce of approximately 150 workers over the course of the project, with a peak workforce of no more than 50 people. The peak numbers of movements for these workers will be during the am period of approximately 7 – 8am and then the pm period between 4 – 6 pm as workers arrive in the morning to commence working and then leave in the pm period.
The availability and adequacy for the development of the following – <ul style="list-style-type: none"> Public transport services Public utility services Storage, management and collection of waste Access for pedestrians and cyclists (including end of trip storage, toilet and shower facilities) Access by older people with disability 	There are no public transport options to the subject site as it is located remotely outside the town of Merredin.
The potential loss of any community service or benefit resulting from the development other than the potential loss that may result from economic competition between new and existing businesses	There will be no loss of any community service or benefit.
The history of the site where development is to be located	The site is a multigeneration agricultural property used for cropping and grazing. This agricultural land use will continue on the majority balance of the site once the BESS is operational.

Matters to be considered	Response
The impact of the development on the community as a whole notwithstanding the impact of the development on particular individuals	The proposed development will not have a detrimental effect on the community or any particular individuals. The development is seen as adding value to the community with the Shire potentially becoming a green hub in the Wheatbelt region. There will be opportunities for short-term and long-term employment as a result of the project.
Any submissions received on the application	
Za) the comments or submissions received from an authority consulted under clause 66	
Zb) any other planning consideration the local government considers appropriate	All planning considerations have been addressed.

4.6 SHIRE OF MERREDIN LOCAL PLANNING SCHEME NO.6

Under LPS6 the subject site is zoned General Farming zone.

The Shire of Merredin's LPS6 was gazetted by the Minister for Planning in June 2011. Under LPS6 the subject site is zone 'General Farming' zone with the objectives of the General Farming zone outlined under Clause 3.2.11 being:

3.2.11.1 To provide for a range of rural pursuits that are compatible with the capability of the land and retain the rural character and amenity of the locality.

3.2.11.2 To protect land from urban uses that may jeopardise the future use of that land for other planned purposes that are compatible with the zoning.

3.2.11.3 To support sustainable farming practices and the retention of remnant vegetation.

3.2.11.4 To prevent any development that may affect the viability of a holding.

3.2.11.5 To encourage small scale, low impact tourist accommodation in rural locations.

3.2.11.6 To encourage a diversification of rural activities that will reduce the dependency of the rural sector on traditional crops.

3.2.11.7 To support the creation of homestead lots in accordance with adopted Local Planning Policy.

3.2.11.8 To support mining activities where an environmental management plan has been prepared and is acceptable to the local government and the Environmental Protection Authority.

3.2.11.9 To preclude the disposal of used tyres or any other material that may be detrimental to the quality of the land.

The proposed battery facility and associated works meet the objectives of the General Rural zone in that the proposed development is:

- Compatible with the capability of the land and will not have a detrimental affect on the rural character of the area nor the amenity of the locality.
- The facility will not jeopardise the future use of the

land for other planned purposes that are compatible with the zoning.

- The subject site is cleared of remnant vegetation and will have no effect on sustainable farming practices.
- The development will not have any affect on the viability of land holdings.

Clause 4.13 of the Shire's LPS6 relates to development in the General Farming zone and states:

All proposals for development in the General Farming zone must have regard to both on-site and off-site impacts and, where necessary, should be accompanied by information identifying –

- *Environmental values and environmental risks*
- *The potential for land use conflict*
- *The potential impacts and restrictions on allowed uses on adjacent or nearby locations*
- *The separation distances and/or buffer relating to a potentially incompatible land use which needs to be provided on-site and the appropriate conditions relating to subdivision and development.*

The proposed BESS facility meets these requirements as:

- The location of the BESS facility on cleared land that contains no pockets of remnant vegetation, and the facility will not have any detrimental environmental effect with on-site or off-site. Rather the proposed facility within a precinct with the existing Merredin Terminal station will provide the Shire and the state with a source of clean green energy as the State moves towards net zero and therefore the environmental value that will be produced offsite is of an extremely high value.
- There is no potential for land use conflict as the proposed facility is within a power generation precinct with energy related infrastructure.
- There are no potential impacts nor proposed restrictions on allowed uses on adjacent land broad acre cropping, grazing and other farming practices will be able to continue to occur on the surrounding land.
- Appropriate buffers will be put in place in relation to the BESS facility in regard to applicable separation distances and these will be contained within the

fence that will protect the facility.

LAND USE CLASSIFICATION UNDER LPS6

Under the Shire LPS6 renewable energy facility is not a use that is listed within the zoning table, Clause 3.4.2 of LPS6 addresses this matter by stating that:

If a person proposes to carry out on land any use that is not specifically mentioned in the Zoning Table and cannot reasonably be determined as falling within the type, class or genus of activity of any other use category the local government may –

- determine that the use is consistent with the objectives of the particular zone and is therefore permitted;
- determine that the use may be consistent with the objectives of the particular zone and thereafter follow the advertising procedures of clause 64 of the deemed provisions in considering an application for development approval; or AMD 5 GG 04/07/17
- determine that the use is not consistent with the objectives of the particular zone and is therefore not permitted.

Land Insights and the proponent request that the Shire and the Joint Development Assessment Panel consider that the proposed use of the subject site is either consistent or may be consistent with the General Farming zone and therefore allow this application to be considered. In support of this request it should be noted that the siting of the proposed facility is adjacent to similar energy-related infrastructure, Merredin Solar Farm, Merredin Terminal and Merredin Energy dual fuel peaking plant. The rationale for determining the consistency with the General Farming zone are outlined within this report.

4.7 LOCAL PLANNING STRATEGY (LPS)

The subject site is located within the General Agriculture category under the Shire of Merredin's Local Planning Strategy which was endorsed in 2007. Under the LPS no objectives are provided for this use and simply states under Clause 4.3.4 in relation to rural areas within the Shire that:

rural land should be protected from proposals that might compromise agricultural viability such as ad-hoc subdivision and incompatible use or development.

The proposed facility within an energy precinct comprising Merredin Solar Farm, Merredin Terminal and Merredin Energy dual fuel peaking plant As such it will not compromise agricultural viability and is not an incompatible use or development.

5.0 site conditions

5.1 SITE SELECTION

The proposed site was selected for the following key reasons:

- It is adjacent to Western Power's Merredin Terminal – a 33kV, 66kV, 132kV and 220kV terminal substation which has numerous existing energy infrastructure, including the 220kV transmission line which feeds the Goldfields and runs back to Muja.
- This part of the SWIS may benefit from a utility-scale BESS facility offsetting potential augmentation works otherwise required by Western Power.
- The close proximity of Merredin Terminal means that the cable route to connect the proposed BESS facility to the SWIS is less than 100m, resulting in minimal impacts and requirements from required transmission infrastructure.
- The site is cleared and has been used for cropping and grazing for over 100 years, meaning there's negligible impact to neighbouring native vegetation and biodiversity.
- The site is adjacent to other generation facilities, being the Merredin Energy dual fuel peaking plant and Merredin Solar Farm (the State's largest operational solar farm).
- There is good access to the site from existing public highways, minimising disruption to the community during construction as no new roads will need to be constructed.

Within the proposed site boundary, there is adequate space to accommodate future expansion if required, the infrastructure layout has been designed to optimise space whilst preserving a suitable Asset Protection Zone and keeping the transmission cable route back to Merredin Terminal to a minimum.

No clearing is required within the site and given the relatively flat nature of the site, minimal cut and fill earthworks will be required to effectively prepare the site for the proposed infrastructure.

5.2 TOPOGRAPHY AND LANDSCAPE

The subject site is essentially flat with very little change in the landscape over the subject site and in particular where the BESS facility is proposed to be located. Further, as mentioned previously in this report the subject site is currently fully cleared and is currently

used for cropping and grazing. Further the location of the BESS facility adjacent to the existing Merredin Terminal substation will mean that the proposed facility will blend in to the already existing use. This is considered further in Section 6 of this report (Visual Assessment).

5.3 AGRICULTURAL LAND USE

The subject site is not identified in the Shire LPS nor Strategy as of being a high agricultural value. The proposed facility will only impact a small portion of the subject site, being approximately 4ha of a 61.5ha site. This means that the existing agricultural land use can keep operating over the majority (>93%) of the subject site with only a small loss of agricultural land.

Figures 6a and 6b show the land capability for these agricultural land uses across the site, along with an assessment of agricultural land to be lost to the Wheatbelt region as a result of the proposal.

An assessment of land qualities relevant to the construction phase of the project (wind erosion and water erosion) indicate that the site is not significant susceptible to these potential impacts.

5.4 VEGETATION AND ECOLOGICAL COMMUNITIES

The subject site contains no remnant vegetation and is cleared and used for grazing and cropping purposes. The Wheatbelt Threatened Ecological Community is present in the area, and additionally, past flora surveys have identified threatened and rare species within areas of remnant vegetation as shown in Figure 7.

The site and proposal were discussed with a qualified botanist (who has previously assessed the Merredin Solar Farm site) in regards to potential impacts of the project, and it was determined that no spring surveys were required due the cleared agricultural nature of the site and surrounding areas. The establishment of the BESS facility is not expected to have any impact on any TEC.

5.5 WATER RESOURCES

A creek runs to the north of the proposed development however this does not impact the subject site. An existing farm dam is located directly to the west of the proposed BESS facility on Western Power land, and the owner of the subject site will grant an easement across the access track to provide ongoing access to the dam for agricultural purposes. The landowner

has agreed to the form of easement, and this will be implemented following receipt of Development Approval.

5.6 HERITAGE

A review of the Department for Planning Lands and Heritages found no Aboriginal Heritage sites on the subject site nor are there any areas of European Heritage on or near the subject site. An archaeological and ethnographic survey was undertaken on the adjoining site prior to the development of the Merredin Solar Farm. This survey concluded that there were no Aboriginal sites of interest on the property – and given the similar nature of the land adjacent a similar conclusion is expected. Development that has the potential to impact on any Aboriginal heritage site (whether discovered or not) is currently governed by the Aboriginal Heritage Act 1972, which could require additional consideration.

5.7 SEPARATION DISTANCES

At this stage no separation distances are prescribed under legislation or policy for the proposed facility other than for bushfire requirements which can easily be accommodated on the subject site. As shown on Figure 8 – Nearby Houses – Sensitive Receptors a 2km buffer has been placed around the proposed facility with the nearest houses falling outside of this buffer.

5.8 BUSHFIRE

Although the subject site is not covered by an identified bushfire prone area as shown in Figure 4 – Bushfire Prone Areas above, an appropriate and applicable risk assessment has been undertaken to ensure that appropriate emergency plans and equipment are on site should any issues arise in relation to the BESS facility.

5.9 TRAFFIC AND TRANSPORT

A traffic impact assessment has not been undertaken for the proposed facility due to the small number of traffic movements, both by truck and private vehicles that will be undertaken throughout the 12-18 month construction phase of the project, with at most 5-6 movements per day at the peak construction period. Once the technical details of the proposal are finalised, a construction manager and contractor appointed, a detailed Traffic Impact Assessment will be prepared for the Shire to review and approve.

Post the construction phase there will be minimal car movements to and from the site with the facility largely being monitored autonomously and unmanned.

During the life of the project there will be periods when the infrastructure on the subject site will need to be maintained, serviced and in some instances upgraded. During these periods there will be a slight increase in traffic movements however it will not have a significant impact on the surrounding road network nor on the access and egress to the subject site.

5.10 CONSTRUCTION MANAGEMENT PLAN

It is suggested that a Construction Management Plan be prepared prior to on-site work commencing. This will ensure that the management of the site is appropriate for the construction phases and methodologies required to implement the project. The Construction Management will review the management actions identified as part of the Development Assessment process, and provide further details on site-specific management as required.

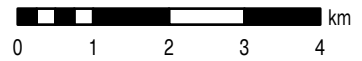
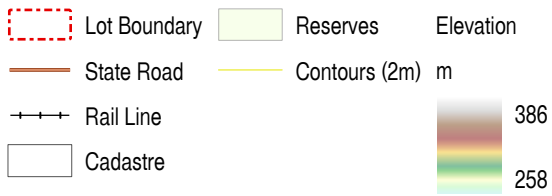
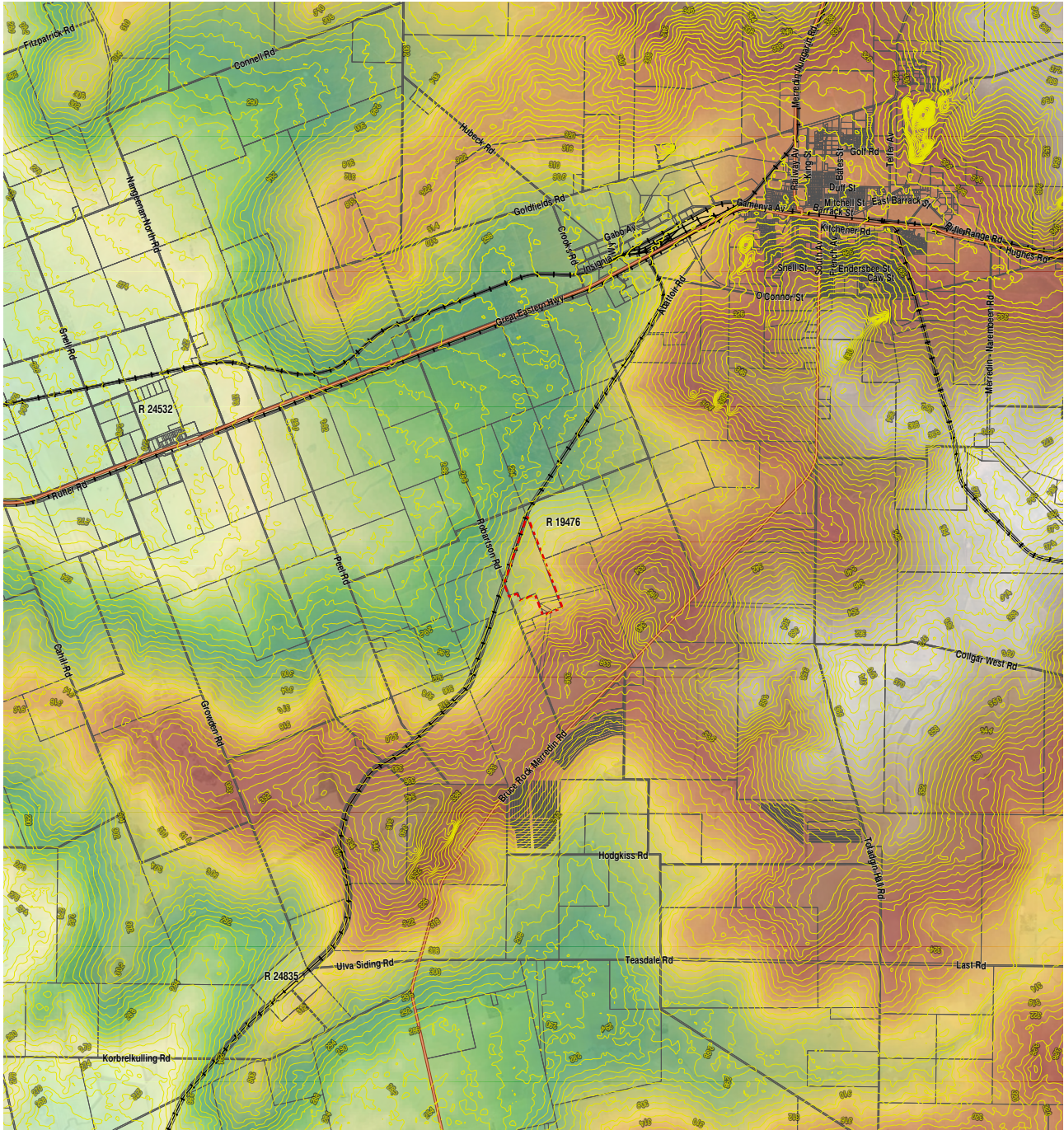
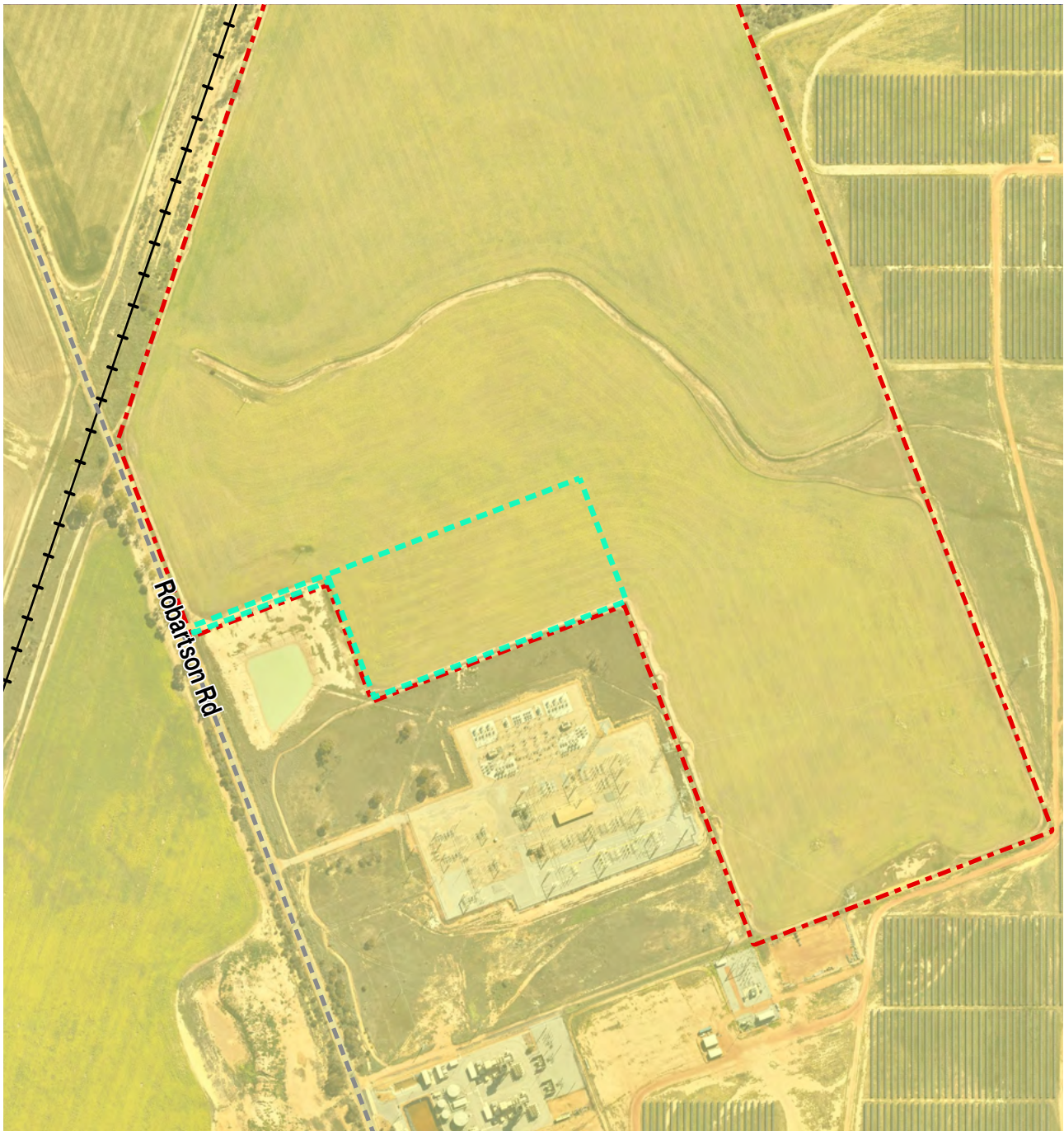


Figure 5: Topography



- Battery Project Area
- Lot Boundary
- Rail Line
- Local Road

Grazing Land - Shire of Merredin

- A1 - >70% of the land has high to very high capability
- A2 - 50-70% of the land has high to very high capability
- B1 - >70% of the land has moderate to very high capability

- B2 - 50-70% of the land has moderate to very high capability
- C1 - 50-70% of the land has low to very low capability
- C2 - >70% of the land has low to very low capability

Battery Site-Grazing Area Percentage

Land Type	Area (ha)	Area %
Battery Site	3.38	
Agricultural land	329223.90	0.0010
B1/B2 land	235570.79	0.0014
C1/C2 land	72597.48	0.0047

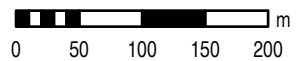
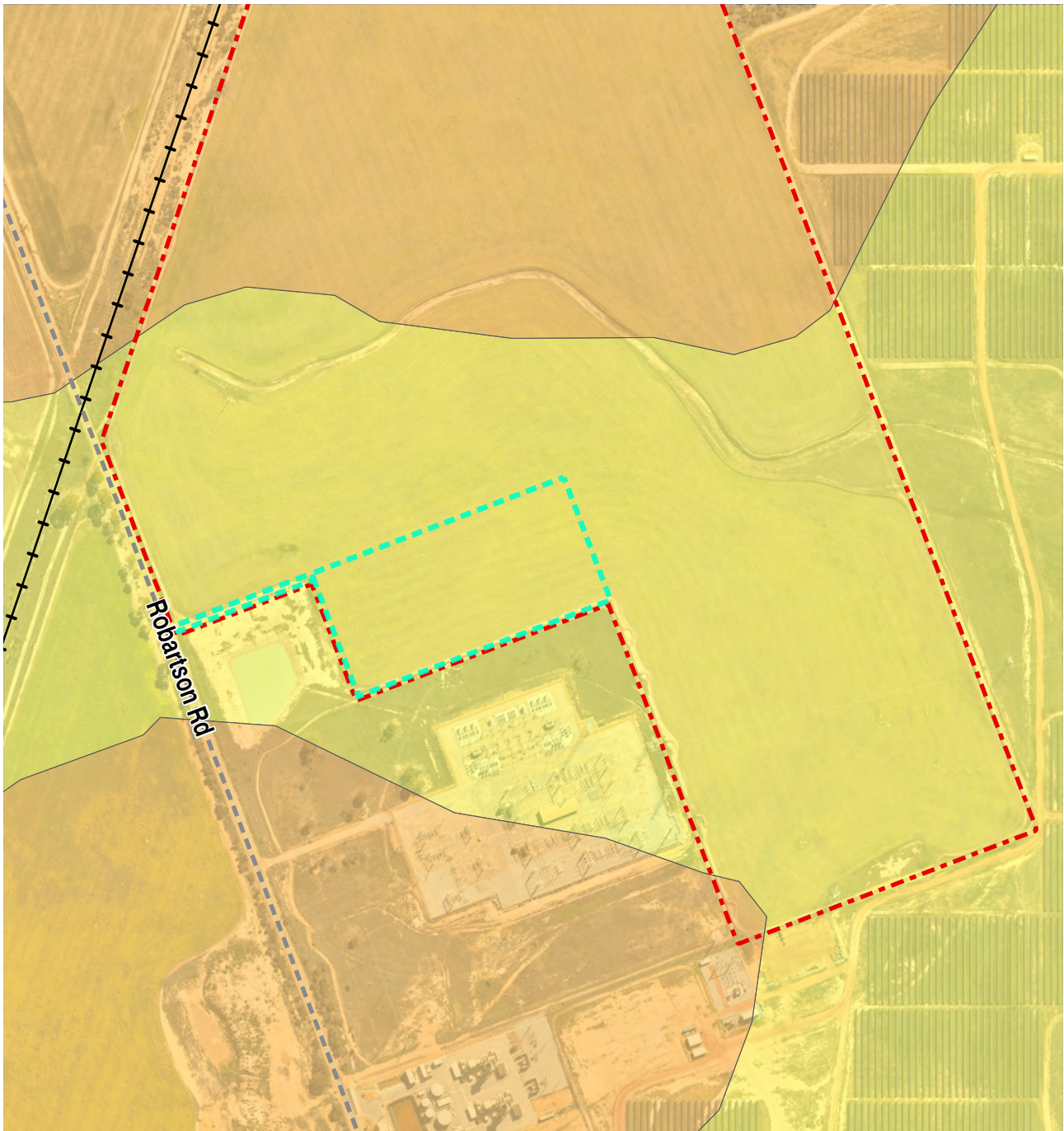


Figure 6a: Land Capability - Grazing



Battery Project Area

Lot Boundary

Rail Line

Local Road

Cropping Land - Shire of Merredin

B1 - >70% of the land has moderate to very high capability

B2 - 50-70% of the land has moderate to very high capability

C1 - 50-70% of the land has low to very low capability

C2 - >70% of the land has low to very low capability

Battery Site-Cropping Area Percentage

Land Type	Area (ha)	Area %
Battery Site	3.38	
Agricultural land	329223.90	0.0010
B1/B2 land	247337.55	0.0014
C1/C2 land	81886.35	0.0041

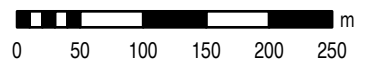
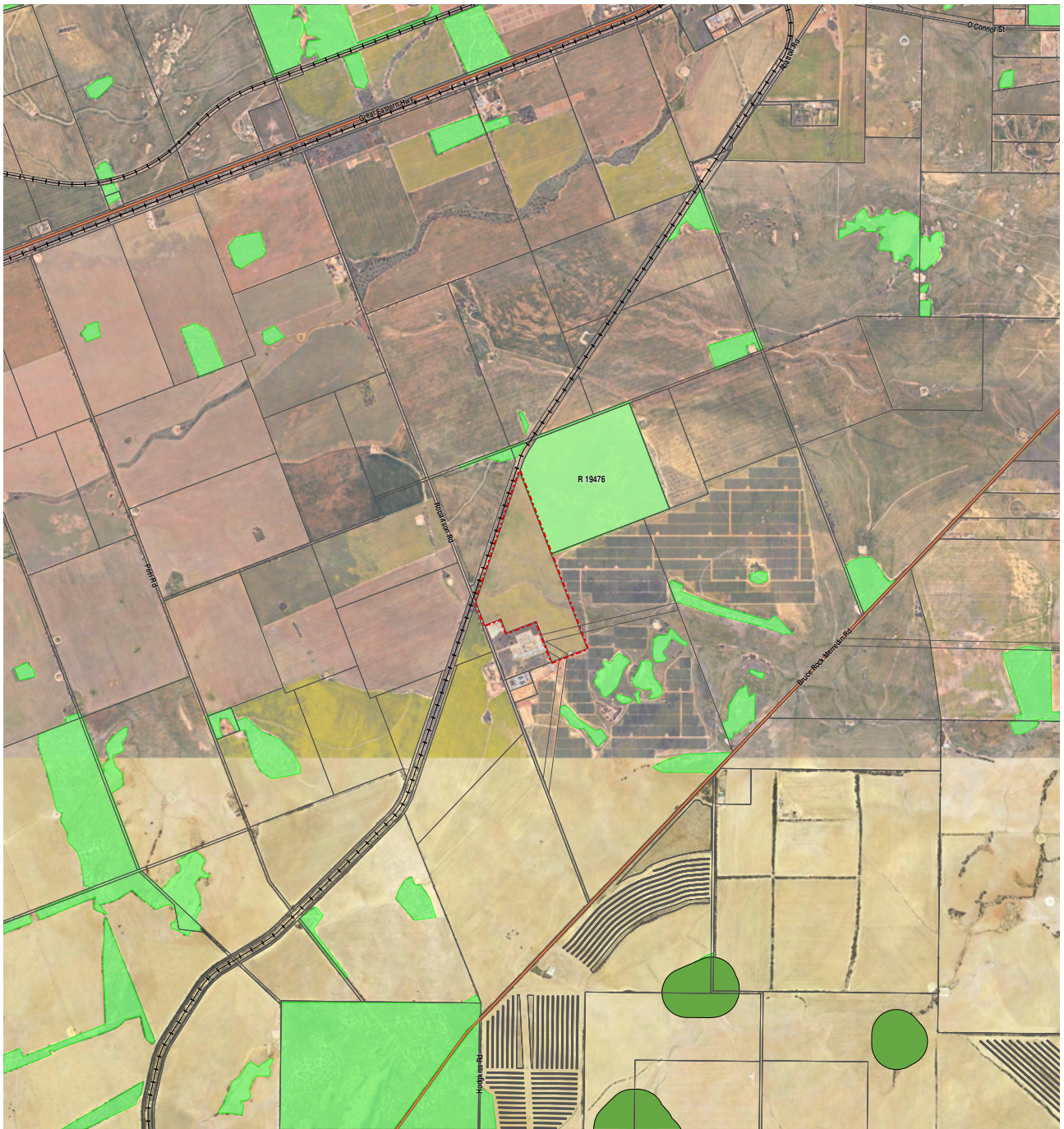


Figure 6b: Land Capability - Cropping



- Lot Boundary
- State Road
- Rail Line
- Cadastre
- Reserves
- Native Vegetation Extent
- TEC
- Threatened

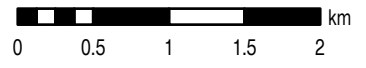
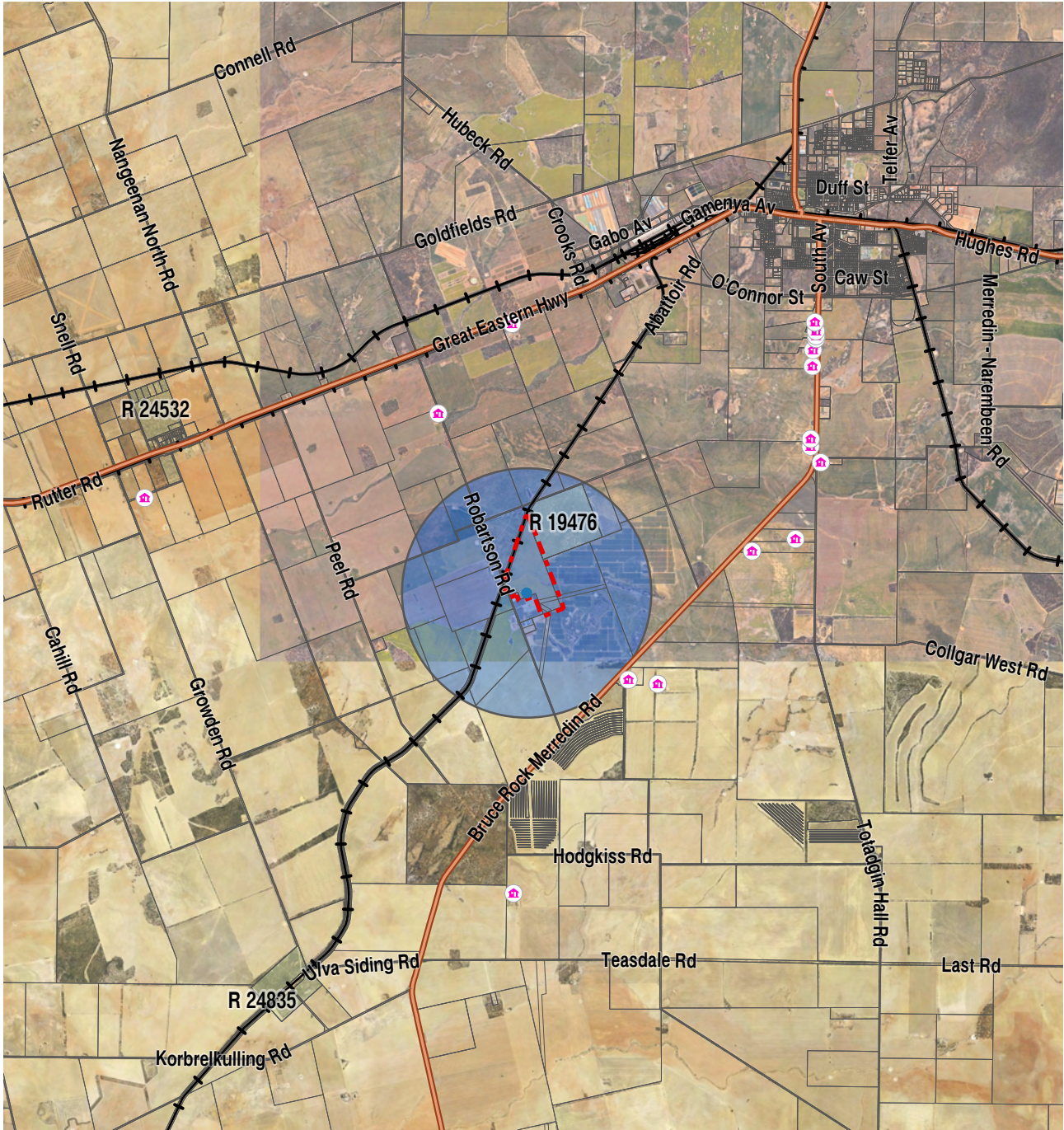


Figure 7: Remnant Vegetation & TECs



- Lot Boundary
- Reserves
- State Road
- 🏠 Houses (Merredin BESS)
- Rail Line
- 2km Buffer
- Cadastre

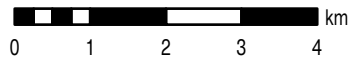


Figure 8: Nearby Houses

6.0 Visual assessment

6.1 VISUAL ASSESSMENT CONTEXT

The Merredin townsite is in the eastern Wheatbelt region of WA. This area is in an agricultural area of predominant cropping lands with the landscape having been heavily cleared of native vegetation for this purpose. The landscape is now rolling with a visually strong horizontal scale for many of the significant views. These views are often dominated by skylines (views of big skies) and flat or slightly sloping fields. Trees are sparse with many relegated to fringing fields, roads or rail corridors. Patches of remnant vegetation provide skyline borders. The adjoining solar farm is visible but is viewed as part of a modified rural landscape.

It is not a natural landscape, but in its modified form represents the impact of clearing on a broad scale to create large broad acre farms.

In such a landscape it is not always possible to visually hide or blend a large infrastructure element, however the large scale of fields and views provides a dilution of impacting elements, and in this context the locality of the BESS is adjacent to a dam, energy infrastructure (Western Power's Merredin Terminal) and energy generation facilities (Merredin Energy peaking plant and Merredin Solar Farm). These elements are prescribing a 'new' landscape for the locality, one of green or renewable energy generation, distribution and storage.

The facility is contained in modular format as an array of containers. There are spaced for the purposes of cooling and related operational considerations however this will also result in the facility being seen as one element of modules sitting on the land. In a similar way, a number of farming properties in this locality have stored objects in open viewed areas, many of these are assessed to be visible from the public domain.

The terrain is rolling and there are few trees. The actual site of the BESS is however screened on the west and south by the dam and the switchyard which separate it from Robartson Road which is the closest public road. The Perth - Adelaide Railway runs to the northwest but is almost 0.5 km away.

There are already a number of visual elements such as the dam, the solar farm and the switchyard which occupy views across the land and so the BESS might be considered just another, the next instalment to the transformed landscape.

6.2 TECHNIQUE

The viewing points to be identified as the basis for determining visual aesthetic impact are part of the scene analysis technique. This technique has 5 steps:

- This describes the aesthetic qualities and overall scenery of the place;
- Identifies points where views would be taken to hold representative public values for the landscape aesthetics;
- Describes scenes from each Viewing Point in terms of the pre and post development scenery, values and sensitivity.
- The change between pre and post development represents the impact which is described in terms of low, medium or high acceptability of impact.
- Analysis of the impact leads to the consideration of management or mitigation as the opportunity or capability of the surroundings to be modified, or the design to be revised to reduce impact.

Five viewing points are identified as the basis for undertaking the Visual Assessment Landscape Impact study, given the nature of the project and the

- Context of the location
- Adjacent structures and features
- Limited public access in surrounding areas
- Altered landscape scenery in existence.

6.3 ASSESSMENT OF THE PROJECT AND THE SETTING

A simple assessment can be completed as follows.

CONTEXT OF THE LOCATION

The site and surroundings are extensively cleared cropping land. It is therefore already heavily modified and has several instances of structures and industrial scale installation.

ADJACENT STRUCTURES AND FEATURES

The site is located adjacent to a farm dam, and a switching and transformer yard. These structures already introduce a discordant change to what was a flat agricultural field landscape character. The large solar farm to the east introduces a monumental scale to the area which is not a dominant visual element because PV are horizontal and follow the terrain. The BESS is therefore a small additional shift in scenery change.

LIMITED PUBLIC ACCESS TO VICINITY

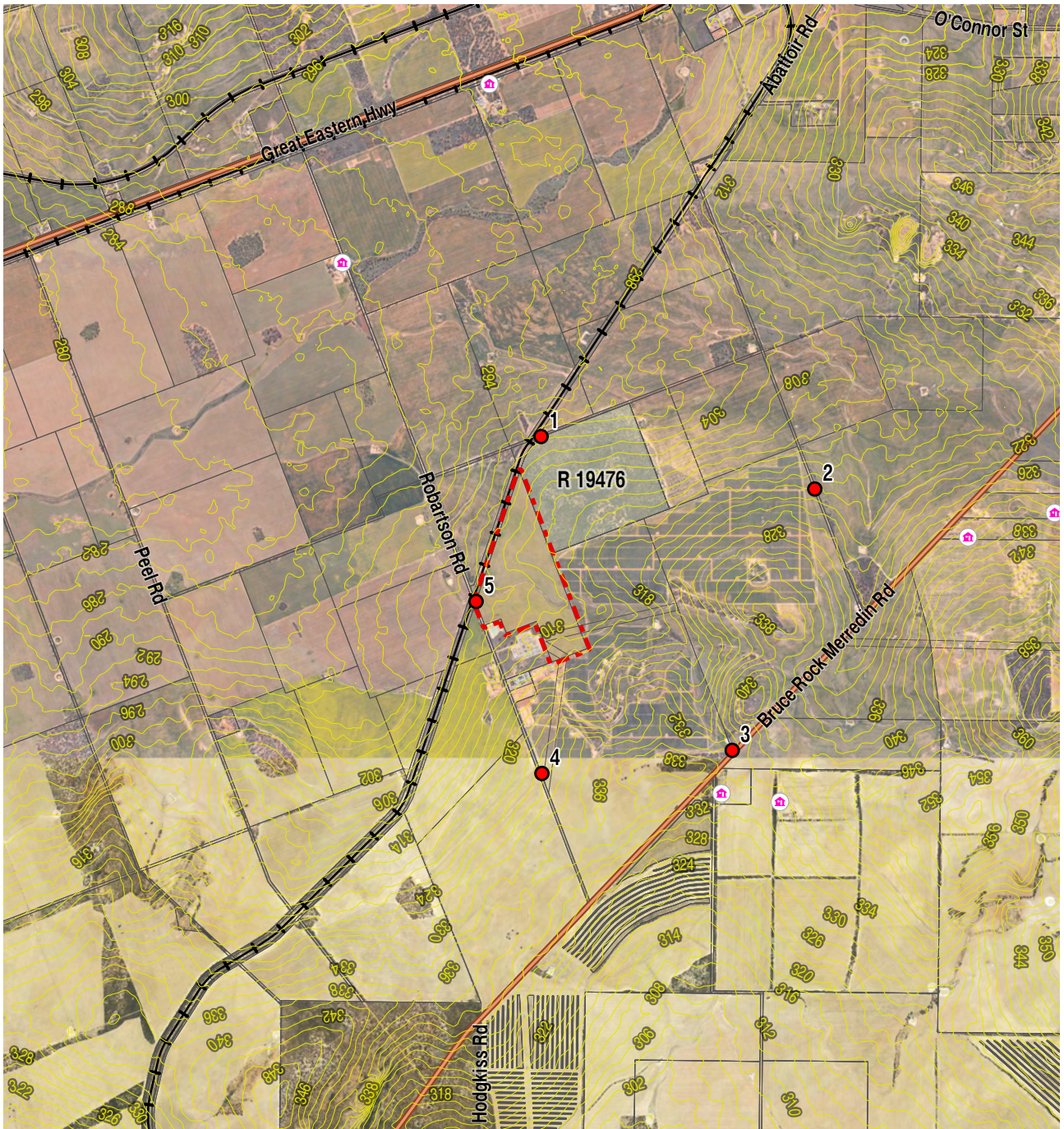
The site is separated from the public viewing domain which is largely limited to sections along Robartson Road.

ALTERED LANDSCAPE

The development of renewable energy facilities into the Merredin landscape heralds a scenery transformation of which there may be emerging a new synonymy of this technology, its aesthetic and the place values of Merredin.

VIEWPOINT DESCRIPTIONS

- VP 1 – from rail reserve noting this is no longer used.
- VP 2 – from an internal farm track east of the BESS.
- VP 3 – from road to the south of the farm.
- VP 4 – Robartson Rd south of the BESS.
- VP 5 - Robartson Rd near rail crossing



- Viewing Point
- +— Rail Line
- Contours (2m)
- Cadastre
- - - Lot Boundary
- Reserves
- State Road
- 🏠 Houses (Merredin BESS)

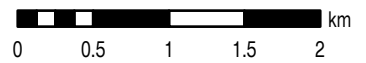


Figure 9: Viewpoints

6.4 ASSESSMENT OUTCOMES

The following table summarises the assessment of visual impact from each of the designated viewing points.

VP	Visual Experience	Public Sensitivity	Acceptability L, M, H	Management/Mitigation
1	Possible glimpses of BESS however intervening scrub and physical distance may relegate it to a minor component of any scene from VP 1	Low	Not visible and therefore unlikely to cause perceptible visual impact issues. H	None needed.
2	Direct views of BESS unlikely	Low	Not visible and unlikely to cause perceptible visual impact issues. H	None needed.
3	Direct views of BESS structure across fields.	Low	Not visible and unlikely to cause perceptible visual impact issues. H	None needed.
4	Scenery may have long middle ground visibility of BESS as a glimpse and minor part of the current collective view of dam and switching yard.	Medium	Possibly visible but unlikely to cause unacceptable visual impact issues. H	Improve the density of planting along the Robartson Road reserve.
5	Closest to BESS, will be seen in front of the switchyard and may be seen as part of an ensemble of the current collective view of dam and switching yard.	Medium	Solar panels visible in middle ground beyond highway screening vegetation. M-H	Screen planting along the reserve of Robartson Road will reduce visibility.



VP4 looking towards the site



VP5 looking towards the site



Proposed BESS site (approx, orange) within existing visual context

6.5 CONCLUSION

The Visual Impact Landscape Assessment concludes that the BESS, whilst visible as part of the scenery of the place would not be visible from all but VP 4 & 5. That view is described as part of the overall assembly of switchyard and dam and transmission lines for VP 5 and as a glimpse from VP 4.

In the circumstances therefore the visual impact of the battery is very limited overall and likely to be viewed as an additional industrial element of a recently changed rural scene, and a small part of that scene at that.

Should the VILA be considered to merit management the surroundings of the BESS and/or its design could be reviewed to explore the following mitigations:

- Install the BESS on a low pad
- Select lighter and muted colours such as sage green, sky blue, white or beige
- Limited screen planting to the road reserve especially where VP is closest (VP 5) to the BESS although it is noted views are not strongly influenced.

7.0 Assessment and management

7.1 RISK AND MITIGATION FRAMEWORK

A risk assessment has been undertaken to review the environmental and amenity risks potentially associated with the project. The assessment is based on the criteria in the Department of Water and Environmental Regulation's Guidance Statement: Risk Assessments (2017). The risk rating will be determined in accordance with the risk matrix below.

Likelihood	Consequence				
	Slight	Minor	Moderate	Major	Severe
Almost certain	Medium	High	High	Extreme	Extreme
Likely	Medium	Medium	High	High	Extreme
Possible	Low	Medium	Medium	High	Extreme
Unlikely	Low	Medium	Medium	Medium	High
Rare	Low	Low	Medium	Medium	High

Source: DWER, 2017

The following criteria has been used to determine the likelihood and consequence of the risk occurring.

Likelihood		Consequence	
Almost certain	The risk event is expected to occur in most circumstances.	Severe	On-site impacts: catastrophic (significant impact to the environment) Off-site impacts local scale: high level or above Off-site impacts wider scale: mid-level or above Mid to long term or permanent impact to an area of high conservation value or special significance^ Significant long-term damage/loss of ecosystem function and loss of individuals of species locally
Likely	The risk event will probably occur in most circumstances.	Major	On-site impacts: high level (moderate impact to the environment) Off-site impacts local scale: mid-level Off-site impacts wider scale: low level Short term impact to an area of high conservation value or special significance^ Moderate damage to ecosystem function and major loss of individuals of species locally.
Possible	The risk event could occur at some time.	Moderate	On-site impacts: mid-level (Minor adverse effect to the environment) Off-site impacts local scale: low level Off-site impacts wider scale: minimal Moderate loss of individuals of species locally.
Unlikely	The risk event will probably not occur in most circumstances.	Minor	Off-site impacts local scale: minimal Off-site impacts wider scale: not detectable Minor number of individuals of species may be affected locally.
Rare	The risk event may only occur in exceptional circumstances.	Slight	On-site impact: minimal (No discernible adverse impact).

Source: DWER, 2017

^ Determination of areas of high conservation value or special significance should be informed by the Guidance Statement: Environmental Siting.

*'onsite' means within the Lot boundary.

In considering the response or mitigation and residual risk associated with the project, the EPA mitigation hierarchy for environmental factors has been followed. This proposes the following:

AVOID

Avoid the adverse environmental impact altogether. This may include reducing the footprint or changing the location of the footprint to avoid areas with high environmental values.

MINIMISE

Limit the degree or magnitude of the adverse impact. This may include reducing the footprint or carefully selecting technologies, processes (such as re-use of waste products) and management measures (such as bunding or dust and noise control measures) to reduce the impact.

REHABILITATE

Repair, rehabilitate or restore the impacted site as soon as possible. Adequate rehabilitation information is integral to the mitigation hierarchy to ensure early identification of knowledge gaps and risk as well as development of criteria and research to meet objectives.

OFFSET

Undertake a measure or measures to provide a compensatory environmental benefit or reduction in environmental impact to counterbalance significant adverse environmental impacts from implementation of a proposal. The measure(s) are taken after all reasonable mitigation measures have been applied and a significant environmental risk or impact remains. Offsets are not appropriate for all proposals and will be determined on a proposal-by-proposal basis.

7.2 POTENTIAL IMPACTS, MITIGATION AND RESIDUAL RISK

The outcomes of an Impact Assessment are described below, including a response or mitigation to potential impacts. Based on the outcomes of the assessment, it is considered that there are no significant residual impacts as a result of the proposed development.

Feature	Potential Impact	Response or mitigation	Residual Risk
Landscape and Visual Impact	Potential for impact on visual amenity for nearby sensitive land uses (houses) and the surrounding rural area.	<p>The Visual Analysis of Landscape impact concludes that the BESS, whilst visible as part of the scenery of the place would not be visible from all but VP 4 & 5. That view is described as part of the overall assembly of switchyard and dam and transmission lines for VP 5 and as a glimpse from VP 4.</p> <p>In the circumstances therefore the visual impact of the battery is very limited overall and likely to be viewed as an additional industrial element of a recently changed rural scene, and a small part of that scene at that.</p> <p>The panels themselves are a minor element, visible but aligned to the terrain from most vantages.</p>	Low
Soil management	Potential for erosion and degradation of soil qualities.	<p>Construction of the BESS will result in some soil disturbance through movement of machinery across the land and during construction work. There may be some potential for soil erosion as the soil becomes disturbed, however the soil types on the property have low potential for wind and water erosion and instability which will help manage this issue.</p> <p>Soil disturbance and erosion can be managed during the construction phase using water to suppress the creation of dust (and wind erosion). Following construction, the likelihood of soil disturbance will be low.</p>	Low
Vegetation and habitat	<p>Removal and degradation of native vegetation and habitat for native fauna.</p> <p>Potential impact to threatened species including Threatened and Priority Flora, Threatened and Priority Fauna and Threatened Ecological Communities.</p>	<p>The site is already cleared of native vegetation.</p> <p>Therefore, it is concluded that the proposed development will not have a significant impact to native flora and fauna.</p>	Low

Feature	Potential Impact	Response or mitigation	Residual Risk
Water resources and drainage	Modification and degradation of surface and groundwater features and modification to drainage flow (either increase or decrease in flow) which can have impacts downstream.	<p>There are no concerns about flooding on the property (flood risk and waterlogging risk is low) and natural flow of water will continue in the existing arrangements, utilising the existing drainage lines across the site.</p> <p>Runoff from the site will be retained and prevented from leaving the site. This is particularly important in regard to the adjoining farm dam, and it will be a priority to protect this water source. A detailed technical drainage plan will be prepared to complement a construction management plan.</p>	Low
Separation distances	Small separation distances can affect nearby sensitive land uses (such as residential dwellings).	<p>The closest sensitive receptor is located over 2km to the site.</p> <p>As can be seen below, the potential impacts associated with noise, dust, visual amenity, odour and reflection will be minimal and, as such, impacts to nearby sensitive land uses will be low.</p>	Low
Dust	The potential for the creation of dust from the operation which may reach adjoining properties and sensitive land uses.	<p>There is the potential for some dust during the construction phase of the project, however given the surrounding agricultural/industrial land uses this is likely to have minimal impact. The closest sensitive receptor is located over 2km to the site.</p> <p>Once the site is fully constructed there will be no dust generated.</p> <p>Dust mitigation will be addressed in the Construction Management Plan.</p>	Low
Noise	The potential for the creation of noise from the operation which may reach adjoining properties and sensitive land uses.	<p>Some noise will be emitted during construction, largely from machinery and vehicles.</p> <p>The battery system will generate some noise once operational – largely from the BESS containers and cooling systems. The final technical details of the battery system are to be refined, and these will come with relevant noise data sheets. Once received, a detailed Noise Assessment can be undertaken. It should be noted however that the nearest sensitive receptor is over 2km away from the site, and the adjoining electrical generation infrastructure can also emit noise. On an initial assessment it is not considered noise will be a significant issue.</p>	Medium
Odour	The potential for the creation of odours which may reach adjoining properties.	<p>There will be no odour emitted from the site during either the construction or operational phase.</p> <p>Onsite temporary toilet facilities will be maintained as per the standard required. They will only be located on site for a short time (during the construction phase) and will be removed afterwards.</p>	Low

Feature	Potential Impact	Response or mitigation	Residual Risk
Fire	Impacts from bushfire or equipment fires	<p>Although the subject site is not designated as bushfire prone under SPP3.7 (as shown in the mapping) the proposal has been assessed under Clause 6.6 of SPP3.7 as the proposal is seen as high risk and triggers the need for assessment and reporting in relation to a Bushfire Management Plan (BMP) and an additional Risk Assessment. This has been completed and is attached at Appendix C.</p> <p>Post the construction phase the proposed development will be largely autonomous with people only located on the site during periods of scheduled/unscheduled maintenance and therefore the proposed development will not be habitable and not occupied for substantial extended periods of time.</p>	Low
Traffic and access	Impact on local roads from construction traffic	<p>The construction period is between 12-18 months, and a maximum of only 5-6 heavy vehicle movements per day will be accessing the site at peak construction periods.</p> <p>Once the technical details of the proposal are finalised, a construction manager and contractor appointed, a detailed Traffic Impact Assessment will be prepared for the Shire to review and approve.</p>	Low
Heritage	Impact on Aboriginal or European Heritage sites.	<p>There are no known or registered heritage sites on or nearby to the site. Furthermore, the site has been heavily disturbed by cropping activities over a long period of time, reducing the likelihood of any Aboriginal archaeological being present. Nevertheless, should any archaeological sites be uncovered during the construction phase, work will need to stop and appropriate action undertaken in accordance with relevant legislation.</p>	Low
Waste Management	Waste from the site not being appropriate controlled or disposed of.	<p>The construction contractor will identify and store any recyclable materials in appropriate on-site bins for removal from the site as required. Other waste management measures will be outlined in the Construction Management Plan. There will be minimal waste generation once the site is operational. This will be managed by the site operator as required.</p>	Low

8.0 Conclusion

This application and supporting planning report presents the merits and suitability of the Nomad Energy BESS facility for the location on a portion of Lot 5 Robartson Road, Merredin and located adjacent to the existing Merredin Terminal station.

This report and its appendices comprehensively demonstrate that the proposed development is consistent with the applicable planning framework and the proposed facility can be approved and is consistent with the objectives of the General Farming zone within the Shire.

The proposal warrants approval for the following reasons:

- The subject site is cleared and relatively flat with no remnant vegetation contained on the subject site.
- The proposed development will also not have any adverse impacts on surrounding land or vegetation once the facility is operational.
- The proposed development will only occur on a small portion of agricultural land leaving the majority of the lot to continue to be used for rural purposes.
- As outlined under the visual assessment and due to the location of the neighbouring existing Merredin Terminal, Merredin Energy peaking plant and Merredin Solar Farm, the proposed development will not have a detrimental affect on the visual landscape within the immediate surrounds.

appendix a

**Application Form &
Certificate of Title**



DAP FORM 1

Notice of Development Application to be Determined by a Development Assessment Panel

Planning and Development Act 2005

Planning and Development (Development Assessment Panel) Regulations 2011 – regulations 7, 10 and 21

Application Details

To	<i>Name of local government and/or Western Australian Planning Commission</i> Shire of Merredin	
Planning Scheme(s)	<i>Name of planning scheme(s) that applies to the prescribed land</i> Local Planning Scheme No.6	
Land	<i>Lot number, street name, town/suburb</i> Lot 5 Robartson Road, Merredin	
Certificate of Title (provide copy)	<i>Volume Number</i> 1695	<i>Folio</i> 263
	<i>Location Number</i>	<i>Plan / Diagram Number</i>
Details of development application made to responsible authority	<i>Summary of Proposal</i> Battery Energy Storage System (BESS)	
Development Use	<i>Residential / Commercial / Industrial / Rural / Mixed Use / Other</i> Other	
Estimated cost of development (GST Exc)	\$ 220 million	

Part A – Acknowledgement by Applicant and Landowner

Mandatory Application	<input checked="" type="checkbox"/> I give notice that I understand that this is a mandatory Development Assessment Panel application (<i>regulation 5</i>)
Optional Application	<input type="checkbox"/> I give notice that I have elected to have the development application that accompanies this form determined by a Development Assessment Panel (<i>regulation 6</i>)
Delegated Application	<input type="checkbox"/> I give notice that I understand that this is an application of a class delegated to a Development Assessment Panel for determination (<i>regulation 9</i>)

Applicant Details (to be completed and signed by applicant)

- By completing this notice, I declare that all the information provided in this application is true and correct.
- I understand that the information provided in this notice, and attached forming part of the development application will be made available to the public on the Development Assessment Panel and local government websites.

Name	Rebekah Hampson	
Company	Land Insights	
Address	<i>Street Number/PO Box number, street name, suburb, state, postcode</i> Level 6/191 St Georges Tce, Perth WA 6000	
Contact Details	<i>Email</i> rebekah@landinsights.com.au	<i>Phone</i> 1300 725 522
Signature	<i>Rebekah Hampson</i>	<i>Date</i> 21/12/23



Landowner Details (to be completed and signed if landowner is different from applicant)					
<ul style="list-style-type: none"> By completing this notice, consent is provided to submitting this application. If there are more than two landowners, please provide all relevant information on a separate page. Signatures must be provided by all registered proprietors or by an authorised agent as shown on the Certificate of Title. Alternatively, a letter of consent, which is signed by all registered proprietors or by the authorised agent, can be provided. Companies, apart from sole directors, are required to provide signatories for two directors, a director and the company seal or a director and a company secretary. 					
Company (if applicable)	N/A				
Contact Details	<table border="0"> <tr> <td><i>Email</i></td> <td>rossrobertson@bigpond.com</td> <td><i>Phone</i></td> <td>0428 411 516</td> </tr> </table>	<i>Email</i>	rossrobertson@bigpond.com	<i>Phone</i>	0428 411 516
<i>Email</i>	rossrobertson@bigpond.com	<i>Phone</i>	0428 411 516		
Address	<i>Street Number/PO Box number, street name, suburb, state, postcode</i> PO Box 109, Merredin, Western Australia				
Name/s	Ross Milton Robertson				
Title/s	<table border="0"> <tr> <td><i>Landowner/Sole Director/Director (as shown on certificate)</i></td> <td><i>Additional Landowner/ Director/Secretary (if applicable)</i></td> </tr> </table>	<i>Landowner/Sole Director/Director (as shown on certificate)</i>	<i>Additional Landowner/ Director/Secretary (if applicable)</i>		
<i>Landowner/Sole Director/Director (as shown on certificate)</i>	<i>Additional Landowner/ Director/Secretary (if applicable)</i>				
Signature/s					
Date	13 th December 2023				

Part B – Acknowledgement by Local Government

Responsible Authority	<input type="checkbox"/> Local Government (LG) <input type="checkbox"/> * Western Australian Planning Commission (WAPC) <input type="checkbox"/> * Dual – Local Government and Western Australian Planning Commission <input type="checkbox"/> Department of Finance – Public Primary School Applications		
* WAPC/DUAL reporting details	<i>If WAPC or DUAL is selected, please provide details of relevant provision (or within covering letter)</i>		
Fees for applications (DAP Regulations - Schedule 1)	\$ Amount that has been paid by the applicant \$ Amount to be paid by local government (<i>delegated applications only - regulation 22</i>)		
Statutory Timeframe (regulation 12)	<input type="checkbox"/> 60 days (advertising not required) <input type="checkbox"/> 90 days (advertising required or other scheme provision)		
LG Reference Number			
Name of planning officer (Report Writer)			
Position/Title			
Contact Details	<table border="0"> <tr> <td><i>Email</i></td> <td><i>Phone</i></td> </tr> </table>	<i>Email</i>	<i>Phone</i>
<i>Email</i>	<i>Phone</i>		
Planning Officer's Signature	<i>Date</i>		

Please refer to the [Guidance Note: Lodging a DAP Application](#) for further information.

WESTERN



AUSTRALIA

TITLE NUMBER

Volume Folio

1695 263

RECORD OF CERTIFICATE OF TITLE
UNDER THE TRANSFER OF LAND ACT 1893

The person described in the first schedule is the registered proprietor of an estate in fee simple in the land described below subject to the reservations, conditions and depth limit contained in the original grant (if a grant issued) and to the limitations, interests, encumbrances and notifications shown in the second schedule.

BGRoberts
REGISTRAR OF TITLES



LAND DESCRIPTION:

LOT 5 ON DIAGRAM 67824

REGISTERED PROPRIETOR:
(FIRST SCHEDULE)

ROSS MILTON ROBERTSON OF POST OFFICE BOX 109, MERREDIN

(A D029376) REGISTERED 24/5/1985

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1. C734820 EASEMENT TO THE STATE ENERGY COMMISSION OF WESTERN AUSTRALIA. SEE SKETCH ON VOL 1695 FOL 263. REGISTERED 22/3/1984.
2. P650004 CAVEAT BY NOMAD ENERGY PTY LTD LODGED 4/8/2023.

Warning: A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required.
Lot as described in the land description may be a lot or location.

-----END OF CERTIFICATE OF TITLE-----

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: 1695-263 (5/D67824)
PREVIOUS TITLE: 1629-196
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AUTHORITY: SHIRE OF MERREDIN

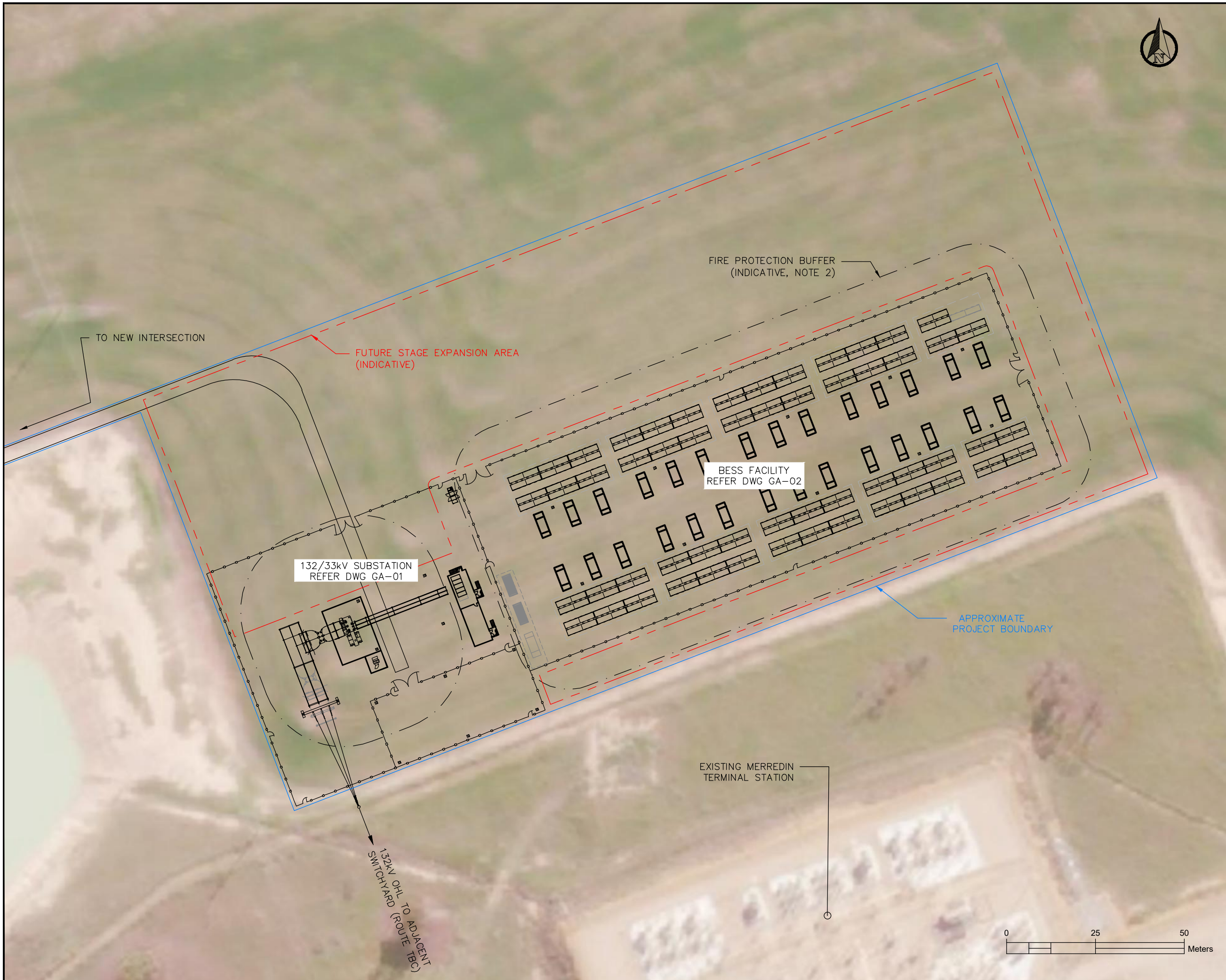
appendix b

Site Plans & Elevations



NOTES:

1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
2. PLANT & EQUIPMENT DIMENSIONS INDICATIVE, PROJECT AREA MAY EXPAND. SETBACKS AND OVERALL FOOTPRINT TO BE ADJUSTED WITHIN PROJECT BOUNDARY FOLLOWING DETAILED FIRE STUDY.
3. CAR PARKING, EARTHWORKS, INTERSECTION UPGRADES, DRAINAGE, EARTHING, PITS, CULVERTS, SPARE PARTS STORAGE AND TEMP CONSTRUCTION COMPOUND NOT SHOWN.
4. FIRE WATER ASSUMED CO-LOCATED WITH EXISTING SOLAR FARM.



A	FIRST DRAWN (CONCEPT)	ABC	19.10.23
REV:	DESCRIPTION:	BY:	DATE:

STATUS: **NOT FOR CONSTRUCTION**

BRIGHTLY ENERGY	NOMAD ENERGY
-----------------	--------------

PROJECT: MERREDIN BESS

TITLE: OVERALL PROJECT GENERAL ARRANGEMENT PLAN

SCALE AT A3: 1:1000	DRAWN: ABC	CHECKED: -	APPROVED: -
PROJECT NO: NMD01	DRAWING NO: MBB-GA-00	REVISION: A	



NOTES:

1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
2. PLANT & EQUIPMENT DIMENSIONS INDICATIVE, PROJECT AREA MAY EXPAND. 'ASSET PROTECTION ZONE' SETBACKS TO BE ADJUSTED FOLLOWING DETAILED FIRE STUDY.
3. ASSUMES BESS TRANSFORMERS SELF-BUNDED.
4. LIGHT/LIGHTNING POLE PLACEMENT AND QUANTITY SUBJECT TO CHANGE AFTER LIGHTING/LIGHTNING STUDY.
5. CAR PARKING, EARTHWORKS, TRACKS/INTERSECTION UPGRADES, DRAINAGE, EARTHING, PITS, CULVERTS, SPARE PARTS STORAGE AND TEMP CONSTRUCTION COMPOUND NOT SHOWN.

132/33kV SUBSTATION
REFER DWG GA-01

BESS APZ
(INDICATIVE, NOTE 2)

TESLA
MEGAPACKS

SPARE

TRANSFORMERS

INDICATIVE. SPARE PARTS

58.2 (APPROX. UP TO 125)

APPROXIMATE
PROJECT BOUNDARY

160 (APPROX. UP TO 270)

A	FIRST DRAWN (CONCEPT)	ABC	19.10.23
REV:	DESCRIPTION:	BY:	DATE:

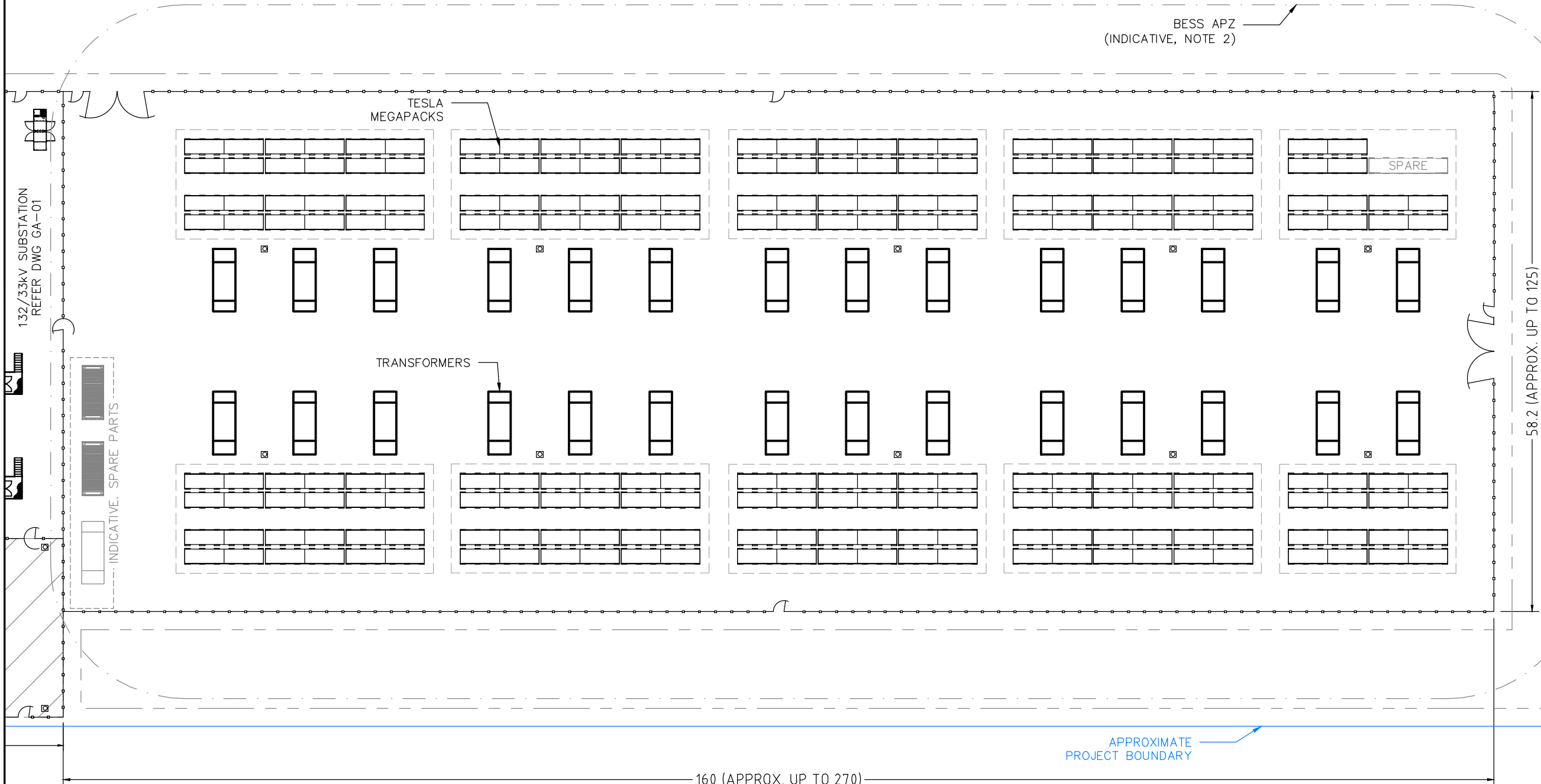
STATUS: **NOT FOR CONSTRUCTION**

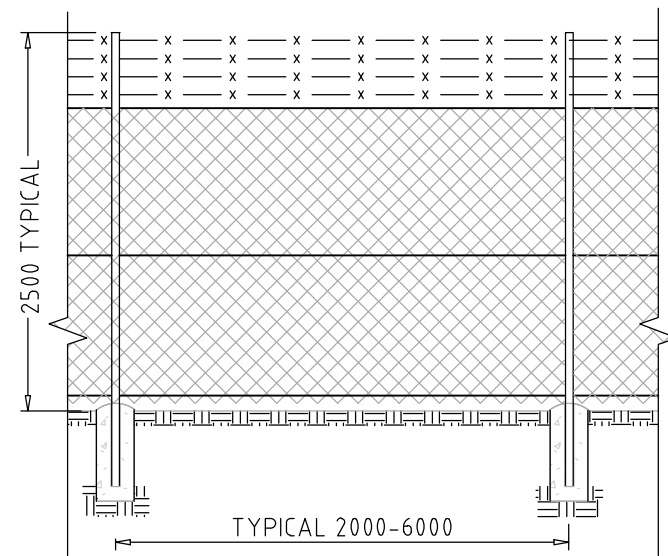
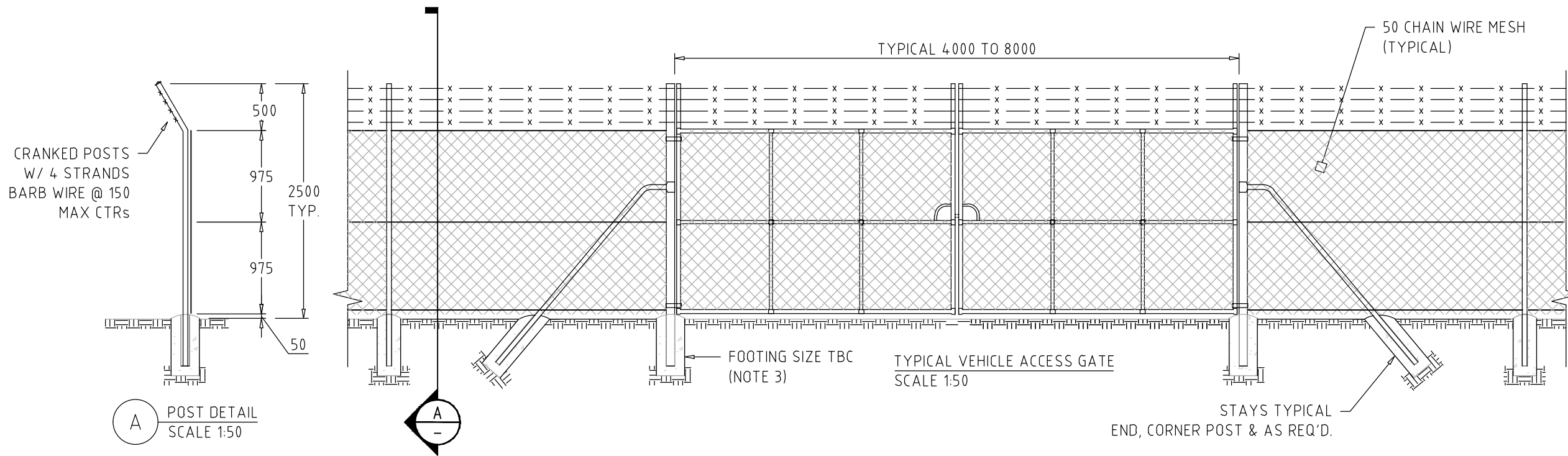
	NOMAD ENERGY
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PROJECT: MERREDIN BESS

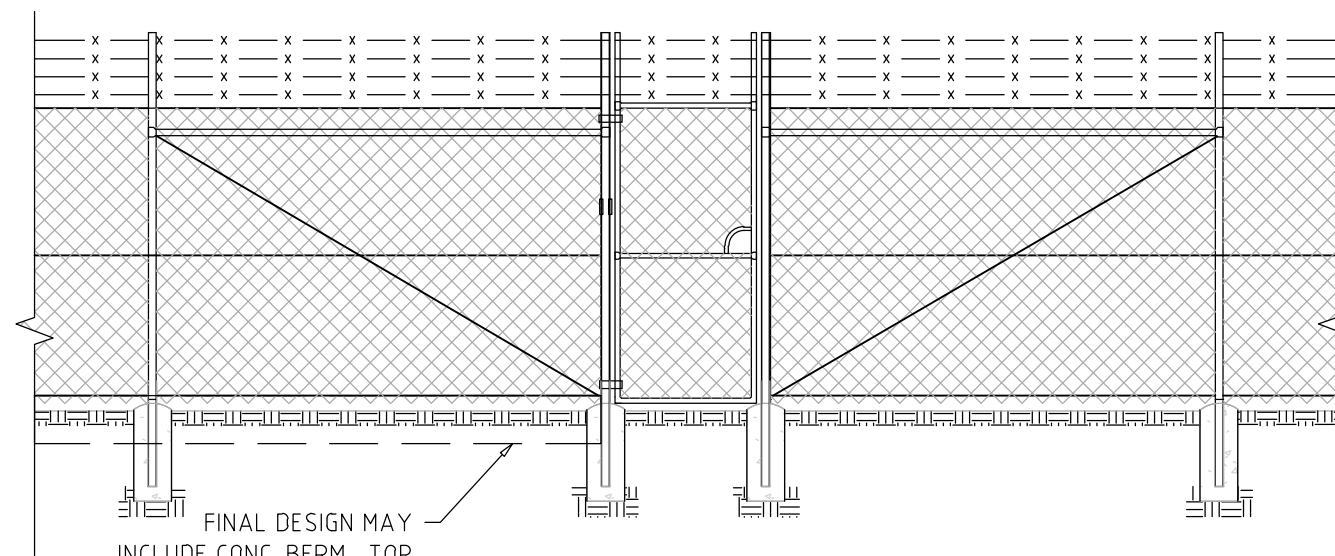
TITLE: BATTERY ENERGY STORAGE SYSTEM
GENERAL ARRANGEMENT PLAN

SCALE AT A3: 1:500	DRAWN: ABC	CHECKED: -	APPROVED: -
PROJECT NO: NMD01	DRAWING NO: MBB-GA-02	REVISION: A	





NON-SUPPORTED INTERMEDIATE PANEL
SCALE 1:50




TYPICAL PEDESTRIAN ACCESS GATE
SCALE 1:50

NOTES:

1. CONCEPT ONLY, FOR DEVELOPMENT APPROVAL PURPOSES, NOT FOR CONSTRUCTION.
2. SUBJECT TO AMENDMENT DURING DETAILED DESIGN AND FOLLOWING SELECTION OF EPC CONTRACTOR.
3. FOUNDATION DESIGN TO BE COMPLETED FOLLOWING COMPLETION OF GEOTECHNICAL TESTING.
4. ALL FENCING COMPLIANT WITH AS2067.
5. CONCRETE KERBING MAY BE USED, NOT SHOWN.
6. ALL GATES TO SWING INWARDS.

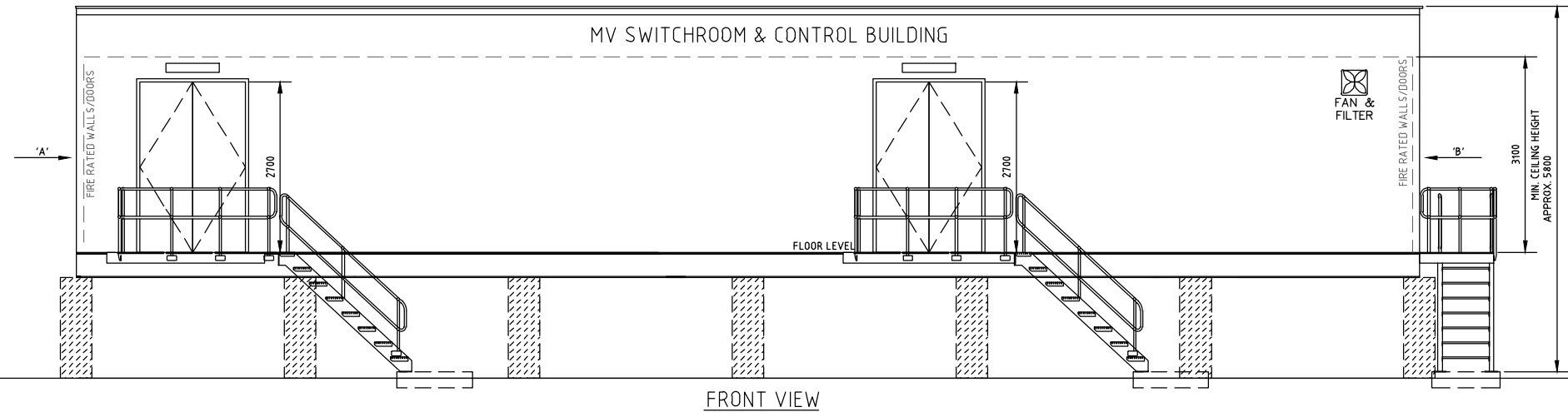
A	FIRST DRAWN	ABC	11.10.2023
REV:	DESCRIPTION:	BY:	DATE:
STATUS: NOT FOR CONSTRUCTION			

NOMAD ENERGY

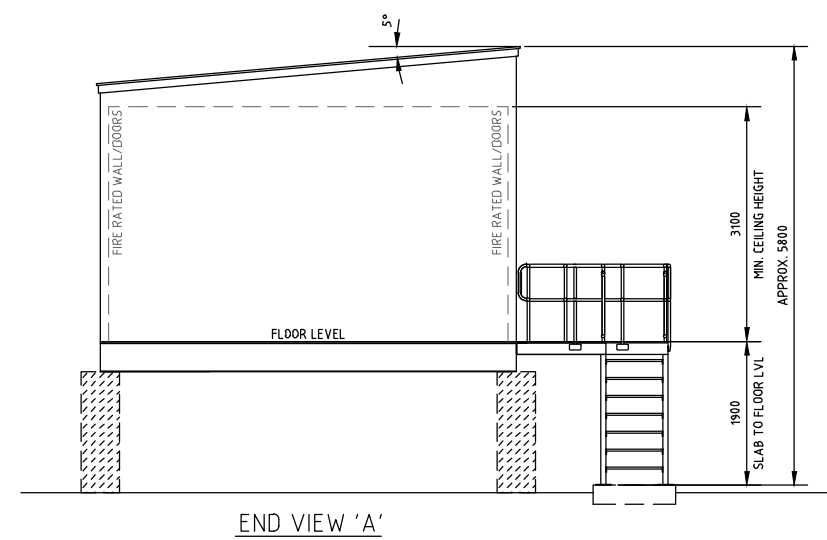


L2, 384 Hunter St, Newcastle, NSW
www.brighty.energy

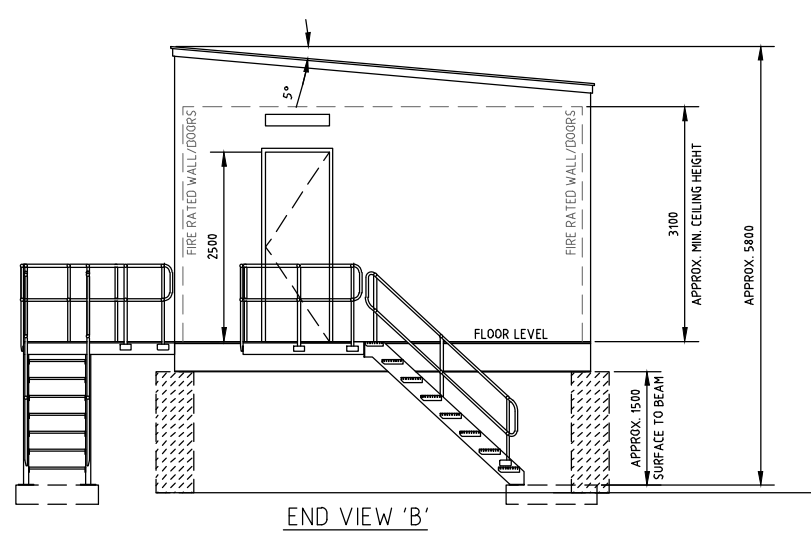
PROJECT: MERREDIN BESS			
TITLE: EXTERIOR FENCE AND GATES TYPICAL ELEVATION			
SCALE AT A3: 1:50	DATE: 11.10.2023	DRAWN: ABC	CHECKED: -
PROJECT NO: NMD01	DRAWING NO: MBB-EL-231011	REVISION: A	



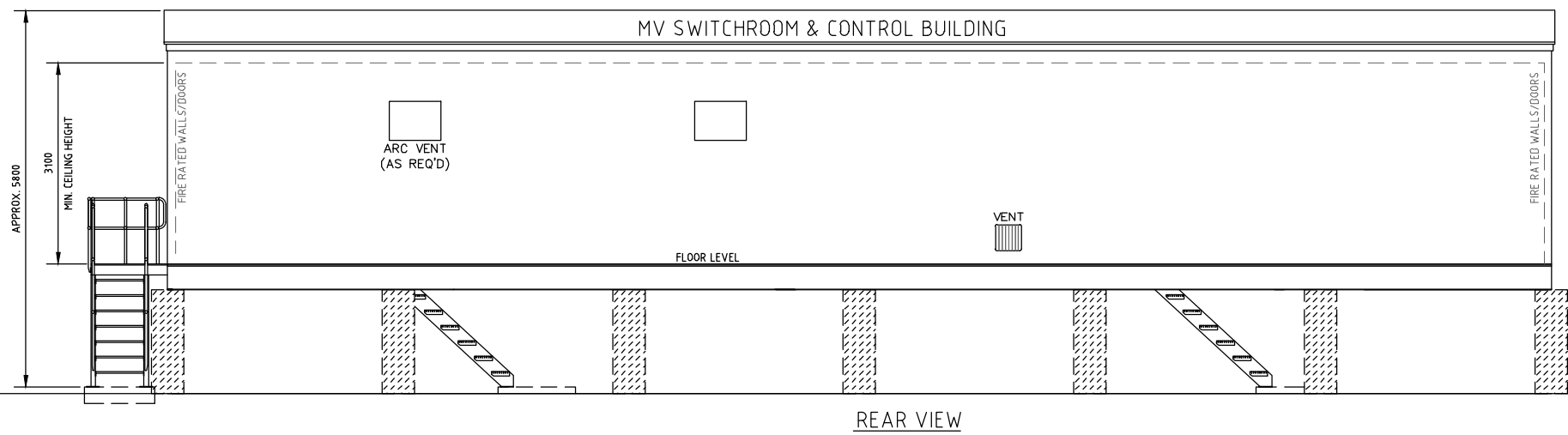
FRONT VIEW



END VIEW 'A'



END VIEW 'B'



REAR VIEW

- NOTES:
1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
 2. HVAC AND FIRE PROTECTION PLANT NOT SHOWN.
 3. MAY BE ON ELEVATED FOUNDATIONS AND/OR DELIVERED IN MULTIPLE SECTIONS.
 4. EXACT DIMENSIONS DEPEND ON FINAL EQUIPMENT SELECTION TO BE COMPLETED DURING DETAILED DESIGN.
 5. TO BE LOCATED WITHIN SWITCHYARD AND SUBSTATION FACILITIES.
 6. FOUNDATIONS INDICATIVE ONLY, TO BE SPECIFIED AFTER SITE INVESTIGATIONS DURING DETAILED DESIGN.
 7. QUANTITY OF DOORS AND ARRANGEMENT SUBJECT TO CHANGE.

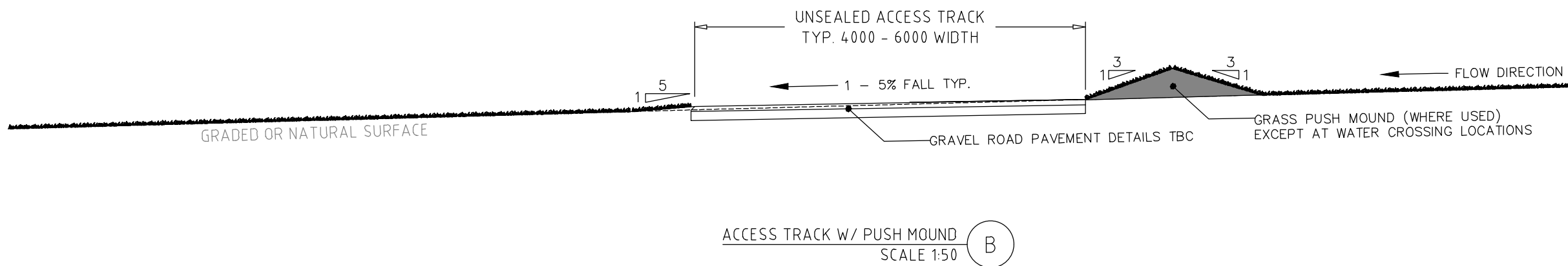
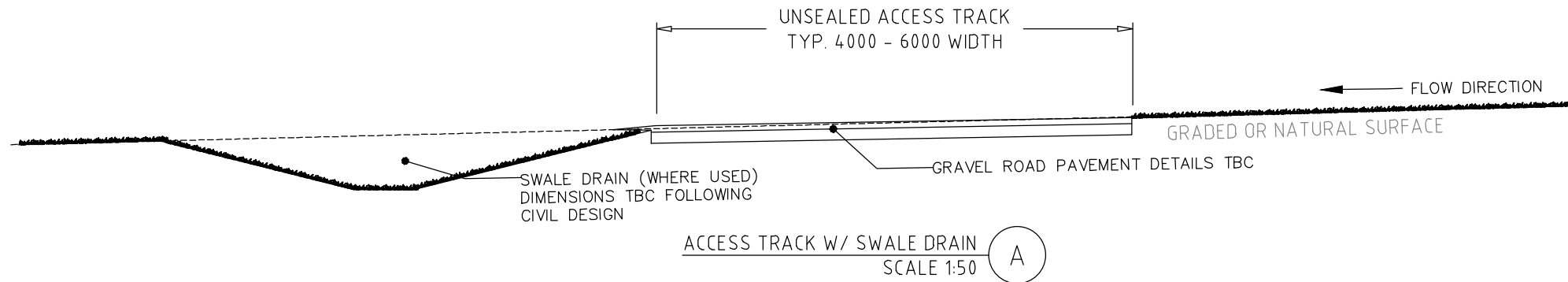
A	FIRST DRAWN	ABC	17.10.2023
REV:	DESCRIPTION:	BY:	DATE:
STATUS: NOT FOR CONSTRUCTION			

NOMAD ENERGY



WWW.BRIGHTY.ENERGY

PROJECT: MERREDIN BESS			
TITLE: SWITCHROOM/CONTROL BUILDING CONCEPT ELEVATION			
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:100	17.10.2023	ABC	-
PROJECT NO:	DRAWING NO:	REVISION:	
NMD01	MBB-EL-231012	A	



NOTES:

1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
2. PAVEMENT THICKNESS, COMPACTION AND COMPOSITION TO GEOTECHNICAL ENGINEER SPECIFICATION.
3. DRAINAGE DETAILS TO VARY SUBJECT TO CIVIL AND ENVIRONMENTAL DESIGN.
4. SEDIMENT AND EROSION CONTROLS NOT SHOWN.
5. TURNING RADII, WIDTH LOADING CAPACITY TO COMPLY WITH TRANSPORT AND CRANE REQUIREMENTS FOR SWITCHROOM, TRANSFORMER AND TESLA MEGAPACK DELIVERIES. REFER TO TESLA DOCUMENTATION.
6. DIRECTION AND EXTENT OF CROSSFALL TO SUIT NATURAL SURFACE.
7. SWALE DISCHARGE DETAILS NOT SHOWN.

A	FIRST DRAWN (CONCEPT)	ABC	19.10.23
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REV:	DESCRIPTION:	BY:	DATE:
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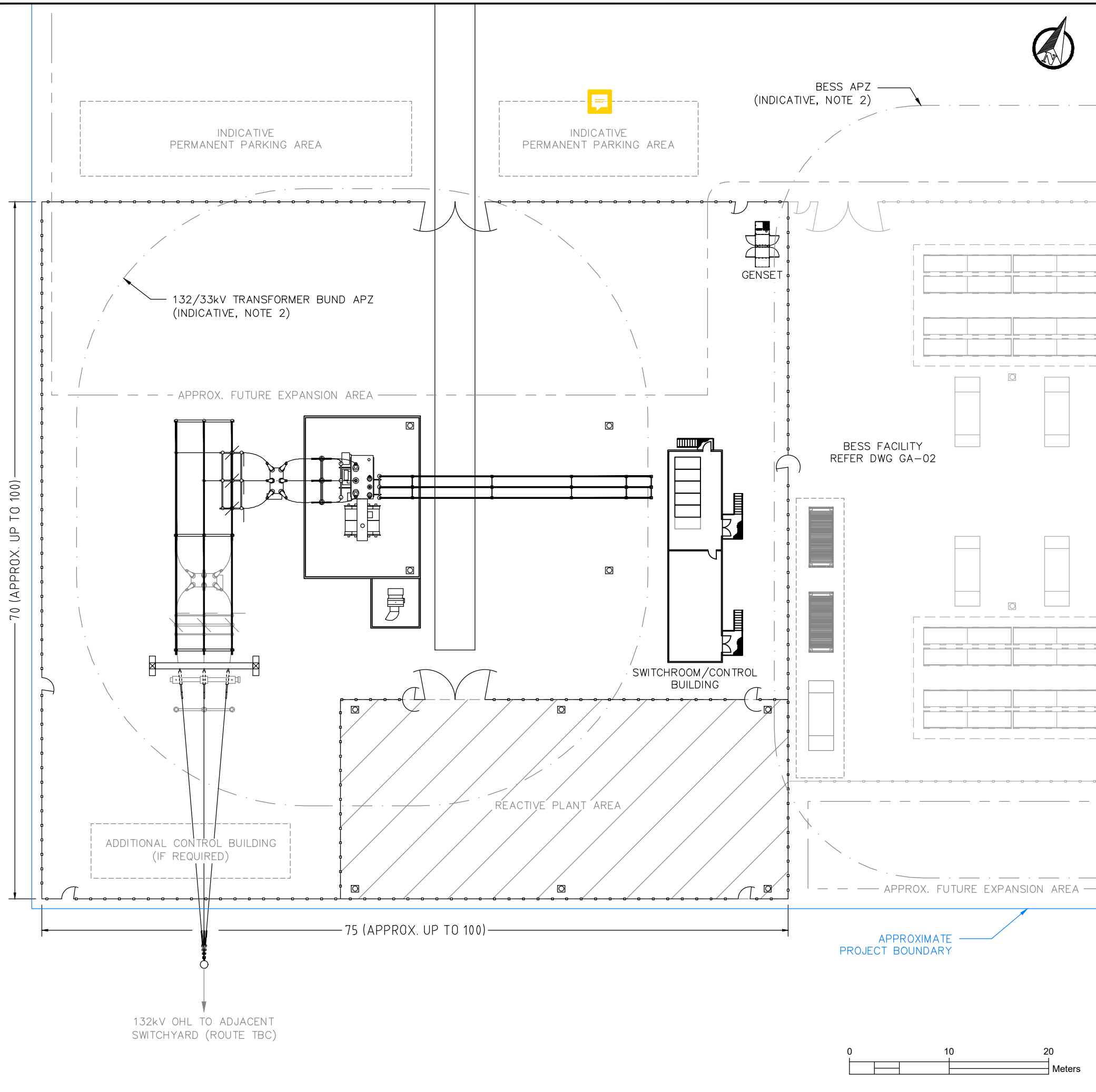
STATUS: **NOT FOR CONSTRUCTION**

	NOMAD ENERGY

PROJECT: MERREDIN BESS

TITLE: TYPICAL ACCESS TRACK CROSS SECTION DETAILS

SCALE AT A3: AS MARKED	DRAWN: ABC	CHECKED: -	APPROVED: -
PROJECT NO: NMD01	DRAWING NO: MBB-EL-231019	REVISION: A	

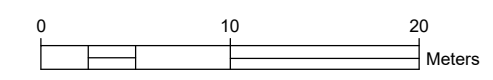


- NOTES:**
1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
 2. PLANT & EQUIPMENT DIMENSIONS INDICATIVE, PROJECT AREA MAY EXPAND. SETBACKS TO BE ADJUSTED FOLLOWING DETAILED FIRE STUDY.
 3. TRANSFORMER BUND AND OIL/WATER SEPARATION REQUIREMENTS SUBJECT TO CHANGE AFTER AS1940/AS2067 STUDY. BELOW GROUND OR ABOVE GROUND OIL/WATER SEPARATION UNIT MAY BE USED.
 4. BUS HEIGHT DESIGN TO ALLOW SECTION SAFETY CLEARANCE FOR INSTALLATION OF FUTURE EQUIPMENT SHOWN IN GREY.
 5. LIGHT/LIGHTNING POLE PLACEMENT AND QUANTITY SUBJECT TO CHANGE AFTER LIGHTING/LIGHTNING STUDY.
 6. AERIAL 33kV BUS FROM TX TO SWITCHROOM MAY BE REPLACED WITH CABLES.
 7. SEPARATE WESTERN POWER PROTECTION/COMMS BUILDING OR O&M BUILDING IF REQUIRED. OTHERWISE COMBINED WITH MV SWITCHROOM/CONTROL BUILDING.
 8. CAR PARKING, EARTHWORKS, INTERSECTION UPGRADES, DRAINAGE, EARTHING, PITS, CULVERTS, SPARE PARTS STORAGE AND TEMP CONSTRUCTION COMPOUND NOT SHOWN.

A	FIRST DRAWN (CONCEPT)	ABC	19.10.23
REV:	DESCRIPTION:	BY:	DATE:
STATUS: NOT FOR CONSTRUCTION			

BRIGHTLY ENERGY	NOMAD ENERGY
-----------------	--------------

PROJECT:	MERREDIN BESS		
TITLE:	132/33kV SUBSTATION GENERAL ARRANGEMENT PLAN		
SCALE AT A3:	DRAWN:	CHECKED:	APPROVED:
1:400	ABC	-	-
PROJECT NO:	DRAWING NO:	REVISION:	
NMD01	MBB-GA-01	A	



appendix c

Bushfire Management Plan

Bushfire Management Plan Coversheet

This Coversheet and accompanying Bushfire Management Plan has been prepared and issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme.

Bushfire Management Plan and Site Details

Site Address / Plan Reference: Lot 5 Robartson Road			
Suburb: Merredin	State: WA	P/code: 6415	
Local government area: Shire of Merredin			
Description of the planning proposal: Development Application			
BMP Plan / Reference Number: 169042	Version: v1.0	Date of Issue: 15/12/2023	
Client / Business Name: Land Insights			

Reason for referral to DFES	Yes	No
Has the BAL been calculated by a method other than method 1 as outlined in AS3959 (tick no if AS3959 method 1 has been used to calculate the BAL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any of the bushfire protection criteria elements been addressed through the use of a performance principle (tick no if only acceptable solutions have been used to address all of the BPC elements)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the proposal any of the following special development types (see SPP 3.7 for definitions)?		
Unavoidable development (in BAL-40 or BAL-FZ)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Strategic planning proposal (including rezoning applications)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Minor development (in BAL-40 or BAL-FZ)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
High risk land-use	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vulnerable land-use	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If the development is a special development type as listed above, explain why the proposal is considered to be one of the above listed classifications (E.g. considered vulnerable land-use as the development is for accommodation of the elderly, etc.)?

The land is considered High-Risk as it will use and store combustible materials and/or flammable hazardous materials onsite that may be exposed and vulnerable to ignition from the direct attack mechanisms of bushfire.

Note: The decision maker (e.g. local government or the WAPC) should only refer the proposal to DFES for comment if one (or more) of the above answers are ticked "Yes".

BPAD Accredited Practitioner Details and Declaration

Name Kathy Nastov	Accreditation Level Level 3	Accreditation No. BPAD 27794	Accreditation Expiry 01/08/2024
Company Bushfire Prone Planning		Contact No. 6477 1144	

I declare that the information provided within this bushfire management plan is to the best of my knowledge true and correct

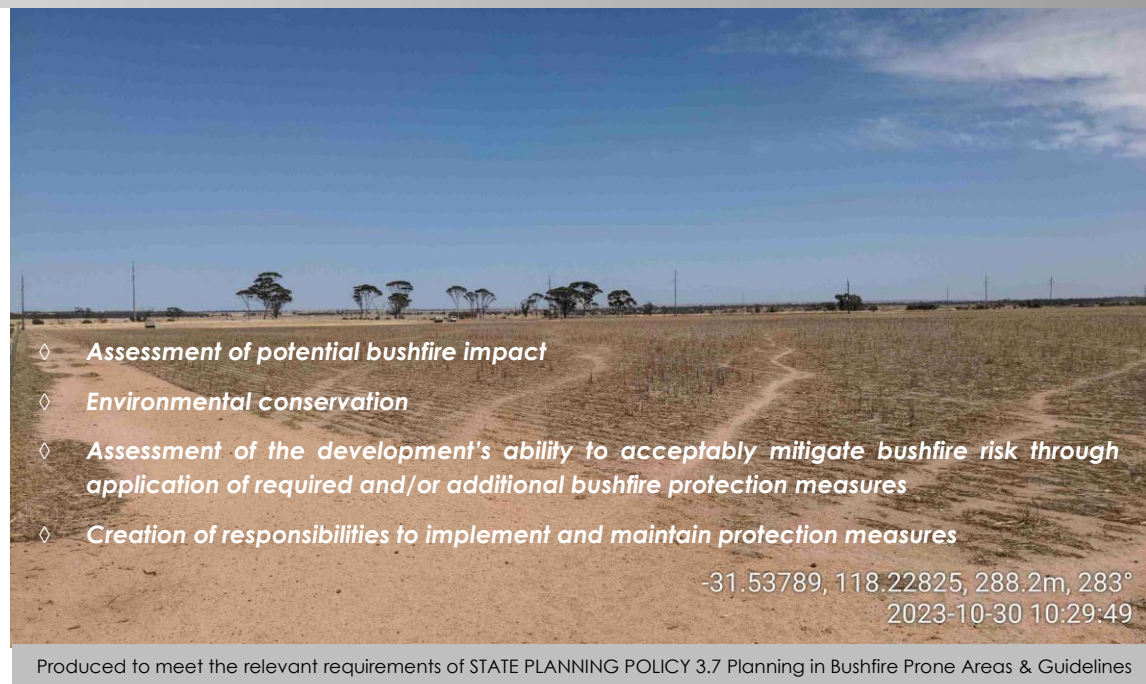
Signature of Practitioner

Date 15/12/2023



Merredin Battery Project

Bushfire Management Plan (BMP)



- ◇ *Assessment of potential bushfire impact*
- ◇ *Environmental conservation*
- ◇ *Assessment of the development's ability to acceptably mitigate bushfire risk through application of required and/or additional bushfire protection measures*
- ◇ *Creation of responsibilities to implement and maintain protection measures*

-31.53789, 118.22825, 288.2m, 283°
2023-10-30 10:29:49

Produced to meet the relevant requirements of STATE PLANNING POLICY 3.7 Planning in Bushfire Prone Areas & Guidelines

Lot 5 Robartson Road, Merredin

Shire of Merredin

Development Application - High Risk Land
Use

14 December 2023

Job Reference No: 169042

BPP GROUP PTY LTD T/A BUSHFIRE PRONE PLANNING

ACN: 39 166 551 784 | ABN: 39 166 551 784

**SUITE 11, 36 JOHNSON STREET
GUILDFORD WA 6055****PO BOX 388
GUILDFORD WA 6935****08 6477 1144 | admin@bushfireprone.com.au****DOCUMENT CONTROL**

PREPARATION					
Author:	Elissa Edward		<i>E Edward</i>		
Reviewed:	Kathy Nastov (BPAD Level 3 No. 27794)		<i>K. Nastov</i>		
VERSION HISTORY					
Version	Status/Details			Date	
1.0	Original			14 December 2023	
-	-				
BMP (Master) Template v9.16					
DISTRIBUTION					
Destination		Version	No. Copies	Hard Copy	Electronic Copy
Person	Email				
Rebekah Hampson	rebekah@landinsights.com.au	1.0		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		-		<input type="checkbox"/>	<input type="checkbox"/>
<p>Limitations: The protection measures that will be implemented based on information presented in this Bushfire Management Plan are minimum requirements and they do not guarantee that buildings or infrastructure will not be damaged in a bushfire, persons injured, or fatalities occur either on the subject site or off the site while evacuating.</p> <p>This is substantially due to the unpredictable nature and behaviour of fire and fire weather conditions. Additionally, the correct implementation of the required protection measures (including bushfire resistant construction) and any other required or recommended measures, will depend upon, among other things, the ongoing actions of the landowners and/or operators over which Bushfire Prone Planning has no control.</p> <p>All surveys, forecasts, projections and recommendations made in this report associated with the proposed development are made in good faith based on information available to Bushfire Prone Planning at the time. All maps included herein are indicative in nature and are not to be used for accurate calculations.</p> <p>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.</p> <p>Copyright © 2023 BPP Group Pty Ltd: All intellectual property rights, including copyright, in format and proprietary content contained in documents created by Bushfire Prone Planning, remain the property of BPP Group Pty Ltd. Any use made of such format or content without the prior written approval of Bushfire Prone Planning, will constitute an infringement on the rights of the Company which reserves all legal rights and remedies in respect of any such infringement.</p>					

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SUMMARY STATEMENTS

THIS DOCUMENT – STATEMENT OF PURPOSE

The Bushfire Management Plan (BMP)

The BMP sets out the required package of bushfire protection measures to lessen the risks associated with a bushfire event. It establishes the responsibilities to implement and maintain these measures.

The BMP also identifies the potential for any negative impact on any environmental, biodiversity and conservation values that may result from the application of bushfire protection measures or that may limit their implementation.

Risks Associated with Bushfire Events

The relevant risks are the potential for loss of life, injury, or destroyed or damaged assets which results in personal loss and economic loss. For a given site, the level of that risk to persons and assets (the exposed elements) is a function of the potential threat levels generated by the bushfire hazard, and the level of exposure and vulnerability of the at risk elements to the threats.

Bushfire Protection Measures

The required package of protection measures is established by *State Planning Policy 3.7 Planning in Bushfire Prone Areas (SPP 3.7)*, its associated *Guidelines* and any other relevant guidelines or position statements published by the Department of Planning, Lands and Heritage. These measures are limited to those considered by the WA planning authorities as necessary to be addressed for the purpose of land use planning. They do not encompass all available bushfire protection measures as many are not directly relevant to the planning approval stage. For example:

- Protection measures to reduce the vulnerability of buildings to bushfire threats is primarily dealt with at the building application stage. They are implemented through the process of applying the Building Code of Australia (Volumes 1 and 2 of the national Construction Code) in accordance with WA building legislation and the application of construction requirements based on a building's level of exposure - determined as a Bushfire Attack Level (BAL) rating); or
- Protection measures to reduce the threat levels of consequential fire (ignited by bushfire and involving combustible materials surrounding and within buildings) and measures to reduce the exposure and vulnerability of elements at risk exposed to consequential fire, are not specifically considered.

The package of required bushfire protection measures established by the Guidelines includes:

- The requirements of the bushfire protection criteria which consist of:
 - Element 1: Location (addresses threat levels).
 - Element 2: Siting and Design of Development (addresses exposure levels of buildings).
 - Element 3: Vehicular Access (addresses exposure and vulnerability levels of persons).
 - Element 4: Water (addresses vulnerability levels of buildings).
 - Element 5: Vulnerable Tourism Land Uses (addresses exposure and vulnerability as per Elements 1-4 but in use specific ways and with additional considerations of persons exposure and vulnerability).
- The requirement to develop Bushfire Emergency Plans / Information for 'vulnerable' land uses for persons to prepare, respond and recover from a bushfire event (this addresses vulnerability levels).
- The requirement to assess bushfire risk and incorporate relevant protection measures into the site emergency plans for 'high risk' land uses (this addresses threat, exposure and vulnerability levels).

Compliance of the Proposed Development or Use with SPP 3.7 Requirements

The BMP assesses the capacity of the proposed development or use to implement and maintain the required 'acceptable' solutions and any additionally recommended bushfire protection measures - or its capacity to satisfy the policy intent through the justified application of additional bushfire protection measures as supportable 'alternative' solutions.

THE PROPOSED DEVELOPMENT/USE – BUSHFIRE PLANNING COMPLIANCE SUMMARY		
Environmental Considerations		Assessment Outcome
Will land with identified environmental, biodiversity and conservation values limit the full application of the required bushfire protection measures?		No
Will land with identified environmental, biodiversity and conservation values need to be managed in the implementation and maintenance of the bushfire protection measures - but not limit their application?		No
Required Bushfire Protection Measures The Acceptable Solutions of the Bushfire Protection Criteria (Guidelines)		Assessment Outcome
Element	The Acceptable Solutions	
1: Location	A1.1 Development location	Fully Compliant
2: Siting and Design of Development	A2.1 Asset Protection Zone (APZ)	Fully Compliant
3: Vehicular Access	A3.1 Public roads	Fully Compliant
	A3.2a Multiple access routes	Fully Compliant
	A3.2b Emergency access way	N/A
	A3.3 Through-roads	N/A
	A3.4a Perimeter roads	N/A
	A3.4b Fire service access route	N/A
	A3.5 Battle-axe legs	N/A
4: Water	A3.6 Private driveways	Fully Compliant
	A4.1 Identification of future water supply	N/A
	A4.2 Provision of water for firefighting purposes	Fully Compliant
The Methodology Applied to the Development of an Alternative Solution The necessity for an alternative solution is in response to non-compliance with the applicable acceptable solutions.		Applied
Development of a Bushfire Risk Assessment and Management Report - an assessment of proposed development/use risk levels associated with a bushfire event to indicate or determine the residual risk levels that will apply to all elements exposed to a bushfire hazard.		Yes
Summary Statement: The Bushfire Risk Report has been developed concurrently with this BMP.		
Other 'Bushfire Planning' Documents to Be Produced This necessity for additional documents is determined by the proposed development/use type and the requirements established by SPP 3.7 and the associated Guidelines (as amended). They may be produced concurrently or subsequent to the BMP. Relevant actions will be identified within Section 6 'Responsibilities for Implementation of Bushfire Protection Measures.		Required

Bushfire Risk Assessment and Management Report:	Yes
<p>Summary Statement: The proposed development is considered a 'high-risk' land use as defined by SPP 3.7 and its associated Guidelines.</p> <p>This triggers the requirement, through the development of a Risk Assessment and Management Report to:</p> <ul style="list-style-type: none"> • Identify the level of exposure and vulnerability of any onsite stored materials and liquids to bushfire attack mechanisms (threats); • Identify any potential source of ignition threat the use may present to adjoining and/or adjacent bushfire prone vegetation; and • Recommend protection measures that can be incorporated into the site operations emergency plan as necessary. <p>The requirement for this report to be developed and any variation to content, can be decided by the planning approval decision maker (e.g., the local government). Otherwise, SPP 3.7 states it 'should' be produced.</p>	

1 PROPOSAL DETAILS AND THE BUSHFIRE MANAGEMENT PLAN

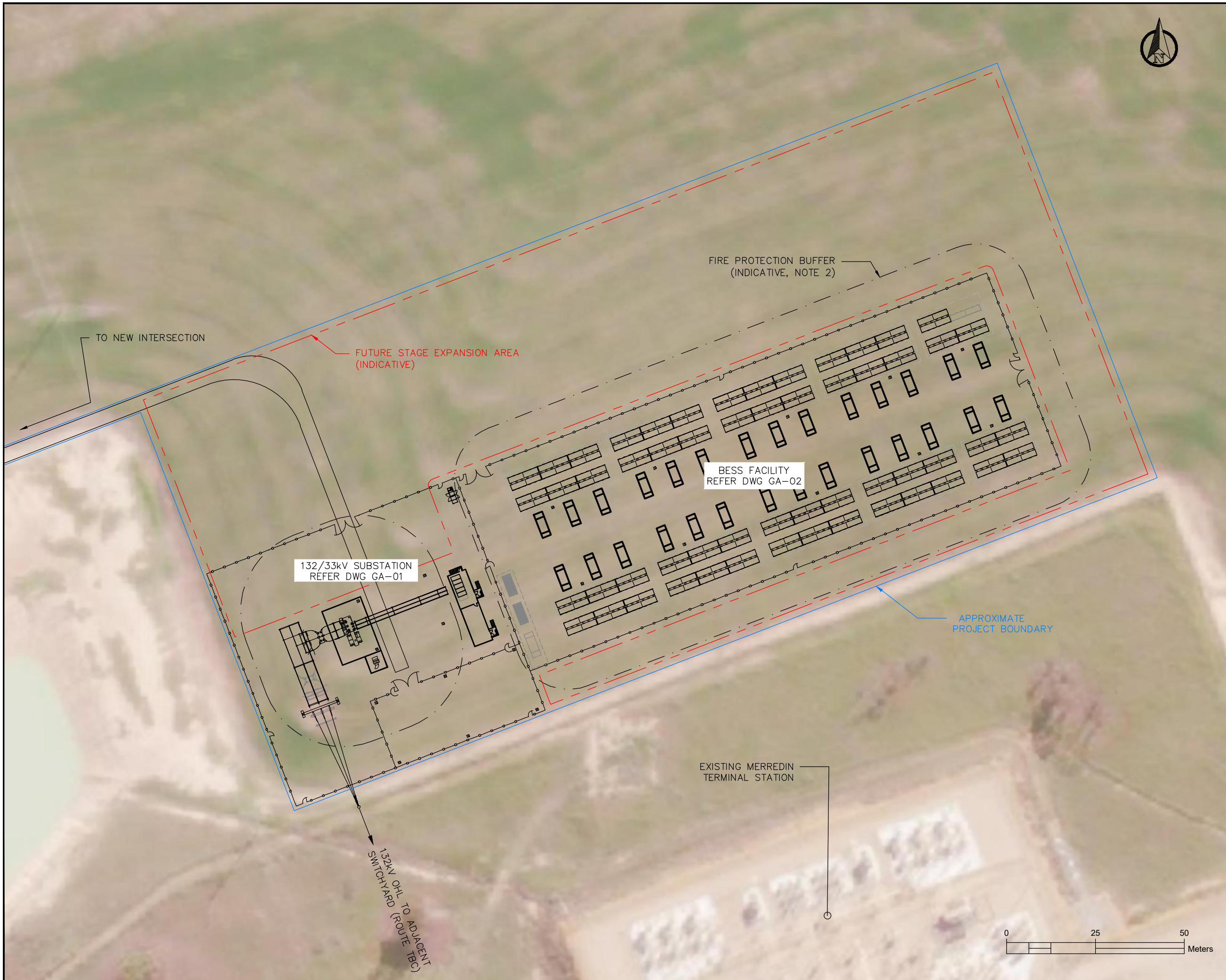
1.1 The Proposed Development/Use Details, Plans and Maps

The Proposal's Planning Stage For which certain bushfire planning documents are required to accompany the planning application.		Development Application
The Subject Land/Site		Part of Lot 5, Robartson Road, Merredin in the Shire of Merredin
Total Area of Subject Lot/Site		Lot 5: 61.5116 hectares
Primary Proposed Construction	Type(s)	Electricity generation/infrastructure
	NCC Classification	N/A
The 'Specific' Land Use Type for Bushfire Planning When applicable, this classification establishes a requirement to conduct assessments and develop documents that are additional to this Bushfire Management Plan.		High Risk Land Use
Factors Determining the 'Specific Bushfire Planning' Land Use Type		The land use will store combustible materials and/or flammable hazardous materials onsite that may be exposed and vulnerable to ignition from the direct attack mechanisms of bushfire (flame contact, radiant heat and embers). Business operations/activities may include those that are a potential source of ignition for onsite or offsite combustible/flammable materials, including bushfire prone vegetation.
Description of the Proposed Development/Use		
Development of a 'BESS' (Battery Energy Storage System) and Substation adjacent to Merredin's existing Solar Farm and Power Station. The battery development area will occupy approximately 7150m ² within Lot 5.		



NOTES:

1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
2. PLANT & EQUIPMENT DIMENSIONS INDICATIVE, PROJECT AREA MAY EXPAND. SETBACKS AND OVERALL FOOTPRINT TO BE ADJUSTED WITHIN PROJECT BOUNDARY FOLLOWING DETAILED FIRE STUDY.
3. CAR PARKING, EARTHWORKS, INTERSECTION UPGRADES, DRAINAGE, EARTHING, PITS, CULVERTS, SPARE PARTS STORAGE AND TEMP CONSTRUCTION COMPOUND NOT SHOWN.
4. FIRE WATER ASSUMED CO-LOCATED WITH EXISTING SOLAR FARM.



A	FIRST DRAWN (CONCEPT)	ABC	19.10.23
REV:	DESCRIPTION:	BY:	DATE:

STATUS: **NOT FOR CONSTRUCTION**

BRIGHTLY ENERGY	NOMAD ENERGY
-----------------	--------------

PROJECT: MERREDIN BESS

TITLE: OVERALL PROJECT GENERAL ARRANGEMENT PLAN

SCALE AT A3: 1:1000	DRAWN: ABC	CHECKED: -	APPROVED: -
PROJECT NO: NMD01	DRAWING NO: MBB-GA-00	REVISION: A	

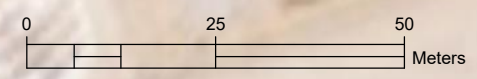


Figure 1.2

Proposed Development

Lot 5 on Plan D067824, Area : 61.5116ha
Robertson Road
MERREDIN
SHIRE OF MERREDIN

----- LEGEND -----

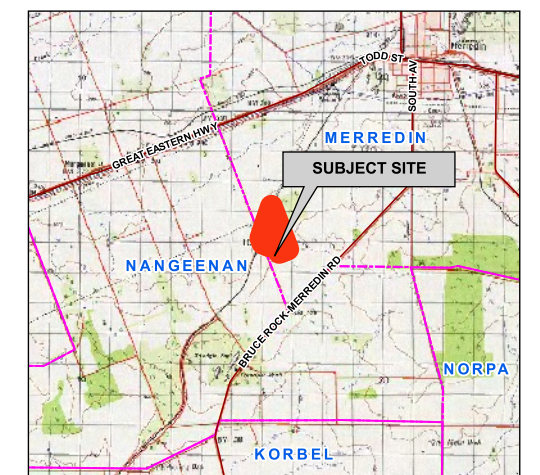
Development

- Battery Development Extent
- Subject Lot (Lot 5)
- Proposed Infrastructure



Metres

----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP



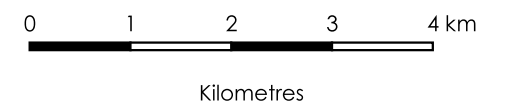
Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 01-11-2023
 SCALE (A3): 1 : 1750

Figure 1.3
Location Map

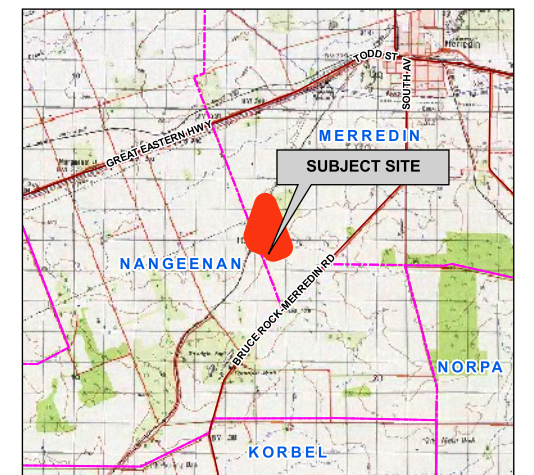
Lot 5 on Plan D067824, Area : 61.5116ha
 Robertson Road
 MERREDIN
 SHIRE OF MERREDIN

----- LEGEND -----

- Lot 5
 - Battery Development Extent
 - Reserves
- DFES Stations**
- Bush Fire Brigade
 - State Emergency Service Unit
 - Volunteer Fire & Rescue Service
- DBCAs Legislated Lands and Waters**
- Conservation Park
 - Nature Reserve



----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP



Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 25-10-2023
 SCALE (A3): 1 : 75000



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.

WHERE SPP 3.7 AND THE GUIDELINES ARE TO APPLY – DESIGNATED BUSHFIRE PRONE AREAS

All higher order strategic planning documents, strategic planning proposals, subdivisions and development applications located in designated bushfire prone areas need to address SPP 3.7 and its supporting Guidelines. This also applies where an area is not yet designated as bushfire prone but is proposed to be developed in a way that introduces a bushfire hazard.






For development applications where only part of a lot is designated as bushfire prone and the proposed development footprint is wholly outside of the designated area, the development application will not need to address SPP 3.7 or the Guidelines. (Guidelines DPLH 2021 v1.4, s1.2).

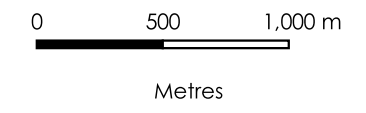
For subdivision applications, if all the proposed lots have a BAL-LOW indicated, a BMP is not required. (Guidelines DPLH 2021 v1.4, s5.3.1).

Figure 1.4
Bushfire Prone Area

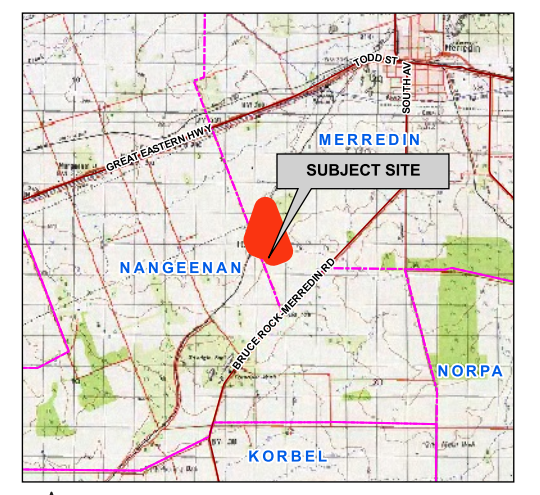
Lot 5 on Plan D067824, Area : 61.5116ha
 Robertson Road
 MERREDIN
 SHIRE OF MERREDIN

----- LEGEND -----

-  Lot 5
 -  Battery Development Extent
 -  Bushfire Prone Area (2021)
- DFES Stations**
-  State Emergency Service Unit
 -  Volunteer Fire & Rescue Service

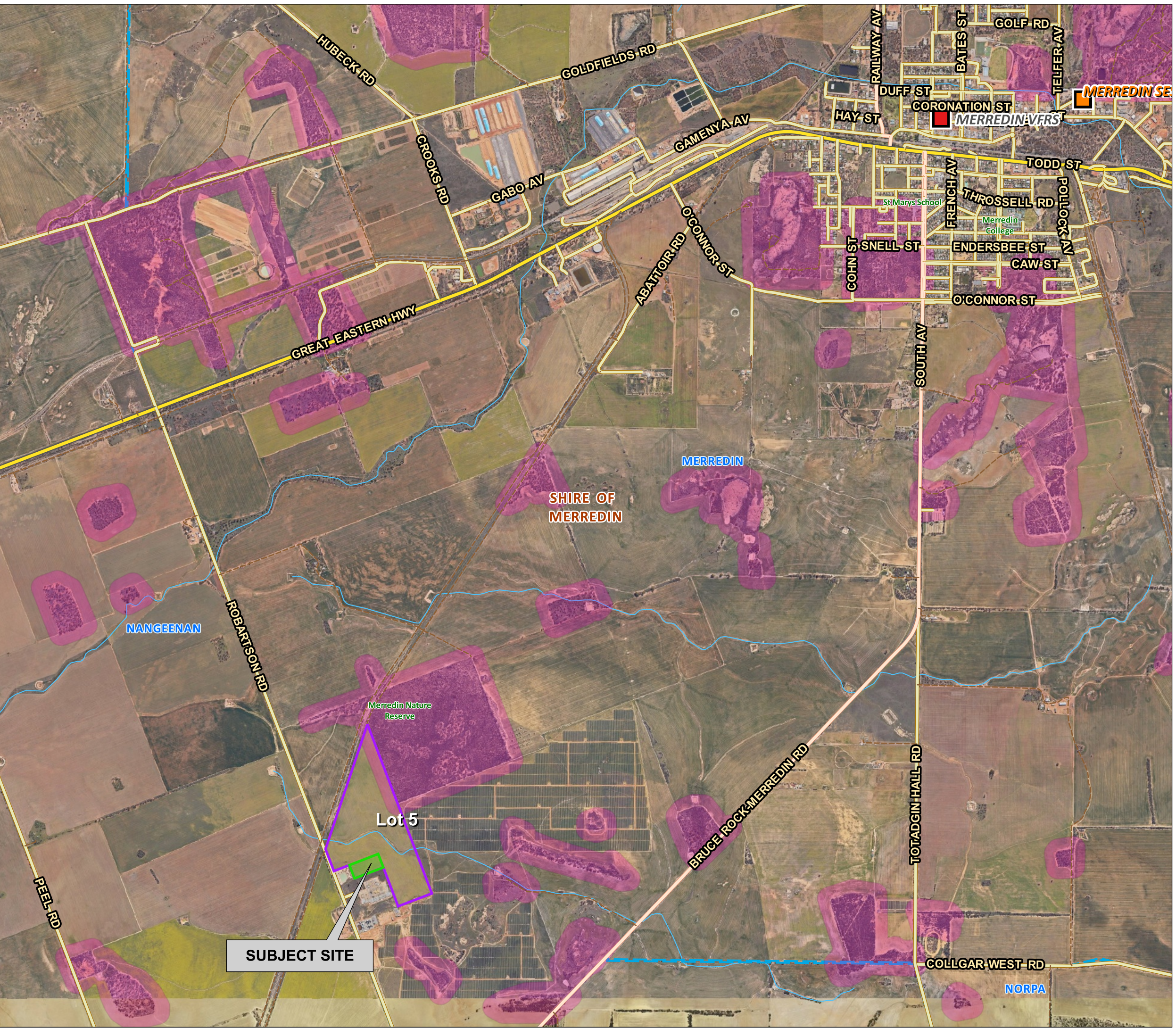


----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP

Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 25-10-2023
 SCALE (A3): 1 : 30000



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1.2 The Bushfire Management Plan (BMP)

1.2.1 Commissioning and Purpose

Landowner / proponent:	Land Insights
Bushfire Prone Planning commissioned to produce the BMP by:	Rebekah Hampson of Land Insights
Purpose of the BMP:	To assess the proposal's ability to meet all relevant requirements established by State Planning Policy 3.7: Planning in Bushfire Prone Areas (SPP 3.7), the associated 'Guidelines and any relevant Position Statements; and To satisfy the requirement for the provision of a Bushfire Management Plan to accompany the development application.
BMP to be submitted to:	WA Planning Commission (WAPC) and Shire of Merredin

1.2.1 Other Documents with Implications for Development of this BMP

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 planned proposal for the subject. They potentially have implications for the assessment of bushfire threats and the identification and implementation of the protection measures that are established by this Bushfire Management Plan.

Table 1.4: Other relevant documents that may influence threat assessments and development of protection measures.

RELEVANT DOCUMENTS					
Document	Relevant	Currently Exists	To Be Developed	Copy Provided by Proponent / Developer	Title
Structure Plan	No	No	No	N/A	-
Bushfire Management Plan	Yes	Yes	N/A	N/A	<i>This document</i>
Bushfire Emergency Plan or Information	No	No	No	N/A	-
Bushfire Risk Assessment and Management Report	Yes	Yes	N/A	N/A	<i>169042 – Merredin Battery Facility (BRR) v1.0, Bushfire Prone Planning, December 2023</i>
Implications for the BMP: Developed concurrently with this BMP.					
Environmental Asset or Vegetation Survey	No	No	No	N/A	-
Landscaping and Revegetation Plan	No	No	No	N/A	-
Land Management Agreement	No	No	No	N/A	-

2 BUSHFIRE PRONE VEGETATION – ENVIRONMENTAL & ASSESSMENT CONSIDERATIONS

2.1 Environmental Considerations – ‘Desktop’ Assessment

This ‘desktop’ assessment must not be considered as a replacement for a full Environmental Impact Assessment. It is a summary of potential environmental values at the subject site, inferred from information contained in listed datasets and/or reports, which are only current to the date of last modification.

These data sources must be considered indicative where the subject site has not previously received a site-specific environmental assessment by an appropriate professional.

Many bushfire prone areas also have high biodiversity values. Consideration of environmental priorities within the boundaries of the land being developed can avoid excessive or unnecessary modification or clearing of vegetation. Approval processes (and exemptions) apply at both Commonwealth and State levels.

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 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 Guidelines v1.4, the Bushfire and Vegetation Factsheet - WAPC, Dec 2021 and <https://www.der.wa.gov.au/our-work/clearing-permits>

2.1.1 Declared Environmentally Sensitive Areas (ESA)

IDENTIFICATION OF RELEVANT ENVIRONMENTALLY SENSITIVE AREAS							
ESA Class	Relevant to Proposal	Influence on Bushfire Threat Levels and / or Application of Bushfire Protection Measures	Relevant Dataset	Information Source(s) Applied to Identification of Relevant Vegetation			Further Action Required
				Dataset	Landowner or Developer	Environmental Asset or Vegetation Survey	
Wetlands and their 50m Buffer (Ramsar, conservation category and nationally important)	No	No	DBCA-010 and 011, 019, 040, 043, 044	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
Bush Forever	No	No	DPLH-022, SPP 2.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
Threatened and Priority Flora + 50m Continuous Buffer	Unknown	Unknown	DBCA-036	Restricted Scale of Data Available (security)	<input type="checkbox"/>	<input type="checkbox"/>	Data not available - confirm with relevant agency
Threatened Ecological Community	Unknown	Unknown	DBCA-038		<input type="checkbox"/>	<input type="checkbox"/>	
Heritage Areas National / World	No	No	Relevant register or mapping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
Environmental Protection (Western Swamp Tortoise) Policy 2002	No	No	DWER-062	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

2.1.2 Other Protected Vegetation on Public Land

IDENTIFICATION OF PROTECTED VEGETATION ON PUBLIC LAND							
Land with Environmental, Biodiversity, Conservation and Social Values	Relevant to Proposal	Influence on Bushfire Threat Levels and / or Application of Bushfire Protection Measures	Relevant Dataset	Information Source(s) Applied to Identification of Relevant Vegetation			Further Action Required
				Dataset	Landowner or Developer	Environmental Asset or Vegetation Survey	
Legislated Lands (tenure includes national park/reserve, conservation park, crown reserve and state forest)	No	No	DBCA-011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
Conservation Covenants	Unknown	Unknown	DPIRD-023	Only Available to Govt.	<input type="checkbox"/>	<input type="checkbox"/>	Data not available - confirm with relevant agency
National World Heritage Areas	No	No	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None
Designated Public Open Space	No	No	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

2.1.3 Locally Significant Conservation Areas – Local Natural Areas (LNA)

IDENTIFICATION OF LOCALLY SIGNIFICANT CONSERVATION AREAS							
Land with Environmental, Biodiversity and Conservation Values	Relevant to Proposal	Influence on Bushfire Threat Levels and / or Application of Bushfire Protection Measures	Relevant Dataset	Information Source(s) Applied to Identification of Relevant Vegetation			Further Action Required
				Dataset	Landowner or Developer	Environmental Asset or Vegetation Survey	
Native Vegetation / Remnant Vegetation	No	No	Site assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Riparian Zones / Foreshore Areas	No	No		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None
Habitat Vegetation and Wildlife Corridors	No	No		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None

2.2 Bushfire Assessment Considerations

2.2.1 Planned Onsite Vegetation Landscaping

Identification of areas of the subject site planned to be landscaped, creating the potential for increased or decreased bushfire hazard for proposed development.

PLANNED LANDSCAPING	
Relevant to Proposal:	No

2.2.2 Planned / Potential Offsite Rehabilitation or Re-Vegetation

Identification of areas of land adjacent to the subject site on which re-vegetation (as distinct from natural re-generation) will or may occur and is likely to present a greater bushfire hazard for proposed development.

POTENTIAL RE-VEGETATION PROGRAMS		
Land with Environmental, Biodiversity, Conservation and Social Values	Relevant to Proposal	Description
Riparian Zones / Foreshore Areas	No	No planned re-vegetation within or surrounding project development area.
Wetland Buffers	No	
Legislated Lands	No	
Public Open Space	No	
Road Verges	No	
Other	No	

2.2.3 Identified Requirement to Manage, Modify or Remove Onsite or Offsite Vegetation

Identification of native vegetation subject to management, modification or removal.

REQUIREMENT TO MANAGE, MODIFY OR REMOVE NATIVE VEGETATION	
Has a requirement been identified to manage, modify or remove onsite native vegetation to establish the required bushfire protection measures on the subject site?	No
Is approval, from relevant state government agencies and/or the local government, to modify or remove onsite native vegetation required? (Note: if 'Yes' evidence of its existence should be provided in this BMP).	N/A
Has a requirement been identified to manage, modify or remove offsite native vegetation to establish the required bushfire protection measures on the subject site?	No
Is written approval required, from relevant state government agencies and/or the local government, that permits the landowner, or another identified party, to modify or remove offsite bushfire prone vegetation and/or conduct other works, to establish an identified bushfire protection measure(s)? If 'Yes', appropriate evidence of the approval or how it is to be established, shall be provided in this BMP as an addendum.	N/A

<p>Is a written management agreement required that states the obligation of the landowner, or another responsible party, to manage defined areas of offsite bushfire prone vegetation, in perpetuity, to ensure the conditions of no fire fuels and/or low threat vegetation and/or vegetation managed in a minimal fuel condition, continue to be met?</p> <p>If 'Yes', appropriate evidence of the agreement or how it is to be established, shall be provided in this BMP as an addendum.</p>	N/A
---	-----

2.2.4 Variations to Assessed Areas of Classified Vegetation to be Applied

FOR THE PROPOSED DEVELOPMENT SITUATIONS TO BE ACCOUNTED FOR IN ASSESSING THE POTENTIAL BUSHFIRE IMPACT (BAL)	
Area(s) of land will be subject to future vegetation rehabilitation or re-vegetation that will require a change to a higher threat classification of vegetation on that land to. (Note: this is not regeneration to the mature natural state which is accounted for in the 'existing state' assessment in accordance with AS 3959:2018).	No
Modification of existing area(s) of classified vegetation due to the implementation of the proposed development and/or prior to the site's occupancy or use. This modification will require a change to a lower threat classification (or exclusion from classification) for that area of vegetation.	Yes
Refer to Figure 3.1.1 'Post Development Classified Vegetation' and Appendix A1.2 for justification details supporting the change. The subject vegetation is not native vegetation, it is sown pasture/Grassland.	
Complete removal of existing area(s) of classified vegetation due to the implementation of the proposed development and/or prior to the site's occupancy or use. This modification will require an exclusion from classification for that area of vegetation.	No

3 BUSHFIRE ATTACK LEVEL (BAL) ASSESSMENT

BUSHFIRE ATTACK LEVELS (BAL) - UNDERSTANDING THE RESULTS

The potential transfer (flux/flow) of radiant heat from the bushfire to a receiving object is measured in kW/m². The AS 3959:2018 BAL determination methodology establishes the ranges of radiant heat flux that correspond to each bushfire attack level. These are identified as BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40 and BAL-FZ.

The bushfire performance requirements for certain classes of buildings are established by the Building Code of Australia (Vol. 1 & 2 of the NCC). The BAL will establish the bushfire resistant construction requirements that are to apply in accordance with AS 3959:2018 - *Construction of buildings in bushfire prone areas* and the NASH Standard – *Steel framed construction in bushfire areas (NS 300 2021)*, whose solutions are deemed to satisfy the NCC bushfire performance requirements.

DETERMINED BAL RATINGS

A BAL Certificate can be issued for a determined BAL. A BAL can only be classed as 'determined' for an existing or future building/structure when:

1. It's 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. It will always remain subject to the same BAL regardless of its design or position on the lot after accounting for any regulatory or enforceable building setbacks from lot boundaries as relevant and necessary (e.g., R-codes, restrictive covenants, defined building envelopes) or the retention of any existing classified vegetation either onsite or offsite.

If the BMP derives determined BAL(s), the BAL Certificate(s) required for submission with building applications can be provided, using the BMP as the assessment evidence.

INDICATIVE BAL RATINGS

A BAL Certificate cannot be issued for an indicative BAL. A BAL will be classed as 'indicative' for an existing or future building/structure when the required conditions to derive a determined BAL are not met.

This class of BAL rating indicates what BAL(s) could be achieved and the conditions that need to be met are stated.

Converting the indicative BAL into a determined BAL is conditional upon the currently unconfirmed variable(s) being confirmed by a subsequent assessment and evidential documentation. These variables will include the future building(s) location(s) being established (or changed) and/or classified vegetation being modified or removed to establish the necessary vegetation separation distance. This may also be dependent on receiving approval from the relevant authority for that modification/removal.

BAL RATING APPLICATION – PLANNING APPROVAL VERSUS BUILDING APPROVAL

1. **Planning Approval:** SPP.3.7 establishes that where BAL- LOW to BAL-29 will apply to relevant future construction (or existing structures for proposed uses), the proposed development may be considered for approval (dependent on the other requirements of the relevant policy measures being met). That is, BAL40 or BAL-FZ are not acceptable on planning grounds (except for certain limited exceptions).

Because planning is looking forward at what can be achieved, as well as looking at what may currently exist, both determined and indicative BAL ratings are acceptable assessment outcomes on which planning decisions can be made (including conditional approvals).

2. **Building Approval:** The Building Code of Australia (Vol. 1 & 2 of the NCC) establishes that relevant buildings in bushfire prone areas must be constructed to the bushfire resistant requirements corresponding to the BAL rating that is to apply to that building. Consequently, a determined BAL rating and the BAL Certificate is required for a building permit to be issued - an indicative BAL rating is not acceptable.

3.1 BAL Assessment Summary (Contour Map Format)

INTERPRETATION OF THE BAL CONTOUR MAP

The BAL contour map is a diagrammatic representation of the results of the bushfire attack level assessment.

The map presents different coloured contours extending out from the areas of classified vegetation. Each contour represents a set range of radiant heat flux that potentially will transfer to an exposed element (building, person or other defined element), when it is located within that contour.

Each of the set ranges of radiant heat flux corresponds to a different BAL rating as defined by the AS 3959:2018 BAL determination methodology.

The width of each shaded BAL contour will vary dependant on both the BAL rating and the relevant parameters (calculation inputs) for the subject site. Their width represents the minimum and maximum vegetation separation distances that correspond to each BAL rating (refer to the relevant table below for these distances).

The areas of classified vegetation to be considered in developing the BAL contours, are those that will remain at the intended end state of the subject development once earthworks, clearing and/or landscaping and re-vegetation have been completed. Variations to this statement that may apply include:

- Both pre and post development BAL contour maps are produced; and/or
- Each stage of a development is assessed independently.

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 and Figure 3.1.1	Table 3.2	Appendix A1	Table 3.1 Table 3.3 / BAL Contour Map

3.1.2 BAL Ratings Derived from the Contour Map

Table 3.1: Indicative and determined BAL(s) for proposed building works.

BUSHFIRE ATTACK LEVEL FOR EXISTING/PLANNED BUILDINGS/STRUCTURE ¹		
Building/Structure Description	Indicative BAL ²	Determined BAL ²
BESS Facility	BAL-12.5 *	Not Determined
Substation	BAL-29	Not Determined

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.

*Subject to 10kW per square meter radiant heat levels due to increased separation distance by 10kW APZ as recommended due to the high-risk nature of the development.

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 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 3.2
Supporting Assessment Details: None required.	

Table 3.2: The calculation inputs applied to determining the site specific separation distances corresponding to levels of potential radiant heat transfer (including BAL's).

SUMMARY OF CALCULATION INPUT VARIABLES APPLIED TO THE DETERMINATION OF SEPARATION DISTANCES CORRESPONDING TO RADIANT HEAT LEVELS ¹												
Applied BAL Determination Method		METHOD 1 - SIMPLIFIED PROCEDURE (AS 3959:2018 CLAUSE 2.2)										
The Calculation Variables Corresponding to the BAL Determination Method Applied												
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	(G) Grassland	110	Downslope >0-5	N/A								
2	(G) Grassland	110	Upslope or flat 0									
3	(G) Grassland	110	Upslope or flat 0									
4	Excluded cl 2.2.3.2(e)	N/A	N/A									

¹ All data and information supporting the determination of the classifications and values stated in this table and any associated justification, 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 radiant heat levels illustrated as BAL contours in Figure 3.2.

THE CALCULATED VEGETATION SEPARATION DISTANCES CORRESPONDING TO THE STATED LEVEL OF RADIANT HEAT ¹									
Vegetation Classification		Separation Distances Corresponding to Stated Level of Radiant Heat (metres)							
		Bushfire Attack Level						Maximum Radiant Heat Flux	
Area	Class	BAL-FZ	BAL-40	BAL-29	BAL-19	BAL12.5	BAL-LOW	10 kW/m ²	2 kW/m ²
1	(G) Grassland	<7	7-<9	9-<14	14-<20	20-<50	>50	21.8	-
2	(G) Grassland	<6	6-<8	8-<12	12-<17	17-<50	>50	21.2	-
3	(G) Grassland	<6	6-<8	8-<12	12-<17	17-<50	>50	21.2	-
4	Excluded cl 2.2.3.2(e)	-	-	-	-	-	-	-	-



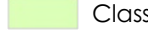

¹ All calculation input variables are presented in Table 3.2. A copy of radiant heat calculator output for each area of classified vegetation are presented in Appendix A2.

Figure 3.1

Classified Vegetation & Topography (Existing)

Lot 5 on Plan D067824, Area : 61.5116ha
Robertson Road
MERREDIN
SHIRE OF MERREDIN

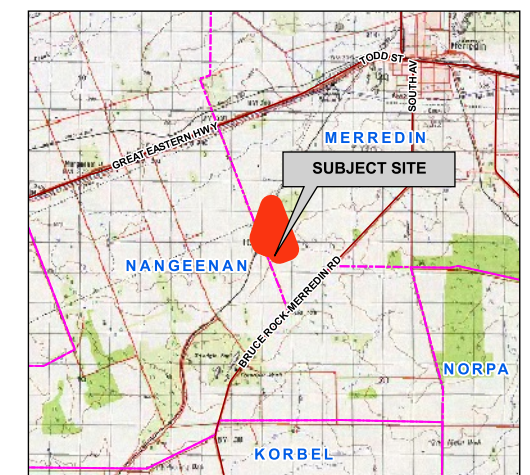
----- LEGEND -----

-  Lot 5
 -  Battery Development Extent
 -  Proposed Infrastructure
 -  150m Assessment Area
 -  Photo & Direction
- Classified Vegetation**
-  Class G - Grassland
 -  Exclusion 2.2.3.2



Metres

----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP



Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 01-11-2023
 SCALE (A3): 1 : 2000









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 3.1.1

Classified Vegetation & Topography (Post -Development)

Lot 5 on Plan D067824, Area : 61.5116ha
Robertson Road
MERREDIN
SHIRE OF MERREDIN

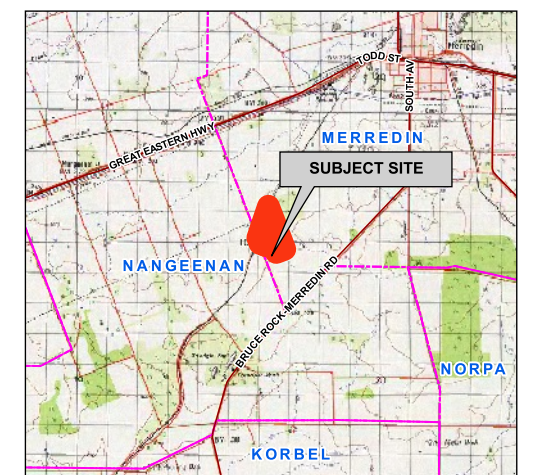
----- LEGEND -----

-  Lot 5
 -  Battery Development Extent
 -  Proposed Infrastructure
 -  150m Assessment Area
- Classified Vegetation**
-  Class G - Grassland
 -  Exclusion 2.2.3.2



Metres

----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP



Coordinate System: GDA 1994 MGA Zone 50
Projection: Universal Transverse Mercator Units: Metre
Map by: Elissa Edward 14-12-2023
SCALE (A3): 1 : 2000







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 3.2
BAL Contour Map

Lot 5 on Plan D067824, Area : 61.5116ha
 Robertson Road
 MERREDIN
 SHIRE OF MERREDIN

----- **LEGEND** -----

-  Lot 5
-  Battery Development Extent
-  Proposed Infrastructure
-  100m Assessment Area

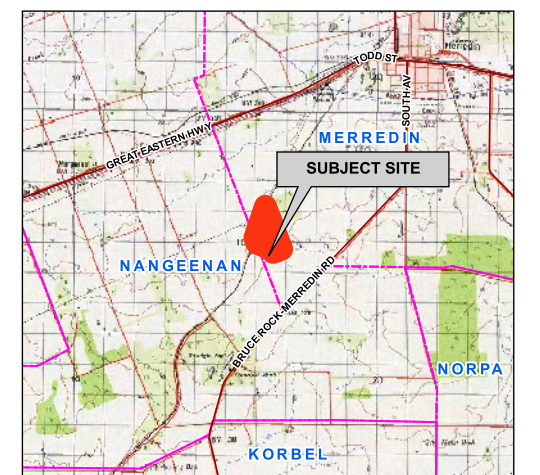
Bushfire Attack Levels

-  BAL-FZ
-  BAL-40
-  BAL-29
-  BAL-19
-  BAL-12.5
-  BAL-LOW



Metres

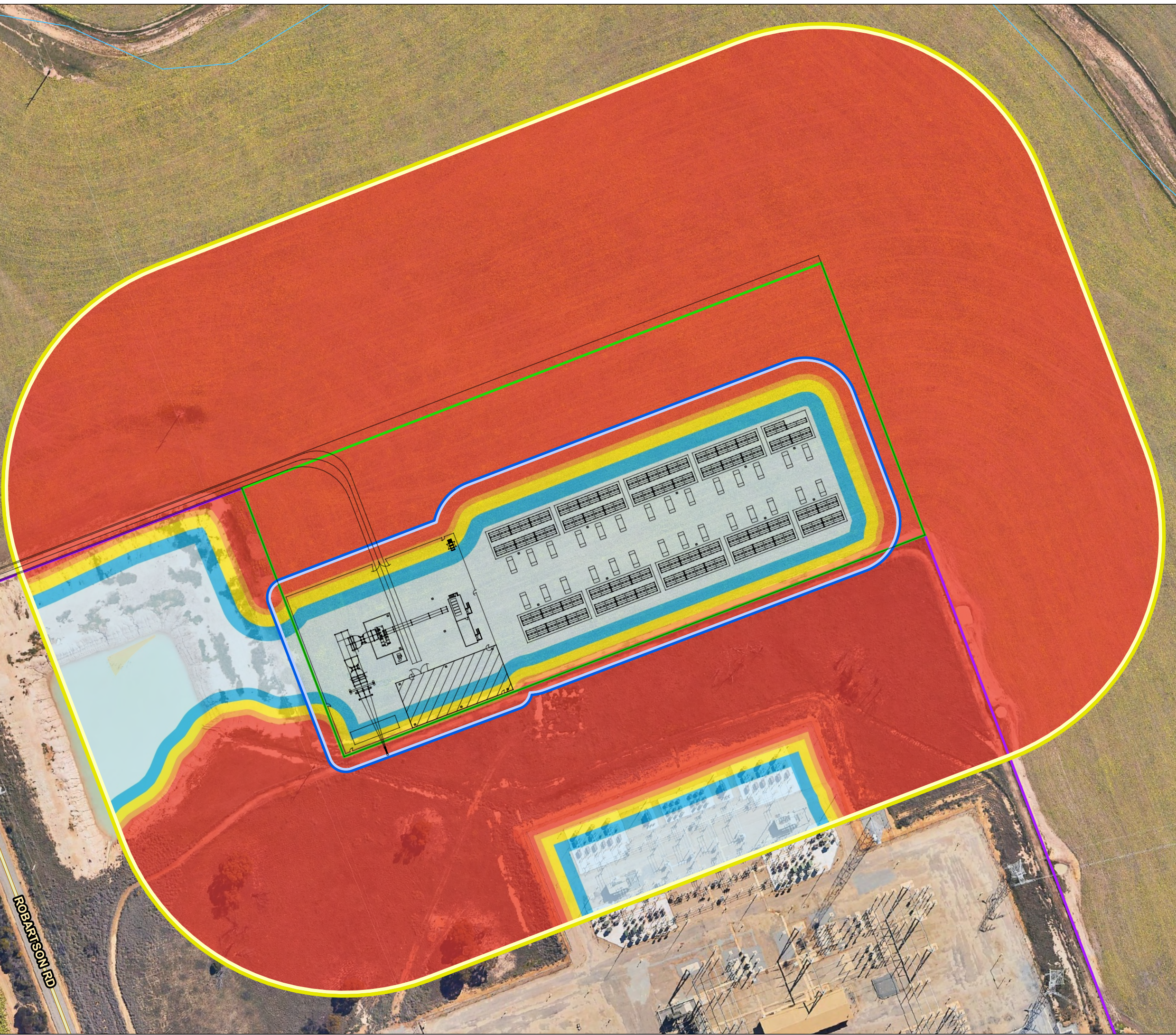
----- **LOCALITY** -----



AERIAL IMAGERY: Landgate/SLIP



Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 14-12-2023
 SCALE (A3): 1 : 1500



4 IDENTIFICATION OF BUSHFIRE HAZARD ISSUES

The Guidelines for Planning in Bushfire Prone Areas (WAPC 2021 v1.4), Appendix 5, establish that the application of this section of the BMP is intended to support **strategic planning** proposals. At the strategic planning stage there will typically be insufficient proposed development detail to enable all required assessments, including the assessment against the bushfire protection criteria.

Strategic Planning Proposals

For strategic planning proposals this section of the BMP will identify:

- Issues associated with the level of the threats presented by any identified bushfire hazard;
- Issues associated with the ability to implement sufficient and effective bushfire protection measures to reduce the exposure and vulnerability levels (of elements exposed to the hazard threats), to a tolerable or acceptable level; and
- Issues that will need to be considered at subsequent planning stages.

All Other Planning Proposals

For all other planning stages, this BMP will address what are effectively the same relevant issues but do it within the following sections:

- Section 2 – Bushfire Prone Vegetation - Environmental and Assessment Considerations: Assess environmental, biodiversity and conservation values;
- Section 3 – Potential Bushfire Impact: Assess the bushfire threats with the focus on flame contact and radiant heat; and
- Section 5 – Assessment Against the Bushfire Protection Criteria (including the guidance provided by the *Position Statement: 'Planning in bushfire prone areas – Demonstrating Element 1: Location and Element 2'*): Assess the ability of the proposed development to apply the required bushfire protection measures thereby enabling it to be considered for planning approval for these factors.

Is the proposed development a strategic planning proposal?

No

5 ASSESSMENT AGAINST THE BUSHFIRE PROTECTION CRITERIA (GUIDELINES V1.4)

5.1 Bushfire Protection Criteria Elements Applicable to the Proposed Development/Use

APPLICATION OF THE CRITERIA, ACCEPTABLE SOLUTIONS AND PERFORMANCE ASSESSMENT

The criteria are divided into five elements – location, siting and design, vehicular access, water and vulnerable tourism land uses. Each element has an intent outlining the desired outcome for the element and reflects identified planning and policy requirements in respect of each issue.

The example acceptable solutions (bushfire protection measures) provide one way of meeting the element's intent. Compliance with these automatically achieves the element's intent and provides a straightforward pathway for assessment and approval.

Where the acceptable solutions cannot be met, the ability to develop design responses (as alternative solutions that meet bushfire performance requirements) is an alternative pathway that is provided by addressing the applicable performance principles (as general statements of how best to achieve the intent of the element).

A merit based assessment is established by the SPP 3.7 and the Guidelines as an additional alternative pathway along with the ability of using discretion in making approval decisions (sections 2.5, 2.6 and 2.7). This is formally applied to certain development (minor and unavoidable – sections 5.4.1 and 5.7). Relevant decisions by the State Administrative Tribunal have also supported this approach more generally.

Elements 1 – 4 should be applied for all strategic planning proposals, subdivision or development applications, except for vulnerable tourism land uses which should refer to Element 5. Element 5 incorporates the bushfire protection criteria in Elements 1 – 4 but caters them specifically to tourism land uses. (Guidelines DPLH 2021v1.4)

The Bushfire Protection Criteria	Applicable to the Proposed Development/Use
Element 1: Location	Yes
Element 2: Siting and Design	Yes
Element 3: Vehicular Access	Yes
Element 4: Water	Yes
Element 5: Vulnerable Tourism Land Uses	No

5.2 Local Government Variations to Apply

Local governments may add to or modify the acceptable solutions to recognise special local or regional circumstances (e.g., topography / vegetation / climate). These are to be endorsed by both the WAPC and DFES before they can be considered in planning assessments. (Guidelines DPLH 2021v1.4).

Do endorsed regional or local variations to the acceptable solutions apply to the assessments against the Bushfire Protection Criteria for the proposed development /use?

No

5.3 Assessment Statements for Element 1: Location

LOCATION	
Element Intent	To ensure that strategic planning proposals, subdivision and development applications are located in areas with the least possible risk of bushfire to facilitate the protection of people, property and infrastructure.
Proposed Development/Use – Relevant Planning Stage	(Do) Development application other than for a single dwelling, ancillary dwelling or minor development
Element Compliance Statement	The proposed development/use achieves the intent of this element by being fully compliant with all applicable acceptable solutions.
Pathway Applied to Provide an Alternative Solution	N/A
Acceptable Solutions - Assessment Statements	
<p>All details of acceptable solution requirements are established in the <i>Guidelines for Planning in Bushfire Prone Areas, DPLH v1.4 (Guidelines)</i> and apply the guidance established by the <i>Position Statement: 'Planning in bushfire prone areas – Demonstrating Element 1: Location and Element 2: Siting and design'</i> (WAPC Nov 2019) and the <i>'Bushfire Management Plan Guidance for the Dampier Peninsula'</i> (WA Department of Planning, Lands and Heritage, 2021 Rev B) as relevant. These documents are available at https://www.wa.gov.au/government/document-collections/state-planning-policy-37-planning-bushfire-prone-areas.</p>	
Solution Component Check Box Legend	<input checked="" type="checkbox"/> Relevant & met <input checked="" type="checkbox"/> Relevant & not met <input type="checkbox"/> Not relevant
A1.1 Development location	Applicable: Yes Compliant: Yes
ASSESSMENT AGAINST THE REQUIREMENTS ESTABLISHED BY THE GUIDELINES	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> The development application is located in an area that is or will, on completion, be subject to either a moderate or low bushfire hazard level, or BAL-29 or below.	
Supporting Assessment Details:	
Refer to Figure 3.1.1 and Figure 3.2 showing the BAL-29 APZ around the substation and the 10kW APZ around the BESS Facility that can and will be established around the proposed development on the subject lot upon completion.	
ASSESSMENTS APPLYING THE GUIDANCE ESTABLISHED BY THE WAPC ELEMENT 1 & 2 POSITION STATEMENT (2019)	
<p>“Consideration should be given to the site context where ‘area’ is the land both within and adjoining the subject site. The hazards remaining within the site should not be considered in isolation of the hazards adjoining the site, as the potential impact of a bushfire will be dependent on the wider risk context, including how a bushfire could affect the site and the conditions for a bushfire to occur within the site.”</p> <p>Strategic Planning Proposals: Consider the threat levels from any vegetation <u>adjoining</u> and <u>within</u> the subject site for which the potential intensity of a bushfire in that vegetation would result in it being classified as an Extreme Bushfire Hazard Level (BHL). Identify any proposed design strategies to reduce these threats.</p> <p>Structure Plans (lot layout known) and Subdivision Applications: As for strategic planning proposals but <u>within</u> the subject site the relevant threat levels to consider are the radiant heat levels represented by BAL-FZ and BAL-40 ratings.</p>	
<p>The planning proposal is a development application, consequently the referenced position statement is not applicable to the Element 1 assessment.</p>	

5.4 Assessment Statements for Element 2: Siting and Design

SITING AND DESIGN OF DEVELOPMENT			
Element Intent	To ensure that the siting and design of development minimises the level of bushfire impact. (BPP Note: not building/construction design)		
Proposed Development/Use – Relevant Planning Stage	(Do) Development application other than for a single dwelling, ancillary dwelling or minor development		
Element Compliance Statement	The proposed development/use achieves the intent of this element by being fully compliant with all applicable acceptable solutions.		
Pathway Applied to Provide an Alternative Solution	N/A		
Acceptable Solutions - Assessment Statements			
<p>All details of acceptable solution requirements are established in the Guidelines for Planning in Bushfire Prone Areas, DPLH v1.4 (Guidelines) and apply the guidance established by the Position Statement: 'Planning in bushfire prone areas – Demonstrating Element 1: Location and Element 2: Siting and design' (WAPC Nov 2019) and the 'Bushfire Management Plan Guidance for the Dampier Peninsula' (WA Department of Planning, Lands and Heritage, 2021 Rev B) as relevant. These documents are available at https://www.wa.gov.au/government/document-collections/state-planning-policy-37-planning-bushfire-prone-areas.</p>			
<p>Solution Component Check Box Legend <input checked="" type="checkbox"/> Relevant & met <input checked="" type="checkbox"/> Relevant & not met <input type="checkbox"/> Not relevant</p>			
A2.1 Asset Protection Zone (APZ)	Applicable:	Yes	Compliant:
APZ DIMENSIONS – DIFFERENCES IN REQUIREMENTS FOR PLANNING ASSESSMENTS COMPARED TO IMPLEMENTATION			
<p>A key required bushfire protection measure is to reduce the exposure of buildings/infrastructure (as exposed vulnerable elements at risk), to the direct bushfire threats of flame contact, radiant heat and embers and the indirect threat of consequential fires that result from the subsequent ignition of other combustible materials that may be constructed, stored or accumulate in the area surrounding these structures. This reduces the associated risks of damage or loss.</p> <p>This is achieved by separating buildings (and consequential fire fuels as necessary) from areas of classified bushfire prone vegetation. This area of separation surrounding buildings is identified as the Asset Protection Zone (APZ) and consists of no vegetation and/or low threat vegetation or vegetation continually managed to a minimal fuel condition. The required separation distances will vary according to the site specific conditions and local government requirements.</p> <p>The APZ dimensions stated and/or illustrated in this Report can vary dependent on the purpose for which they are being identified.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <p><i>Note: Appendix B 'Onsite Vegetation Management' provides further information regarding the different APZ dimensions that can be referenced, their purpose and the specifications of the APZ that are to be established and maintained on the subject lot.</i></p> </div>			
THE 'PLANNING BAL-29' APZ DIMENSIONS			
<p>Purpose: To provide evidence of the development or use proposal's ability to achieve minimum vegetation separation distances. To achieve 'acceptable solution' planning approval for this factor, it must be demonstrated that the minimum separation distances corresponding to a maximum level of radiant transfer to a building of 29 kW/m², either exist or can be implemented (with certain exceptions). These separation distances are the 'Planning BAL-29' APZ dimensions.</p> <p><i>The 'Planning BAL-29' APZ is not necessarily the size of the APZ that must be physically implemented and maintained by a landowner. Rather, its sole purpose is to identify if an acceptable solution for planning approval can be met.</i></p>			

THE 'REQUIRED' APZ DIMENSIONS

Purpose: Establishes the dimensions of the APZ to be physically implemented by the landowner on their lot: These will be the minimum required separation distances from the subject building(s) to surrounding bushfire prone vegetation (identified by type and associated ground slope). These are established by:

- A. The 'BAL Rating APZ' of the subject building(s) when distances are greater than 'B' below (except when 'B' establishes a maximum distance); or
- B. The 'Local Government' APZ' derived from the Firebreak/Hazard Reduction Notice when distances are greater than 'A' above, other than when a maximum distance is established, in which case this will apply; or
- C. A combination of 'A' and 'B'.

Within this Report/Plan it is the 'Planning BAL-29' APZ that will be identified on maps, diagrams and in tables as necessary – unless otherwise stated.

The 'Required' APZ dimension information will be presented in Appendix B1.1 and on the Property Bushfire Management Statement, when required to be included for a development application.

ASSESSMENT AGAINST THE REQUIREMENTS ESTABLISHED BY THE GUIDELINES

APZ Width: The proposed (or a future) habitable building(s) on the lot(s) of the proposed development - or an existing building for a proposed change of use – can be (or is) located within the developable portion of the lot and be surrounded by a 'Planning BAL-29' APZ of the required dimensions (measured from any external wall or supporting post or column to the edge of the classified vegetation), that will ensure their exposure to the potential radiant heat impact of a bushfire does not exceed 29 kW/m².

Note:

When established by the relevant decision maker, the meeting of this requirement may also apply to proposed non-habitable buildings and other structures.

Restriction on Building Location: It has been identified that the current developable portion of a lot(s) provides for the proposed future (or a future) building/structure location that will result in that building/structure being subject to a BAL-40 or BAL-FZ rating. Consequently, it may be considered necessary to impose the condition that a restrictive covenant to the benefit of the local government pursuant to section 129BA of the Transfer of Land Act 1893, is to be placed on the certificate(s) of title of the proposed lot(s) advising of the existence of a restriction on the use of that portion of land (refer to Code F3 of Model Subdivision Conditions Schedule, WAPC June 2021 and Guidelines s5.3.2).

APZ Location: The required dimensions for a 'Planning BAL-29' APZ can be contained solely within the boundaries of the lot(s) on which the proposed (or a future) habitable building(s) - or an existing building(s) for a proposed change of use – is situated.

APZ Location: The required dimensions for a 'Planning BAL-29' APZ can be partly established within the boundaries of the lot(s) on which the proposed (or a future) habitable building(s) - or an existing building(s) for a proposed change of use – is situated. The balance of the APZ would exist on adjoining land that satisfies the exclusion requirements of AS 3959:2018 cl 2.2.3.2 for non-vegetated areas and/or low threat vegetation and/or vegetation managed in a minimal fuel condition.

APZ Location: It can be justified that any adjoining (offsite) land forming part of a 'Planning BAL-29' APZ will:

- If non-vegetated, remain in this condition in perpetuity; and/or

- If vegetated, be low threat vegetation or vegetation managed in a minimal fuel condition in perpetuity.

APZ Management: The area of land (within each lot boundary), that is to make up the required 'Landowner' APZ dimensions (refer to Appendix B, Part B1), can and will be managed in accordance with the requirements of the Guidelines Schedule 1 'Standards for Asset Protection Zones' (refer to Appendix B).

Staged Subdivision: The subdivision proposes development in stages and each stage is to comply with the relevant bushfire protection criteria.

A balance lot is created or classified vegetation within a subsequent stage will be removed and/or modified and/or be subject to ongoing management, to ensure that proposed lots within the current stage of the subdivision achieve a development site subject to 29 kW/m² or below.

The planned approach for achieving the required outcome is described in the supporting assessment details below.

Firebreak/Hazard Reduction Notice: Any additional requirements established by the relevant local government's annual notice to install firebreaks and manage fuel loads (issued under s33 of the Bushfires Act 1954), can and will be complied with.

Supporting Assessment Details:

Refer to Figure 3.1.1 showing the APZs and dimensions for the proposed non-habitable development. This figure shows the required APZ dimensions for this development. The current site plans provided by the proponent, cannot accommodate the required APZ dimensions within the development boundaries. For this development to be compliant with Element 2 within this BMP, the site plans need to be revised in order to fit the required APZ or a management agreement needs to be established between Western Power the developer / operator to manage the land outside the developable boundaries.

ASSESSMENTS APPLYING THE GUIDANCE ESTABLISHED BY THE WAPC ELEMENT 1 & 2 POSITION STATEMENT (2019)

Strategic Planning Proposals: "At this planning level there may not be enough detail to demonstrate compliance with this element. The decision-maker may consider this element is satisfied where A1.1 is met."

Structure Plans (lot layout known) and Subdivision Applications: "Provided that Element 1 is satisfied, the decision-maker may consider approving lot(s) containing BAL-40 or BAL-FZ under the following scenarios.

The planning proposal is a development application, consequently the referenced position statement is not applicable to the proposed development.

5.5 Assessment Statements for Element 3: Vehicular Access

VEHICULAR ACCESS	
Element Intent	To ensure that the vehicular access serving a subdivision/development is available and safe during a bushfire event.
Proposed Development/Use – Relevant Planning Stage	(Do) Development application other than for a single dwelling, ancillary dwelling or minor development
Element Compliance Statement	The proposed development/use achieves the intent of this element by being fully compliant with all applicable acceptable solutions.
Pathway Applied to Provide an Alternative Solution	N/A
Acceptable Solutions - Assessment Statements	
<p>All details of acceptable solution requirements are established in the <i>Guidelines for Planning in Bushfire Prone Areas, DPLH v1.4 (Guidelines)</i> and apply the guidance established by the <i>Position Statement: 'Planning in bushfire prone areas – Demonstrating Element 1: Location and Element 2: Siting and design' (WAPC Nov 2019)</i> and the <i>'Bushfire Management Plan Guidance for the Dampier Peninsula' (WA Department of Planning, Lands and Heritage, 2021 Rev B)</i> as relevant. These documents are available at https://www.wa.gov.au/government/document-collections/state-planning-policy-37-planning-bushfire-prone-areas.</p> <p>The technical construction requirements for access types and components, and for each firefighting water supply component, are also presented in <i>Appendices C and D</i>. 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 in the relevant appendix if requested by the local government).</p>	
Solution Component Check Box Legend	<input checked="" type="checkbox"/> Relevant & met <input checked="" type="checkbox"/> Relevant & not met <input type="checkbox"/> Not relevant
A3.1 Public roads	Applicable: Yes Compliant: Yes
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	The technical construction requirements of vertical clearance and weight capacity (Guidelines, Table 6) can and will be complied with (Refer also to Appendix C in this BMP).
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>All other applicable technical requirements of trafficable width, gradients and curves, are required to be in "accordance with the class of road as specified in the IPWEA Subdivision Guidelines, Liveable Neighbourhoods, Ausroad Standards and/or any applicable standard in the local government area" (Guidelines, Table 6 and E3.1. Refer also to Appendix C in this BMP).</p> <p>The assessment conducted for the bushfire management plan indicates that it is likely that the proposed development can and will comply with the requirements.</p> <p>However, the applicable class of road, the associated technical requirements and subsequent proposal compliance, will need to be confirmed with the relevant local government and/or Main Roads WA.</p>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A traversable verge is available adjacent to classified vegetation (Guidelines, E3.1), as recommended.
Supporting Assessment Details: No new public roads are proposed as part of the development. Existing public road, Robartson Road, provides access to the development. Robartson Road is a sealed, approximately 7 metre width, trafficable surface, with approximately 2 metre gravel trafficable shoulders.	
A3.2a Multiple access routes	Applicable: Yes Compliant: Yes
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	For each lot, two-way public road access is provided in two different directions to at least two different suitable destinations with an all-weather surface.

<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The two-way access <u>is</u> available at an intersection no greater than 200m from the relevant boundary of each lot, via a no-through road.</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The two-way access is <u>not</u> available at an intersection within 200m from the relevant boundary of each lot. However, the available no-through road satisfies the established exemption for the length limitation in every case. These requirements are:</p> <ul style="list-style-type: none"> • Demonstration of no alternative access (refer to A3.3 below); • The no-through road travels towards a suitable destination; and • The balance of the no-through road that is greater than 200m from the relevant lot boundary is within a residential built-out area or is potentially subject to radiant heat levels from adjacent bushfire prone vegetation that correspond to the BAL-LOW rating (<12.5 kW/m²).
<p>Supporting Assessment Details: Robartson Road provides two-way access for the development. Robartson Road provides access in a northerly direction to its intersection with major route Great Eastern Highway. Robartson Road provides access in a southerly direction to its intersection with Bruce Rock-Merredin Road. Bruce Rock-Merredin Road continues north to the townsite of Merredin, and continues south to the townsite of Bruce Rock, allowing multiple suitable destinations which can be accessed from the development site.</p>	
<p>A3.2b Emergency access way</p>	<p>Applicable: No Compliant: N/A</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The proposed or existing EAW provides a through connection to a public road.</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The proposed or existing EAW is less than 500m in length and will be signposted and gated (remaining unlocked) to the specifications stated in the Guidelines and/or required by the relevant local government.</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The technical construction requirements for widths, clearances, capacity, gradients and curves (Guidelines, Table 6 and E3.2b. Refer also to Appendix C in this BMP), can and will be complied with.</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The subdivision proposes development in stages and each stage is to comply with the relevant bushfire protection criteria.</p> <p>A temporary EAW is planned to facilitate the staging arrangements of a subdivision as an interim second access route until the required second access route is constructed as a public road in a subsequent stage.</p> <p>The planned approach for achieving the required outcome is described in the supporting assessment details below.</p>
<p>Supporting Assessment Details: A3.2b does not apply to the development because A3.2a <u>can</u> be achieved.</p>	
<p>A3.3 Through-roads</p>	<p>Applicable: No Compliant: N/A</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>A no-through public road is necessary as no alternative road layout exists due to site constraints.</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The no-through public road length does not exceed the established maximum of 200m to an intersection providing two-way access (Guidelines, E3.3).</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The no-through public road exceeds 200m but satisfies the exemption provisions of A3.2a as demonstrated in A3.2a above.</p>
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/>	<p>The public road technical construction requirements (Guidelines, Table 6 and E3.1. Refer also to Appendix C in this BMP), can and will be complied with as established in A3.1 above.</p>

<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The turnaround area requirements (Guidelines, Figure 24) can and will be complied with.			
Supporting Assessment Details: None required.			
A3.4a Perimeter roads	Applicable:	No	Compliant: N/A
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The proposed greenfield or infill development consists of 10 or more lots (including those that are part of a staged subdivision) and therefore should have a perimeter road. This is planned to be installed.			
<p>The proposed greenfield or infill development consists of 10 or more lots (including those that are part of a staged subdivision). However, it is not required on the established basis of:</p> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> <ul style="list-style-type: none"> • The vegetation adjoining the proposed lots is classified Class G Grassland; • Lots are zoned rural living or equivalent; • It is demonstrated that it cannot be provided due to site constraints; or • All lots have existing frontage to a public road. 			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The technical construction requirements of widths, clearances, capacity, gradients and curves (Guidelines, Table 6 and E3.4a) can and will be complied with.			
Supporting Assessment Details: None required.			
A3.4b Fire service access route	Applicable:	No	Compliant: N/A
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The FSAR can be installed as a through-route with no dead ends, linked to the internal road system every 500m and is no further than 500m from a public road.			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The technical construction requirements of widths, clearances, capacity, gradients and curves (Guidelines, Table 6 and E3.4b. Refer also to Appendix C in this BMP), can and will be complied with.			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The FSAR can and will be signposted. Where gates are required by the relevant local government, the specifications can be complied with.			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> Turnaround areas (to accommodate type 3.4 fire appliances) can and will be installed every 500m on the FSAR.			
Supporting Assessment Details: None required.			
A3.5 Battle-axe access legs	Applicable:	No	Compliant: N/A
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> A battle-axe leg cannot be avoided due to site constraints.			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The proposed development is in a reticulated area and the battle-axe access leg length from a public road is no greater than 50m. No technical requirements need to be met.			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> The proposed development is not in a reticulated area. The technical construction requirements for widths, clearances, capacity, gradients and curves (Guidelines, Table 6 and E3.5. Refer also to Appendix C in this BMP), can and will be complied with.			
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> Passing bays can and will be installed every 200m with a minimum length of 20m and a minimum additional trafficable width of 2m.			

Supporting Assessment Details: None required.			
A3.6 Private driveways	Applicable:	Yes	Compliant: Yes
<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	The private driveway to the most distant external part of the development site is within a lot serviced by reticulated water, is accessed via a public road with a speed limit of 70 km/hr or less and has a length is no greater than 70m (measured as a hose lay). No technical requirements need to be met.		
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	The technical construction requirements for widths, clearances, capacity, gradients and curves (Guidelines, Table 6 and E3.6. Refer also to Appendix C in this BMP), can and will be complied with.		
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Passing bays can and will be installed every 200m with a minimum length of 20m and a minimum additional trafficable width of 2m.		
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	The turnaround area requirements (Guidelines, Figure 28, and within 30m of the habitable building) can and will be complied with.		
<p>Supporting Assessment Details: The proposed private driveway is approximately 225m in length (from Robartson Road to Substation entrance). This driveway will need to be constructed to the requirements within table 6 (Appendix C of this report) to provide adequate road width that will allow overtaking of emergency vehicles, therefore removing the requirement for over taking bays.</p> <p>To accommodate any future expansion and provide adequate access to the BESS facility, a looped driveway will need to be installed around the BESS facility.</p>			

5.6 Assessment Statements for Element 4: Water

FIREFIGHTING WATER	
Element Intent	To ensure water is available to enable people, property and infrastructure to be defended from bushfire.
Proposed Development/Use – Relevant Planning Stage	(Do) Development application other than for a single dwelling, ancillary dwelling or minor development
Element Compliance Statement	The proposed development/use achieves the intent of this element by being fully compliant with all applicable acceptable solutions.
Pathway Applied to Provide an Alternative Solution	N/A
Acceptable Solutions - Assessment Statements	
<p>All details of acceptable solution requirements are established in the <i>Guidelines for Planning in Bushfire Prone Areas, DPLH v1.4 (Guidelines)</i> and apply the guidance established by the <i>Position Statement: 'Planning in bushfire prone areas – Demonstrating Element 1: Location and Element 2: Siting and design' (WAPC Nov 2019)</i> and the <i>'Bushfire Management Plan Guidance for the Dampier Peninsula' (WA Department of Planning, Lands and Heritage, 2021 Rev B)</i> as relevant. These documents are available at https://www.wa.gov.au/government/document-collections/state-planning-policy-37-planning-bushfire-prone-areas.</p> <p>The technical construction requirements for access types and components, and for each firefighting water supply component, are also presented in Appendices C and D. 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 in the relevant appendix if requested by the local government).</p>	
Solution Component Check Box Legend	<input checked="" type="checkbox"/> Relevant & met <input checked="" type="checkbox"/> Relevant & not met <input type="checkbox"/> Not relevant
A4.1 Identification of future firefighting water supply	Applicable: No Compliant: N/A
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> It can be demonstrated that reticulated or sufficient non-reticulated water for firefighting can be provided at the subdivision and/or development application stage in accordance with the specifications of the relevant water supply authority or the requirements of Schedule 2.	
Supporting Assessment Details: None required.	
A4.2 Provision of water for firefighting purposes	Applicable: Yes Compliant: Yes
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A reticulated water supply is available to the proposed development. The existing hydrant connection(s) are provided in accordance with the specifications of the relevant water supply authority.	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A reticulated water supply will be available to the proposed development. Hydrant connection(s) can and will be provided in accordance with the specifications of the relevant water supply authority.	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A static water supply (tank) for firefighting purposes will be installed on the lot that is additional to any water supply that is required for drinking and other domestic purposes.	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A strategic water supply (tank or tanks) for firefighting purposes will be installed within or adjacent to the proposed development that is additional to any water supply that is required for drinking and other domestic purposes. The required land will be ceded free of cost to the local government and the lot or road reserve where the tank is to be located will be identified on the plan of subdivision.	

The strategic static water supply (tank or tanks) will be located no more than 10 minutes travel time from a subject site (at legal road speeds).

The technical requirements (location, number of tanks, volumes, design, construction materials, pipes and fittings), as established by the Guidelines (A4.2, E4 and Schedule 2) and/or the relevant local government, can and will be complied with.

Supporting Assessment Details:

Due to the high-risk nature of the development static water supply tank of 288,000L will be installed upon completion of the project in accordance with the requirements established in the BRR and Section 5.7 of this document. This water supply is intended to address bushfire and non-bushfire emergencies.

5.7 Additional Bushfire Protection Measures to be Implemented

The following bushfire protection measures are recommended to be implemented and maintained. They are additional to, or a variation of, those established by the relevant acceptable solutions applied to the proposed development/use within Sections 5 of this BMP (as applicable to the proposed development).

The intent of their application is to improve the bushfire performance of the proposed development/use and reduce residual risk levels to persons and property from a bushfire event.

The development of these additional and/or varied protection measures originates the following potential sources (not exhaustive):

1. Out of the relevant merit based assessment when the Section titled 'Non-compliance – Additional Assessments' has been used in this BMP;
2. Out of the relevant performance based assessment when Section titled 'Non-compliance – Additional Assessments' has been used in this BMP;
3. Out of the development of any other required bushfire planning documents. These include a Bushfire Emergency Plan and the Bushfire Risk Assessment and Management Report;
4. Out of any additional bushfire planning guidance documents or position statements issued by the WA Department of Planning, Lands and Heritage;
5. From any 'Conditions' which may be applied to a 'Planning Approval' or a 'Notice of Determination'; or
6. As a recommendation from the bushfire consultant.

The following table summarises the requirements/recommendations with the detail provided in the following sections.

When necessary, the implementation responsibility for these additional protection measures will be stated in Section 6 of this BMP and included in other operational documents as relevant.

SUMMARY OF ADDITIONAL BUSHFIRE PROTECTION MEASURES TO BE IMPLEMENTED

No.	Description of the Protection Measure to Apply to the Proposed Development	Risk Reducing Component Being Applied		The Assessment or Document Establishing the Application of the Protection Measure	Application Status
		Type	Protection Principle		
1	A BAL-29 APZ is required for planning approval. A 10kW/m2 APZ is additionally required so BESS units and infrastructure (electrical components) are unlikely to be compromised due to radiant heat during a bushfire. There is no native vegetation on site, therefore permission by the decision maker and local government is not required.	Threat Reduction	Prevent bushfire ignition and/or severity by controlling the fuel.	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
2	It is required that all fine fuels are removed or maintained below 2t/ha within the APZ.	Threat Reduction	Prevent bushfire ignition and/or severity by controlling the fuel.	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		

3	Operating procedures have not yet been prepared. No ongoing works are proposed which could ignite a bushfire, except during an accident or component failure. It is advised that any hot/hazardous works are not undertaken during a Total Fire Ban or on a day with a Fire Danger Rating of Extreme or Catastrophic or under a Local Govt imposed Harvest, Vehicle movement and hot works ban.	Threat Reduction	Prevent bushfire ignition by controlling heat energy source and fuel interactions	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
4	BESS units and associated infrastructure are comprised of metal exterior. Electrical cabling to and from the BESS units and associated infrastructure are underground, and any exposed cables can be shielded by non-combustible material.	Threat Reduction	Prevent bushfire ignition by controlling heat energy source and fuel interactions	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
5	Fire within the facility (infrastructure, batteries or stored equipment) ignited by site operation/accident/failure may ignite vegetation. The 10kW/m2 APZ to be applied around the infrastructure is considered appropriate in reducing the risk of igniting a bushfire. The removal of consequential fire hazards within the APZ minimises the potential for spread of fire beyond the asset.	Threat Reduction	Prevent bushfire ignition by controlling heat energy source and fuel interactions	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		

		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
6	<p>An APZ is to be established around electrical components and infrastructure. This APZ will ensure exposure to the bushfire hazard threat of radiant heat will be limited to a maximum radiant heat flux of 10 kW/m² (calculated with an assumed flame temperature of 1090K) by providing the required separation distances from the bushfire hazard. The 10m portion of the APZ immediately around BESS infrastructure must be entirely and permanently non-vegetated (sealed, compacted limestone, gravel, mineral earth etc).</p> <p>A BAL-29 APZ is required for all Class 1-10 buildings onsite. It is possible to locate the buildings within the 10kW/m² APZ applied to BESS infrastructure such that additional vegetation clearing is not required.</p>	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	Separation from Bushfire Threats		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
7	<p>All non-structural combustible materials are to be removed within 10m of assets. This includes but is not limited to; waste, leaf litter, machinery, grasses, vehicles, fuel, furniture, and timber. When storage of flammable items or materials are stored on site temporarily (for maintenance etc), separation distances must be complied with. This requirement is to be included in the Site Operating Procedures document.</p>	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	Separation from Bushfire Threats		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
8	<p>Ensure all subfloor spaces are sealed or enclosed with non-combustible solid material or ember screening</p>	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant
		Exposure Reduction - Persons	N/A		

	mesh (corrosion-resistant steel, bronze, or aluminium with an aperture <2mm).	Exposure Reduction – Buildings/Structures	N/A		responsibilities established in Section 6.
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
9	Exposed electrical cabling to be shielded from radiant heat and consequential fire by burying underground or shielding with non-combustible material – common electrical cabling reaches its critical point at >10kWm ² . Exposed plumbing (poly pipe) is to be buried or shielded with non-combustible material – maximum exposure 120 degrees Celsius.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	Shielding from Bushfire Threats		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	N/A		
10	The site Emergency Management Plan (document title pending), is to include responses to bushfire emergencies. The immediately procedure is to evacuate in the appropriate direction away from the fire, and inform DFES Comcen of the status of the BESS facility.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	Provision of Bushfire Emergency Information and Education		
		Vulnerability Reduction – Buildings/Structures	N/A		
11	The development is proposed to be unstaffed. It is recommended that the staff member managing emergency procedures has training in general	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant
		Exposure Reduction - Persons	N/A		

	bushfire emergency procedures, and has specific knowledge of the site procedures in response to bushfire. This staff member should be easily contactable.	Exposure Reduction – Buildings/Structures	N/A		responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Vulnerability Reduction - Persons	Provision of Bushfire Emergency Information and Education		
		Vulnerability Reduction – Buildings/Structures	N/A		
12	It is recommended that the Merredin Volunteer Fire and Rescue Service are to be invited to inspect and familiarise with the site. Provide information in site fire response procedures. This invitation may be annual or ad-hoc.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Establish/Improve Firefighting Capability		
13	Class 1-10 buildings: The construction of proposed structures is currently unknown. They will likely be primarily masonry, steel, aluminium and cement sheeting. It is recommended non-combustible elements are included where practical.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
14	BESS cabinets and infrastructure: Use non-combustible or products with high heat ratings to assist with maintaining their operability.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant
		Exposure Reduction - Persons	N/A		

		Exposure Reduction – Buildings/Structures	N/A		responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
15	Where the electrical cabling contacts the ground or any arrangement of associated structures creates a 'pocket' for accumulation of debris, this should be rectified by design or filling with non-combustible material such as mineral earth. Consideration should be given to making the arrangement self-cleaning through wind action to the greatest extent possible. These measures will reduce accumulation and/or make the management (clearing) of accumulated debris easier. E.g. cable raking to be ≥ 100 mm above ground.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
16	All Class 1-10 buildings (including non-habitable structures) must have ember screening/sealants installed on any gaps and penetrations.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
17		Threat Reduction	N/A		

	<p>The manufacturer or appropriate engineers should be contacted to enquire if it is possible to apply ember screening to intake/exhaust vents and other paths of entry to the interior cavity or accessing any combustible elements of BESS cabinets. This ember screening would be applicable to the exterior of the battery cabinet, not internal components. The intention is to prevent both ember ingress and debris accumulation.</p> <p>Ember screening mesh is corrosion-resistant steel, bronze, or aluminium with an aperture <2mm.</p>	Exposure Reduction - Persons	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
18	Any security fences or other potential fuel loads should be constructed using non-combustible material.	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Applies Design and Construction (Materials) to Improve Resilience to Bushfire Threats		
19	<p>The following requirements apply to the firefighting water supply. The specifications will be confirmed at the detailed design stage.</p> <p><u>Access</u></p> <ul style="list-style-type: none"> • Firefighting water access points (hydrants, hard suction, or drafting) must be clearly identifiable, visible from internal roads, and unobstructed. • The water tank(s) must be located at the vehicle access point to the development (northern entry gate). 	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Establish/Improve Firefighting Capability		

<ul style="list-style-type: none"> • An all-weather hardstand turnaround area meeting the requirements of the Guidelines for Planning in Bushfire Prone Areas v1.4 (Explanatory Note E3.3) must be provided within 4 metres of both the static water storage tank(s) and any independent hard suction points (hydrants). • Site Operating Procedures must include that access routes must be unobstructed at all times. <p><u>Siting</u></p> <ul style="list-style-type: none"> • The water tank(s) must be positioned >10m from BESS cabinets and associated infrastructure. • The water tank(s) should apply a BAL-29 APZ at a minimum. It is possible to locate the tank within the 10kW/m² APZ applied to BESS infrastructure such that additional vegetation clearing is not required. <p><u>Construction</u></p> <ul style="list-style-type: none"> • The static firefighting water supply must be calculated per AS 2419. Based on the submitted layout the required supply will be 288,000L. This water supply is intended to address bushfire and non-bushfire emergencies. • The static water storage tank(s) must be an above-ground water tank constructed of concrete or steel. • An external water level indicator must be installed on static water storage tank(s) and be visible from internal roads and the adjoining turnaround area. • Signage indicating 'FIRE WATER' and the tank capacity must be fixed to each tank. 				
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	<ul style="list-style-type: none"> The hard-suction point must be protected from mechanical damage (eg. bollards) where vehicle contact is possible. Couplings at hard suction points are required to be 125mm Storz fittings (<i>Guidelines</i> v1.4 s2.2.2.1). DFES Built Environment and the Merredin Volunteer Fire and Rescue Service should be contacted for input on appropriate couplings and adaptors. 				
20	<p>The BESS units have active monitoring and electrical fault safety devices which ensure the units only remain operational within their intended operating environment, with an automated shut-down system. It is recommended that automatic fire suppression systems are installed and maintained, as appropriate to the BESS details and recommended by the manufacturer.</p>	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Recommended only. Future inclusion in relevant responsibilities established in Section 6 will be dependent on the planning decision maker establishing a condition of approval.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Establish/Improve Firefighting Capability		
21	<p>Operating and maintenance procedures are to be developed to ensure regular maintenance of firefighting supply and infrastructure.</p>	Threat Reduction	N/A	Bushfire Risk Assessment and Management Report	Required and will form part of the relevant responsibilities established in Section 6.
		Exposure Reduction - Persons	N/A		
		Exposure Reduction – Buildings/Structures	N/A		
		Vulnerability Reduction - Persons	N/A		
		Vulnerability Reduction – Buildings/Structures	Ensure Effectiveness Of Applied Protection Measures is Maintained		

6 BUSHFIRE PROTECTION MEASURES - RESPONSIBILITY FOR IMPLEMENTATION CHECKLIST

6.1 Developer / Landowner Responsibilities – Prior to Building and Operation

DEVELOPER/LANDOWNER RESPONSIBILITIES – PRIOR TO BUILDING AND OPERATION	
No.	Implementation Actions
1	<p>Prior to relevant building work, inform the builder of the existence of this approved Bushfire Management Plan (BMP). The plan identifies that the development site is within a designated bushfire prone area and states the indicative (or determined) BAL rating(s) that may (or will) be applied to buildings/structures. A BAL assessment report may be required to confirm determined ratings and will be required when ratings are indicative. BAL certificates will need to be issued to accompany building applications.</p> <p>The BMP may also establish, as an additional bushfire protection measure, that construction requirements to be applied will be those corresponding to a specified higher BAL rating.</p> <p>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 residential buildings in bushfire prone areas (i.e., Class 1, 2 and 3 and associated Class 10a buildings and decks). Other classes of buildings may also be required to comply with these construction when established by the relevant authority or if identified as an additional bushfire protection measure within the BMP.</p> <p>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).</p>
2	<p>Building design and construction is to implement the bushfire protection measures that have been established within Section 5.7 of this BMP as measures additional to those established by the acceptable solutions.</p>
3	<p>Prior to occupancy/operation establish the 'Required' Asset Protection Zone (APZ) around habitable buildings (and other structures as required) to satisfy:</p> <ul style="list-style-type: none"> • The minimum required dimensions established in Appendix B1; and • The standards established by the Guidelines DPLH, 2021 v1.4, Schedule 1, or as varied by the local government through their annually issued firebreak / hazard reduction notice when the variations have been endorsed by the WAPC and DFES as per s4.5.3 of the Guidelines. <p>If native vegetation is required to be modified or removed, ensure that approval has been received from the relevant authority (refer to the applicable local government for advice).</p>
4	<p>Prior to occupancy, construct the private driveways and battle-axe legs to comply with the technical requirements referenced in the BMP.</p>
5	<p>Prior to occupancy, install the required firefighting static water supply to comply with the technical requirements stated in the BMP.</p>
6	<p>For the 'high risk land use' there is an outstanding obligation, created by Guidelines and consequently this Bushfire Management Plan, for a 'Bushfire Risk Assessment and Management Report' to be produced.</p> <p>Additional protection measures that have been identified in the Report, are to be incorporated into the operation's site emergency plan (produced by the operator to address all potential emergencies).</p>

6.2 Landowner / Occupier Responsibilities – Ongoing Management

LANDOWNER/OCCUPIER – ONGOING MANAGEMENT	
No.	Management Actions
1	<p>Maintain the 'Required' Asset Protection Zone (APZ) around habitable buildings (and other structures as required) to satisfy:</p> <ul style="list-style-type: none"> • The minimum required dimensions established in Appendix B1; and • The standards established by the Guidelines DPLH, 2021 v1.4, Schedule 1, or as varied by the local government through their annually issued firebreak / hazard reduction notice when the variations have been endorsed by the WAPC and DFES as per s4.5.3 of the Guidelines.
2	<p>Comply with the Shire of Merredin Firebreak and Burning Notice issued under s33 of the Bush Fires Act 1954. Check the notice annually for any changes.</p>
3	<p>Maintain vehicular access routes within the lot to comply with the technical requirements referenced in the BMP and the relevant local government's annual firebreak / hazard reduction notice.</p>
4	<p>Maintain the 288,000L static firefighting water supply tank and associated pipes/fittings/pump and vehicle hardstand in good working condition.</p>
5	<p>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 and states the indicative (or determined) BAL rating(s) that may (or will) be applied to buildings/structures.</p> <p>A BAL assessment report may be required to confirm determined ratings and will be required when ratings are indicative. BAL certificates will need to be issued to accompany building applications.</p> <p>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 residential buildings in bushfire prone areas (i.e., Class 1, 2 and 3 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).</p> <p>As an additional bushfire protection measure, other classes of buildings may also be required to comply with these construction requirements when established by the relevant authority or if identified as an additional bushfire protection measure within the BMP. The BMP may also establish that construction requirements to be applied will be those corresponding to a specified higher BAL rating. When applicable, these requirements will be identified in Section 5.7.</p>
6	<p>Ensure all future buildings the landowner has responsibility for, are designed and constructed in full compliance with:</p> <ul style="list-style-type: none"> • The bushfire resistant construction requirements of the Building Code of Australia (Volumes 1 and 2 of the National Construction Code), as established by the Building Regulations 2012 (WA Building Act 2011); and • Any additional bushfire protection measures this Bushfire Management Plan has established are to be implemented.

7	Maintain the bushfire protection measures that have been established within Section 5.7 of this BMP as measures additional to those established by the acceptable solutions.
8	The bushfire specific content of the operation's site emergency plan must be reviewed annually, relevant information updated and ensure all bushfire related preparation procedures are carried out.

6.3 Local Government Responsibilities – Ongoing Management

LOCAL GOVERNMENT – ONGOING MANAGEMENT	
No.	Management Actions
1	<p>Monitor landowner compliance with the annual Shire of Merredin Firebreak and Burning Notice and with any bushfire protection measures that are:</p> <ul style="list-style-type: none"> • Established by this BMP; • Are required to be maintained by the landowner/occupier; and • Are relevant to local government operations.
2	<p>To be aware of the potential consequences of any significant changes in the local government's management of land, of which they have vested control (including re-vegetation), that could have an adverse impact on the determined BAL ratings that apply to adjacent existing or future buildings and where:</p> <ul style="list-style-type: none"> • The 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 might reasonably be expected to potentially change in the future with regards to the classification of the vegetation being altered and/or management of the relevant area of vegetation.

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 cl 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 or vegetation managed in a minimal fuel condition, satisfying AS 3959:2018 s2.2.3.2(f), and there is sufficient justification to reasonable expect that this modified state will exist in perpetuity.



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	G. GRASSLAND				
Types Identified	Dense sown pasture G-25		Sown pasture G-26		
Effective Slope	Measured	d/slope 1 degrees	Applied Range (Method 1)	Downslope >0-5 degrees	
Foliage Cover (all layers)	N/A	Shrub/Heath Height	N/A	Tree Height	N/A
Additional Justification:	Sown pasture less than 30 centimetres in height. No trees or other overstorey cover.				
Post Development Assumptions:	Vegetation is classified as worst-case scenario.				
<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">  <p style="text-align: right; font-size: small;">-31.53818, 118.22388, 283.0m, 321° 2023-10-30 10:09:05</p> </div> <div style="width: 45%;">  <p style="text-align: right; font-size: small;">31.53808, 118.22498, 286.4m, 213° 2023-10-30 10:12:35</p> </div> </div>					
PHOTO ID: 1			PHOTO ID: 2		
<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">  <p style="text-align: right; font-size: small;">-31.53844, 118.22655, 278.6m, 347° 2023-10-30 10:26:07</p> </div> <div style="width: 45%;">  <p style="text-align: right; font-size: small;">-31.53789, 118.22825, 288.2m, 283° 2023-10-30 10:29:49</p> </div> </div>					
PHOTO ID: 3			PHOTO ID: 4		

VEGETATION AREA 2					
Classification	G. GRASSLAND				
Types Identified	Dense sown pasture G-25		Sown pasture G-26		
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
Additional Justification:	Sown pasture less than 30 centimetres in height. No trees or other overstorey cover.				
Post Development Assumptions:	Vegetation is classified as worst-case scenario.				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p style="font-size: small; color: gray;">31.5379, 118.22827, 289.0m, 93° 2023-10-30 10:30:39</p> </div> <div style="text-align: center;">  <p style="font-size: small; color: gray;">31.53888, 118.22868, 293.2m, 118° 2023-10-30 10:32:52</p> </div> </div>					
PHOTO ID: 5			PHOTO ID: 6		

VEGETATION AREA 3					
Classification	G. GRASSLAND				
Types Identified	Tussock grassland G-22				
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	Up to 30m
Additional Justification:	Unmanaged grasses approximately 1 metre in height. Scattered trees up to 10m in height for which canopy cover is <10% of the total area.				
Post Development Assumptions:	Vegetation is classified as worst-case scenario.				
					
PHOTO ID: 7			PHOTO ID: 8		
					
PHOTO ID: 9			PHOTO ID: 10		

VEGETATION AREA 4	
Exclusion Clause	2.2.3.2 (e) non-vegetated area
Additional Justification:	Non-vegetated areas include a sealed public road, sealed and sand private roads/driveways, dam, and power station.
Post Development Assumptions:	Non vegetated areas are reasonably expected to remain in a low threat state in perpetuity.
 <p style="text-align: right; font-size: small;">-31.53822, 118.22372, 284.2m, 147° 2023-10-30 10:45:26</p>	 <p style="text-align: right; font-size: small;">31.53812, 118.22501, 281.4m, 202° 2023-10-30 10:12:25</p>
PHOTO ID: 11	PHOTO ID: 12
 <p style="text-align: right; font-size: small;">-31.5379, 118.22827, 289.9m, 146° 2023-10-30 10:30:49</p>	 <p style="text-align: right; font-size: small;">31.53887, 118.22866, 292.5m, 217° 2023-10-30 10:32:39</p>
PHOTO ID: 13	PHOTO ID: 14
 <p style="text-align: right; font-size: small;">31.54021, 118.22482, 287.9m, 66° 2023-10-30 10:51:24</p>	
PHOTO ID: 15	

A1.3: EFFECTIVE SLOPE

Measuring

Effective slope refers to the slope “under the classified vegetation which most significantly influences bushfire behaviour (AS 3959:2018, clause B4, CB4). It is not the average slope.

It is described as upslope, flat or downslope when viewed from the exposed element (e.g., building) looking towards the vegetation – and measured in degrees. Ground slope has a direct and significant influence on a bushfire's rate of spread and intensity, which increases when travelling up a slope.

The slope under the vegetation in closest proximity to the exposed element(s), over the distance that will most likely carry the entire depth of the flaming front, will be a significant consideration in the determination of the effective slope. This distance is determined as a function of the potential quasi-steady rate of spread and expected residence time (i.e., the flaming combustion period at a single point on the ground), of a bushfire in the specific vegetation type/landscape scenario.

Slope Variation Within Areas of Vegetation

Where a 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.

Slope Variation Due to Multiple Development Sites

When the effective slope, under a given 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).

Differences in Application of Effective Slope - AS 3959:2018 Method 1 versus Method 2 Procedures

The Method 1 procedure provides five different slope ranges from flat (including all upslopes) to 20 degrees downslope to define the effective slope and bushfire behaviour model calculations apply the highest value in each range (i.e., 0°, 5°, 10°, 15° or 20°).

The Method 2 procedure requires an actual slope (up or down in degrees) to be determined. AS 3959:2018, clause B1 limits the effective slope that can be applied to 30 degrees downslope and 15 degrees upslope. Where any upslope is greater than 15 degrees, then 15 degrees is to be used.

SITE ASSESSMENT DETAILS - EXPLANATION & JUSTIFICATION

The effective slopes determined from the site assessment are recorded in Table 3.2 of this Bushfire Management Plan. When their derivation requires additional explanation and justification, this is provided below.

None required.

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.

A2: BAL Calculator – Copy of Input/Output Values

Method 2 principles have been used to determine Recommended APZ dimensions for the proposed infrastructure, corresponding to radiant heat flux of 10 kW/m² for Grassland vegetation types. Note that 1090K flame temperature was used because the development is not a vulnerable land use.

DETERMINING 10 kW/m² SEPARATION DISTANCES

Vegetation Classification	G. GRASSLAND		Slope: Flat 0°																																																					
 <p>Calculated November 6, 2023, 2:52 pm (MDc v.4.9)</p> <p>Grassland 0°</p> <p>Minimum Distance Calculator - AS3959-2018 (Method 2)</p> <table border="1"> <thead> <tr> <th colspan="2">Inputs</th> <th colspan="2">Outputs</th> </tr> </thead> <tbody> <tr> <td>Grassland Fire Danger Index</td> <td>110</td> <td>Rate of spread</td> <td>14.3 km/h</td> </tr> <tr> <td>Vegetation classification</td> <td>Grassland</td> <td>Flame length</td> <td>6.87 m</td> </tr> <tr> <td>Understorey fuel load</td> <td>4.5 t/ha</td> <td>Flame angle</td> <td>54 °, 64 °, 73 °, 78 °, 80 ° & 85 °</td> </tr> <tr> <td>Total fuel load</td> <td>4.5 t/ha</td> <td>Elevation of receiver</td> <td>2.78 m, 3.08 m, 3.28 m, 3.36 m, 3.38 m & 3.42 m</td> </tr> <tr> <td>Vegetation height</td> <td>n/a</td> <td>Fire intensity</td> <td>33,247 kW/m</td> </tr> <tr> <td>Effective slope</td> <td>0 °</td> <td>Transmissivity</td> <td>0.887, 0.877, 0.861, 0.841, 0.829 & 0.755</td> </tr> <tr> <td>Site slope</td> <td>0 °</td> <td>Viewfactor</td> <td>0.5823, 0.4291, 0.29, 0.1946, 0.158 & 0.0434</td> </tr> <tr> <td>Flame width</td> <td>100 m</td> <td>Minimum distance to < 40 kW/m²</td> <td>5.8 m</td> </tr> <tr> <td>Windspeed</td> <td>n/a</td> <td>Minimum distance to < 29 kW/m²</td> <td>7.9 m</td> </tr> <tr> <td>Heat of combustion</td> <td>18,600 kJ/kg</td> <td>Minimum distance to < 19 kW/m²</td> <td>11.7 m</td> </tr> <tr> <td>Flame temperature</td> <td>1,090 K</td> <td>Minimum distance to < 12.5 kW/m²</td> <td>17.3 m</td> </tr> <tr> <td></td> <td></td> <td>Minimum distance to < 10 kW/m²</td> <td>21.2 m</td> </tr> </tbody> </table> <p style="text-align: right; font-size: small;"> Rate of Spread - Noble et al. 1980 Flame length - Purton, 1982 Elevation of receiver - Douglas & Tan, 2005 Flame angle - Douglas & Tan, 2005 Radiant heat flux - Drysdale, 1999, Sullivan et al., 2003, Douglas & Tan, 2005 </p>					Inputs		Outputs		Grassland Fire Danger Index	110	Rate of spread	14.3 km/h	Vegetation classification	Grassland	Flame length	6.87 m	Understorey fuel load	4.5 t/ha	Flame angle	54 °, 64 °, 73 °, 78 °, 80 ° & 85 °	Total fuel load	4.5 t/ha	Elevation of receiver	2.78 m, 3.08 m, 3.28 m, 3.36 m, 3.38 m & 3.42 m	Vegetation height	n/a	Fire intensity	33,247 kW/m	Effective slope	0 °	Transmissivity	0.887, 0.877, 0.861, 0.841, 0.829 & 0.755	Site slope	0 °	Viewfactor	0.5823, 0.4291, 0.29, 0.1946, 0.158 & 0.0434	Flame width	100 m	Minimum distance to < 40 kW/m ²	5.8 m	Windspeed	n/a	Minimum distance to < 29 kW/m ²	7.9 m	Heat of combustion	18,600 kJ/kg	Minimum distance to < 19 kW/m ²	11.7 m	Flame temperature	1,090 K	Minimum distance to < 12.5 kW/m ²	17.3 m			Minimum distance to < 10 kW/m ²	21.2 m
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Required vegetation separation distance:	21.2 metres																																																							

Vegetation Classification	G. GRASSLAND	Slope: Downslope 1°
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Calculated November 6, 2023, 2:53 pm (MDc v.4.9)

Grassland 1°

Minimum Distance Calculator - AS3959-2018 (Method 2)			
Inputs		Outputs	
Grassland Fire Danger Index	110	Rate of spread	15.32 km/h
Vegetation classification	Grassland	Flame length	7.11 m
Understorey fuel load	4.5 t/ha	Flame angle	55 °, 65 °, 74 °, 79 °, 81 ° & 86 °
Total fuel load	4.5 t/ha	Elevation of receiver	2.8 m, 3.08 m, 3.2 m, 3.17 m, 3.13 m & 2.48 m
Vegetation height	n/a	Fire intensity	35,622 kW/m
Effective slope	1 °	Transmissivity	0.887, 0.876, 0.859, 0.839, 0.827 & 0.754
Site slope	1 °	Viewfactor	0.5878, 0.4304, 0.2888, 0.195, 0.1583 & 0.0434
Flame width	100 m	Minimum distance to < 40 kW/m ²	5.9 m
Windspeed	n/a	Minimum distance to < 29 kW/m ²	8.1 m
Heat of combustion	18,600 kJ/kg	Minimum distance to < 19 kW/m ²	12.1 m
Flame temperature	1,090 K	Minimum distance to < 12.5 kW/m ²	17.8 m
		Minimum distance to < 10 kW/m ²	21.8 m

Rate of Spread - Noble et al. 1980

Flame length - Purton, 1982

Elevation of receiver - Douglas & Tan, 2005

Flame angle - Douglas & Tan, 2005

Radiant heat flux - Drysdale, 1999, Sullivan et al., 2003, Douglas & Tan, 2005

Required vegetation separation distance:	21.8 metres
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APPENDIX B: ADVICE - ONSITE VEGETATION MANAGEMENT - THE APZ

THE ASSET PROTECTION ZONE (APZ) - DESCRIPTION

This is an area surrounding a habitable building containing low threat fire fuel fuels (including vegetation), or vegetation managed in a minimal fuel condition, no fire fuels or any combination. The primary objectives include:

- To ensure the building is sufficiently separated from the bushfire hazard to limit the impact of its direct attack mechanisms. That is, the dimensions of the APZ will, for most site scenarios, remove the potential for direct flame contact on the building, reduce the level of radiant heat to which the building is exposed and ensure some reduction in the level of ember attack (with the level of reduction being dependent on the vegetation types of present);
- To ensure any vegetation retained within the APZ is low threat and/or is managed in a minimum fuel condition and prevents surface fire spreading to the building;
- To ensure other combustible materials that can result in consequential fire (typically ignited by embers) within both the APZ and parts of the building, are eliminated, minimised and/or appropriately located or protected. (Note: The explanatory notes in the Guidelines provide some guidance for achieving this objective and other sources are available. Research shows that consequential fire, ignited by embers, is the primary cause of building loss in past bushfire events); and
- To provide a defensible space for firefighting activities.

B1: Asset Protection Zone (APZ) Dimensions

APZ DIMENSIONS – DIFFERENCES IN REQUIREMENTS FOR PLANNING ASSESSMENTS COMPARED TO IMPLEMENTATION

THE 'PLANNING BAL-29' APZ DIMENSIONS

The 'Planning BAL-29' APZ is not necessarily the size of the APZ that must be physically implemented and maintained by a landowner. Rather, its purpose is to identify if an acceptable solution for planning approval can be met i.e., can a specified minimum separation distance from bushfire prone vegetation exist.

An assessment against the Bushfire Protection Criteria is conducted for planning approval purposes. To satisfy 'A2.1: Asset Protection Zone', it must be demonstrated that certain minimum separation distances between the relevant building/structure and different classes of bushfire prone vegetation, either exist or can be created and will remain in perpetuity. These minimum separation distances determine the 'Planning BAL-29' APZ dimensions.

Dimensions: The minimum dimensions are those that will ensure the potential radiant heat impact on subject buildings does not exceed 29 kW/m². These dimensions will vary dependent on the vegetation classification, the slope of the land they are growing on and certain other factors specific to the subject site.

Note: For certain purposes associated with vulnerable land uses, the 'Planning BAL-29' APZ may be replaced with dimensions corresponding to radiant heat impact levels of 10 kW/m² and 2 kW/m² and calculated using 1200K flame temperature.

Location: The identified 'Planning BAL-29' APZ must not extend past lot boundaries onto land the landowner has no control over either now or potentially at some point in the future. Limited exceptions include:

- When adjoining land is not vegetated (e.g., built out, roads, carparks, drainage, rock, water body etc.);
- When adjoining land currently or, will in the short term, contain low threat vegetation and or vegetation managed in a minimal fuel condition as per AS 3959:2018 cl. 2.2.3.2. It must be reasonable (justifiable) to expect this low threat vegetation and/or level of management will continue to exist or be conducted in perpetuity and require no action from the owner of the subject lot.

Such areas of land include formally managed areas of vegetation (e.g., public open space / recreation areas / services installed in a common section of land). For specific scenarios, evidence of the formal

commitment to manage these areas to a certain standard may be required and would be included in the BMP.

These areas of land can also be part of the required APZ on a neighbouring lot for which the owner of that lot has a recognised responsibility to establish and maintain; and

- When there is a formalised and enforceable capability and responsibility created for the subject lot owner, or any other third party, to manage vegetation on land they do not own in perpetuity. This would be rare, and evidence of the formal authority would be included in the BMP.

The bushfire consultant's 'Supporting Assessment Detail', that is presented in the assessment against the acceptable solution A2.1, will identify and justify how any adjoining land within the 'Planning BAL-29 APZ will meet the APZ standards. Or otherwise, explain how this condition cannot be met.

THE 'BAL RATING' APZ DIMENSIONS

The applicable BAL rating will have been stated in the BAL Assessment Data section of the BAL Assessment Report or BMP (as relevant). The BAL rating can be assessed as 'determined' or 'indicative' or be 'conditional', dependent of the specific conditions associated with the site and the stage of assessment or planning. It is the eventual assessment of the 'Determined' BAL that will establish both the BAL rating that is to apply and its corresponding 'BAL Rating' APZ dimensions.

Dimensions: The minimum dimensions of the 'BAL Rating' APZ to be established and maintained will be those that correspond to the determined BAL rating for the subject building/structure that has accounted for surrounding vegetation types, the slope of the land they are growing on and certain other factors specific to the subject site and surrounding land.

Establishing the 'BAL Rating' APZ will ensure that the potential radiant heat exposure of the building/structure will be limited to the level that the applied construction requirements are designed to resist when that building/structure is required to be constructed to the standard corresponding to the Determined BAL.

Note: For certain purposes associated with vulnerable land uses, the 'BAL Rating' APZ dimensions may be replaced with dimensions corresponding to the specific radiant heat impact levels of 10 kW/m² and 2 kW/m² and calculated using 1200K flame temperature.

Location: The same conditions will apply as for the 'Planning BAL-29' APZ.

THE 'LOCAL GOVERNMENT' APZ DIMENSIONS

Some Local Government's establish the dimensions of the APZ that must be established surrounding buildings in their annual Firebreak/Hazard Reduction Notice. Or for a specific site they may establish a maximum allowable dimension (typically that corresponding to BAL-29). When established, the landowner will need to be comply with these.

THE 'REQUIRED' APZ DIMENSIONS

This is the APZ that is to be established and maintained by the landowner within the subject lot and surrounding the subject building(s). It will be identified on the Property Bushfire Management Statement when it is required to be included in this Report/Plan.

Dimensions: The 'Required APZ' dimensions are the minimum (or maximum when relevant) distances away from the subject building(s) that the APZ must extend. These distances will not necessarily be the same all around the building(s). They can vary and are dependent on the different vegetation types (and their associated ground slope) that can exist around the building(s), and specific local government requirements. The dimensions to implement are determined by:

- A. The 'BAL Rating APZ' of the subject building(s) when distances are greater than 'B' below (except when 'B' establishes a maximum distance); or
- B. The 'Local Government' APZ' derived from the Firebreak/Hazard Reduction Notice when distances are greater than 'A' above, other than when a maximum distance is established, in which case this will apply; or
- C. A combination of 'A' and 'B'.

Location: The same conditions will apply as for the 'Planning BAL-29' APZ.

B1.1: THE APZ DIMENSIONS REQUIRED TO BE IMPLEMENTED BY THE LANDOWNER

DETERMINATION OF THE 'REQUIRED' APZ DIMENSIONS TO BE IMPLEMENTED AND MAINTAINED BY LANDOWNER WITHIN THEIR LOT										
Relevant Buildings(s)	Vegetation Classification [Refer to Fig 3.1]		Minimum Required Separation Distances from Building to Vegetation (metres)							The 'Required' APZ Dimensions [see note]
			Established by the 'BAL Rating' APZ Dimension				Established by the "Local Government" APZ Dimension		Maximum Allowed	
	Area	Class	Determined Radiant Heat Impact	Stated 'Indicative' or 'Conditional' BAL				Firebreak / Hazard Reduction Notice		
				BAL-29	BAL-19	BAL-12.5	BAL-LOW			
BESS Cabinets and associated infrastructure	1	(G) Grassland	10 kW/m2	9-<14	14-<20	20-<50	>50	Rural Land: 'Install firebreaks to a width of twenty (20) metres around all buildings, hay sheds and fuel storage areas on the land'	N/A	22
	2	(G) Grassland		8-<12	12-<17	17-<50	>50			22
	3	(G) Grassland		8-<12	12-<17	17-<50	>50			22
	4	Excluded cl 2.2.3.2(e)		-	-	-	-			-
Substation	1	(G) Grassland	BAL-29	9-<14	14-<20	20-<50	>50	Rural Land: 'Install firebreaks to a width of twenty (20) metres around all buildings, hay sheds and fuel storage areas on the land'	N/A	9
	2	(G) Grassland		8-<12	12-<17	17-<50	>50			8
	3	(G) Grassland		8-<12	12-<17	17-<50	>50			8
	4	Excluded cl 2.2.3.2(e)		-	-	-	-			-

Note: The 'Required' APZ Dimension corresponding to each area of vegetation is the greater of the 'BAL Rating' or the 'Firebreak/Hazard Reduction Notice' APZ dimensions - unless a local government maximum distance(s) is established as a result of their environmental assessment of the subject site. The area of the APZ will also be limited to the subject lot boundary unless otherwise justified in this Report/Plan. Final determination of the dimensions will require that any indicative or conditional BAL becomes a 'Determined' BAL.

Comments: The Shire of Merredin Firebreak and Burning Notice suggests a 20m APZ around specific buildings that do not include the particular infrastructure within this report, therefore it is suggested to follow the recommendations and requirements outlined within this BMP.

B2: The Standards for the APZ as Established by the Guidelines (DPLH, v1.4)

Within the Guidelines (source: <https://www.wa.gov.au/government/document-collections/state-planning-policy-37-planning-bushfire-prone-areas>), the management Standards are established by:

- Schedule 1: Standards for Asset Protection Zones (see extract below) established by the Guidelines; and
- The associated explanatory notes (Guidelines E2) that address (a) managing an asset protection zone (APZ) to a low threat state (b) landscaping and design of an asset protection zone and (c) plant flammability.

Guidelines for
Planning in
Bushfire
Prone Areas

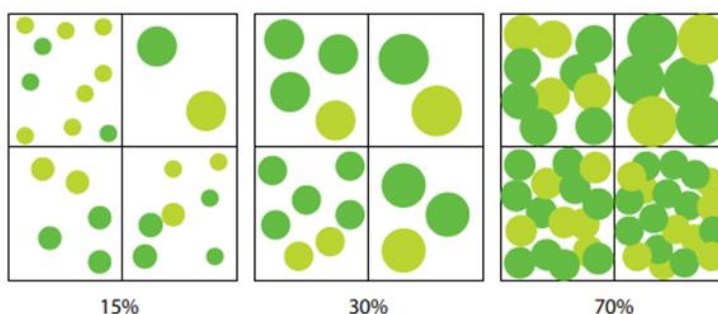
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ELEMENT 2: SITING AND DESIGN OF DEVELOPMENT

SCHEDULE 1: STANDARDS FOR ASSET PROTECTION ZONES

OBJECT	REQUIREMENT
Fences within the APZ	<ul style="list-style-type: none"> • Should be constructed from non-combustible materials (for example, iron, brick, limestone, metal post and wire, or bushfire-resisting timber referenced in Appendix F of AS 3959).
Fine fuel load (Combustible, dead vegetation matter <6 millimetres in thickness)	<ul style="list-style-type: none"> • Should be managed and removed on a regular basis to maintain a low threat state. • Should be maintained at <2 tonnes per hectare (on average). • Mulches should be non-combustible such as stone, gravel or crushed mineral earth or wood mulch >6 millimetres in thickness.
Trees* (>6 metres in height)	<ul style="list-style-type: none"> • Trunks at maturity should be a minimum distance of six metres from all elevations of the building. • Branches at maturity should not touch or overhang a building or powerline. • Lower branches and loose bark should be removed to a height of two metres above the ground and/or surface vegetation. • Canopy cover within the APZ should be <15 per cent of the total APZ area. • Tree canopies at maturity should be at least five metres apart to avoid forming a continuous canopy. Stands of existing mature trees with interlocking canopies may be treated as an individual canopy provided that the total canopy cover within the APZ will not exceed 15 per cent and are not connected to the tree canopy outside the APZ.

Figure 19: Tree canopy cover – ranging from 15 to 70 per cent at maturity



<p>Shrub* and scrub* (0.5 metres to six metres in height). Shrub and scrub >6 metres in height are to be treated as trees.</p>	<ul style="list-style-type: none"> • Should not be located under trees or within three metres of buildings. • Should not be planted in clumps >5 square metres in area. • Clumps should be separated from each other and any exposed window or door by at least 10 metres.
<p>Ground covers* (<0.5 metres in height. Ground covers >0.5 metres in height are to be treated as shrubs)</p>	<ul style="list-style-type: none"> • Can be planted under trees but must be maintained to remove dead plant material, as prescribed in 'Fine fuel load' above. • Can be located within two metres of a structure, but three metres from windows or doors if >100 millimetres in height.
<p>Grass</p>	<ul style="list-style-type: none"> • Grass should be maintained at a height of 100 millimetres or less, at all times. • Wherever possible, perennial grasses should be used and well-hydrated with regular application of wetting agents and efficient irrigation.
<p>Defendable space</p>	<ul style="list-style-type: none"> • Within three metres of each wall or supporting post of a habitable building, the area is kept free from vegetation, but can include ground covers, grass and non-combustible mulches as prescribed above.
<p>LP Gas Cylinders</p>	<ul style="list-style-type: none"> • Should be located on the side of a building furthest from the likely direction of a bushfire or on the side of a building where surrounding classified vegetation is upslope, at least one metre from vulnerable parts of a building. • The pressure relief valve should point away from the house. • No flammable material within six metres from the front of the valve. • Must sit on a firm, level and non-combustible base and be secured to a solid structure.

* Plant flammability, landscaping design and maintenance should be considered – refer to explanatory notes

B3: The Standards for the APZ as Established by the Local Government

Refer to the firebreak / hazard reduction notice issued annually (under s33 of the Bushfires Act 1954) by the relevant local government. It may state Standards that vary from those established by the Guidelines and that have been endorsed by the WAPC and DFES as per Section 4.5.3 of the Guidelines.

A copy of the applicable notice is not included here as they are subject to being reviewed and modified prior to issuing each year. Refer to ratepayers notices and/or the local government's website for the current version.

B4: Vegetation and Areas Excluded from Classification - Ensure Continued Exclusion

AS 3959:2018 establishes the methodology for determining a bushfire attack level (BAL). The methodology includes the classification of the subject site's surrounding vegetation according to their 'type' and the application of the corresponding relevant bushfire behaviour models to determine the BAL.

Certain vegetation can be considered as low threat or managed in a minimal fuel condition and can be excluded from classification. Where this has occurred in assessing the site, the extract from AS3959:2018 below states the requirements that must continue to exist for the vegetation on those areas of land to be excluded from classification (including the size of the vegetation area if relevant to the assessment).

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AS 3959:2018

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.

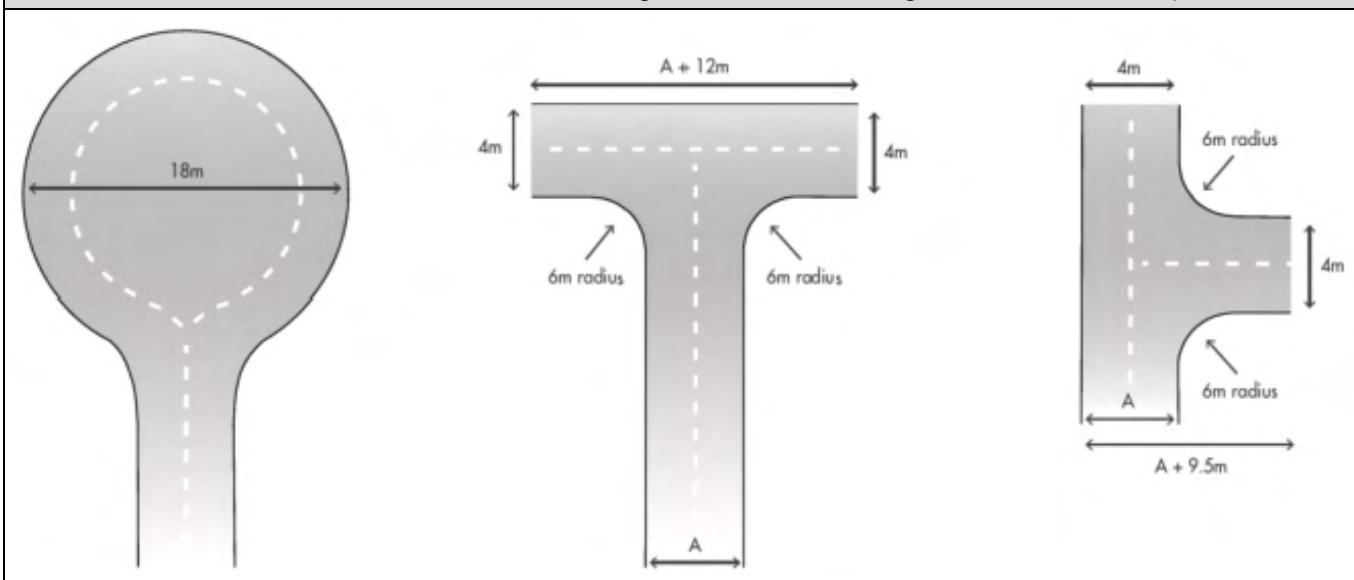
APPENDIX C: TECHNICAL REQUIREMENTS FOR VEHICULAR ACCESS

The design/layout requirements for access are established by the acceptable solutions of the Guidelines (DPLH, 2021 v1.4) Element 3 and vary dependent on the access component, the land use and the presence of 'vulnerable' persons. Consequently, the best reference source are the Guidelines. The technical requirements that are fixed for all components and uses are presented in this appendix.

GUIDELINES TABLE 6, EXPLANATORY NOTES E3.3 & E3.6 AND RELEVANT ACCEPTABLE SOLUTIONS

Technical Component	Vehicular Access Types / Components			
	Public Roads	Emergency Access Way ¹	Fire Service Access Route ¹	Battle-axe and Private Driveways ²
Minimum trafficable surface (m)	In accordance with A3.1	6	6	4
Minimum Horizontal clearance (m)	N/A	6	6	6
Minimum Vertical clearance (m)	4.5			
Minimum weight capacity (t)	15			
Maximum Grade Unsealed Road ³	As outlined in the IPWEA Subdivision Guidelines	1:10 (10%)		
Maximum Grade Sealed Road ³		1:7 (14.3%)		
Maximum Average Grade Sealed Road		1:10 (10%)		
Minimum Inner Radius of Road Curves (m)		8.5		

Turnaround Area Dimensions for No-through Road, Battle-axe Legs and Private Driveways ⁴



Passing Bay Requirements for Battle-axe leg and Private Driveway

When the access component length is greater than the stated maximum, passing bays are required every 200m with a minimum length of 20m and a minimum additional trafficable width of 2m (i.e. the combined trafficable width of the passing bay and constructed private driveway to be a minimum 6m).

Emergency Access Way – Additional Requirements

Provide a through connection to a public road, be no more than 500m in length, must be signposted and if gated, gates must be open the whole trafficable width and remain unlocked.

¹ To have crossfalls between 3 and 6%.

² Where driveways and battle-axe legs are not required to comply with the widths in A3.5 or A3.6, they are to comply with the Residential Design Codes and Development Control Policy 2.2 Residential Subdivision.

³ Dips must have no more than a 1 in 8 (12.5% or 7.1 degree) entry and exit angle.

⁴ The turnaround area should be within 30m of the main habitable building.

APPENDIX D: TECHNICAL REQUIREMENTS FOR FIREFIGHTING WATER SUPPLY

D1: Non-Reticulated Areas – Static Supply

For specified requirements, refer to the Guidelines Element 4: Water – Acceptable Solution A4.2 , Explanatory Notes E4 (that provide water supply establishment detail under the headings of water supply; independent water and power supply; strategic water supplies, alternative water sources and location of water tanks) and the technical requirements established by Schedule 2 (reproduced below).

SCHEDULE 2: WATER SUPPLY DEDICATED FOR BUSHFIRE FIREFIGHTING PURPOSES

2.1 Water supply requirements

Water dedicated for firefighting should be provided in accordance with Table 7 below, and be in addition to water required for drinking purposes.

Table 7: Water supply dedicated for bushfire firefighting purposes

PLANNING APPLICATION	NON-RETICULATED AREAS
Development application	10,000L per habitable building
Structure Plan / Subdivision: Creation of 1 additional lot	10,000L per lot
Structure Plan / Subdivision: Creation of 3 to 24 lots	10,000L tank per lot or 50,000L strategic water tank
Structure Plan / Subdivision: Creation of 25 lots or more	50,000L per 25 lots or part thereof Provided as a strategic water tank(s) or 10,000L tank per lot

2.2 Technical requirements

2.2.1 Construction and design

An above-ground tank and associated stand should be constructed of non-combustible material. The tank may need to comply with AS/NZS 3500.1:2018.

Below ground tanks should have a 200mm diameter access hole to allow tankers or emergency service vehicles to refill direct from the tank, with the outlet location clearly marked at the surface. The tank may need to comply with AS/NZS 3500.1:2018. An inspection opening may double as the access hole provided that the inspection opening meets the requirements of AS/NZS 3500.1:2018. If the tank is required under the BCA as part of fire hydrant installation, then the tank will also need to comply with AS 2419.

Where an outlet for an emergency service vehicle is provided, then an unobstructed, hardened ground surface is to be supplied within four metres of any water supply.

2.2.2 Pipes and fittings

All above-ground, exposed water supply pipes and fittings should be metal. Fittings should be located away from the source of bushfire attack and be in accordance with the applicable section below, unless otherwise specified by the local government.

2.2.2.1 Fittings for above-ground water tanks:

- Commercial land uses: 125mm Storz fitting; or
- Strategic water tanks: 50mm or 100mm (where applicable and adapters are available) male camlock coupling with full flow valve; or
- Standalone water tanks: 50mm male camlock coupling with full flow valve; or
- Combined water tanks: 50mm male camlock coupling with full flow valve or a domestic fitting, being a standard household tap that enables an occupant to access the water supply with domestic hoses or buckets for extinguishing minor fires.

2.2.2.2 Remote outlets

In certain circumstances, it may be beneficial to have the outlet located away from the water supply. In such instances in which a remote outlet is to be used, the applicant should consult the local government and DFES on their proposal.

EXAMPLE CONSTRUCTION AND FITTINGS



Strategic 47,000 Litre Concrete Tank & Protected Fittings



10,000 Litre Concrete Tank



Storz and Camlock Couplings



Full Flow 50mm Ball Valve

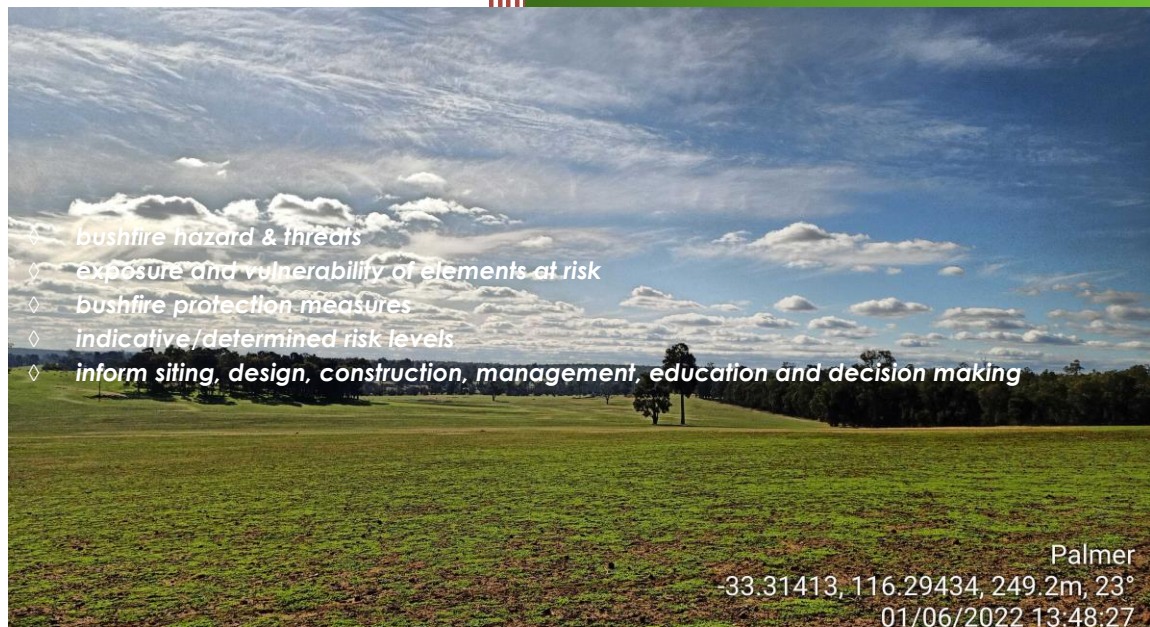


Full Flow 50mm Gate Valve and Male Camlock



Merredin Battery Facility

Bushfire Risk Assessment & Management Report



Produced to meet the relevant requirements of STATE PLANNING POLICY 3.7 Planning in Bushfire Prone Areas & Guidelines

Lot 5 Robartson Road, Merredin


Shire of Merredin

Job Reference No: 169042

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Limitations: The protection measures contained in this Bushfire Risk – Assessment and Management Report, are considered to be minimum requirements and they do not guarantee that buildings or infrastructure will not be damaged in a bushfire, persons injured, or fatalities occur either on the subject site or off the site while evacuating. This is substantially due to the unpredictable nature and behaviour of fire and fire weather conditions. Additionally, the correct implementation of the recommended protection measures will depend upon, among other things, the ongoing actions of the landowners and/or operators over which Bushfire Prone Planning has no control.

All surveys, forecasts, projections and recommendations made in this report associated with the proposed development are made in good faith based on information available to Bushfire Prone Planning at the time. All maps included herein are indicative in nature and are not to be used for accurate calculations.

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1 REPORT USE GUIDANCE - FOR MANAGERS & DECISION MAKERS

LOCATION OF KEY INFORMATION	
The applied <u>risk assessment process</u> as pre-requisite reading to assist with understanding the assessments and the presentation of the results.	Section 2 and Appendix 1
The assessed <u>bushfire risk levels</u> and the relative contribution of each primary factor contributing to that risk.	Section 3
The <u>recommended additional bushfire protection measures</u> and their implementation priority rating.	Section 4.1
Any Identified <u>additional issues and advice</u> provided for consideration by management.	Section 4.2

SECTION 5 - THE ASSESSMENT OF BUSHFIRE RISK

For the proposed Merredin Battery proposal, the risk assessment derives defined levels of risk associated with a bushfire event within the immediate and broader surrounding landscape, to the identified elements at risk (i.e., relevant classes of persons and property).

The adopted assessment approach applies a methodology that considers bushfire risk to be determined as a consequence of the interaction of three factors:

1. The bushfire hazard (which presents varying threats and threat levels);
2. The levels of exposure of each element at risk to those threats; and
3. The levels of vulnerability of each element at risk to those threats.

The assessment considers both the current level of risk (inherent), and the potential level of risk (residual) should proactive management be able to implement the recommended additional bushfire protection measures.

The assessment is largely qualitative in nature but incorporates quantitative processes and information when relevant and available. This results in the derivation of 'indicative' bushfire risk levels.

The assessment is conducted by a bushfire planning consultant with practical bushfire event management experience and relevant accreditation. An important objective is to present understandable and practical protection measures that are able to be justifiably applied by management.

SECTION 6 - THE ASSESSMENT OF BUSHFIRE RISK MANAGEMENT

Assessments are conducted that consider how well two defined pathways for implementing both the required and any additionally recommended bushfire protection measures, are being applied. Guidance for best practice application of these measures is provided. The two pathways are:

1. The application of 'informative' risk management mechanisms which include:
 - a. The organised application and maintenance of all applicable bushfire protection measures through a range of operational documents, as relevant to a site and its use; and
 - b. The development and application of advice to inform management's planning of future modifications and/or development of a site and its use. This is necessary where bushfire risk mitigation measures are necessary inputs to design and construction.
2. The application of 'regulatory' risk management mechanisms that are to be complied with. These include operating and construction regulations and standards, and relevant planning authority guidelines/standards.

2 INTRODUCTION

2.1 THE ASSET (DEVELOPMENT) AND/OR USE SUBJECT TO ASSESSMENT

Bushfire Prone Planning has been engaged by Land Insights to produce a bushfire risk assessment and management report, specifically for the development of the Merredin Battery, a battery storage initiative proposed approximately 6.50km south west of the Merredin townsite.

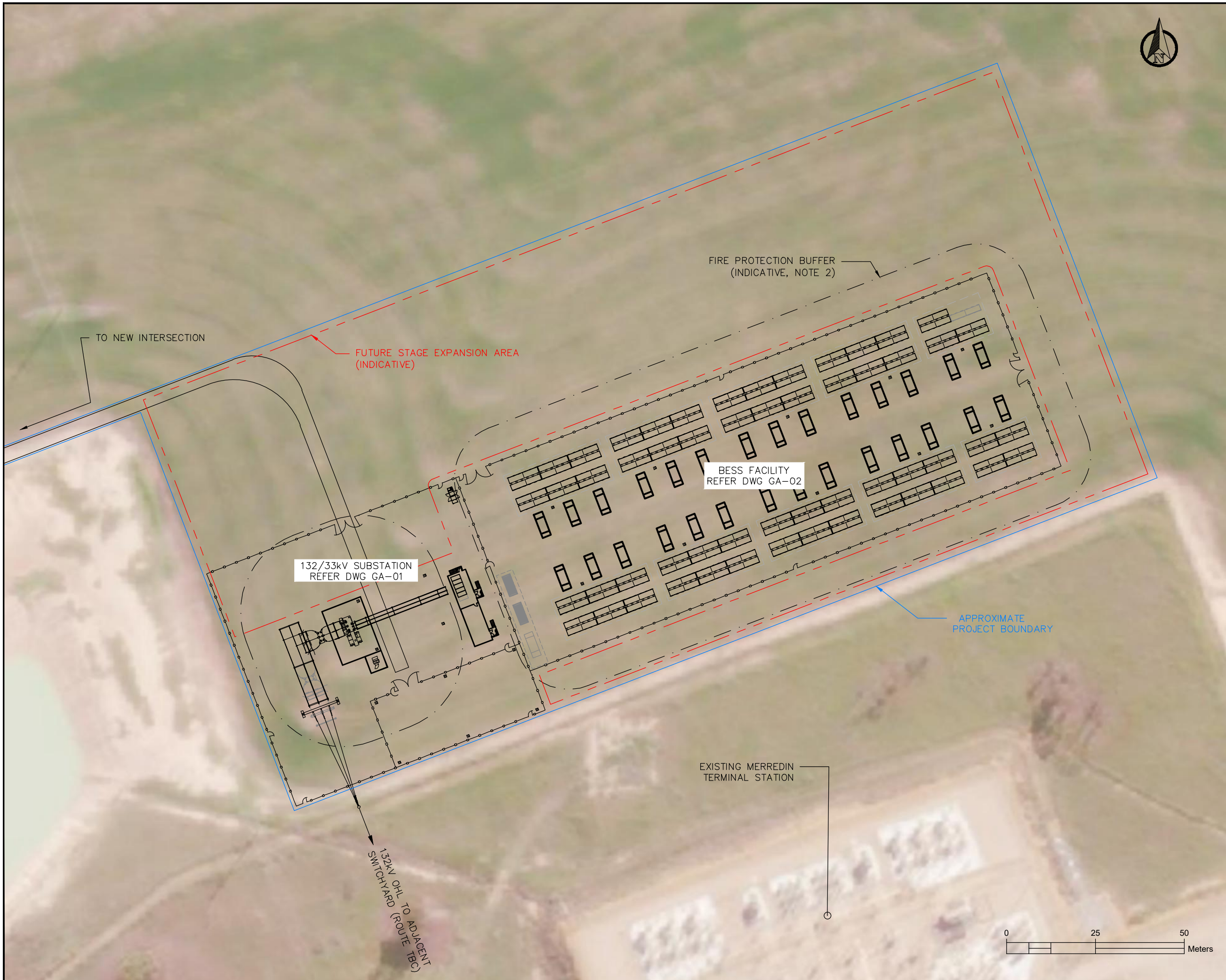
The site is intended to be unstaffed, except for inspection and maintenance visits.

Merredin Battery will connect to Western Power's network via the neighbouring station to the south.



NOTES:

1. CONCEPT ONLY, SUBJECT TO CHANGE DURING DETAILED DESIGN.
2. PLANT & EQUIPMENT DIMENSIONS INDICATIVE, PROJECT AREA MAY EXPAND. SETBACKS AND OVERALL FOOTPRINT TO BE ADJUSTED WITHIN PROJECT BOUNDARY FOLLOWING DETAILED FIRE STUDY.
3. CAR PARKING, EARTHWORKS, INTERSECTION UPGRADES, DRAINAGE, EARTHING, PITS, CULVERTS, SPARE PARTS STORAGE AND TEMP CONSTRUCTION COMPOUND NOT SHOWN.
4. FIRE WATER ASSUMED CO-LOCATED WITH EXISTING SOLAR FARM.



A	FIRST DRAWN (CONCEPT)	ABC	19.10.23
REV:	DESCRIPTION:	BY:	DATE:

STATUS: NOT FOR CONSTRUCTION

BRIGHTLY ENERGY	NOMAD ENERGY
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PROJECT: MERREDIN BESS

TITLE: OVERALL PROJECT GENERAL ARRANGEMENT PLAN

SCALE AT A3: 1:1000	DRAWN: ABC	CHECKED: -	APPROVED: -
PROJECT NO: NMD01	DRAWING NO: MBB-GA-00	REVISION: A	

2.2 THE RISK ASSESSMENT OBJECTIVES

Establishing the objectives directs the way the assessment process is conducted, and the type of information reported. Relevant objectives are typically determined by the applicability of one or more of the following three key factors:

1. The type of proposed or existing development. This can include:
 - a) Construction or modification of buildings, structures and infrastructure assets; or
 - b) Subdivision of land.
2. The type of proposed or ongoing land use. This can include:
 - a) Those defined as industrial, commercial or residential; and
 - b) Including those that have a planning classification of 'high risk' or 'vulnerable' - including tourism and event uses.
3. The relevant stage of planning. This can include but is not limited to:
 - a) An existing development and/or use for which an assessment of the necessity for and the potential to improve bushfire resilience is conducted and the consequent lowering of the associated risks identified.
 - b) At the strategic planning stage of new development/use when final details of the proposed development/use are not fully known and therefore relevant protection measures can potentially be identified and incorporated into design.
 - c) At the final planning stage that requires approval or a 'decision to proceed'. All relevant details of the proposed development/use are known. The requirement at this stage is to inform decision makers by providing an assessment of the residual bushfire risk.

The primary objectives for the subject development and/or use are collated as a summary in Table 2.1.

Table 2.1: Identifying the risk assessment objectives for the subject development/use.

RISK ASSESSMENT OBJECTIVES - INFORMATION TO BE DERIVED
<p>Identify: The types of bushfire prone vegetation (considering factors that include components, arrangement and fuel loads), that exist onsite and offsite.</p>
<p>Determine: The relative threat levels each bushfire hazard attack mechanism (direct and indirect) presents. Determine if the broader physical landscape surrounding the subject development/use has the potential to increase or decrease the levels of those threats.</p>
<p>Identify: All at risk physical elements that are exposed to the potential threats of the bushfire hazard.</p>
<p>Identify: Assets that owners/operators are prepared to lose from consequential fire resulting from a bushfire event, rather than apply sufficient protection measures i.e., the asset loss risk is to be retained. This may be due to cost or practicability. Consideration the consequent risk from asset abandonment and the availability of person risk mitigation measures.</p>
<p>Identify: All at risk human elements that are exposed to the potential threats of the bushfire hazard.</p>
<p>Identify: Bushfire protection measures that have or can be applied to reduce bushfire hazard threat levels to the greatest extent allowable and practicable.</p>
<p>Identify: Bushfire protection measures that have or can be applied to reduce the exposure and vulnerability of buildings/structures, infrastructure and other physical assets, to the potential threats of the bushfire hazard. The intent being to increase asset resilience to the threats to the greatest extent practicable.</p>

RISK ASSESSMENT OBJECTIVES - INFORMATION TO BE DERIVED

Identify: Bushfire protection measures that have or can be applied to reduce the exposure and vulnerability of persons to the potential threats of the bushfire hazard to the greatest extent practicable.

Applicable to New Development and/or Use: Inform relevant persons (planners / designers / operators / owners), at the appropriate planning stage, of available bushfire protection measures to be incorporated into siting, design, construction, education and management, to optimise bushfire performance.

Identify site specific protection measures, from the defined sets of bushfire protection measure principles, that have the potential to be applied as a package of protection measures. The intent is to achieve at least a tolerable level of risk to persons and property by ensuring that:

- Buildings, structures and other physical assets are resilient against bushfire hazard threats, to the greatest extent practicable.
- Persons have their exposure and vulnerability to bushfire hazard threats reduced, to the greatest extent practicable.

Provide implementation advice as necessary.

Applicable to Existing Development and/or Use: Inform relevant persons (planners / designers / operators / owners), regarding the current levels of asset resilience to bushfire threats and person safety to identify the inherent level of risk from a bushfire event.

Identify protection measures that can be implemented to improve resilience and safety and result in a lower residual risk.

Assess the standard of the current application of any protection measures and provide recommendations to improve as necessary.

Identify site specific protection measures (from the defined sets of bushfire protection measure principles) that have the potential to be applied as a package of protection measures to:

- Improve the bushfire resilience of buildings, structures and other physical assets to the greatest extent practicable; and
- Reduce persons exposure and vulnerability to bushfire hazard threats to the greatest extent practicable.

Provide implementation advice as necessary.

Assess: The indicative residual risk levels to inform planners / designers / operators / owners and/or relevant decision makers.

This is to be achieved through the application of the following information that has been established by the bushfire consultant:

- The process for determining relative threat, exposure and vulnerability levels;
- the indicative risk matrix; and
- the risk tolerance scale.

(Refer to Section 2.3.4, Appendix 2 and the glossary for additional information).

2.3 THE APPLIED RISK ASSESSMENT PROCESS

2.3.1 THE DEFINITION OF RISK

For the applied risk assessment process, the relevant risks are the potential for loss of life, injury, or destroyed or damaged assets which results in personal loss and economic loss due to disruption of services and/or repair or replacement of buildings and infrastructure. The source of the risk is either the bushfire as a natural hazard, or onsite activity/accident which may result in onsite fire.

2.3.2 THE ASSESSMENT PROCESS (FRAMEWORK)

To conduct and report the risk assessment process, Bushfire Prone Planning has adapted the understanding of disaster risk as described by the United Nations Office for Disaster Risk Reduction (UNDRR) and shown in Figure 2.2.

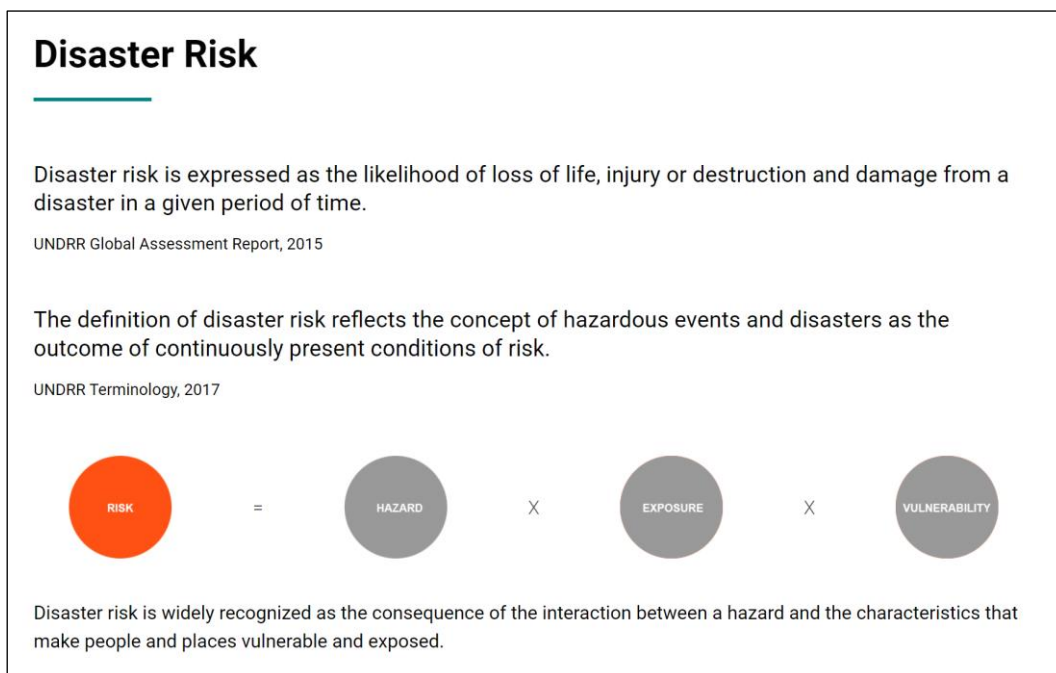


Figure 2.2: Understanding disaster risk (Source: United Nations Office for Disaster Risk Reduction [46]).

Although the UNDRR approach is designed to address disaster risk at large scale strategic levels, it can justifiably be applied to all scales of planning because it is focused on natural hazards and establishes a concept that can be readily adapted. The rationale for adopting this approach, rather than the methodology established by the National Emergency Risk Assessment Guidelines (AIDR 2020, NERAG), is provided in Appendix 1.

Also utilised within this assessment approach are relevant principles and measures to be applied in the development of bushfire risk mitigation strategies that are detailed in the Bushfire Verification Method Handbook [14].

PROCESS OVERVIEW

The risk presented by a natural hazard (such as a bushfire) is a consequence of the interaction between the potential threats associated with the hazard and the exposure and vulnerability of any elements at risk from those threats (the 'exposed elements').

The application of available protection measures will lower the risk by:

1. Reducing the number and/or level of the hazard threats; and/or
2. Reducing the level of exposure and/or vulnerability of the elements at risk.

Figure 2.3 illustrates the framework of the adapted risk assessment process (refer to the glossary for terminology information and Appendix 2 provides greater detail of the risk analysis component of the assessment process).

THE FRAMEWORK OF BUSHFIRE PRONE PLANNING'S APPLIED RISK ASSESSMENT PROCESS

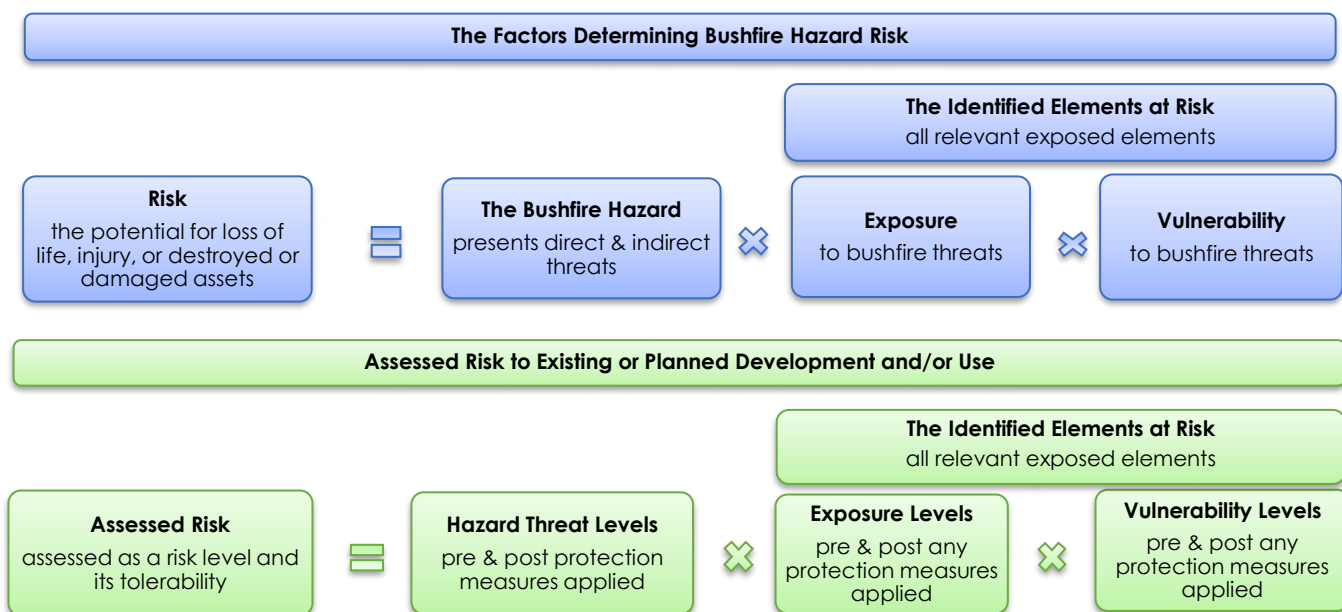


Figure 2.3: Framework of the applied risk assessment process.

2.3.3 RISK LEVEL ANALYSIS

(Refer to Appendix 2 and 3 and the Glossary for additional information.)

When the derivation of risk levels is a stated assessment objective, the risk analysis will derive a risk level as a summary outcome. The required risk level analysis can be conducted for either each exposed element separately and/or the proposed or existing development/use overall.

The risk level can be reported as either indicative or determined:

- **Indicative Risk Level:** This is derived based on a comparison of the numbers of protection measures able to be applied with the number of possible measures in the protection measure 'universe'. Appropriate weighting is given to the level of effectiveness of each of the measures. The intent is to provide a qualitative understanding of the level of risk that exists, to assist with making the required decisions.
- **Determined Risk Level:** This is derived using defined sets of risk factor criteria that correspond to each hazard threat level, exposure level and vulnerability level, for the elements at risk. Subsequently, how these defined levels are then applied to establish a determined risk level and its tolerability, is defined by an accepted risk level matrix and risk tolerance scale.

The risk factor criteria must reflect societies preparedness to tolerate risk and should be determined by regulatory authorities exercising their responsibilities. The criteria will vary dependent on development/use type and scale.

Consequently, the risk factor criteria (and potentially the risk level matrix and risk tolerance scale) need to be defined by the regulatory authorities before they can be applied in assessing a determined risk level.

Dependent on the stage of development/use, or to meet differing assessment objectives, the risk level can also be reported as:

- **Inherent Risk:** As the current risk when the assessment has only accounted for the bushfire protection measures that are either already in place (for existing development/use), or are planned to be incorporated into the proposed development/use; or
- **Residual Risk:** As the remaining risk when the assessment has also accounted for the application of any additional protection measures recommended by this report. If there are none, the residual risk is the same as the inherent risk.

2.3.4 USING THE ASSESSMENT PROCESS TO MEET THE STATED OBJECTIVES

The reporting objectives (established in Section 2.2) will vary for different types and stages of proposed (or existing) development/use. However, the same base framework is able to be utilised and the process can be adapted to achieve the required outcomes. An objective may not apply to a development, however whether and why/why not that objective applies must be considered.

Figure 2.4 provides further detail of the adopted assessment process, based on the framework shown in Figure 2.3.

2.3.5 BUSHFIRE PROTECTION MEASURE EFFECTIVENESS RATINGS

The following effectiveness ratings (refer to Table 2.2) are applied to the applicable bushfire protection measures, as part of the risk assessment process, and as a factor applied in deriving 'relative' threat, exposure and vulnerability levels.

The more effective a bushfire protection measure is, the greater its value in increasing bushfire resilience (buildings/structures), and/or increasing the safety of persons and in decreasing the level of risk associated with bushfire.

The effectiveness ratings incorporate the qualities of:

1. **Independence:** As a qualitative assessment of the extent to which the protection measure has the capacity to reduce threat, exposure and vulnerability levels as a standalone measure as opposed to requiring the cumulative capacity of additional protection measures (an additional one or more as a package); and
2. **Passiveness:** The capacity of protection measures to function without the active involvement of persons.

The rating assumes that the greater the independence and passiveness of a protection measure, the greater is its effectiveness.

Table 2.2: Bushfire protection measure effectiveness ratings.

THE APPLIED BUSHFIRE PROTECTION MEASURE EFFECTIVENESS RATINGS	
Rating / Descriptor	Protective Characteristics and Capability
<p>Very High (Independent and Passive)</p>	<p>Very significant risk reduction as an independent (standalone) measure. Impact on risk reduction is immediate and persistent in all scenarios.</p> <p>Operates passively with no or minimal requirement for ongoing implementation, management and maintenance.</p> <p>A priority measure to be implemented wherever possible.</p>
<p>High (Independent and Passive)</p>	<p>Material risk reduction as an independent (standalone) measure;</p> <p>Operates passively with none or minimal requirement for ongoing implementation, management and maintenance.</p>
<p>Effective (Independent and Active)</p>	<p>Material risk reduction as an independent (standalone) measure;</p> <p>Effectiveness relies on active implementation, management, maintenance and/or response.</p>
<p>Moderate (Dependant and Passive or Active)</p>	<p>Alone the measure will have limited impact on risk reduction. It has additive value when combined with other protection measures to create a 'package' of bushfire protection measures.</p> <p>Effectiveness is achieved both passively and/or with active implementation, management, maintenance and/or response.</p>
<p>Not Relevant</p>	<p>The measure is not relevant to the type of development/use.</p> <p>(Note: this is different to not being able to be applied – it is just not relevant to any configuration of the subject development/use).</p>

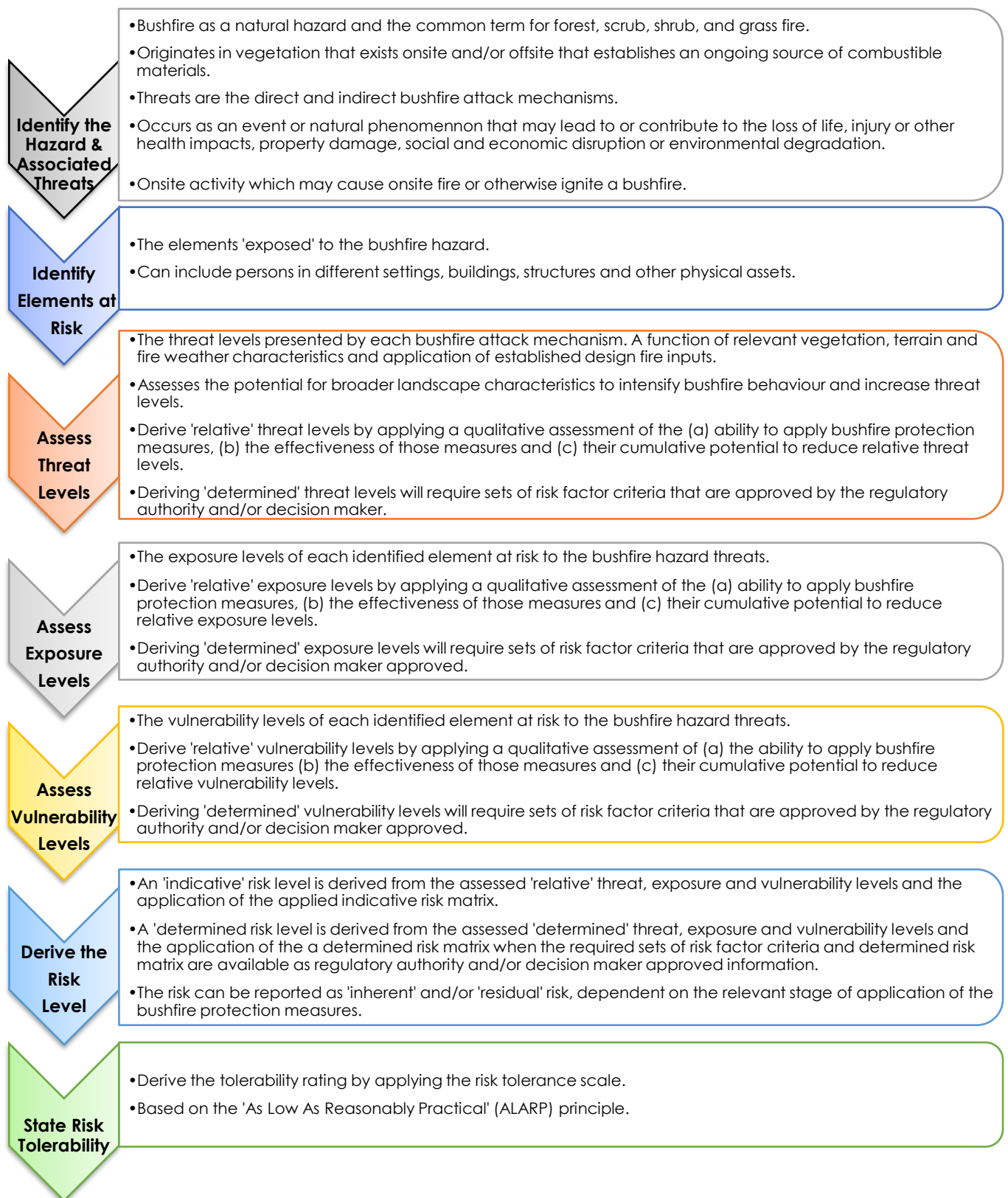


Figure 2.4: Outline of the adapted risk assessment process applied in this report.

2.4 THE BUSHFIRE HAZARD - BEHAVIOUR AND ATTACK MECHANISMS

Information regarding bushfire attack mechanisms and the potential influence of the broader landscape on the intensification of fire behaviour, is provided in Appendix 4 and 5. The content of these appendices is outlined below. Providing this information is intended to:

1. Assist those tasked with making design, construction, planning and management decisions (based on the information and assessments presented in this report), to have a better understanding of bushfire hazards where this may not be within their general field of expertise. This knowledge may also benefit development of innovative protection measures to increase the bushfire resilience of buildings/structures and/or improve persons safety and/or reduce bushfire threat levels; and
2. Assist readers understand why the assessment of the bushfire hazard threats and the presentation of the identified protection measures is organised the way it is in this report. It can also assist with guiding the search for additional information when necessary.

CONTENT OF APPENDIX 4

1. Factors Influencing Bushfire Behaviour
 - Vegetation and other fuels - key characteristics
 - Weather
 - Topography
2. Bushfire Direct Attack Mechanisms
 - Ember attack
 - Radiant heat attack
 - Bushfire flame attack
 - Surface fire attack
3. Bushfire Indirect Attack Mechanisms
 - Debris accumulation
 - Consequential fire
 - Fire driven wind
 - Tree strike and/or obstruction

CONTENT OF APPENDIX 5

1. Recent bushfire research
2. Dynamic Fire Behaviours
 - Spotting
 - Fire whirl/tornado
 - Junction fire
 - Crown fire
 - Eruptive fire
 - Fire channelling (vorticity-driven lateral spread)
 - Conflagrations
 - Downbursts
 - Pyroconvective events.
3. Drivers of deep flaming
4. Extreme bushfire events
5. Physical requirements of terrain, fuel load (and windspeed) for deep flaming.

3 ASSESSMENT SUMMARY

The assessment summary is presented in three parts:

Section 3.1 states the derived bushfire threat levels, and the exposure and vulnerability levels of each element at risk – as the factors from which the risk levels are derived.

Section 3.2 shows the type of risk level that is to be reported, states the derived risk levels and the tolerability of that risk - for each exposed element and each identified area of bushfire prone vegetation.

Section 3.3 presents a summary of the bushfire protection measures that can be applied and are currently implemented or are recommended to be implemented. The operational document in which the measures should be identified is noted.

3.1 THE ASSESSED THREAT, EXPOSURE AND VULNERABILITY LEVELS ESTABLISHING THE RISK LEVEL

Table 3.1: The assessed threat levels of the bushfire hazard.

ASSESSED HAZARD THREAT LEVELS ¹		
Bushfire Prone Vegetation Onsite and Offsite	Relative Threat Level ²	
	Inherent	Residual
All bushfire prone vegetation within the subject lots, and within 150m of the proposed development. All vegetation within the Lot is considered onsite vegetation and vegetation beyond the Lot boundary is considered off site.	Moderate	Low
All bushfire prone vegetation within the broader locality (10km radius) including along access routes.	Low	

¹ Refer to Section 6 for detailed assessment information.
² Refer to Appendix 2 for explanatory information.

Table 3.2: The assessed exposure and vulnerability levels for each exposed element to the stated area of bushfire prone vegetation.

ASSESSED EXPOSURE AND VULNERABILITY LEVELS OF IDENTIFIED ELEMENTS AT RISK ¹				
Vegetation Area / Location	All bushfire prone vegetation within 100m from the Merredin Battery site.			
Elements At Risk ²	Relative Exposure Level ³		Relative Vulnerability Level ³	
Description	Inherent	Residual	Inherent	Residual
Persons located onsite and temporarily offsite	Moderate		Moderate	Low
Persons on access/egress routes (in vehicles) or pathways	High		Moderate	
Buildings/Structures - NCC Classes 1-10	Moderate	Low	Moderate	Very Low
Fixed (hard) infrastructure assets – Merredin Battery (BESS units and associated infrastructure)	Moderate	Very Low	Moderate	Low

¹ Refer to Sections 7 and 8 for detailed assessment information.
² Refer to their identification in Section 5.
³ Refer to Appendix 2 for explanatory information.

3.2 THE ASSESSED RISK LEVEL ASSOCIATED WITH A BUSHFIRE EVENT AND ITS TOLERABILITY

Table 3.3: Identifying the 'type' of risk level being assessed and reported in this report.

THE TYPE OF RISK LEVEL DERIVED FROM THE ASSESSMENT ¹			
Indicative Risk		Determined Risk	
Inherent	Residual	Inherent	Residual
✓	✓	☐	☐

¹ Refer to Section 2, Appendix 2 and the glossary for explanatory information (inherent/residual corresponds to the level that available protection measures have been considered in the assessment with 'residual' including recommended measures).

Table 3.4: The tolerability of the assessed risk levels for each exposed element and corresponding to the identified areas of bushfire prone vegetation.

THE ASSESSED BUSHFIRE RISK LEVEL AND TOLERABILITY ²					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.				
Elements At Risk ¹	Indicative Risk Level ²		Inherent Risk Tolerability (ALARP) ³	Residual Risk Tolerability (ALARP) ³	Adjusted Residual Risk Tolerability (ALARP) ⁴
Description	Inherent	Residual			
Persons located onsite and temporarily offsite	M7	L5	Tolerable but NOT ALARP	Acceptable	N/A
Buildings/Structures - NCC Classes 1-10	M7	VL3	Tolerable but NOT ALARP	Acceptable	N/A
Fixed (hard) infrastructure assets – Merredin Battery (BESS units and associated infrastructure)	M7	VL3	Tolerable but NOT ALARP	Acceptable	N/A
Vegetation Area / Location	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.				
Elements At Risk ¹	Indicative Risk Level ²		Inherent Risk Tolerability (ALARP) ³	Residual Risk Tolerability (ALARP) ³	Adjusted Residual Risk Tolerability (ALARP) ⁴
Description	Inherent	Residual			
Persons on access/egress routes in vehicles	M7		Acceptable as IS ALARP	Acceptable	
Supporting Comments:					
The inherent risk tolerability is considered to be TOLERABLE, however it is 'reasonably practical' for the inherent risk level of 'MODERATE' to be lowered with the application of the assessed available and recommended bushfire protection measures.					
The residual risk tolerability is considered to be ACCEPTABLE because it is assessed as not being 'reasonably practical' for the residual risk level of 'LOW' or 'VERY LOW' to be further lowered by the application any additional bushfire protection measures.					
Measures are not available to reduce the indicative inherent risk to persons on access routes. This results in an Acceptable tolerability as it is subject to the ALARP principle. The tolerability is adjusted through Section 3.3 below.					
¹ Refer to their identification in Section 5.					

² Refer to Section 2, Appendix 2 and the glossary for explanatory information (inherent/residual corresponds to the level that available protection measures have been considered in the assessment with 'residual' including recommended measures).

³ Refer to Appendix 3 for information supporting the application of the tolerance scale.

⁴ Refer to Section 3.2.1 for adjustment justification when applicable.

3.3 ADJUSTMENT OF RESIDUAL RISK TOLERABILITY

Development/use scenarios can exist where a higher level of residual risk might be considered as tolerable or acceptable. Such a situation may exist when the exposed element is not persons and the economic cost due to the loss or damage of assets and/or disruption of services, is a risk that is retained by the owners as an informed decision. Consideration of the knock-on risk implications to persons who might be associated with these elements, or other nearby elements at risk, will be part of the tolerability adjustment assessment.

There may also be isolated scenarios where the limits for tolerability of risk need to be established at lower residual risk levels i.e. an additional margin of safety is required. The rationale for any residual risk tolerance adjustment is presented below.

ELEMENTS AT RISK SUBJECT TO ADJUSTMENT OF RISK TOLERANCE	
Element At Risk [Section 5.2]	Adjustment Rationale
Persons on access/egress routes in vehicles	<p>The site is intended to be unstaffed. It is unlikely that persons will be present during a bushfire emergency for evacuation to be necessary.</p> <p>Any visitors, contractors, or staff onsite will be accessing temporarily for maintenance, inspections etc and will have vehicles immediately available. The emergency procedure is to evacuate on identification of a bushfire and this has been established as a requirement of site induction.</p>

3.4 INFORMATIVE MECHANISMS – RECOMMENDED ACTIONS

3.4.1 ADDITIONAL BUSHFIRE PROTECTION MEASURES - RECOMMENDED BY BUSHFIRE CONSULTANT

3.4.1.1 THREAT REDUCING MEASURES - BUSHFIRE HAZARD

BUSHFIRE HAZARD THREAT REDUCTION RECOMMENDED ADDITIONAL BUSHFIRE PROTECTION MEASURES			
The Protection Mechanism	Ref No	Brief Description ¹	Recommendation Details
Prevent Bushfire ignition and/or severity by managing the fuels	1.4	Remove onsite bushfire fuel	A BAL-29 APZ is required for planning approval. A 10kW/m2 APZ is additionally required so BESS units and infrastructure (electrical components) are unlikely to be compromised due to radiant heat during a bushfire. There is no native vegetation on site, therefore permission by the decision maker and local government is not required.
	1.7	Reduce onsite consequential fire fine fuels:	It is required that all fine fuels are removed or maintained below 2t/ha within the APZ.
Prevent bushfire ignition by managing heat energy sources	1.10	Operational procedures - fire safe principles	Operating procedures have not yet been prepared. No ongoing works are proposed which could ignite a bushfire, except during an accident or component failure. It is advised that any hot/hazardous works are not undertaken during a Total Fire Ban or on a day with a Fire Danger Rating of Extreme or Catastrophic or under a Local Govt imposed Harvest, Vehicle movement and hot works ban.
Prevent bushfire ignition by managing the interactions of heat energy sources and fuels	1.16	Shielding of ignition sources	BESS units and associated infrastructure are comprised of metal exterior. Electrical cabling to and from the BESS units and associated infrastructure are underground, and any exposed cables can be shielded by non-combustible material.
	1.17	Separation of ignition sources	Fire within the facility (infrastructure, batteries or stored equipment) ignited by site operation/accident/failure may ignite vegetation. The 10kW/m2 APZ to be applied around the infrastructure is considered appropriate in reducing the risk of igniting a bushfire. The removal of consequential fire hazards within the APZ minimises the potential for spread of fire beyond the asset.

¹ The full description of each bushfire protection measure and the detail of the assessment is presented in Section 6.1.

3.4.1.2 EXPOSURE REDUCING MEASURES – ALL STRUCTURES AND ASSETS

ALL STRUCTURES AND ASSETS EXPOSURE REDUCTION RECOMMENDED ADDITIONAL BUSHFIRE PROTECTION MEASURES			
The Protection Mechanism	Ref No	Brief Description ¹	Recommendation Details
Establish sufficient separation from relevant bushfire hazard threats	4.1, 6.1	Siting of buildings / structures / campsites considering potential high wind exposure	<p>An APZ is to be established around electrical components and infrastructure. This APZ will ensure exposure to the bushfire hazard threat of radiant heat will be limited to a maximum radiant heat flux of 10 kW/m² (calculated with an assumed flame temperature of 1090K) by providing the required separation distances from the bushfire hazard. The 10m portion of the APZ immediately around BESS infrastructure must be entirely and permanently non-vegetated (sealed, compacted limestone, gravel, mineral earth etc).</p> <p>A BAL-29 APZ is required for all Class 1-10 buildings onsite. It is possible to locate the buildings within the 10kW/m² APZ applied to BESS infrastructure such that additional vegetation clearing is not required.</p>
	4.7, 6.7	Separation from stored and constructed combustible items (consequential fire fuels)	All non-structural combustible materials are to be removed within 10m of assets. This includes but is not limited to; waste, leaf litter, machinery, grasses, vehicles, fuel, furniture, and timber. When storage of flammable items or materials are stored on site temporarily (for maintenance etc), separation distances must be complied with. This requirement is to be included in the Site Operating Procedures document.
Establish shielding from relevant bushfire hazard threats	4.9, 6.9	Constructed barrier – shielding from consequential fire	Ensure all subfloor spaces are sealed or enclosed with non-combustible solid material or ember screening mesh (corrosion-resistant steel, bronze, or aluminium with an aperture <2mm).
	6.12	Shield operation critical non-structural elements	<p>Exposed electrical cabling to be shielded from radiant heat and consequential fire by burying underground or shielding with non-combustible material – common electrical cabling reaches its critical point at >10kWm².</p> <p>Exposed plumbing (poly pipe) is to be buried or shielded with non-combustible material – maximum exposure 120 degrees Celsius.</p>

¹ The full description of each bushfire protection measure, the detail of the assessment and any recommendation, is presented in Section 7.3.1. and Section 7.4.1.

3.4.1.3 VULNERABILITY REDUCING MEASURES - PERSONS

PERSONS VULNERABILITY REDUCTION RECOMMENDED ADDITIONAL BUSHFIRE PROTECTION MEASURES			
The Protection Mechanism	Ref No	Brief Description ¹	Recommendation Details
Provision of bushfire emergency information and education	Persons Located Onsite and Temporarily Offsite		
	7.5	Bushfire Protection Measures to be Implemented are Published in the Relevant Operational Documents:	The site Emergency Management Plan (document title pending), is to include responses to bushfire emergencies. The immediately procedure is to evacuate in the appropriate direction away from the fire, and inform DFES Comcen of the status of the BESS facility.
Onsite persons capable of managing a bushfire emergency are available	7.11	Onsite persons available to manage bushfire emergency procedures	The development is proposed to be unstaffed. It is recommended that the staff member managing emergency procedures has training in general bushfire emergency procedures, and has specific knowledge of the site procedures in response to bushfire. This staff member should be easily contactable.
	7.14	External emergency response services available	It is recommended that the Merredin Volunteer Fire and Rescue Service are to be invited to inspect and familiarise with the site. Provide information in site fire response procedures. This invitation may be annual or ad-hoc.
¹ The full description of each bushfire protection measure, the detail of the assessment and any recommendation, is presented in Section 8.1.1 & 8.2.1.			

3.4.1.4 VULNERABILITY REDUCING MEASURES – STRUCTURES AND ASSETS

STRUCTURES AND ASSETS VULNERABILITY REDUCTION			
RECOMMENDED ADDITIONAL BUSHFIRE PROTECTION MEASURES			
The Protection Mechanism	Ref No	Brief Description ¹	Recommendation Details
Construction design and materials	9.3	Construction materials for external and internal cavity building elements	The construction of proposed structures is currently unknown. They will likely be primarily masonry, steel, aluminium and cement sheeting. It is recommended non-combustible elements are included where practical.
	11.7	Construction materials – non-structural essential elements	Use non-combustible or products with high heat ratings to assist with maintaining their operability.
	9.7, 11.7	Construction of electricity supply	Exposed electrical cabling to be shielded from radiant heat and consequential fire by burying underground or shielding with non-combustible material – common electrical cabling reaches its critical point at >10kWm ² . Exposed plumbing (poly pipe) is to be buried or shielded with non-combustible material – maximum exposure 120 degrees Celsius.
	11.8	Minimise re-entrant detail to minimise debris and ember accumulation	Where the electrical cabling contacts the ground or any arrangement of associated structures creates a 'pocket' for accumulation of debris, this should be rectified by design or filling with non-combustible material such as mineral earth. Consideration should be given to making the arrangement self-cleaning through wind action to the greatest extent possible. These measures will reduce accumulation and/or make the management (clearing) of accumulated debris easier. E.g. cable raking to be $\geq 100\text{mm}$ above ground.
	9.11, 11.11	Minimise construction cavities to minimise debris and ember accumulation	Ensure all subfloor spaces are sealed or enclosed with non-combustible solid material or ember screening mesh (corrosion-resistant steel, bronze, or aluminium with an aperture <2mm).
	9.13	Screen and seal gaps and penetrations	All Class 1-10 buildings (including non-habitable structures) must have ember screening/sealants installed on any gaps and penetrations. It is recommended that ember screens are installed to BESS units and all other cabinets over intake/exhaust vents and other gaps to the interior cavity or accessing any combustible elements. Ember screening mesh is corrosion-resistant steel, bronze, or aluminium with an aperture <2mm.
	11.13	Screen and seal gaps and penetrations	The manufacturer or appropriate engineers should be contacted to enquire if it is possible to apply ember screening to intake/exhaust vents and other paths of entry to the interior cavity or accessing any combustible elements of BESS

STRUCTURES AND ASSETS VULNERABILITY REDUCTION
RECOMMENDED ADDITIONAL BUSHFIRE PROTECTION MEASURES

The Protection Mechanism	Ref No	Brief Description ¹	Recommendation Details
			<p>cabinets. This ember screening would be applicable to the exterior of the battery cabinet, not internal components. The intention is to prevent both ember ingress and debris accumulation.</p> <p>Ember screening mesh is corrosion-resistant steel, bronze, or aluminium with an aperture <2mm.</p>
	9.16, 11.16	Landscaping construction - fences and walls:	Any security fences or other potential fuel loads should be constructed using non-combustible material.
Availability of a firefighting response capability	9.17, 11.17	Firefighting water supply	<p>The following requirements apply to the firefighting water supply. The specifications will be confirmed at the detailed design stage.</p> <p><u>Access</u></p> <ul style="list-style-type: none"> • Firefighting water access points (hydrants, hard suction, or drafting) must be clearly identifiable, visible from internal roads, and unobstructed. • The water tank(s) must be located at the vehicle access point to the development (northern entry gate). • An all-weather hardstand turnaround area meeting the requirements of the Guidelines for Planning in Bushfire Prone Areas v1.4 (Explanatory Note E3.3) must be provided within 4 metres of both the static water storage tank(s) and any independent hard suction points (hydrants). • Site Operating Procedures must include that access routes must be unobstructed at all times. <p><u>Siting</u></p> <ul style="list-style-type: none"> • The water tank(s) must be positioned >10m from BESS cabinets and associated infrastructure. • The water tank(s) should apply a BAL-29 APZ at a minimum. It is possible to locate the tank within the 10kW/m2 APZ applied to BESS infrastructure such that additional vegetation clearing is not required. <p><u>Construction</u></p> <ul style="list-style-type: none"> • The static firefighting water supply must be calculated per AS 2419. Based on the submitted layout the required supply will be 288,000L. This water supply is intended to address bushfire and non-bushfire emergencies. • The static water storage tank(s) must be an above-ground water tank constructed of concrete or steel. • An external water level indicator must be installed on static water storage tank(s) and be visible from internal roads and the adjoining turnaround area. • Signage indicating 'FIRE WATER' and the tank capacity must be fixed to each tank.

STRUCTURES AND ASSETS VULNERABILITY REDUCTION
RECOMMENDED ADDITIONAL BUSHFIRE PROTECTION MEASURES

The Protection Mechanism	Ref No	Brief Description ¹	Recommendation Details
			<ul style="list-style-type: none"> • The hard-suction point must be protected from mechanical damage (eg. bollards) where vehicle contact is possible. • Couplings at hard suction points are required to be 125mm Storz fittings (<i>Guidelines v1.4 s2.2.2.1</i>). DFES Built Environment and the Merredin Volunteer Fire and Rescue Service should be contacted for input on appropriate couplings and adaptors.
	11.19	Firefighting equipment passively operated	<p>The BESS units have active monitoring and electrical fault safety devices which ensure the units only remain operational within their intended operating environment, with an automated shut-down system.</p> <p>It is recommended that automatic fire suppression systems are installed and maintained, as appropriate to the BESS details and recommended by the manufacturer.</p>
	11.20	Firefighting equipment operability maintained	Operating and maintenance procedures are to be developed to ensure regular maintenance of firefighting supply and infrastructure.

¹ The full description of each bushfire protection measure, the detail of the assessment and any recommendation, is presented in Sections 8.3.1 & 8.4.1.

4 IDENTIFICATION OF THE ELEMENTS AT RISK

Elements at risk are those exposed to the bushfire hazard threats identified in Section 5. This section establishes the generic list of possible elements at risk and identifies the exposed elements of the subject development/use.

Table 4.1: Identification of the elements at risk for which this risk assessment and management report is produced.

THE ELEMENTS AT RISK (THE EXPOSED ELEMENTS)	
Type Description	Identification of Relevant Elements
Persons located onsite: as part of site operations or visitors) and Persons temporarily offsite as part of site operations: (e.g. tourism day trips)	✓
Persons on Access/Egress Routes (in Vehicles): i.e., roads, driveways, access ways	✓
Buildings - NCC Class 1 & 2: residential - of a domestic nature	
Buildings - NCC Class 3: residential – of long term or transient nature, for unrelated people	
Buildings – NCC Class 5: offices for professional or commercial purposes	
Buildings – NCC Class 6: shops selling retail goods or services to the public	
Buildings – NCC Class 7: warehouses & carparks - storage – wholesale goods / vehicles	
Buildings – NCC Class 8: factory / workshop / laboratory - in which a process is carried out	
Buildings – NCC Class 9: health care / residential care / assembly	
Buildings or Structures – NCC Class 10: non-habitable – shed / carport / garage / fence / retaining wall etc.	✓
Non-Building Accommodation: caravans / camper trailers / tents etc	
Fixed (Hard) Infrastructure Assets: telecommunications / power generation / transport / water supply / waste management	✓
Livestock/Animals: as part of commercial or private operations (saleyards / events / wildlife sanctuaries).	

Table 4.2: Description of the elements at risk that are subject to assessment for the proposed/existing development and/or use.

ELEMENT AT RISK DETAIL FOR THE SUBJECT DEVELOPMENT/USE	
Elements At Risk	Element Description
Persons located onsite and temporarily offsite	The site is not expected to have permanent staffing. Regular visitation by staff will complete monitoring, cleaning and general maintenance of the Project. Major maintenance that might be required would include replacement of equipment which may include battery modules, inverters, switchgear, transformers, or other infrastructure as needed. This would involve larger numbers of personnel for limited periods as required.
Persons on access/egress routes in vehicles	Staff and/or emergency services accessing to / egressing from the facility.
Buildings/Structures - NCC Classes 1-10	The facility is expected to include maintenance and storage sheds, which may contain valuable/combustible assets. These have been assessed Class 10a buildings.

Fixed (hard) infrastructure assets	BESS developments include battery cabinets, inverters, power skid transformers, and transformers.
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5 IDENTIFICATION OF THE BUSHFIRE HAZARD

ONSITE AND OFFSITE VEGETATION – RATIONALE FOR SEPARATE IDENTIFICATION

The approach adopted in this report is to separately identify onsite and offsite bushfire prone vegetation when the distinction exists, and it is necessary.

Onsite Vegetation

This is considered to be vegetation that exists on a given lot or lots or a large area of land that can be considered a tenement (e.g. a mining tenement) and for which the owner or occupier has certain rights to conduct activities upon. The 'onsite' land is the subject site on which the existing or proposed development and/or use is to be conducted.

The existence of these rights makes it more likely that an authority will exist to make and maintain any required changes to the extent and the composition of any bushfire prone vegetation that exists 'onsite'. The only constraint will be any environmental conditions established by relevant authorities.

Offsite Vegetation

This is considered to be vegetation that exists external to what can be considered 'onsite'. For these lands the owner/operator does not normally have any authority to modify or manage this bushfire prone vegetation to reduce threats and maintain that reduction in perpetuity. Rather, the authority for modifying and managing 'offsite' vegetation resides with a third party such as another landowner or a government authority.

Implications for Risk Assessment and Implementation of Relevant Protection Measures

- It is likely to be near certain that a greater number of relevant bushfire protection measures can be established on land identified as 'onsite' compared to land that is identified as 'offsite'.
- A responsibility can be established for owners and/or operators of onsite land to ensure the ongoing maintenance of those protection measures.
- In comparison, management of offsite vegetation requires the establishment of enforceable vegetation management agreements if any reduction in threat level is to be achieved and accounted for in the threat level assessment. These can be problematic to establish.

The required assessment of the broader landscape's influence on bushfire hazard threat levels will most likely be considering vegetation and terrain that is external to the subject development/use site and therefore needs to be separately identified.

For the proposal (BESS Merredin), the risk assessment will consider the hazard posed by bushfire prone vegetation at two scales:

- The vegetation within the subject lots and within 150m of the proposed development area, which presents the direct bushfire hazard (including following AS3959 BAL Methodology); and
- The vegetation within the broader locality, nominally to a 10km radius. This vegetation impacts access routes, the severity of potential landscape-scale fires impacting the immediate (150m) surrounds, and may impact the site with medium to long range ember attack and smoke.

5.1 ONSITE/LOCAL BUSHFIRE PRONE VEGETATION




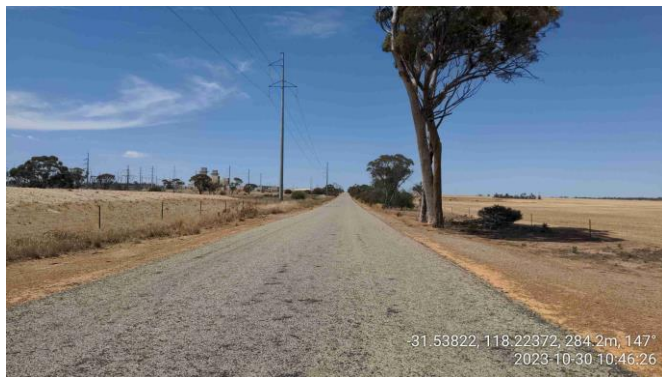



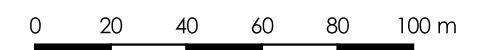
Map I.D. / Area No. / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development. Refer to Figure 5.1.		
Classification or Exclusion Clause	Class G Grassland	Effective Slope (deg)	Upslope or flat 0
			Downslope >0-5
Types Identified	Sown pasture G-26	Open herbfield G-27	
Description & Classification Justification	The vegetation onsite and the surrounding areas is predominantly open herbfield (crop land) or sown pastures with very small areas mainly onsite that are native grasses and saltbush.		
Post Development Assumptions:	APZs will be established as described in the BMP, to limit radiant heat flux exposure to BESS assets to a maximum 10kW/m ² .		
			
Herbfield/cultivated pasture		Herbfield/cultivated pasture	
			
Native grass and saltbush		Heavy timber (Salmon gum)	

Figure 5.1
Classified Vegetation & Topography (Existing)

Lot 5 on Plan D067824, Area : 61.5116ha
 Robertson Road
 MERREDIN
 SHIRE OF MERREDIN

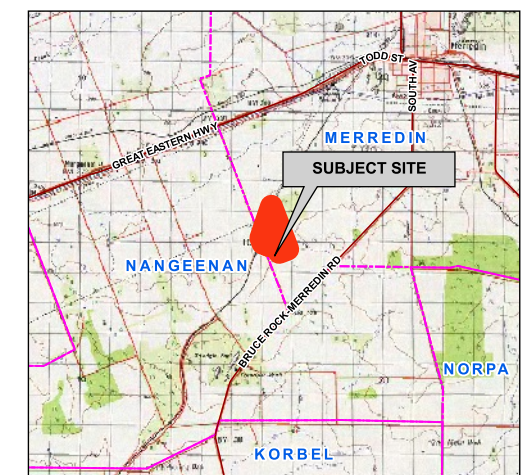
----- LEGEND -----

-  Lot 5
 -  Battery Development Extent
 -  Proposed Infrastructure
 -  150m Assessment Area
 -  Photo & Direction
- Classified Vegetation**
-  Class G - Grassland
 -  Exclusion 2.2.3.2



Metres

----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP



Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 01-11-2023
 SCALE (A3): 1 : 2000



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.

5.2 OFFSITE/REGIONAL BUSHFIRE PRONE VEGETATION




Map I.D. / Area No. / Location	All bushfire prone vegetation within the broader locality (10km radius) including along access routes. Refer to Figure 5.2.		
Classification or Exclusion Clause	Class G Grassland	Effective Slope (deg)	Flat 0 Downslope >0-5
	Class B Woodland		
	Class E Mallee		
Types Identified	Open herbfield G-27	Low woodland B-07	Tall shrubland E-15
Description & Classification Justification	<p>The vegetation onsite is largely grassland with small, fragmented sections of scrubland and or mallee. Some adjoining sections are relatively "closed" scrub with some Mallee and/or Salmon gum scattered and would not be considered to increase the threat.</p> <p>The proposed site is surrounded by open fields and the existing solar farm and associated infrastructure.</p> <p>The area is gently undulating and all areas are either upslope or 0-5 degrees downslope relative to development locations.</p>		

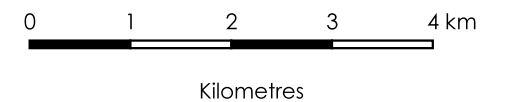
Figure 5.2

Location Map

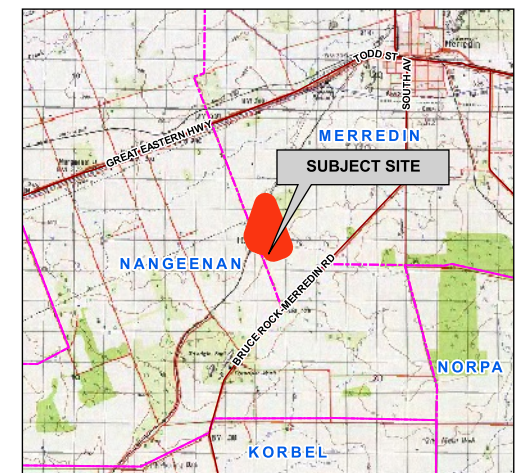
Lot 5 on Plan D067824, Area : 61.5116ha
Robartson Road
MERREDIN
SHIRE OF MERREDIN

----- LEGEND -----

-  Lot 5
 -  Battery Development Extent
 -  Reserves
- DFES Stations**
-  Bush Fire Brigade
 -  State Emergency Service Unit
 -  Volunteer Fire & Rescue Service
- DBCAs Legislated Lands and Waters**
-  Conservation Park
 -  Nature Reserve



----- LOCALITY -----



AERIAL IMAGERY: Landgate/SLIP



Coordinate System: GDA 1994 MGA Zone 50
 Projection: Universal Transverse Mercator Units: Metre
 Map by: Elissa Edward 25-10-2023
 SCALE (A3): 1 : 75000



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.

5.3 THE BROADER LANDSCAPE/ENVIRONMENT AND ITS POTENTIAL TO INTENSIFY FIRE BEHAVIOUR

More recent research into bushfire propagation has highlighted the role of environmental factors that are responsible for dynamic bushfire propagation and subsequent extreme fire development. Dynamic fire propagation arises from complex interactions between the terrain, the atmosphere and the fire. The intensified fire behaviour of an extreme bushfire event will significantly increase the threat levels generated by the bushfire attack mechanisms. Refer to Appendix 5 for an explanation of dynamic fire behaviours (DFBs) and their involvement in extreme bushfire events.

Consequently, in assessing the bushfire hazard threat levels to which the at risk elements could be exposed, the potential for dynamic bushfire propagation and subsequent development of extreme bushfire events within the broader landscape surrounding a subject site, must be assessed. The results of this assessment are incorporated into the assessed bushfire hazard threat levels for each attack mechanism in Section 5.5.

Table 5.1: Broader landscape assessment – the potential for extreme fire events to increase threat levels.

ASSESSING THE POTENTIAL FOR AN EXTREME BUSHFIRE EVENT TO DEVELOP AND INCREASE THE LEVEL OF THREATS IMPACTING THE SUBJECT SITE			
Relevant Physical Factors ¹	Factor Existence in Surrounding Landscape	Potential to Increase Bushfire Threat Levels	Assessment Comments
Physical factors more typically associated with conflagrations that are more likely to exist as large surface based bushfire events			
Large continuous areas of bushfire prone vegetation	Insignificant / Unlikely to Occur	Low	The proposed site is located in an area surrounded predominantly by open cleared pasture farm land that is managed by grazing and crops, canola and stubble to the south, west and north and the nature reserve 500 metres to the north. The reserve is predominately mulga and other acacia species, mallee and less than 10% trees. The reserve vegetation has the potential to produce short distance embers and firebrands, up to 700 metres (based on Mike Scott's experience). Ember attack will be minimal. There is minor scrub with <10% larger mallee and salmon gum timber which are scattered. Mostly surrounded by grasses and crop residues.
Heavier fuel loads	Insignificant / Unlikely to Occur		Areas on road verge and small pockets of remanent vegetation have heavier fuel loads (<20t/ha), however the surrounding vegetation, pasture and crop supports approximately 4.5t/ha, and scrub approximately <(16t/ha).
Fuel types (bark) that produce significant quantities of embers / firebrands (spotting) and can be long lasting;	Possible to Occur		The reserve vegetation has coarse tight bark and when the bark sheds from some acacias, there is potential to produce short distance embers and firebrands, up to 700 metres (based on Mike Scott's experience).

ASSESSING THE POTENTIAL FOR AN EXTREME BUSHFIRE EVENT TO DEVELOP AND INCREASE THE LEVEL OF THREATS IMPACTING THE SUBJECT SITE

Relevant Physical Factors ¹	Factor Existence in Surrounding Landscape	Potential to Increase Bushfire Threat Levels	Assessment Comments
Sufficient area of land and vegetation to support multiple fires of scale	Possible to Occur		Significant threat being the risk of fast moving grass fires of large scale due to crop/pasture and native grasses on unmanaged land.
Terrain that can facilitate development of topographically modified winds (e.g. scarp or foehn-like)	Does Not Exist		
Strong synoptic winds (i.e., not fire driven)	Possible to Occur		The landscape is relatively flat. Strong easterly winds are common during the summer.
Physical factors with identified links to deep flaming and the development of pyroconvective, coupled atmosphere, bushfire events			
Terrain slopes of approximately 24 ^o or greater - or some degrees lower with greater wind speeds (increases potential for eruptive fire).	Does Not Exist	Low	The local topography is flat with minor undulation.
Rugged terrain with local relief in the order of at least 300m (increases potential for eruptive fire).	Does Not Exist		
Terrain with leeward slopes >20-25 degrees (increases potential for vorticity-driven lateral spread)	Does Not Exist		
Wind speed in excess of approximately 20 km/hr (increases potential for vorticity-driven lateral spread)	Likely to Occur		The wheat belt area will experience seasonal winds that could easily sustain wind speeds greater than 20 km/hr during summer.
Fuel moisture content around 5% or less (associated with vorticity-driven lateral spread)	Likely to Occur		Less than 5% moisture in any fuels will potentially increase the rate of spread.
Sufficiently sized areas (scale) of bushfire prone vegetation to potentially support deep flaming and supply the required quasi-instantaneous energy release.	Does Not Exist		Deep flaming will not be supported in the grass fuels and flat terrain.
Atmospheric instability to create opportunity for atmospheric coupling and violent pyroconvection.	Possible to Occur		It will be assumed, as a minimum, that at most locations, the potential for vertical movement of air without any resistance to that movement (e.g. temperature inversions) can always exist. That is, it is not sufficiently risk averse to assume that atmospheric instability will never exist – different temperature air masses can always interact as a consequence of the passage of different weather systems at any location.

ASSESSING THE POTENTIAL FOR AN EXTREME BUSHFIRE EVENT TO DEVELOP AND INCREASE THE LEVEL OF THREATS IMPACTING THE SUBJECT SITE

Relevant Physical Factors ¹	Factor Existence in Surrounding Landscape	Potential to Increase Bushfire Threat Levels	Assessment Comments
¹ These are physical terrain / environment factors that are either required for certain dynamic fire behaviours or will enhance the potential for and the development of an extreme bushfire event.			

5.4 ASSESSMENT OF VEGETATION CHARACTERISTICS DRIVING BUSHFIRE ATTACK MECHANISM THREAT LEVELS

This qualitative assessment derives the **base threat levels** of identified areas of bushfire prone vegetation by accounting for:

1. Fuel types, arrangement and quantities; and
2. The existence of relevant characteristics within the broader landscape that have the potential to intensify bushfire behaviour and increase threat levels.

Note: This assessment does not account for the existence or potential application of threat reducing protection measures or the level of exposure and vulnerability of elements at risk. These are accounted for in subsequent steps of the risk assessment process that results in the derivation of inherent and/or residual risk levels.

Table 5.2: The assessed potential for bushfire attack mechanisms originating from vegetation to adversely impact exposed elements.

CHARACTERISTICS ASSESSMENT OF THE BUSHFIRE PRONE VEGETATION AND ITS POTENTIAL TO IMPACT ¹ ELEMENTS AT RISK – THE BASE THREAT LEVEL		
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.	
Identified Characteristics that will Contribute to the Severity of the Attack Mechanism and Consequent Base Threat Level to All Elements at Risk		Base Threat Level (the relative potential for adverse impact on exposed elements)
Direct Bushfire Attack Mechanisms		
<p>Ember Attack: This threat level is strongly correlated with the existence of bark fuels.</p> <p>The varied typical rates of spread and residence time for flame fronts in different vegetation types is also incorporated into the threat level assessment (these impact on time available to make decisions and time exposed to threats).</p>	<p>Ember Attack can result from both immediate and regional vegetation. Other attack mechanisms below have not considered vegetation within the broader locality.</p> <p>Within the subject lot: The grass type fuels are finer fuels and will produce very little, short distance small embers with short lives. The majority of these embers will be consumed as part of the flame front which will have a residence time (the flaming phase at a point on the ground) typically less than 10 seconds. Consequently these embers present a limited threat to the BESS units and associated infrastructure, and any accumulated debris. The longer distance woodland fuels present a limited threat due to their distance from the site, the impacting grassfire being unlikely to dislodge firebrands, and the bark types of the local mallee and salmon gum.</p>	Very Low

CHARACTERISTICS ASSESSMENT OF THE BUSHFIRE PRONE VEGETATION AND ITS POTENTIAL TO IMPACT ¹ ELEMENTS AT RISK – THE BASE THREAT LEVEL

Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.	
<p>Radiant Heat Attack: This threat level is a function of fuel characteristics (size, shape, quantity, type, arrangement and moisture content) and the landscape and weather factors that can intensify fire behaviour.</p> <p>Larger flame sizes and higher temperatures produce higher levels of heat.</p> <p>The varied typical rates of spread and residence time for flame fronts in different vegetation types is also incorporated into the threat level assessment (these impact on time available to make decisions and time exposed to threats).</p>	<p>Fine fuel loads for the grassland (pasture) vegetation ranges from 2-4 t/ha, with 2 t/ha being more common due to livestock grazing. The location being in the eastern wheatbelt and considered marginal rainfall the grassland vegetation is unlikely to reach the levels near or above 2t/ha</p> <p>The modelled solid portion flame lengths for the identified grassland vegetation type, on land ranging from flat to 0-5 degrees downslope, are up to 7m to 9m. These are shorter to medium flame lengths.</p> <p>The potential impact of the radiant heat transfer is going to be moderated by the short residence time (the flaming phase at a point on the ground) for the flame front. For much of the identified grassland vegetation types, the residence time will typically be less than 10 seconds. The residual radiant heat after the passage of the fire front will be low.</p> <p>There are no areas of woodlands of concern that would have potential to impact the site or facilities/infrastructure in the event of a bush fire.</p>	Low
<p>Bushfire Flame Attack: This threat level is a function of potential flame lengths which are significantly influenced by fine fuel loads and the slope of the land on which the fire is burning.</p> <p>The varied typical rates of spread and residence time for flame fronts in different vegetation types is also incorporated into the threat level assessment (these impact on time available to make decisions and time exposed to threats).</p>	<p>Fine fuel loads for the identified grassland and scrub vegetation types range from 2 – 4.5 t/ha with the lower quantities typically associated with grazed grassland complex. These are low to moderate fine fuel loads.</p> <p>The modelled solid portion flame lengths for the identified grassland types, on land ranging from flat to 0-5 degrees downslope, are up to 7m and 9m. These are shorter to medium flame lengths. The modelled flame lengths for woodland in the same range are 12m to 16m. The setbacks from the grassland vegetation types due to both siting and APZ dimensions provided within the BMP are more than double these flame lengths (<9m length vs >20m setback).</p>	Low
<p>Surface Fire Attack: This threat level is a function of the existence of intermittent surface fuels surrounding and leading up to exposed elements.</p>	<p>Grassland does not accumulate significant surface fuels/debris. All vegetation areas have sufficient setback that this hazard is negligible.</p>	Low
Indirect Bushfire Attack Mechanisms		

CHARACTERISTICS ASSESSMENT OF THE BUSHFIRE PRONE VEGETATION AND ITS POTENTIAL TO IMPACT ¹ ELEMENTS AT RISK – THE BASE THREAT LEVEL

Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.	
Debris Accumulation: This threat level is a function of having a source of vegetative debris, its extent and proximity to exposed elements.	There will be limited debris accumulation due to predominantly grassland vegetation. Some debris will exist within treed areas.	Low
Consequential Fire: This threat level is a function of the existence of accumulated debris (fine fuels) and stored or constructed combustible / flammable items that exist either as part of the site use or operations or are adjoining/adjacent buildings/structures (heavy fuels).	The potential for debris accumulation has been assessed. There will be no stored combustible/flammable materials adjacent to the element at risk (the BESS and supporting infrastructure). There are no other structures that could become a consequential fire, excepting those to which the same bushfire protection measures will be applied (APZs, ember screening etc).	Very Low
Fire Driven Wind: This threat level is correlated with the potential for development of extreme bushfire events (refer to Appendix 5).		N/A
Tree Strike and Obstruction: This threat level is a function of the existence of trees, their proximity to exposed elements and an exposed element that can subsequently be vulnerable to other bushfire attack mechanisms due to damage or obstruction.	The proposed location of the facility is relatively clear, but some trees will exist within 50m. The element may be considered at risk where the setback from the tree is <1.5x the mature height of that tree.	N/A

¹ Refer to glossary.

5.5 THE MODELLED BUSHFIRE - POTENTIAL RADIANT HEAT TRANSFER AND FLAME LENGTH

For the identified vegetation the modelled (design) fire will apply the most applicable fire behaviour and radiant heat models in determining the level of threat presented by the flame contact and radiant heat direct attack mechanisms of fire.

These models will be either those applied to Bushfire Attack Level (BAL) determination within AS 3959:2018 or other models as identified and justified in this report. The information in this section states the levels of radiant heat transfer at the stated distances from the element at risk in either BAL ratings or kW/m² (and flame lengths as relevant).

This information is considered in assessing threat levels in Section 5. Refer to Appendix 7 for additional information.

Table 5.3 Vegetation separation distances corresponding to radiant heat transfer levels.

THE CALCULATED VEGETATION SEPARATION DISTANCES CORRESPONDING TO THE STATED LEVEL OF RADIANT HEAT ¹									
Vegetation Classification		Separation Distances Corresponding to Stated Level of Radiant Heat (metres)							
		Bushfire Attack Level						Maximum Radiant Heat Flux	
Area	Class	BAL-FZ	BAL-40	BAL-29	BAL-19	BAL12.5	BAL-LOW	10 kW/m ²	2 kW/m ²
1	(G) Grassland	<7	7-<9	9-<14	14-<20	20-<50	>50	21.8	-
2	(G) Grassland	<6	6-<8	8-<12	12-<17	17-<50	>50	21.2	-
3	(G) Grassland	<6	6-<8	8-<12	12-<17	17-<50	>50	21.2	-
4	Excluded cl 2.2.3.2(e)	-	-	-	-	-	-	-	-

¹ All calculation input variables are presented in Table 3.2. A copy of radiant heat calculator output for each area of classified vegetation are presented in Appendix A2.

6 BUSHFIRE HAZARD THREAT LEVELS ASSESSMENT

SUMMARY OF THE QUALITATIVE ASSESSMENT PROCESS

1. Identify all protection measures (grouped by protection principle) that are available to reduce threat levels and rate their effectiveness;
2. Produce a numerical summary of all potential threat reducing protection measures that are available and determine their application status;
3. Assess the potential threat reducing impact of the package of protection measures that is able to be applied. The effectiveness rating weights the potential impact of an individual measure; and
1. Derive the threat level, for each identified area of bushfire prone vegetation, by accounting for:
 - The relevant characteristics of the vegetation as they influence the bushfire attack mechanisms and establish the base threat level;
 - The potential threat increasing influence of the broader landscape; and
 - The impact of the applied package of protection measures in reducing threat levels (refer to Section 2.3.3 and Appendix 2 for additional risk assessment process information).

6.1 PROTECTION MEASURES AVAILABLE TO REDUCE BUSHFIRE THREAT LEVELS AND THEIR APPLICATION STATUS

Table 6.1: For the stated area of vegetation, all available bushfire protection measures for preventing or reducing the potential for fire ignition and eliminating or reducing its threat levels.

PROTECTION MEASURES TO REDUCE BUSHFIRE THREAT LEVELS		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
PROTECTION PRINCIPLE - PREVENT FIRE IGNITION AND/OR SEVERITY BY CONTROLLING THE FUEL: Eliminate or reduce vegetation fuel loads, modify their properties (vegetation types and the arrangement of the fuels). Maintain the measures over time to eliminate bushfire or lower the severity of fire behaviours and the consequent threat levels. The measures may conflict with desired / regulated environmental conservation outcomes and this remains a potential limitation.						
1.1	Remove Offsite Bushfire Fuel: Remove fuel permanently by clearing bushfire prone vegetation when an authority exists.	Very High	N/A	N/A	N/A	N/A
1.2	Reduce Offsite Bushfire Fuel: Programmed hazard reduction burning when an authority exists to conduct and maintain (refer to Appendix 6 for additional information).	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: Vegetation types onsite would not respond to hazard reduction burning as minimal debris can accumulate, and burning will encourage weed growth, thereby increasing the hazard.</i>						

PROTECTION MEASURES TO REDUCE BUSHFIRE THREAT LEVELS		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
1.3	Reduce Offsite Bushfire Fuel: Mechanical fuel reduction to modify composition of vegetation types and/or the arrangement of fuels and maintain the modification over time e.g. reduce canopy, limit higher threat bark types, minimise 'ladder' fuels' - when an authority exists to conduct and maintain.	High	Yes	No	No	No
Informative and/or Site Specific Comment/Assessment: Mechanical fuel reduction (slashing/sprayed) will be required to maintain the offsite grassland to low threat.						
1.4	Remove Onsite Bushfire Fuel: Remove fuel permanently by clearing bushfire prone vegetation when approved.	Very High	Yes	No	Yes	Yes
Informative and/or Site Specific Comment/Assessment: A BAL-29 APZ is required for planning approval. A 10kW/m2 APZ is additionally required so BESS units and infrastructure (electrical components) are unlikely to be compromised due to radiant heat during a bushfire. There is no native vegetation on site, therefore permission by the decision maker and local government is not required.						
1.5	Reduce Onsite Bushfire Fuel: Programmed hazard reduction burning (refer to Appendix 6 for additional information).	Not Relevant	N/A	N/A	N/A	N/A
Informative and/or Site Specific Comment/Assessment: Vegetation (grassland) onsite would not respond to hazard reduction burning as minimal debris can accumulate and burning will encourage weed growth.						
1.6	Reduce Onsite Bushfire Fuel: Mechanical fuel reduction to modify composition of vegetation types and/or the arrangement of fuels and maintain the modification over time e.g. reduce canopy, limit higher threat bark types, minimise 'ladder' fuels' - when approved. Refer to the planned APZ.	Effective	Yes	No	Yes	Yes
Informative and/or Site Specific Comment/Assessment: The grassland will be slashed, sprayed or grazed.						
1.7	Reduce Onsite Consequential Fire Fine Fuels: Apply the specifications for an Asset Protection Zone (APZ) surrounding the exposed element(s) to ensure this area contains minimal consequential fire fuels and is maintained in a low threat state. The specifications are established in the Guidelines [22] within the <i>Explanatory Notes for Element 2 of the Bushfire Protection Criteria and Schedule 1: Standards for Asset Protection Zones</i> .	Effective	Yes	No	No	Yes
Informative and/or Site Specific Comment/Assessment: It is required that all fine fuels are removed or maintained below 2t/ha within the APZ. Land management plans and procedures are to be in place to ensure ongoing compliance by regular maintenance.						
1.8	Reduce Road Verge Fuel: Road verges of designated evacuation routes are subject to fuel load reduction, tree management and ongoing maintenance when an authority exists to conduct and maintain.	Not Relevant	N/A	N/A	N/A	N/A
1.9	Greater Enforcement Applied to Compliance with the Local Government's Fire Break and Fuel Load Notice: Inform the relevant landowners of the high level of enforcement that will be applied under the authority conferred through Section 33 of the Bush Fires Act 1954, including any amendments.	Effective	Yes	No	No	No

PROTECTION MEASURES TO REDUCE BUSHFIRE THREAT LEVELS		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<i>Informative and/or Site Specific Comment/Assessment: The bushfire protection measures within the BMP far exceed that of the Firebreak Notice and it is a condition of approval that the site must be compliant with the local government firebreak Notice.</i>						
PROTECTION PRINCIPLE – PREVENT FIRE IGNITION BY CONTROLLING HEAT ENERGY SOURCES: Fire prevention focussed on potential ignition sources from human actions and/or faulty or poorly designed equipment. Natural causes of ignition (lightning) cannot be controlled and are a limitation.						
1.10	Operational Procedures: Apply fire safe principles to site operation procedures including: <ul style="list-style-type: none"> Eliminating or reducing the potential for open air creation of fire, embers or sparks; and Closing identified high risk operations when a bushfire event exists. Ensure safe practices are carried out via appropriate guidelines, protocols, signage and education.	Moderate	Yes	No	No	Yes
<i>Informative and/or Site Specific Comment/Assessment: Operating procedures have not yet been prepared. No ongoing works are proposed which could ignite a bushfire, except during an accident or component failure. It is advised that any hot/hazardous works are not undertaken during a Total Fire Ban or on a day with a Fire Danger Rating of Extreme or Catastrophic or under a Local Govt imposed Harvest, Vehicle movement and hot works ban.</i>						
1.11	Operational Procedures: Ensure proper management of hazard reduction burning as an unintended ignition source.	Not Relevant	N/A	N/A	N/A	N/A
1.12	Equipment Design: Apply fire safe design principles to equipment, vehicles, and energy transmission etc. Design to control rate of energy release and eliminate/reduce potential for open air creation of fire, embers or sparks.	Moderate	Yes	No	Yes	No
<i>Informative and/or Site Specific Comment/Assessment: To be included in equipment design at purchase stage. All equipment must meet minimum national standards and standards associated with BESS requirements, and this is considered adequate.</i>						
1.13	Legal Enforcement: Impose restrictions on source of ignition operations by enforcing total fire bans.	Effective	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: Onsite activity capable of igniting a fire is controlled by the Standard Operating Procedures.</i>						
1.14	Legal Enforcement: Reduce arson events by monitoring / enforcement / penalties.	Moderate	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: Unlikely to have any impact given the scale of relevant vegetation and the population density of the region.</i>						
1.15	Education: Educate persons to reduce the occurrence of accidental ignitions in vegetation by persons and/or vehicles, particularly with regard to road reserves.	Moderate	Yes	No	No	No
PROTECTION PRINCIPLE - PREVENT FIRE IGNITION BY CONTROLLING HEAT ENERGY SOURCE AND FUEL INTERACTIONS: Fire prevention focussed on limiting potential ignition sources by preventing a source and a fuel being able to interact.						

PROTECTION MEASURES TO REDUCE BUSHFIRE THREAT LEVELS		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
1.16	<p>Shielding of Ignition Sources: Utilise physical barriers (shielding) between bushfire fuels and heat energy sources such as electricity generation / transmission, fuel supplies, stored flammable products etc.</p> <p>Examples include appropriate walls, enclosures, and underground transmission of electricity or liquid/gas fuels.</p>	Moderate	Yes	No	Yes	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i> BESS units and associated infrastructure are comprised of metal exterior. Electrical cabling to and from the BESS units and associated infrastructure are underground, and any exposed cables can be shielded by non-combustible material.</p>						
1.17	<p>Separation of Ignition Sources: Establish sufficient separation distance between bushfire fuels and heat energy sources such as electricity generation / transmission, fuel supplies, stored flammable products etc.</p>	Effective	Yes	No	Yes	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i></p> <p>Fire within the facility (infrastructure, batteries or stored equipment) ignited by site operation/accident/failure may ignite vegetation. The recommended 10kW/m² APZ to be applied around the infrastructure is considered appropriate in reducing the risk of igniting a bushfire. The likelihood of flame contact in such an event is negligible. Radiant heat flux in battery fires is relatively low, the Victorian Big Battery Fire (July 2021) required only a 20m exclusion zone for personnel. Note the 10kW/m² APZ proposed is also >20m. The recommendations provided include the removal of consequential fire hazards within the APZ, and thus minimising the potential for spread of fire beyond the asset.</p>						
1.18	<p>Equipment Design: Through design and materials, control heat energy transfer via conduction, convection and radiation of heat energy.</p>	Moderate	Yes	No	No	No
<p><i>Informative and/or Site Specific Comment/Assessment:</i></p> <p>The design of equipment is appropriate. Shielding cables will minimise flame length and help contain a fire.</p>						
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; • Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or 						

PROTECTION MEASURES TO REDUCE BUSHFIRE THREAT LEVELS	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> <ul style="list-style-type: none"> Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p>					

6.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 6.2: For the stated area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

BUSHFIRE THREAT REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Prevent Fire Ignition and/or Severity by Controlling the Fuel	Very High	1	1	-	1	-
	High	-	-	-	-	-
	Effective	3	3	-	1	2
	Moderate	-	-	-	-	-
	Not Relevant	5	-	-	-	-
Prevent Fire Ignition by Controlling Heat Energy (Ignition) Sources	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	-	-
	Moderate	4	3	-	1	1
	Not Relevant	1	-	-	-	-
Prevent Fire Ignition by Controlling Heat Energy Source and Fuel Interactions	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	-	-	-	-	-
	Moderate	3	3	-	2	2
	Not Relevant	-	-	-	-	-
Total Numbers	Very High	1	1	-	1	-
	High	-	-	-	-	-
	Effective	4	4	-	1	2
	Moderate	7	6	-	3	3
	Not Relevant	6	-	-	-	-
	Totals	18	14	-	4	5

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

6.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (THREAT REDUCTION)

Table 6.3: The potential impact of the applied protection measures in reducing threat levels in the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (THREAT REDUCTION)								
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Threat Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Minimal	Medium	Significant	Significant	Minimal	Medium	Minimal	Medium
	Medium				Minimal			
Existing, Planned and Recommended (applied to residual risk)	Medium	Very Significant	Very Significant	Very Significant	Significant	Significant	Minimal	Medium
	Very Significant				Significant			
¹ Corresponds to the stage at which the risk level is to be reported i.e. inherent or residual (refer to Section 2.3.3) ² Refer to Appendix 4 for explanatory information.								

Assessment Comments:

Ember attack will likely exist regardless of the APZ due to location of the native vegetation reserve to the NNE of the site.

'Existing and Planned' measures include the acceptable solutions to the Bushfire Protection Criteria, and therefore assumes the minimum BAL-29 APZ maintained to Schedule 1 of the *Guidelines*.

6.4 ASSESSED HAZARD THREAT LEVELS

Assessed as a function of the base threat levels of the bushfire hazard (refer to Section 5.5) and the number and effectiveness of protection measures that will be applied and their ability to reduce the base levels of threat from the identified areas of bushfire prone vegetation (Note: This assessment is independent of the exposure level and vulnerability level assessments).

Table 6.4: The assessed threat levels corresponding to the stated area of bushfire prone vegetation.

ASSESSED HAZARD THREAT LEVELS								
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Threat Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Low	Very Low	Very Low	Low	Low	Very Low	Moderate	Very Low
	Moderate							
Existing, Planned and Recommended (applied to residual risk)	Very Low	Very Low	Very Low	Very Low	Low	Very Low	Moderate	Very Low
	Low							
Vegetation Area / Location	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.							
Existing and Planned (applied to inherent risk)	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Low	Very Low
	Low							

¹ Corresponds to the stage at which the risk level is to be reported i.e. inherent or residual (refer to Section 2.3.3).
² Refer to Appendix 2 for explanatory information.

Assessment Comments:

As identified in Section 5.3, there are a number of protection measures that can be applied to reduce the potential bushfire threat levels presented by the bushfire prone vegetation.

The protection measures will ensure the threat levels generated by a bushfire via the direct and indirect bushfire attack mechanisms, will be reduced. This includes the proposed APZ (as described within the associated BMP) and shielding of exposed cables where possible/practical.

There is little aside from the regular removal of accumulated debris against relevant infrastructure and strict management of the APZ, that operations management can do post-construction and during operation. From a preparation as opposed to a response perspective, this will ensure the threat levels generated by a bushfire (via the direct and indirect bushfire attack mechanisms), will be reduced.

For bushfire prone vegetation within the broader locality, inherent risk only is applied as treatments are not available. The ratings are on the base hazard posed, not the exposure or vulnerability of assets to the hazard.

7 EXPOSURE LEVEL ASSESSMENT OF THE ELEMENTS AT RISK

SUMMARY OF THE QUALITATIVE ASSESSMENT PROCESS

4. Identify all protection measures (grouped by protection principle) that are available to reduce exposure levels and rate their effectiveness;
5. Produce a numerical summary of all potential exposure reducing protection measures that are available and determine their application status;
6. Assess the potential exposure reducing impact of the package of protection measures that is able to be applied. The effectiveness rating weights the potential impact of an individual measure; and
7. Derive the exposure level of the identified element at risk, to the threats presented by each identified area of bushfire prone vegetation (refer to Section 2.3.3 and Appendix 2 for additional risk assessment process information).

7.1 PERSONS ONSITE OR TEMPORARILY OFFSITE

7.1.1 PROTECTION MEASURES AVAILABLE TO REDUCE EXPOSURE LEVELS AND THEIR APPLICATION STATUS

Table 7.1: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: PERSONS LOCATED ONSITE AND TEMPORARILY OFFSITE						
PROTECTION PRINCIPLE – SEPARATION FROM THE HAZARD: To ensure that the persons are located or re-located at a sufficient distance from the bushfire hazard to ensure the level of exposure to the threats, and the associated risk of persons death or injury, is contained within acceptable parameters.						
2.1	Stay Away from the Subject Site: In response to a pre-determined fire danger rating and/or total fire ban or set months of the year (bushfire season), prevent access to, occupancy or operation of the subject site (i.e. closure of use). The relevant conditions and the requirement to stay away will be established through a Bushfire Emergency Plan.	Very High	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The site does not have regular staffing. Suitable egress and shelter locations are available so the measure is not necessary. Local Govt. imposed Harvest and Vehicle movement, hots works bans will also need to be considered.</i>						
2.2	Stay Within the Subject Site – Remote Hazard: For offsite tourism operations, all associated persons (staff, guests, visitors), in response to a pre-determined fire danger rating and/or total fire ban, will remain on-site as better communication and sheltering options exist on-site. The relevant conditions and the requirement to stay will be established through a Bushfire Emergency Plan.	Not Relevant	N/A	N/A	N/A	N/A

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
2.3	Relocate Away from Remote Hazard - Safer Offsite Location Available: For offsite tourism operations (where persons are to be moved offsite as part of operations e.g., tourism day trips), a suitable offsite alternative safer location(s) is identified as a destination should the subject site and/or the route back to the subject site, be impacted by a bushfire event. That is, two safer locations will exist.	Not Relevant	N/A	N/A	N/A	N/A
2.4	Evacuate from the Subject Site: Safer Offsite Location(s) Available: A building/area is accessible from the subject site as an evacuation destination. The offsite location exists at a sufficient distance away ensuring that the destination and the subject site are very unlikely to be simultaneously impacted by a bushfire event.	Moderate	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The site does not have regular staffing. Any attending staff will have their own vehicle immediately available and will self-evacuate. There are multiple directions for evacuation to safer place by road.</i>						
2.5	Relocate Within the Subject Site - Safer Onsite Area: Provide an accessible area located in the open (i.e. not in an enclosed building), within the subject site and on which persons can assemble and that will not be subject to radiant heat flux in excess of 2 kW/m ² (determined using a flame temperature of 1200 K). Consideration must also be given to potential exposure to embers, adverse weather, availability of water / facilities and the relative importance of these to the specific use proposal.	Moderate	Yes	No	Yes	No
<i>Informative and/or Site Specific Comment/Assessment: The site does not have regular staffing. No areas onsite will be subject to <2kW/m2 radiant heat flux.</i>						
2.6	Relocate Within the Subject Site – Pathway to Safer Onsite Area/Building: To facilitate the lower risk movement, on foot, of persons and firefighters on the site, heavy fuels are excluded from areas adjacent to pathways used to access designated safer locations onsite. The required minimum separation distances are [13] [31]: <ul style="list-style-type: none"> At least 4m from stored heavy fuels (refer to Appendix 4). At least 6m from stored and constructed large heavy fuels (refer to Appendix 4). At least 12m from constructed large heavy fuels that are buildings/structures other than the one being evacuated. Additionally: <ul style="list-style-type: none"> The pathway/route is constructed of non-combustible materials; No gas bottles are venting towards the pathway/route; and Shrubs are separated from the pathway/route corresponding to a distance to minimise the threats to persons on foot with consideration of their flammability and height. 	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: No heavy fuels are stored onsite.</i>						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
2.7	Pre-emptively Relocate Away from the Subject Site: In response to a pre-determined fire danger rating and/or total fire ban or other established conditions, all persons onsite will pre-emptively relocate offsite for the duration of the existence of the conditions. The relevant conditions and the requirement to pre-emptively relocate will be established through a Bushfire Emergency Plan.	Effective	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The site does not have regular staffing. Suitable egress and shelter locations are available so the measure is not necessary. Local Govt. imposed Harvest and Vehicle movement, hots works bans will also need to be considered.</i>						
PROTECTION PRINCIPLE – SHIELDING FROM THE HAZARD: To utilise constructed or natural shielding to reduce the exposure of persons to the flame, radiant heat, and ember attack from bushfire and consequential fire.						
2.8	On-site Shelter Building – Community Refuge: For a 'vulnerable land use' (defined by SPP 3.7 [43]), provide a building which is constructed in accordance with the NCC and the ABCB Design and Construction of Community Bushfire Refuges – Information Handbook [20]. Note: preferred floor area per person is an increase from 0.75 m ² to 1.0 m ² (Guidelines v1.4) [22].	Not Relevant	N/A	N/A	N/A	N/A
2.9	On-site Shelter Building – No Accommodation in the Site Use: For a 'vulnerable land use' (defined by SPP 3.7 [43]), and for which accommodation is not part of the site use, provide a building that will not be subject to radiant heat flux in excess of 10 kW/m ² (determined using AS 3959 BAL determination methodology [4] and applying a flame temperature of 1200 K) and constructed to the bushfire standard corresponding to the BAL-29 rating (to provide greater resistance to consequential fire).	Not Relevant	N/A	N/A	N/A	N/A
2.10	On-site Shelter Building – Appropriate Threat Resilience: For other than a 'vulnerable land use' (defined by SPP 3.7 [43]), provide a building that incorporates sufficient design and construction protection measures to reduce the building vulnerability to bushfire and consequential fire threats to an appropriate level (refer to the section of this report that identifies bushfire protection measures to reduce the vulnerability of buildings/structures). Alternatively, provide a building that will not be subject to radiant heat flux in excess of 10 kW/m ² (determined using AS 3959 BAL determination methodology [4] and applying a flame temperature of 1200 K) and constructed to the bushfire standard corresponding to the BAL-29 rating (to provide greater resistance to consequential fire).	Effective	N/A	N/A	N/A	N/A
2.11	On-site Shelter Structure – Class 10c: Provide a private bushfire shelter (Class 10c building) constructed in accordance with the NCC and the <i>Performance Standard – The design and construction of private bushfire shelter (ABCB 2014)</i> . This is not a standalone measure but an additional measure as a last resort.	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: The site does not have regular staffing and no habitable structures are proposed.</i>						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
2.12	<p>Constructed Barrier – Shield Persons in the Open: Construct walls / fences / landforms as shielding structures that are not buildings, applying appropriate fire resistant / non-combustible construction materials (e.g. masonry, steel, earthworks). These are to withstand the impact of direct bushfire attack mechanisms for the required period of time and provide the required reduction in threat levels to persons in the open.</p> <p>Construction requirements will correspond, as a minimum, to the BAL-FZ requirements for walls as established by AS 3959:2018 [4] and/or the NASH Standard [33] and additionally informed by the research report 'Research and Investigation into the Performance of Residential Boundary Fencing Systems in Bushfires' [29].</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: The site does not have regular staffing and safe (early) evacuation will be the bushfire response.</i>						
2.13	<p>Natural Barrier – Shield Persons in the Open: Utilise natural landforms that have the potential to shield persons from the bushfire and consequential fire threats.</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: No such landforms exist.</i>						
2.14	<p>Constructed/Natural Barrier – Shielding for Persons on Pathways to Safer Onsite Area/Building: Where possible, alongside pathways to an on-site shelter building/area, utilise walls / fences / landforms as shielding structures constructed using fire resistant / non-combustible construction materials (e.g. masonry, steel, earthworks).</p> <p>These are to withstand the impact of direct bushfire attack mechanisms for the required period of time and provide the required reduction in threat levels to persons (including firefighters) traversing the pathway.</p> <p>Construction can be informed by the BAL-FZ requirements for walls as established by AS 3959:2018 [4] and/or the NASH Standard [33] and additionally informed by the research report 'Research and Investigation into the Performance of Residential Boundary Fencing Systems in Bushfires' [29].</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: No safer onsite location has been identified.</i>						
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; 						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> <ul style="list-style-type: none"> Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p>					

7.1.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 7.2: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

EXPOSURE REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Persons located onsite and temporarily offsite					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Separation from the Hazard	Very High	1	1	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	-	-
	Moderate	2	2	-	1	-
	Not Relevant	3	-	-	-	-
Shielding from the Hazard	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	-	-	-	-	-
	Moderate	-	-	-	-	-
	Not Relevant	7	-	-	-	-
Total Numbers	Very High	1	1	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	-	-
	Moderate	2	2	-	1	-
	Not Relevant	10	-	-	-	-
	Totals	14	4	-	1	-

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

7.1.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (EXPOSURE REDUCTION)

Table 7.3: For the stated element at risk, The potential impact of the applied protection measures in reducing exposure levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (EXPOSURE REDUCTION)								
Element at Risk	Persons located onsite and temporarily offsite							
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Exposure Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accum.	Conseq. Fire	Fire Driven Wind	Tree Strike / Obstruct
Existing and Planned (applied to inherent risk)	Minimal	Medium	Significant	Medium	Minimal	Medium	Minimal	Medium
	Medium				Medium			
¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3 ² Refer to Appendix 4 for explanatory information.								

7.1.4 ASSESSED EXPOSURE LEVELS

Assessed as a function of the capacity to apply sufficient exposure reducing protection measures, their individual effectiveness and their combined impact in reducing the exposure of the identified element at risk (Note: This assessment is independent of the threat level and vulnerability level assessments).

Table 7.4: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED EXPOSURE LEVELS	
Element at Risk	Persons located onsite and temporarily offsite
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.
Exposure Reducing Protection Measures Applied to Assessment ¹	Relative Exposure Level ²
Existing and Planned (applied to inherent risk)	Moderate
¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3 ² Refer to Appendix 2 for explanatory information.	

Assessment Comments: A shelter building/location has not been identified or recommended as the site is unstaffed.

7.2 PERSONS ON ACCESS/EGRESS ROUTES IN VEHICLES

7.2.1 PROTECTION MEASURES AVAILABLE TO REDUCE EXPOSURE LEVELS AND THEIR APPLICATION STATUS

Table 7.5: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: PERSONS ON ACCESS/EGRESS ROUTES IN VEHICLES						
Access/Egress Route ID:	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.					
PROTECTION PRINCIPLE - SEPARATION FROM ALL BUSHFIRE THREATS: To utilise distance away from all relevant bushfire hazard threats (direct and indirect attack mechanisms) while traversing an access/egress route in a vehicle to lower the exposure of persons to the threats for the expected time on the route.						
3.1	Locating Routes Away from Adjacent Hazards: Existing or to be installed vehicular access/egress route components (roads, access ways, and driveways) are positioned to maximise the distance away from any adjacent bushfire prone vegetation where possible.	Not Relevant	N/A	N/A	N/A	N/A
3.2	Egress Routes Located to Ensure Driving Away from Hazard: Existing or to be installed vehicular access/egress route components (roads, access ways, and driveways) are positioned so that the direction of egress is away from the hazard into lower threat areas.	Not Relevant	N/A	N/A	N/A	N/A
3.3	Greater Road Width: Wider roads will allow for a greater separation distance between traversing vehicles and the bushfire hazard. The incorporation of non-vegetated and trafficable road verges/shoulders and adjacent footpaths can also safely increase effective separation for slower moving vehicles.	Not Relevant	N/A	N/A	N/A	N/A
3.4	Reduce and Maintain Road Verge Fuel to Low Threat State: Road verges, or part off, have vegetation removed or reduced to a minimal fuel, low threat state annually to increase the separation distance from the bushfire hazard. This is practical when an authority exists to conduct the management and will have greater impact as a protection measure if there is certainty it will be carried out.	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: The measures are not under the control of the developer.</i>						
PROTECTION PRINCIPLE - SHIELDING FROM ALL BUSHFIRE THREATS: To utilise constructed or natural shielding to reduce the exposure of persons traversing the access/egress routes to the direct attack mechanisms of bushfire. To assist with ensuring the level of exposure to the threats is survivable for the expected time on the route while travelling in a vehicle.						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
3.5	<p>Vehicle Type – Protection Level: People can only tolerate low levels of radiant heat without some protection. Vehicles provide some protection from low intensity fires (if they stay on cleared area and remain in the vehicle) but they will not protect people in moderate to intense grass fires or in any location where scrub or forest adjoin the road.</p> <p>Protection provided by vehicles with predominantly metal bodies (including roof) and able to be enclosed (glass window), while limited is also still significant. It is particularly significant when compared to other potentially available modes of transport on roads (e.g. open top/backed vehicles, motorbikes, bicycles and being on foot).</p> <p>The availability such vehicles of required capacity can contribute to reduced exposure to the bushfire threats for persons on access/egress routes.</p>	Not Relevant	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment: Most evacuees vehicles will have an enclosed cabin, but it is unreasonable for this to be assumed, expected, or required.</i></p>						
3.6	<p>Shelter in Place Procedure: In most situations, safe (early) evacuation is considered the emergency procedure which poses the least risk to occupants. In some situations, Shelter-in-place may be considered the safer procedure, particularly where:</p> <ul style="list-style-type: none"> • The type or number of occupants makes evacuation time consuming or otherwise difficult; • The evacuation route(s) available are not suitable for the volume of evacuees; • The route(s) available have poor visibility, gradients, surface quality etc, or; • The routes(s) available are bounded by bushfire prone vegetation of an unacceptable hazard and/or extent. 	Very High	Yes	No	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: Two appropriate access/egress routes are available and any potential occupants (staff) will have local awareness and transportation available. The access/egress routes run through farm land and adjacent to the existing solar installation with Robartson Rd access/egress in a north direction towards the Great Eastern Highway and the town of Merredin, and south direction for approx. 750m before meeting the Bruce Rock – Merredin Rd in an east or west direction.</i></p> <p><i>Safe (early) evacuation is the primary procedure for occupants (staff) during bushfire emergencies. Shelter in place has not been established as a secondary procedure as a suitable open location or building is not available.</i></p>						
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; 						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> <ul style="list-style-type: none"> Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p>					

7.2.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 7.6: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

EXPOSURE REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Persons on access/egress routes in vehicles					
Access/Egress Route ID	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Separation from the Bushfire Hazard	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	-	-	-	-	-
	Moderate	-	-	-	-	-
	Not Relevant	4	-	-	-	-
Shielding from the Bushfire Hazard	Very High	1	1	-	-	-
	High	-	-	-	-	-
	Effective	-	-	-	-	-
	Moderate	-	-	-	-	-
	Not Relevant	1	-	-	-	-
Total Numbers	Very High	1	1	-	-	-
	High	-	-	-	-	-
	Effective	-	-	-	-	-
	Moderate	-	-	-	-	-
	Not Relevant	5	-	-	-	-
	Totals	6	1	-	-	-

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

7.2.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (EXPOSURE REDUCTION)

Table 7.6: For the stated element at risk, The potential impact of the applied protection measures in reducing exposure levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (EXPOSURE REDUCTION)								
Element at Risk	Persons on access/egress routes in vehicles							
Access/Egress Route ID	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.							
Exposure Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Minimal	Minimal	Minimal	Medium	N/A	N/A	Medium	Minimal
	Minimal				Medium			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3
² Refer to Appendix 4 for explanatory information.

7.2.4 ASSESSED EXPOSURE LEVELS

Assessed as a function of the capacity to apply sufficient exposure reducing protection measures, their individual effectiveness and their combined impact in reducing the exposure of the identified element at risk (Note: This assessment is independent of the threat level and vulnerability level assessments).

Table 7.7: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED EXPOSURE LEVELS	
Element at Risk	Persons on access/egress routes in vehicles
Access/Egress Route ID	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.
Exposure Reducing Protection Measures Applied to Assessment ¹	Relative Exposure Level ²
Existing and Planned (applied to inherent risk)	High

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3
² Refer to Appendix 2 for explanatory information.

Assessment Comments: The local and regional road network and its proximity to bushfire prone vegetation is not under the control of the landowner. No recommendations have been applied as the development is intended to be unstaffed.

Safe (early) evacuation is the primary procedure for any potential occupants (staff) during bushfire emergencies.

The access/egress routes run through farm land and adjacent to the existing solar installation with Robartson Rd access/egress in a north direction towards the Great Eastern Highway and the town of Merredin, and south direction for approx. 750m before meeting the Bruce Rock – Merredin Rd in an east or west direction.

7.3 BUILDINGS AND STRUCTURES NCC CLASSES 1-10

7.3.1 PROTECTION MEASURES AVAILABLE TO REDUCE EXPOSURE LEVELS AND THEIR APPLICATION STATUS

Table 7.8 All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: BUILDINGS/STRUCTURES - NCC CLASSES 1-10						
PROTECTION PRINCIPLE – SEPARATION FROM ALL BUSHFIRE THREATS (SITING): To locate (site) the buildings and attached/adjacent structures at distances away from the direct and indirect attack mechanisms of bushfire (the hazard threats) to reduce their exposure. The required distances will be dependent on the relative threat levels and the degree of bushfire resilience that is or is planned to be incorporated into the exposed elements through design and construction.						
4.1	<p>Asset Protection Zone (APZ): Ensure an APZ can be established surrounding the exposed element(s) to create the required separation distance from the bushfire hazard and its threats (the direct and indirect attack mechanisms). This is to be an area containing minimal fire fuels and maintained in a low threat state. The <i>Explanatory Notes for Element 2 of the Bushfire Protection Criteria and Schedule 1: Standards for Asset Protection Zones</i> established in the Guidelines [22] provides the key requirements for establishing and maintaining an APZ.</p> <p>Additional requirements may exist within a relevant local governments firebreak notice, or the responsibilities established by an applicable Bushfire Management Plan (BMP).</p> <p>The required dimensions of the APZ will correspond to the maximum level of radiant heat the exposed element is to be exposed to – or a greater distance if it is stipulated by a different authority (e.g. firebreak notice of BMP). As a minimum avoid dimensions (separation distances) that correspond to BAL-FZ and BAL-40 ratings for any given site/vegetation combination of relevant the parameters (Note: this will also apply to BAL-29 separation distances if flame length modelling indicates potential contact due to specific site and effective slope configurations).</p> <p>The APZ should be contained solely within the boundaries of each lot, except in instances where the neighbouring lot(s) or adjacent public land will be managed in a low-fuel state on an ongoing basis, in perpetuity.</p> <p>Note that the APZ does not provide separation from the consequential fire attack mechanism. Separation from consequential fire fuels requires additional assessment and management.</p>	Effective	Yes	No	Yes	Yes
<i>Informative and/or Site Specific Comment/Assessment: A BAL-29 APZ can be established for all Class 1-10 buildings onsite. The BESS cabinets and associated infrastructure within the facility are required to establish a <10kW/m2 APZ. This will result in a BAL-12.5 APZ being established around most (if not all) Class 1-10 buildings, exceeding the BAL-29 'Planning' APZ.</i>						
4.2	<p>Siting of Buildings/Structures - Wind: Site the buildings and attached/adjacent structures in locations that have lower wind exposure. Avoid the top and sides of ridges which are especially vulnerable to fire driven winds as well as topographically</p>	Not Relevant	N/A	N/A	N/A	N/A

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
	influenced winds. Winds can directly or indirectly (carrying materials/debris) cause damage to the external building envelope potentially allowing flame, radiant heat and ember entry.					
<i>Informative and/or Site Specific Comment/Assessment: Not possible as the local area has consistent topography.</i>						
4.3	<p>Use of Non-Vegetated Areas and/or Public Open Space: Reduce exposure by increasing separation from APZ landscaping vegetation and/or the bushfire hazard by incorporating these lowest threat areas adjacent to buildings/structures and/or adjacent to the bushfire hazard.</p> <p>These lowest threat components of the APZ include non-vegetated areas (e.g. footpaths, paved areas, roads, parking, drainage, swimming pools), formally managed areas of vegetation (public open space and other recreation areas) and services installed in a common section of non-vegetated land. These elements create robust and easier managed asset protection zones.</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: There are few such areas existing or proposed.</i>						
4.4	<p>Landscaping - Tree Location: Use separation to minimise the potential for debris accumulation and tree strike damage to the building envelop potentially allowing flame, radiant heat and ember entry to internal spaces.</p> <ul style="list-style-type: none"> The buildings/structures are separated from trees (or trees from buildings) by a distance of at least 1.5 times the height of the tallest tree. Trees that produce significant quantities of debris (fine fuels) during the bushfire season should be located a sufficient distance away from vulnerable exposed elements to ensure debris cannot Drop and accumulate within at least 4m of buildings/structures or be likely to be relocated by wind to closer than 4m to buildings / structures. If the minimum distance cannot be achieved with an existing tree either remove the tree or at least ensure tree branches are sufficiently separated from buildings and attached/adjacent structures (at a minimum to not overhang) to ensure branches cannot fall onto or be blown onto the buildings/structures. 	Moderate	Yes	Yes	Yes	No
<i>Informative and/or Site Specific Comment/Assessment: Trees are not proposed within the APZ.</i>						
4.5	<p>Separation of Stored Flammable Products - Gas in Cylinders: To reduce the potential for gas flaring or explosion (consequential fire), installation of LPG cylinders is to apply as a minimum, the principles and requirements established in AS 1596 and LP Gas cylinder safety in bushfire prone areas (Energy Safety – Govt. of WA).</p> <p>Otherwise, the required separation distance is 6m from any combustible materials.</p>	Not Relevant	N/A	N/A	N/A	N/A

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
	Heat from bushfire or consequential fire can be sufficient to cause cylinder pressure to reach critical levels and the pressure relief valve release large quantities of gas (flare). If the cylinder falls over the pressure relief valve may not function correctly, and the cylinder may rupture (explosion).					
<i>Informative and/or Site Specific Comment/Assessment: No gas storage will be on site.</i>						
4.6	Separation from Stored Flammable Products – Fuels / Other Hazardous Materials: Establish sufficient separation distance between the consequential fire fuels and buildings/structures. The required separation distance will be dependent on the fuel and storage type.	Moderate	Yes	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The BESS units will be installed to manufacturers specification, including separation distances. Fuels and other hazardous material will not be stored on site.</i>						
4.7	<p>Separation from Stored and Constructed Combustible Items: These consequential fire fuels include:</p> <ul style="list-style-type: none"> • Stored Combustible Items - Heavy Fuels e.g. building materials, packaging materials, firewood, sporting/playground equipment, outdoor furniture, rubbish bins etc; • Stored Combustible Items – Large Heavy Fuels e.g. vehicles, caravans, boats and large quantities of dead vegetation materials stored as part of site use. • Constructed Combustible Items – Heavy Fuels e.g. landscaping structures including fences, screens, walls, plastic water tanks. • Constructed Combustible Items – Large Heavy Fuels e.g. adjacent buildings/structures including houses, sheds, garages, carports. (Note: If the adjacent structure is constructed to BAL-29 requirements or greater and can implement a significant number of additional bushfire protection measures associated with reducing exposure and vulnerability, these minimum separation distances could be reduced by 30%) [31]. <p>Apply the rule of thumb [13] “assume flames produced from a consequential fire source will be twice as high as the object itself ... where the consequential fire source is a structure, then the maximum eave height is a reasonable measure of maximum height”.</p> <p>Apply the following separation distances from the subject building/structure as a multiple of the height of the consequential fire source and dependent on the construction standard applied to the building/structure [13 and 31]:</p> <ul style="list-style-type: none"> • At least six times the height when the building/structure construction incorporates design and materials that is only intended to resist low levels of radiant heat up to 12.5 kW/m²) and no flame contact; 	Moderate	Yes	No	No	Yes

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
	<ul style="list-style-type: none"> Between 4 and 6 six times the height when the building/structure construction incorporates design and materials intended to resist radiant heat up to 29 kW/m² and no flame contact. Between 2 and 4 times the height when the building/structure construction incorporates design and materials intended to resist up to 40kW/m² and potential flame contact. Less than 2 times the height when the building/structure construction incorporates design and materials intended to resist extreme levels of radiant heat and flame contact. Zero separation distance is required if the building/structure is separated by a non-combustible FRL 60/60/60 rated wall or the potential consequential fire source is fully enclosed by the building/structure. 					
<i>Informative and/or Site Specific Comment/Assessment: When storage of flammable items or materials are stored on site temporarily (for maintenance etc), separation distances must be complied with.</i>						
PROTECTION PRINCIPLE – SHIELDING FROM ALL BUSHFIRE THREATS: To shield buildings and attached/adjacent structures (or other consequential fire fuels) from the direct bushfire attack mechanisms of flame, radiant heat, surface fire and surface migration of embers. To also reduce exposure to the indirect attack mechanism of debris accumulation against buildings/structures and other consequential fire fuels and wind attack.						
4.8	<p>Constructed Barrier – Shielding from Bushfire: Walls, fences and/or landforms to shield the subject building/structure from direct and indirect bushfire attack mechanisms and reduce the potential impact of these threats to vulnerable exposed elements.</p> <p>Must be constructed using appropriate fire resistant / non-combustible construction materials (e.g. masonry, steel, earthworks). These are to withstand the impact of direct bushfire attack mechanisms for the required period of time.</p> <p>Apply the bushfire construction standards for external walls subject to the assessed level of radiant heat or flame contact to which the barrier will be exposed (or otherwise to BAL-FZ requirements). These are established by AS 3959:2018 [4] and/or the NASH Standard [33] and additionally informed by the research report 'Research and Investigation into the Performance of Residential Boundary Fencing Systems in Bushfires.' [29]</p>	High	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measure is not cost-effective or necessary where greater separation distance can be achieved.</i>						
4.9	<p>Constructed Barrier - Shielding from Consequential Fire: Applicable to all consequential fire fuel sources. Install a non-combustible barrier (including complete enclosure when appropriate), of required robustness, that can perform the following as relevant:</p> <ul style="list-style-type: none"> Reduce the exposure of the subject building/structure to the threats of consequential fire; and/or Reduce the exposure of the consequential fire fuels to the bushfire hazard. 	Moderate	Yes	No	No	Yes

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<i>Informative and/or Site Specific Comment/Assessment: Ensure all subfloor spaces are sealed or enclosed with non-combustible solid material or ember screening mesh (corrosion-resistant steel, bronze, or aluminium with an aperture <2mm).</i>						
4.10	Natural Barrier - Landforms: Use existing natural landforms to reduce buildings/structures exposure to radiant heat, and lower wind speeds (prevailing synoptic and/or fire driven).	Not Relevant	N/A	N/A	N/A	N/A
4.11	Planted Barrier - Vegetation Barrier: Use appropriate hedges and trees strategically to reduce (to varying extents) buildings/structures exposure to radiant heat, to filter/trap embers and firebrands, and to lower wind speeds (prevailing synoptic and/or fire driven).	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: Sufficiently low radiant heat flux can be achieved through separation distance.</i>						
4.12	Shield Non-Structural Essential Elements: These are elements essential to the continued operation of the building/structure which are potentially exposed to fire attack mechanisms of both bushfire and consequential fire. They include cabling and plumbing associated with power / data transmission and water / fuel transport. When the use of fire rated materials to the degree necessary is not possible or practical, the application of non-combustible shielding can be applied to reduce exposure to the bushfire threats. Shielding includes underground installation.	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: The building(s) are unlikely to have external essential elements, other than those related to Merredin BESS operation (addressed as a Fixed (Hard) Infrastructure Asset).</i>						
¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.						
² Protection Measure Application Status: <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; • Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or 						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> <ul style="list-style-type: none"> Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p>					

7.3.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 7.9: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

EXPOSURE REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Buildings/Structures - NCC Classes 1-10					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Separation from the Hazard	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	1	1
	Moderate	3	3	2	1	1
	Not Relevant	3	-	-	-	-
Shielding from the Hazard	Very High	-	-	-	-	-
	High	1	1	-	-	-
	Effective	-	-	-	-	-
	Moderate	1	1	-	-	1
	Not Relevant	3	-	-	-	-
Total Numbers	Very High	-	-	-	-	-
	High	1	1	-	-	-
	Effective	1	1	-	1	1
	Moderate	4	4	2	-	2
	Not Relevant	6	-	-	-	-
	Totals	12	6	2	1	3

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

7.3.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (EXPOSURE REDUCTION)

Table 7.10: For the stated element at risk, The potential impact of the applied protection measures in reducing exposure levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (EXPOSURE REDUCTION)								
Element at Risk	Buildings/Structures - NCC Classes 1-10							
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Exposure Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accum.	Conseq. Fire	Fire Driven Wind	Tree Strike / Obstruct
Existing and Planned (applied to inherent risk)	Medium	Medium	Medium	Significant	Significant	Medium	Medium	Medium
	Medium				Medium			
Existing, Planned and Recommended (applied to residual risk)	Significant	Very Significant	Very Significant	Very Significant	Significant	Significant	Significant	Very Significant
	Very Significant				Significant			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 4 for explanatory information.

Assessment Comments: The comparison considers the BAL-29 APZ required for planning approval, against the recommended setbacks and additional measures. Objects should be positioned away from relevant assets to reduce the capacity for consequential fire spread.

7.3.4 ASSESSED EXPOSURE LEVELS

Assessed as a function of the capacity to apply sufficient exposure reducing protection measures, their individual effectiveness and their combined impact in reducing the exposure of the identified element at risk (Note: This assessment is independent of the threat level and vulnerability level assessments).

Table 7.11: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED EXPOSURE LEVELS	
Element at Risk	Buildings/Structures - NCC Classes 1-10
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.
Exposure Reducing Protection Measures Applied to Assessment ¹	Relative Exposure Level ²
Existing and Planned (applied to inherent risk)	Moderate
Existing, Planned and Recommended (applied to residual risk)	Low

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 2 for explanatory information.

7.4 FIXED (HARD) INFRASTRUCTURE ASSETS

7.4.1 PROTECTION MEASURES AVAILABLE TO REDUCE EXPOSURE LEVELS AND THEIR APPLICATION STATUS

Table 7.12: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: FIXED (HARD) INFRASTRUCTURE ASSETS						
PROTECTION PRINCIPLE – SEPARATION FROM ALL BUSHFIRE THREATS (SITING): To locate (site) the buildings and attached/adjacent structures at distances away from the direct and indirect attack mechanisms of bushfire (the hazard threats) to reduce their exposure. The required distances will be dependent on the relative threat levels and the degree of bushfire resilience that is or is planned to be incorporated into the exposed elements through design and construction.						
6.1	<p>Asset Protection Zone (APZ): Ensure an APZ can be established surrounding the exposed element(s) to create the required separation distance from the bushfire hazard and its threats (the direct and relevant indirect attack mechanisms).</p> <p>This is to be an area containing minimal fire fuels and maintained in a low threat state. The <i>Explanatory Notes for Element 2 of the Bushfire Protection Criteria and Schedule 1: Standards for Asset Protection Zones</i> established in the Guidelines [22] provides the key requirements for establishing and maintaining an APZ.</p> <p>Additional requirements may exist within a relevant local governments firebreak notice, or the responsibilities established by an applicable Bushfire Management Plan (BMP).</p> <p>The required dimensions of the APZ will correspond to the maximum level of radiant heat the exposed element is to be exposed to – or a greater distance if it is stipulated by a different authority (e.g. firebreak notice or BMP). As a minimum avoid dimensions (separation distances) that correspond to BAL-FZ and BAL-40 ratings for any given site/vegetation combination of the relevant parameters. Note that this will also apply to BAL-29 separation distances if flame length modelling indicates potential contact due to specific site and effective slope configurations.</p> <p>The APZ should be contained solely within the boundaries of each lot, except in instances where the neighbouring lot(s) or adjacent public land will be managed in a low-fuel state on an ongoing basis, in perpetuity.</p> <p>Note that the APZ does not provide separation from the consequential fire attack mechanism. Separation from consequential fire fuels requires additional assessment and management.</p>	Effective	Yes	No	Yes	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i> The required separation distance is a function of the relevant levels of the bushfire threats (attack mechanisms) presented by the vegetation and the relevant vulnerabilities of the identified elements at risk (the BESS System and associated infrastructure).</p>						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<p>The relevant threats are the flame lengths and the potential for radiant heat transfer as determined from the design fire modelling for the vegetation types that have been identified.</p> <p>BESS technologies are continuing to develop and the critical heat flux thresholds of assets may vary slightly between engineering designs. The exterior and structural components of battery cabinets are non-combustible, generally being metal, fibrous cement, mineral wool etc. A battery cabinet is a sea container-sized with a series of battery racks installed. A single battery rack consists of battery cells (each cell connected into a module), and a control box with chiller. Power and computer cabling is associated within and between racks. These are the relevant components regarding potential for fire.</p> <ul style="list-style-type: none"> The individual batteries have been found to be highly resistant to conductive heat. Applied temperatures exceeding 400 degrees Celsius destroyed, but did not ignite, running battery cells. See <i>UL 9540A Test Method for Evaluating Thermal Runaway Fire Propagation in Cell Energy Storage Systems, Third Edition</i> (UL LLC; 8 July 2020). Other trigger/failure conditions must be met for battery cells to ignite (mechanical rupture, flame contact, product failure etc). Control boxes are computers which will apply thermal throttling and thermal shutdown if internal temperatures exceed a determined threshold. Once a computer system is shut down in this scenario, the threshold is expected to be that of the cabling (below). Associated cabling (both power transmission and computer). Common electrical cabling reaches its critical point at >12kW/m² (Kaczorek-Chrobak et al. 2007) [49]. Electrical cabling and components are expected to exceed this standard, being industrial and high capacity, however the 12kW threshold is adopted for the highest potential vulnerability. <p>Recommendation: An APZ is to be established around electrical components and infrastructure. This APZ will ensure exposure to the bushfire hazard threat of radiant heat will be limited to a maximum radiant heat flux of 10 kW/m² (calculated with an assumed flame temperature of 1090K) by providing the required separation distances from the bushfire hazard. The 10m portion of the APZ immediately around the assets must be entirely and permanently non-vegetated (sealed, compacted limestone, gravel, mineral earth etc).</p>						
6.2	<p>Siting of Buildings/Structures - Wind: Site the buildings/structures/infrastructure in locations that have lower wind exposure. Avoid the top and sides of ridges which are especially vulnerable to fire driven winds as well as topographically influenced winds. Winds can directly or indirectly (carrying materials/debris) cause damage to the external building envelope potentially allowing flame, radiant heat and ember entry.</p>	Not Relevant	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment: Not possible as the proposed facility is extensive and the topography is consistent (flat to very gentle slope).</i></p>						
6.3	<p>Use of Non-Vegetated Areas and/or Public Open Space: Reduce exposure by increasing separation from APZ landscaping vegetation and/or the bushfire hazard by incorporating these lowest threat areas adjacent to buildings/structures and/or adjacent to the bushfire hazard.</p> <p>These lowest threat components of the APZ include non-vegetated areas (e.g. footpaths, paved areas, roads, parking, drainage, swimming pools), formally managed areas of vegetation (public open space and other recreation areas) and services installed in a common section of non-vegetated land. These elements create robust and easier managed asset protection zones.</p>	Not Relevant	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment: There are no such areas existing or proposed.</i></p>						

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
6.4	<p>Landscaping - Tree Location: Use separation to minimise the potential for debris accumulation and tree strike damage to the building envelop potentially allowing flame, radiant heat and ember entry to internal spaces.</p> <ul style="list-style-type: none"> The buildings/structures are separated from trees (or trees from buildings) by a distance of at least 1.5 times the height of the tallest tree. Trees that produce significant quantities of debris (fine fuels) during the bushfire season should be located a sufficient distance away from vulnerable exposed elements to ensure debris cannot drop and accumulate within at least 4m of buildings/structures or be likely to be relocated by wind to closer than 4m to buildings / structures. If the minimum distances cannot be achieved with an existing tree either remove the tree or at least ensure tree branches are sufficiently separated from buildings and attached/adjacent structures (at a minimum to not overhang) to ensure branches cannot fall onto or be blown onto the buildings/structures. 	Moderate	Yes	Yes	Yes	No
<i>Informative and/or Site Specific Comment/Assessment: Trees are not proposed within the <10kW/m2 APZ.</i>						
6.5	<p>Separation from Stored Flammable Products - Gas in Cylinders: To reduce the potential for gas flaring or explosion (consequential fire), installation of LPG cylinders is to apply as a minimum, the principles and requirements established in AS 1596 and LP Gas cylinder safety in bushfire prone areas (Energy Safety – Govt. of WA).</p> <p>Otherwise, the required separation distance is 6m from any combustible materials.</p> <p>Heat from bushfire or consequential fire can be sufficient to cause cylinder pressure to reach critical levels and the pressure relief valve release large quantities of gas (flare). If the cylinder falls over the pressure relief valve may not function correctly, and the cylinder may rupture (explosion).</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: No gas storage will be on site.</i>						
6.6	<p>Separation from Stored Flammable Products – Fuels / Other Hazardous Materials: Establish sufficient separation distance between the consequential fire fuels and buildings/structures. The required separation distance will be dependent on the fuel and storage type.</p>	Moderate	Yes	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The BESS units will be installed to manufacturers specification, including separation distances. Fuels and other hazardous material will not be stored on site.</i>						
6.7	<p>Separation from Stored and Constructed Combustible Items: These consequential fire fuels include:</p> <ul style="list-style-type: none"> Stored Combustible Items - Heavy Fuels e.g. building materials, packaging materials, rubbish bins etc: 	Moderate	Yes	No	No	Yes

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> • Stored Combustible Items – Large Heavy Fuels e.g. vehicles, caravans and large quantities of dead vegetation materials stored as part of site use. • Constructed Combustible Items – Heavy Fuels e.g. landscaping structures including fences, screens, walls, plastic water tanks. • Constructed Combustible Items – Large Heavy Fuels e.g. adjacent buildings/structures including houses, sheds, garages, carports. (Note: If the adjacent structure is constructed to BAL-29 requirements or greater and can implement a significant number of additional bushfire protection measures associated with reducing exposure and vulnerability, these minimum separation distances could be reduced by 30%) [31]. <p>Apply the rule of thumb [13] “assume flames produced from a consequential fire source will be twice as high as the object itself ... where the consequential fire source is a structure, then the maximum eave height is a reasonable measure of maximum height”.</p> <p>Apply the following separation distances from the subject building/structure as a multiple of the height of the consequential fire source and dependent on the construction standard applied to the building/structure [13 and 31]:</p> <ul style="list-style-type: none"> • At least six times the height when the building/structure construction incorporates design and materials that is only intended to resist low levels of radiant heat up to 12.5 kW/m²) and no flame contact; • Between 4 and 6 six times the height when the building/structure construction incorporates design and materials intended to resist radiant heat up to 29 kW/m² and no flame contact. • Between 2 and 4 times the height when the building/structure construction incorporates design and materials intended to resist up to 40kW/m² and potential flame contact. • Less than 2 times the height when the building/structure construction incorporates design and materials intended to resist extreme levels of radiant heat and flame contact. • Zero separation distance is required if the building/structure is separated by a non-combustible FRL 60/60/60 rated wall or the potential consequential fire source is fully enclosed by the building/structure. 					
<p><i>Informative and/or Site Specific Comment/Assessment: All non-structural combustible materials are to be removed within 10m of assets. This includes but is not limited to; waste, leaf litter, machinery, grasses, vehicles, fuel, furniture, and timber. When storage of flammable items or materials are stored on site temporarily (for maintenance etc), separation distances must be complied with. This requirement is to be included in the Site Operating Procedures document.</i></p>					
<p>PROTECTION PRINCIPLE – SHIELDING FROM ALL BUSHFIRE THREATS: To shield buildings and attached/adjacent structures (or other consequential fire fuels) from the direct bushfire attack mechanisms of flame, radiant heat, surface fire and surface migration of embers. To also reduce exposure to the indirect attack mechanism of debris accumulation against buildings/structures and other consequential fire fuels and wind attack.</p>					

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
6.8	<p>Constructed Barrier – Shielding from Bushfire: Walls, fences and/or landforms to shield the subject building/structure from direct and indirect bushfire attack mechanisms and reduce the potential impact of these threats to vulnerable exposed elements.</p> <p>Must be constructed using appropriate fire resistant / non-combustible construction materials (e.g. masonry, steel, earthworks). These are to withstand the impact of direct bushfire attack mechanisms for the required period of time.</p> <p>Apply the bushfire construction standards for external walls subject to the assessed level of radiant heat or flame contact to which the barrier will be exposed (or otherwise to BAL-FZ requirements). These are established by AS 3959:2018 [4] and/or the NASH Standard [33] and additionally informed by the research report 'Research and Investigation into the Performance of Residential Boundary Fencing Systems in Bushfires.' [29]</p>	High	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measure is not cost-effective or necessary where greater separation distance can be achieved.</i>						
6.9	<p>Constructed Barrier - Shielding from Consequential Fire: Applicable to all consequential fire fuel sources. Install a non-combustible barrier (including complete enclosure when appropriate), of required robustness, that can perform the following as relevant:</p> <ul style="list-style-type: none"> • Reduce the exposure of the subject building/structure to the threats of consequential fire; and/or • Reduce the exposure of the consequential fire fuels to the bushfire hazard. 	Moderate	Yes	No	No	Yes
<i>Informative and/or Site Specific Comment/Assessment: Ensure all subfloor spaces are sealed or enclosed with non-combustible solid material or ember screening mesh (corrosion-resistant steel, bronze, or aluminium with an aperture <2mm).</i>						
6.10	<p>Natural Barrier - Landforms: Use existing natural landforms to reduce buildings/structures exposure to radiant heat, and lower wind speeds (prevailing synoptic and/or fire driven).</p>	Not Relevant	N/A	N/A	N/A	N/A
6.11	<p>Natural Barrier – Vegetation: Use appropriate hedges and trees strategically to reduce (to varying extents) buildings/structures exposure to radiant heat, to filter/trap embers and firebrands, and to lower wind speeds (prevailing synoptic and/or fire driven).</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: Sufficiently low radiant heat flux can be achieved through separation distance.</i>						
6.12	<p>Shield Non-Structural Essential Elements: These are elements essential to the continued operation of the built asset which are potentially exposed to fire attack mechanisms of both bushfire and consequential fire. They include cabling and plumbing associated with power / data transmission and water / fuel transport.</p> <p>When the use of fire rated materials to the degree necessary is not possible or practical, the application of non-combustible shielding can be applied to reduce exposure to the threats. Shielding includes underground installation.</p>	Moderate	Yes	No	Partly	Yes

EXPOSURE REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<p><i>Informative and/or Site Specific Comment/Assessment: Exposed electrical cabling to be shielded from radiant heat and consequential fire by burying underground or shielding with non-combustible material – common electrical cabling reaches its critical point at >10kWm2.</i></p> <p><i>Exposed plumbing (poly pipe) is to be buried or shielded with non-combustible material – maximum exposure 120 degrees Celsius.</i></p>					
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; • Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> • Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or • Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p> 					

7.4.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 7.13: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

EXPOSURE REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Fixed (hard) infrastructure assets					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Separation from the Hazard	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	1	1
	Moderate	3	3	2	1	1
	Not Relevant	3	-	-	-	-
Shielding from the Hazard	Very High	-	-	-	-	-
	High	1	1	-	-	-
	Effective	-	-	-	-	-
	Moderate	2	2	-	1	2
	Not Relevant	2	-	-	-	-
Total Numbers	Very High	-	-	-	-	-
	High	1	1	-	-	-
	Effective	1	1	-	1	1
	Moderate	5	5	2	2	3
	Not Relevant	5	-	-	-	-
	Totals	12	7	2	3	4

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

7.4.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (EXPOSURE REDUCTION)

Table 7.14: For the stated element at risk, The potential impact of the applied protection measures in reducing exposure levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (EXPOSURE REDUCTION)								
Element at Risk	Fixed (hard) infrastructure assets							
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Exposure Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Medium	Significant	Medium	Significant	Significant	Medium	Medium	Medium
	Medium				Medium			
Existing, Planned and Recommended (applied to residual risk)	Very Significant	Very Significant	Very Significant	Very Significant	Significant	Very Significant	Significant	Very Significant
	Very Significant				Significant			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 4 for explanatory information.

Assessment Comments: The BAL-29 APZ required for planning approval limits potential exposure to bushfire impacts. However, the assessed vulnerability of the Merredin BESS (Section 8.4) necessitates a greatly reduced exposure.

7.4.4 ASSESSED EXPOSURE LEVELS

Assessed as a function of the capacity to apply sufficient exposure reducing protection measures, their individual effectiveness and their combined impact in reducing the exposure of the identified element at risk (Note: This assessment is independent of the threat level and vulnerability level assessments).

Table 7.15: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED EXPOSURE LEVELS	
Element at Risk	Fixed (hard) infrastructure assets
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.
Exposure Reducing Protection Measures Applied to Assessment ¹	Relative Exposure Level ²
Existing and Planned (applied to inherent risk)	Moderate
Existing, Planned and Recommended (applied to residual risk)	Very Low

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 2 for explanatory information.

Assessment Comments: The applied APZ and additional restrictions on combustible materials greatly reduces relative exposure.

8 VULNERABILITY LEVEL ASSESSMENT OF THE ELEMENTS AT RISK

SUMMARY OF THE QUALITATIVE ASSESSMENT PROCESS

1. Identify all protection measures (grouped by protection principle) that are available to reduce vulnerability levels and rate their effectiveness;
2. Produce a numerical summary of all potential vulnerability reducing protection measures that are available and determine their application status;
3. Assess the potential vulnerability reducing impact of the package of protection measures that is able to be applied. The effectiveness rating weights the potential impact of an individual measure; and
4. Derive the vulnerability level of the identified element at risk, to the threats presented by each identified area of bushfire prone vegetation (refer to Section 2.3.3 and Appendix 2 for additional risk assessment process information).

8.1 PERSONS ONSITE OR TEMPORARILY OFFSITE

8.1.1 PROTECTION MEASURES AVAILABLE TO REDUCE VULNERABILITY LEVELS AND THEIR APPLICATION STATUS

Table 8.1: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: PERSONS LOCATED ONSITE AND TEMPORARILY OFFSITE						
PROTECTION PRINCIPLE – TRANSPORT AND MULTIPLE EVACUATION DESTINATIONS AND ROUTES AVAILABLE						
7.1	Sufficient Evacuation Transport Available: Ensure that all persons likely to be on site have access to transport. This can be through own vehicles, facility vehicles, a formal arrangement with an external provider or a combination of these.	Effective	Yes	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The location is relatively remote from settlements (no public transport). All visitors must necessarily have their own transport.</i>						
7.2	Multiple Safer Offsite Locations Available: Increasing the route and destination options decreases vulnerability of persons as the exposed element. Multiple buildings/areas are accessible from the subject site as evacuation destinations. The offsite locations exist at a sufficient distance from the subject site ensuring that the destination and the subject site are very unlikely to be simultaneously impacted by a bushfire event. For the most robust scenario:	Very High	No	Yes	No	No

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
	<ul style="list-style-type: none"> Multiple access/egress route are available to the safer locations from the subject site; The entirety of at least two routes is unlikely to be simultaneously impacted by a bushfire event; and The availability of water and amenities corresponding to person numbers increases the effectiveness of the measure. 					
<p><i>Informative and/or Site Specific Comment/Assessment: Two-way access/egress is available. The access/egress routes run through farm land and adjacent to the existing solar installation with Robartson Rd access/egress in a north direction towards the Great Eastern Highway and the town of Merredin, and south direction for approx. 750m before meeting the Bruce Rock – Merredin Rd in an east or west direction. Safe (early) evacuation is the primary procedure for any occupants (staff) during bushfire emergencies.</i></p>						
PROTECTION PRINCIPLE – PROVISION OF BUSHFIRE EMERGENCY INFORMATION AND EDUCATION						
7.3	<p>Bushfire Emergency Plan: Is produced and appropriately located within the site of the subject development/use. It is an operational document that details site specific preparation, response, recovery and review procedures. It is produced for use by the site owners, managers, operators and occupants (as relevant).</p>	Effective	Yes	No	No	No
7.4	<p>Bushfire Emergency Poster: A poster is prominently displayed, for the attention of all persons onsite. It presents the key emergency contacts, information sources and response procedures in the event of a bushfire event. It has increased value attached to its display when there are no bushfire emergency trained persons onsite or no persons that are familiar with the site and local area.</p>	Moderate	Yes	No	No	No
7.5	<p>Bushfire Protection Measures to be Implemented are Published in the Relevant Operational Documents: The relevant documents can include the Bushfire Management Plan (BMP), the Bushfire Emergency Plan (BEP), the Site Emergency Plan (as required to be developed by the operators of 'high risk' land uses), and any relevant documents associated with a projects design phase. The purpose of this measure is to ensure the application of relevant protection measures, that have been identified in this Bushfire Risk Assessment and Management Report, will be acted upon through responsibilities created by the operational documents.</p>	Effective	Yes	No	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: The development is proposed to be unstaffed. Visitors will be inducted staff/contractors familiar with emergency procedures and preparation/display of separate bushfire emergency procedures is not necessary. Additionally, evacuation (in the direction away from the bushfire) is the only bushfire response procedure.</i></p> <p><i>The site Emergency Management Plan (document title pending), is to include responses to bushfire emergencies. The immediately procedure is to evacuate in the appropriate direction away from the fire, and inform DFES Comcen of the status of the BESS facility.</i></p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
7.6	<p>Prominent Display of Information Stating Safe Early Evacuation is the Primary Procedure: For the subject development/use evacuation in the event of a bushfire within the locality has or is likely to be determined as the primary response procedure and that it must be conducted early. This option is available.</p> <p>The emphasis on early rather than a late evacuation is important. Analysis of past events identify that most people who die in bushfires are caught in the open, either in vehicles or on foot, because they have left their property too late. For evacuation to provide the safest response for occupants, it must be conducted early. Being on roads when a bushfire is close is a high risk action. Otherwise, sheltering-in-place is likely to provide greater protection to persons – particularly when a suitable onsite shelter place is identified.</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: Occupants will be site staff only, who will be aware of the emergency response procedure.</i>						
7.7	<p>Egress Pathway Signage: Where pathways exist onsite for occupants to relocate to an identified safer onsite location, appropriate signage to guide unfamiliar persons can reduce their vulnerability.</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: Staff will be familiar with the site. The safer onsite location is obvious.</i>						
7.8	<p>Trained Personnel Onsite: Operational persons (staff) are provided with bushfire emergency management training, aligned with the subject site's prepared Bushfire Emergency Plan (BEP). The intent also includes identifying the specific roles and persons to fill any required responsibilities that have determined through the BEP construction process.</p>	Moderate	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The development is proposed to be unstaffed.</i>						
7.9	<p>Build Community Resilience Through Education: When relevant to the type and scale of proposed development/use, the delivery of effective education programs can result in lowering the vulnerability of the community to a bushfire event, once the information has been acted upon and packages of protection measures put in place.</p> <p>Local government develops an ongoing program of innovative and leading edge community and landowner education that builds on the information presented within this Bushfire Risk Assessment and Management Report.</p> <p>Subsequent implementation of recommended/required protection measures can be encouraged through legislation, education, audits, enforcement and penalties as appropriate.</p> <p>Examples of such community education programs exist in various jurisdictions. The CSIRO (2020) Climate and Disaster Resilience Overview Report in 'Recommendation No. 5' [18] encourages collaboration with research agencies on the issue of building community resilience.</p>	Not Relevant	N/A	N/A	N/A	N/A
7.10	<p>Encourage 'Property Bushfire Resilience Assessments': Local government to promote (and potentially incentivise) the conducting of these assessments and the implementation of any recommendations. These assessments address bushfire</p>	Not Relevant	N/A	N/A	N/A	N/A

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
	hazard threat levels and the level of exposure and vulnerability of buildings and persons. It identifies appropriate protection measures to increase bushfire resilience.					
PROTECTION PRINCIPLE – A BUSHFIRE EMERGENCY FIREFIGHTING CAPABILITY EXISTS (RESPONSE)						
7.11	<p>Personnel Onsite Can Manage Bushfire Emergency Procedures: Different categories of persons can perform this role in different scenarios, with potentially varying levels of expertise and effectiveness. These include:</p> <ul style="list-style-type: none"> Appropriately trained person(s) will be onsite at all times, or able to be onsite at short notice. They are trained in bushfire emergency procedures in general and have specific knowledge of site preparation, response and recovery procedures from the required Bushfire Emergency Plan), and the environment in which the development/use exists. This person(s) may have the official title of fire warden. An untrained person familiar with the local area will be onsite at all times. They have knowledge and instruction gained from the required Bushfire Emergency Plan for the subject development/use and will ensure the preparation, response and recovery procedures established by the required Bushfire Emergency Plan are conducted appropriately and provide emergency event guidance to any other persons onsite. 	Effective	Yes	No	No	Yes
<i>Informative and/or Site Specific Comment/Assessment: The development is proposed to be unstaffed. It is recommended that the staff member managing emergency procedures has training in general bushfire emergency procedures, and has specific knowledge of the site procedures in response to bushfire. This staff member should be easily contactable.</i>						
7.12	<p>Personnel Onsite Can Operate Firefighting Equipment: Such person(s) is suitably capable of maintaining and operating any installed firefighting water supply and associated pumps, hoses/nozzles and sprinklers.</p>	Moderate	Yes	No	Yes	No
<i>Informative and/or Site Specific Comment/Assessment: Staff will receive basic instruction on operation of firefighting equipment and procedures for suppression or prevention of fire spread associated with BESS facilities.</i>						
7.13	<p>Locations of Vulnerable Persons are Registered: Relevant department of local government and their emergency services maintains a register of the location of land uses that are likely to result in a number of 'vulnerable' persons residing onsite, so that their needs can be addressed as a priority in a bushfire emergency. The subject development/use would exist on that register.</p>	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: No vulnerable persons will be onsite.</i>						
7.14	<p>External Emergency Services Available: An emergency service with a bushfire response capability is located within a realistic operational distance of the subject development/use. Bushfire services include volunteer bushfire brigades, volunteer fire and emergency services, DFES career fire and Rescue Service or Parks and Wildlife.</p>	Effective	No	Yes	No	Yes

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<p>Even if an emergency service response capability exists, effectiveness will be limited by number of resources and their availability likelihood at the crucial time.</p> <p><i>Bushfire Verification Method – Handbook s6.6 [14] states “During significant bushfires, there will be conflicting demands on fire brigade resources and reliance should not be placed on fire brigade intervention to protect a specific property.</i></p> <p><i>Prior to the 2009 Black Saturday fires, an early evacuation or stay and defend policy was in place and data from major fires indicated that the presence of occupants significantly increased the probability of house survival (refer Table 7.1). However, in response to the subsequent Royal Commission findings there is now a greater emphasis on early evacuation. Whilst this is expected to reduce fatalities by reducing the numbers of people at risk, a negative consequence will be an increase in property losses for buildings constructed to similar standards. It should therefore be assumed that there will be no fire brigade or occupant intervention with respect to protecting a specific property.”</i></p>					
<p><i>Informative and/or Site Specific Comment/Assessment: It is recommended that the Merredin Volunteer Fire and Rescue Service are to be invited to inspect and familiarise with the site. Provide information in site fire response procedures. This invitation may be annual or ad-hoc.</i></p>					
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; • Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> • Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or 					

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p>					

8.1.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 8.2: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

VULNERABILITY REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Persons located onsite and temporarily offsite					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Transport and Multiple evacuation destinations and routes available	Very High	1	-	1	-	-
	High	-	-	-	-	-
	Effective	1	1	1	-	-
	Moderate	-	-	-	-	-
	Not Relevant	-	-	-	-	-
Provision of bushfire emergency information and education	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	2	2	-	-	1
	Moderate	2	2	-	-	-
	Not Relevant	4	-	-	-	-
A bushfire emergency firefighting capability exists (response)	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	2	1	1	-	2
	Moderate	1	1	-	1	-
	Not Relevant	1	-	-	-	-
Total Numbers	Very High	1	-	1	-	-
	High	-	-	-	-	-
	Effective	5	4	2	-	3
	Moderate	4	3	-	1	-
	Not Relevant	5	-	-	-	-
	Totals	14	7	3	1	3

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

8.1.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (VULNERABILITY REDUCTION)

Table 8.3: For the stated element at risk, The potential impact of the applied protection measures in reducing vulnerability levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (VULNERABILITY REDUCTION)								
Element at Risk	Persons located onsite and temporarily offsite							
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Vulnerability Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	N/A	Significant	Significant	N/A	Minimal	Significant	N/A	N/A
	Significant				Medium			
Existing, Planned and Recommended (applied to residual risk)	N/A	Significant	Significant	N/A	Significant	Very Significant	N/A	N/A
	Significant				Very Significant			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 4 for explanatory information.

Assessment Comments: Persons are not vulnerable to direct ember attack or surface fire impacts. Recommendations are for training and site responses.

8.1.4 ASSESSED VULNERABILITY LEVELS

Assessed as a function of the capacity to apply sufficient vulnerability reducing protection measures, their individual effectiveness and their combined impact in reducing the vulnerability of the identified element at risk (Note: This assessment is independent of the threat level and exposure level assessments).

Table 8.4: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED VULNERABILITY LEVELS	
Element at Risk	Persons located onsite and temporarily offsite
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.
Vulnerability Reducing Protection Measures Applied to Assessment ¹	Relative Vulnerability Level ²
Existing and Planned (applied to inherent risk)	Moderate
Existing, Planned and Recommended (applied to residual risk)	Low

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 2 for explanatory information.

Assessment Comments: After training and response procedures are made available to staff/visitors and emergency services are familiar with the site, there is little more that can be done to improve vulnerability.

8.2 PERSONS ON ACCESS/EGRESS ROUTES (IN VEHICLES) OR PATHWAYS

8.2.1 PROTECTION MEASURES AVAILABLE TO REDUCE VULNERABILITY LEVELS AND THEIR APPLICATION STATUS

Table 8.5: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: PERSONS ON ACCESS/EGRESS ROUTES IN VEHICLES						
Access/Egress Route ID:	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.					
<p>PROTECTION PRINCIPLE – APPLY BEST (SAFER) ROAD DESIGN AND CONSTRUCTION (MATERIALS): The application of as many of the following protection measures as possible ensures a greater level of safety for users and lowers the associated risk when roads need to be used to evacuate to a safer offsite location in potentially high stress situations within a threatening environment.</p> <p>Safety for persons using the route is increased through reducing the likelihood of vehicle/terrain or vehicle/vehicle accidents and the ability to maintain travelling speed.</p>						
8.1	<p>Road Width: Ensure appropriate width roads are installed. Wider roads allow safer passing of the anticipated traffic that can be travelling in both directions (e.g. emergency services travelling towards the emergency event). The effectiveness of road width to reduce vulnerability is also a function of the required carriage capacity - which may be increased by the proposed development/use when it will increase traffic intensity.</p> <p>The incorporation of non-vegetated and trafficable road verges/shoulders and adjacent footpaths can also be considered to increase effective width for slower moving vehicles (providing additional separation from the hazard and passing opportunities).</p>	High	No	Yes	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. The access/egress routes run through farm land and adjacent to the existing solar installation with Robartson Rd access/egress in a north direction towards the Great Eastern Highway and the town of Merredin, and south direction for approx. 750m before meeting the Bruce Rock – Merredin Rd in an east or west direction. Both roads are approx. 8-10m wide giving safe passage for evacuation and emergency responding vehicles.</i></p>						
8.2	<p>Road Gradient: Ensure appropriate road gradients are available. Lower gradients ensure traction and speed can be maintained and can also be associated with driver visibility. Appropriate gradients will depend on the constructed surface materials and the weights and tractive capability of expected vehicle types.</p>	High	No	Yes	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. The local topography is gently undulating rather than rugged.</i></p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
8.3	Road Clearance: Ensure appropriate clearance can exist and is established. Sufficient horizontal and vertical clearances from obstructions ensure unhindered movement of all possible vehicle types;	High	No	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. The minimum horizontal clearance is the road width of 8m and generally 10m. Trees and powerlines do not overhang the road, so vertical clearance is unrestricted.</i>						
8.4	Road Surface Materials: Ensure that roads are constructed of materials that will provide the necessary traction (also a function of gradient), can support the weight of all expected vehicle types and remain operational in all weather. The required supportive capacity also applies to associated structures such as bridges.	High	No	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. Robartson Rd and Bruce Rock -Merredin Rd are designed to carry heavy and industrial vehicles. There is no limitation for the residential vehicles (<2 ton) used by site staff.</i>						
8.5	Driver Visibility and Road Ahead Signage: Ensure that road design provides high levels of visibility ahead (at least in the absence of smoke and embers) and informative signage indicating relevant 'up ahead' route information (includes information stating distance to turnaround area for narrow roads in more remote locations). Good visibility is associated with the avoidance 'blind' corners and crests to the greatest extent possible.	High	No	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. Robartson Rd and Bruce Rock- Merredin Rd have long straight sections (>1km) and gentle curves (<30 degrees).</i>						
8.6	Road / Pathway Length: Shorter distances to safer locations reduce the length of time persons remain vulnerable to bushfire threats.	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. Robartson Rd and Bruce Rock- Merredin Rd are >10km to a safer offsite location (Merredin Townsite) or to a westerly direction through farmland. This is addressed in Section 7.2.1.</i>						
8.7	Interconnected Roads: Ensuring that the design of the road network provides through roads and avoids dead-end roads, provides the choice of alternative routes for drivers to minimise close contact with a bushfire event. Otherwise vehicles and persons can be trapped.	High	No	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measure is not under the control of the landowner/developer. Some minor side roads in the area are no through-roads. All major roads are through-roads.</i>						
PROTECTION PRINCIPLE – EVACUEES SELF-SUFFICIENT (LOCAL AWARENESS AND TRANSPORT): The 'type' of persons that will be present on the site of the proposed development/use influences their degree of vulnerability to both bushfire threats and to risk associated with vehicular accidents in a stressful environment. Persons that have local knowledge, are self-supportive, have their own transport and are physically and mentally capable present the lowest degree of vulnerability for this factor.						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
This contrasts with persons who meet the SPP 3.7 definition of 'vulnerable' where the most vulnerable are likely to be less effective at making the required decisions and carrying out the required actions in the timeframe required. They are likely to be dependent on others for both information and transport and will not have any local knowledge.						
8.8	Self Sufficient Persons with Local Awareness: These are the type of persons that will be present on the site of the proposed development/use.	Effective	Yes	Yes	No	No
8.9	Persons Onsite Have Own Transport: There is no need to have arrangements in place for external provision of evacuation vehicles.	Effective	Yes	Yes	No	No
<i>Informative and/or Site Specific Comment/Assessment: Staff must necessarily have their own transport to access the site.</i>						
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; • Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> • Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or • Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p> 						

8.2.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 8.6: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

VULNERABILITY REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Persons on access/egress routes in vehicles					
Access/Egress Route ID	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Road Design and Construction (Materials)	Very High	-	-	-	-	-
	High	6	-	6	-	-
	Effective	-	-	-	-	-
	Moderate	-	-	-	-	-
	Not Relevant	1	-	-	-	-
Evacuees Self-Sufficient in Transport and Local Knowledge	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	2	2	2	-	-
	Moderate	-	-	-	-	-
	Not Relevant	-	-	-	-	-
Total Numbers	Very High	-	-	-	-	-
	High	6	-	6	-	-
	Effective	2	2	2	-	-
	Moderate	-	-	-	-	-
	Not Relevant	1	-	-	-	-
	Totals	9	2	8	-	-

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

8.2.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (VULNERABILITY REDUCTION)

Table 8.7: For the stated element at risk, the assessed impact of the applied protection measures corresponding to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (VULNERABILITY REDUCTION)								
Element at Risk	Persons on access/egress routes in vehicles							
Access/Egress Route ID	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.							
Vulnerability Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Minimal	Medium	Significant	Significant	N/A	N/A	Minimal	Significant
	Medium				Medium			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 4 for explanatory information.

Assessment Comments: No recommendations are applicable. The inherent and residual risk are the same. The combination of suitable transportation, awareness, and quality of egress route(s) is weighed against the landscape-scale forests bounding the route and length of route to a low threat destination (>13km).

8.2.4 ASSESSED VULNERABILITY LEVELS

Assessed as a function of the capacity to apply sufficient vulnerability reducing protection measures, their individual effectiveness and their combined impact in reducing the vulnerability of the identified element at risk (Note: This assessment is independent of the threat level and exposure level assessments).

Table 8.8: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED VULNERABILITY LEVELS	
Element at Risk	Persons on access/egress routes in vehicles
Access/Egress Route ID	All bushfire prone vegetation within the broader locality (10km radius) including along access routes.
Vulnerability Reducing Protection Measures Applied to Assessment ¹	Relative Vulnerability Level ²
Existing and Planned (applied to inherent risk)	Moderate

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 2 for explanatory information.

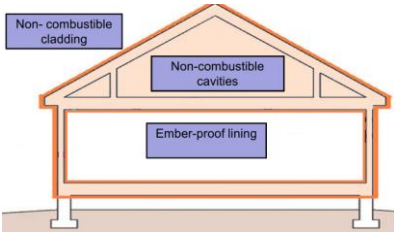
Assessment Comments: The vulnerability of persons on access routes is assessed as Moderate and cannot be practically improved.

8.3 BUILDINGS AND STRUCTURES NCC CLASSES 1-10

8.3.1 PROTECTION MEASURES AVAILABLE TO REDUCE VULNERABILITY LEVELS AND THEIR APPLICATION STATUS

Table 8.9: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: BUILDINGS/STRUCTURES - NCC CLASSES 1-10						
<p>PROTECTION PRINCIPLE – DESIGN AND CONSTRUCTION (MATERIALS): Increase bushfire resilience through the application of beneficial design and construction, including using non-combustible materials and minimising the use of vulnerable materials, to the greatest extent possible. Practicality and cost will be key considerations in determining the viability of applying protection measures in differing scenarios, but this should be determined with due consideration of threat levels and the importance of the elements at risk.</p> <p>The constructed systems should utilise the following properties to the greatest extent possible: reliability (which requires their durability over time, low maintenance and being unlikely to change over time), robustness (which limits damage spread from minor sources, continue to protect when thermally loaded and protects vulnerable elements), resilience (which enables their return to a functional state following an overload) and redundancy (which ensures the fate of the subject building/structure is not reliant on the effective performance of a single element). Refer to the glossary for additional explanation.</p> <p>The principle is also applicable to constructed consequential fire fuels.</p>						
9.1	<p>Construction to a Standard - AS 3959:2018 [4]: Apply the specified requirements to construction. These are intended to reduce the risk of building ignition from bushfire direct attack mechanisms. Note that the indirect attack mechanisms and the threats presented by consequential fire fuels are not specifically considered.</p> <p><i>“The standard is primarily concerned with improving the ability of buildings ... to better withstand attack from bushfire thus giving a measure of protection to the building occupants (until the fire front passes), as well as to the building itself”.</i></p> <p>The AS 3959 approach adopts a strategy that relies on the integrity of the building’s exterior envelope (i.e., the cladding of roof/wall/eaves, floor supporting structures/flooring and all penetrations) to resist all bushfire exposure conditions and environmental actions thereby protecting all structural construction elements behind it, including allowable combustible materials. It provides protection by:</p> <ul style="list-style-type: none"> • Using specified materials that provide ignition resistance (tolerance of radiant heat and flames). Higher BAL ratings impose increased construction requirements for these exterior envelope materials; • Specifying precise gap control (applicable to all bushfire attack levels) for the exterior envelope of the building to prevent ember entry); and • Attached and adjacent structures (within 6m) must also comply with the Standard. 	High	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment: Structures (storage sheds and switchrooms etc) do not have a general structure which can comply with AS 3959 or NASH.</i></p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
9.2	<p>Construction to a Standard – NASH Standard [33]: Apply the specified requirements to construction. The Standard: <i>“Sets out acceptable construction requirements for residential and low-rise buildings in bushfire prone areas to reduce the risk of ignition from bushfire attack involving embers, radiant heat and direct flame impingement using non-combustible materials. Buildings constructed in accordance with this Standard are intended to provide a sheltering envelope during the passage of a bushfire flame front. They do not constitute ‘last resort’ private bushfire shelters as defined in the NCC. The Standard is based on achieving ignition resistance through non-combustible construction using conventional building materials and a level of redundancy to provide a high level of performance in extreme bushfire events and an increased probability that unattended buildings will survive such events.”</i></p> <p>Key attributes of the Standard include:</p> <ul style="list-style-type: none"> Materials used anywhere on the building envelope (see shaded part of diagram below), must be non-combustible except for a small amount allowed externally that includes flooring, window frames, doors and external decorative trim. The building envelope is comprised of a framed roof/ceiling system, an external wall system and a floor system;  <ul style="list-style-type: none"> The same construction requirements apply for all BAL ratings up to BAL-40 (except for external doors and windows which apply AS 3959 requirements). An additional benefit of this is the built in resistance to the direct attack mechanisms of consequential fire when lower BAL ratings apply. It does not rely on eliminating ember entry to the roof space, wall cavities and floor system as these are non-combustible construction. Embers only need to be kept from entering the internal living/operating spaces. It is ember tolerant without unrealistic workmanship, supervision and maintenance requirements; The combination of a non-combustible cladding and cavities is a robust solution that enables the building to be configured so that failure or damage to one element does not lead to the inevitable failure of the building or a breach of the habitable envelope; and Attached and adjacent structures (within 6m) must also comply with the Standard. 	Not Relevant	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment: Structures (storage sheds and switchrooms etc) do not have a general structure which can comply with AS 3959 or NASH.</i></p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
9.3	<p>Construction Materials – External And Internal Cavity Building Elements: Excluding internal living or operation spaces, to the degree necessary, utilise materials resistant to fire attack mechanisms of flame and radiant heat (preferably non-combustible) for all relevant building elements, including wall, roof, floor, supporting structures and framing systems.</p>	Very High	Yes	Unknown	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: The construction of proposed structures is currently unknown. They will likely be primarily masonry, steel, aluminium and cement sheeting. It is recommended non-combustible elements are included where practical.</i></p>						
9.4	<p>Construction Materials – Consequential Fire Fuels: For constructed large consequential fire fuels, construct using non-combustible materials to the fullest extent possible. These include:</p> <ul style="list-style-type: none"> Surrounding landscaping items - fences/screens, retaining walls, gazebos, plastic water tanks etc; Attached structures - decks, verandahs, stairs, carports, garages, pergolas, patios, etc; Adjacent structures - houses, sheds, garages, carports, etc. Structure to structure fire is a common cause of overall building loss in post bushfire event assessments [9]. 	Very High	Yes	Yes	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: Adjoining heavy constructed fuels are not proposed as part of the relevant buildings.</i></p>						
9.5	<p>Construction – Resistant To High Wind: Apply construction measures to prevent the type of building damage from wind that will open or create gaps (from the wind itself or carried projectiles) and allow the entry of embers, radiant heat and flames.</p> <p>This type of damage is typically superficial damage. Building codes relating to wind (e.g., cyclones) do not necessarily address this superficial type of impact.</p> <p>Additional fixings for building envelope claddings and protection of the most vulnerable elements, such as glazing, from debris impact, are key considerations.</p> <p>Consider applying the principles of the NASH Standard [33] design solution to construction.</p> <p>"Potential wind effects directly associated with bushfire events have been considered in this Standard. Wind actions may affect houses subject to a bushfire attack in various ways including:</p> <ul style="list-style-type: none"> The intensity of flame front activity may produce locally high wind pressures on parts of the building; In the post fire phase, some weakened components on the building envelope may be vulnerable to normal design pressures; and Wind can drive embers into the building envelope." <p>Most applicable when the physical requirements exist for the development of an extreme bushfire event within the surrounding broader landscape.</p>	High	Yes	Unknown	No	No

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
9.6	<p>Construction – Gas Supply: All gas cylinders are installed and maintained in accordance with AS 1596. This standard includes requirements for small portable cylinders and larger cylinders used for domestic house supply. These include:</p> <ul style="list-style-type: none"> • Safety release valve shall be directed away from the building and persons access/egress routes; • Metal piping and fittings shall be used on all piping inside the building's cavities and enclosable occupied spaces and the high pressure side of any gas regulators; and • Tethers securing cylinders are to be non-combustible. <p>The objective is to reduce the risk of local fire against a building and reduce the risk of death or injury, from gas flaring or explosion. The rationale is gas cylinders which have either flared or ruptured are commonly found in post bushfire surveys [9]. The heat from the bushfire or consequential local fire has been sufficient to cause their pressure to reach critical levels beyond which their pressure release valve releases large quantities of LP gas. If these gas cylinders fall over, this pressure release valve may no longer function correctly, meaning that the gas cylinder may continue to increase in pressure with continued heating until the cylinder ruptures. The resulting explosion includes a pressure wave and large ball of flame which can threaten nearby life and buildings.</p>	Not Relevant	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment:</i> No gas storage will be on site.</p>						
9.7	<p>Construction - Electricity Supply: Cabling to be shielded (includes installing underground within subject property boundary) from applicable bushfire attack mechanisms.</p> <p>The objective is to assist with continuity of supply for essential site operations and/or electrically driven firefighting pumps. It also reduces the risk of electrocution to any persons onsite and reduces potentially additional sources of fire ignition. It is common in bushfires for power infrastructure to burn and collapse or be impacted by falling trees or branches while power lines are still live. Removing this risk may be appropriate for some sites.</p>	Moderate	Yes	No	Partly	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i> Exposed electrical cabling to be shielded from radiant heat and consequential fire by burying underground or shielding with non-combustible material – common electrical cabling reaches its critical point at >12kWm².</p> <p><i>Exposed plumbing (poly pipe) is to be buried or shielded with non-combustible material – maximum exposure 120 degrees Celsius.</i></p>						
9.8	<p>Minimise Debris and Ember Accumulation – Re-Entrant Detail: Avoid or minimise the accumulation of unburnt debris and embers by avoiding re-entrant details and/or adopting aerodynamic forms that will self-shed windblown debris and embers. For example:</p> <ul style="list-style-type: none"> • Simple building/structure footprints that avoid re-entrant corners in access ways, at wall/floor, wall/ground, roof/wall junctions and around doors, vents, windows; and • Simple roof layouts that avoid valleys and minimise the number of ridges that need protection details (e.g. skillion roofs). 	High	Yes	Unknown	No	No

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
9.9	<p>Minimise Debris and Ember Accumulation – Trapping Surfaces: Avoid or minimise the use of exposed combustible surfaces that can trap and accumulate embers. These can include:</p> <ul style="list-style-type: none"> Horizontal, or shallow angle surfaces e.g. exposed wall/roof framework, roofs, decking, verandahs, steps, windowsills; and Vertical surfaces with rough textured cladding (e.g. sawn timber). 	Moderate	Yes	Unknown	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: The design of Class 1-10 buildings is unknown at this stage, but are likely to be simple rectangular structures without complex features.</i></p>						
9.10	<p>Minimise Debris and Ember Accumulation – Roof Plumbing: All roof plumbing (gutters, valleys) is protected from the accumulation of debris and embers that can result in direct fire attack mechanisms immediately adjacent to any combustible elements within the roof cavity.</p>	Moderate	Yes	No	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: There will be few to no trees within the APZ and leaf litter accumulation will be very slow.</i></p>						
9.11	<p>Minimise Debris and Ember Accumulation – Construction Cavities: Apply designs that lower the potential for accumulation of embers and debris within cavity spaces of buildings/structures. Examples include concrete floor slab on the ground and solid masonry walls.</p>	Moderate	Yes	Unknown	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: Ensure all subfloor spaces are sealed or enclosed with non-combustible solid material or ember screening mesh (corrosion-resistant steel, bronze, or aluminium with an aperture <2mm).</i></p>						
9.12	<p>Minimise Flame/Radiant Heat/Ember/Debris Entry - External Openings: Limit potential sites for entry through the external envelope to internal spaces and combustible materials within (as consequential fire fuels).</p>	High	Yes	No	Yes	No
9.13	<p>Screening and Sealing - Gaps and Penetrations: Apply fire rated sealants and/or install metal screening (corrosion resistant steel, bronze, aluminium <2mm aperture).</p> <p>All external construction and penetration gaps with apertures greater than 2mm will allow ember entry (and potentially debris) to internal cavities and combustible materials within (as consequential fire fuels).</p> <p>This includes gaps in roofs, walls, doors, windows and their surrounding trims – including those associated with penetrations, vents, weepholes, poor workmanship and material deterioration and movement over time (maintenance). Internal fire is difficult to see and extinguish.</p>	Moderate	Yes	No	Yes	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: All Class 1-10 buildings (including non-habitable structures) must have ember screening/sealants installed on any gaps and penetrations.</i></p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
9.14	Screening - External Doors and Windows: Metal screens (corrosion resistant steel, bronze, aluminium <2mm aperture) installed over non-openable and/or openable parts of windows and doors to prevent ember entry to internal spaces containing combustible materials (consequential fire fuels) and reduce radiant heat load on vulnerable surfaces.	Moderate	Yes	No	No	No
9.15	Shutters - External Doors and Windows: Fire rated shutters installed to significantly increase bushfire resistance of the vulnerable building elements. Any requirement for onsite manual activation is a potential limitation to effectiveness.	Moderate	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: The measures are excessive for the radiant heat flux exposure of <10kW/m2.</i>						
9.16	Landscaping Construction - Fences and Walls: Non-combustible materials are used for fences, walls (including retaining walls), screens, garden edging, play equipment and other built structures - as potential consequential fire fuels. Where relevant, the capacity to resist high winds, to minimise potential for impact damage to subject building/structure, should also be incorporated.	Moderate	Yes	No	No	Yes
<i>Informative and/or Site Specific Comment/Assessment: Any security fences or other potential fuel loads should be constructed using non-combustible material.</i>						
PROTECTION PRINCIPLE – FIREFIGHTING CAPABILITY: Provide sufficient, reliable and bushfire resilient water supply and delivery capability as is necessary for active and/or passive systems.						
9.17	Firefighting Water Supply: Have a dedicated static supply of firefighting water for the protection of buildings/structures before and after the passage of a bushfire front. Adequate water supply is critical for any firefighting operation, particularly where property protection is the intent. This is necessary when: <ul style="list-style-type: none"> A water supply additional to a reticulated water supply is required to counter the loss of firefighting water as a protection measure, should the reticulated supply be interrupted; It is the only source of firefighting water. All tanks shall be non-combustible. Aside from losing water, failure of combustible tank can provide an additional heat or load to a vulnerable building element. Metal piping and fittings shall be used for any above ground components. The limitation to the effectiveness of the measure is the requirement for persons to be present and have the minimum required operational knowledge and/or access to appropriate information.	Very High	Yes	No	Yes	Yes
9.18	Firefighting Equipment – Active Operation: In addition to a dedicated water supply, appropriate firefighting equipment is installed (pumps, hoses, sprinklers etc). These will be resilient to bushfire impact, to the extent necessary, through the application of appropriate equipment materials and protection (shielding or separation from the hazard). The limitation to the effectiveness of the measure is the requirement for persons to be present and have the minimum required operational knowledge and/or access to appropriate information.	Not Relevant	N/A	N/A	N/A	N/A

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<p><i>Informative and/or Site Specific Comment/Assessment: Measure 11.18 discusses firefighting water supply to the site. The Merredin Battery facility will be supplied with a minimum 288kL firefighting water supply. This will provide an ample supply for any Class 1-10 buildings.</i></p> <p><i>The design and bushfire protection measures assumes no active defence of the site. Attendance of emergency services or response by site staff would be additional to the protection measures applied.</i></p>						
9.19	<p>Firefighting Equipment – Passive Operation: In addition to a dedicated water supply, appropriate water dispensing apparatus are installed (e.g. pumps, plumbing and sprinklers) that are automatically activated. These will be resilient to bushfire impact, to the extent necessary, through the application of appropriate equipment materials and protection (shielding or separation from the hazard).</p>	Not Relevant	N/A	N/A	N/A	N/A
9.20	<p>Firefighting Equipment – Maintain Operability: Where water pumps, shutters or other active/passive protection measures rely on the continued supply of electricity, establish barriers (shielding) or separation from potential damaging factors (e.g. falling trees/branches, fire, or other impact sources). For example, bury transmission systems to the greatest extent possible.</p>	Not Relevant	N/A	N/A	N/A	N/A
<p><i>Informative and/or Site Specific Comment/Assessment: Passive operations are not proposed for Class 1-10 buildings.</i></p>						
9.21	<p>Firebreaks – Primarily for Access: Installation and maintenance of firebreaks to remove vegetation, limit surface fire progression and facilitate firefighting access / backburning.</p>	Moderate	Yes	Yes	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: The site is currently compliant with the Shire of Merredin Firebreak Notice.</i></p>						
<p>PROTECTION PRINCIPLE – MANAGEMENT AND MAINTAINING EFFECTIVENESS OF APPLIED PROTECTION MEASURES: To ensure the retention of the level of bushfire resilience that has been established through the implementation of appropriate bushfire protection measures, formal and enforceable responsibilities are created.</p>						
9.22	<p>Formal Management/Maintenance Plan – Actions and Responsibilities: Through a bushfire management plan, site operations emergency plan, bushfire emergency plan, operational annual works plan and/or a 'firebreak' notice, a mechanism is put in place to ensure that:</p> <ul style="list-style-type: none"> The required management and maintenance of applied bushfire protection measures is conducted on a regular basis – with the interval dependent on the necessary frequency that will maintain full effectiveness; and The relevant protection measures are known and understood; and Responsibilities are created <p>The different documents will be able to satisfactorily perform this function to differing extents.</p>	Effective	Yes	No	No	Yes

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<p><i>Informative and/or Site Specific Comment/Assessment:</i> The different documents will be able to satisfactorily perform this function to differing extents.</p>					
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p> <p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); • Planned: Protection measures that: <ul style="list-style-type: none"> • Are incorporated into the site plans; • Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> • Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> • Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or • Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p> 					

8.3.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 8.10: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

VULNERABILITY REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Buildings/Structures - NCC Classes 1-10					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Design and Construction (Materials)	Very High	2	2	1	-	1
	High	4	3	-	-	-
	Effective	-	-	-	-	-
	Moderate	8	8	-	1	4
	Not Relevant	2	-	-	-	-
Firefighting Capability	Very High	1	1	-	1	1
	High	-	-	-	-	-
	Effective	-	-	-	-	-
	Moderate	1	1	1	-	-
	Not Relevant	3	-	-	-	-
Management and Maintaining Effectiveness of Applied Protection Measures	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	-	1
	Moderate	-	-	-	-	-
	Not Relevant	-	-	-	-	-
Total Numbers	Very High	3	3	1	1	1
	High	4	4	-	1	1
	Effective	1	1	-	-	1
	Moderate	9	9	1	1	4
	Not Relevant	5	-	-	-	-
	Totals	22	17	2	3	7
¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining. ² Protection Measure Application Status: Refer to table footnotes on previous page.						

8.3.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (VULNERABILITY REDUCTION)

Table 8.11: For the stated element at risk, The potential impact of the applied protection measures in reducing vulnerability levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (VULNERABILITY REDUCTION)								
Element at Risk	Buildings/Structures - NCC Classes 1-10							
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Vulnerability Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Minimal	Significant	Significant	Medium	Significant	Medium	Medium	Medium
	Medium				Medium			
Existing, Planned and Recommended (applied to residual risk)	Very Significant	Significant	Significant	Very Significant	Very Significant	Significant	Significant	Medium
	Very Significant				Significant			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3
² Refer to Appendix 4 for explanatory information.

Assessment Comments: The protection measures concentrate on reducing the vulnerability of building(s) to Ember Attack, including ember screening, construction materials, enclosing subfloor cavities, and preventing leaf litter/debris accumulation.

8.3.4 ASSESSED VULNERABILITY LEVELS

Assessed as a function of the capacity to apply sufficient vulnerability reducing protection measures, their individual effectiveness and their combined impact in reducing the vulnerability of the identified element at risk (Note: This assessment is independent of the threat level and exposure level assessments).

Table 8.12: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED VULNERABILITY LEVELS	
Element at Risk	Buildings/Structures - NCC Classes 1-10
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.
Vulnerability Reducing Protection Measures Applied to Assessment ¹	Relative Vulnerability Level ²
Existing and Planned (applied to inherent risk)	Moderate
Existing, Planned and Recommended (applied to residual risk)	Very Low

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3
² Refer to Appendix 2 for explanatory information.

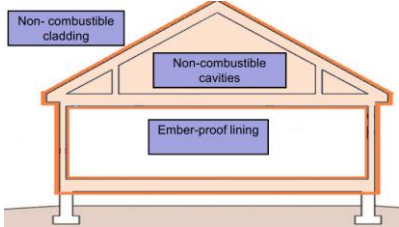
Assessment Comments: Class 1-10 buildings will be robust against bushfire impacts.

8.4 FIXED (HARD) INFRASTRUCTURE ASSETS

8.4.1 PROTECTION MEASURES AVAILABLE TO REDUCE VULNERABILITY LEVELS AND THEIR APPLICATION STATUS

Table 8.13: All available protection measures to reduce exposure of the stated element at risk to bushfire hazard threats and their application to the subject development/use.

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
ELEMENT AT RISK: FIXED (HARD) INFRASTRUCTURE ASSETS						
<p>PROTECTION PRINCIPLE – DESIGN AND CONSTRUCTION (MATERIALS): Increase bushfire resilience through the application of beneficial design and construction, including using non-combustible materials and minimising the use of vulnerable materials, to the greatest extent possible. Practicality and cost will be key considerations in determining the viability of applying protection measures in differing scenarios, but this should be determined with due consideration of threat levels and the importance of the elements at risk.</p> <p>The constructed systems should utilise the following properties to the greatest extent possible: reliability (which requires their durability over time, low maintenance and being unlikely to change over time), robustness (which limits damage spread from minor sources, continue to protect when thermally loaded and protects vulnerable elements), resilience (which enables their return to a functional state following an overload) and redundancy (which ensures the fate of the subject building/structure is not reliant on the effective performance of a single element). Refer to the glossary for additional explanation.</p> <p>The principle is also applicable to constructed consequential fire fuels.</p>						
11.1	<p>Construction to a Standard - AS 3959:2018 [4]: Use the principles and requirements established in the Standard, for buildings in general, and apply to the infrastructure assets where they have merit.</p> <p>These are intended to reduce the risk of building ignition from bushfire direct attack mechanisms. Note that the indirect attack mechanisms and the threats presented by consequential fire fuels are not specifically considered. Key attributes of the Standard that may have relevance to other built assets include:</p> <ul style="list-style-type: none"> The AS 3959 strategy that relies on the integrity of the building's exterior envelope (i.e., the cladding of roof/wall/eaves, floor supporting structures/flooring and all penetrations) to resist all bushfire exposure conditions and environmental actions thereby protecting all structural construction elements behind it, including allowable combustible materials. Using specified materials that provide ignition resistance (tolerance of radiant heat and flames). Higher BAL ratings impose increased construction requirements for these exterior envelope materials; Specifying precise gap control (applicable to all bushfire attack levels) for the exterior envelope of the building to prevent ember entry); and Attached and adjacent structures (within 6m) must also comply with the Standard. 	Not Relevant	N/A	N/A	N/A	N/A
11.2	<p>Construction to a Standard – NASH Standard [33]: Use the principles and requirements established in the Standard, for residential and low-rise buildings, and apply to the infrastructure assets where they have merit.</p>	Not Relevant	N/A	N/A	N/A	N/A

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<p>Key attributes of the Standard that may have relevance to other built assets include:</p> <ul style="list-style-type: none"> Materials used anywhere on the building envelope (see shaded part of diagram below), must be non-combustible (except for a small number of smaller building elements). The building envelope is comprised of a framed roof/ceiling system, an external wall system and a floor system;  <ul style="list-style-type: none"> The same construction requirements apply for all BAL ratings up to BAL-40 (except for external doors and windows which apply AS 3959 requirements). An additional benefit of this is the built in resistance to the direct attack mechanisms of consequential fire when lower BAL ratings apply. It does not rely on eliminating ember entry to the roof space, wall cavities and floor system as these are non-combustible construction. Embers only need to be kept from entering the internal living/operating spaces. It is ember tolerant without unrealistic workmanship, supervision and maintenance requirements; The combination of a non-combustible cladding and cavities is a robust solution that enables the building to be configured so that failure or damage to one element does not lead to the inevitable failure of the building or a breach of the habitable envelope; and Attached and adjacent structures (within 6m) must also comply with the Standard. 						
11.3	<p>Construction Materials – External and Internal Cavity Building Elements: Excluding internal living or operation spaces, to the degree necessary, utilise materials resistant to fire attack mechanisms of flame and radiant heat (preferably non-combustible) for all relevant building elements, including wall, roof, floor, supporting structures and framing systems.</p>	Not Relevant	N/A	N/A	N/A	N/A
11.4	<p>Construction Materials – Consequential Fire Fuels: For constructed large consequential fire fuels, construct using non-combustible materials to the fullest extent possible. These can include attached structures, adjacent structures and surrounding landscaping items.</p>	Very High	Yes	Partly	Partly	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i></p> <ul style="list-style-type: none"> Battery modules will be self-contained through highly insulated steel encasing used to encapsulate modules. Cabinets and fencing will be non-combustible (metal or mineral). 						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Installation of thermally insulated steel vents within the thermal roof protecting the units from flame impingements and hot gas intrusion. 						
11.5	<p>Construction – Resistant To High Wind: Apply construction measures to prevent the type of building damage from wind that will open or create gaps (from the wind itself or carried projectiles) and allow the entry of embers, radiant heat and flames.</p> <p>This type of damage is typically superficial damage. Building codes relating to wind (e.g., cyclones) do not necessarily address this superficial type of impact.</p> <p>Additional fixings for building envelope claddings and protection of the most vulnerable elements, such as glazing, from debris impact, are key considerations.</p> <p>Consider applying the principles of the NASH Standard [33] design solution to construction.</p> <p>“Potential wind effects directly associated with bushfire events have been considered in this Standard. Wind actions may affect buildings subject to a bushfire attack in various ways including:</p> <ul style="list-style-type: none"> The intensity of flame front activity may produce locally high wind pressures on parts of the building; In the post fire phase, some weakened components on the building envelope may be vulnerable to normal design pressures; and Wind can drive embers into the building envelope.” <p>Most applicable when the physical requirements exist for the development of an extreme bushfire event within the surrounding broader landscape.</p>	High	Yes	Yes	No	No
<p><i>Informative and/or Site Specific Comment/Assessment:</i></p> <p>The BESS units and associated structures are fixed to the ground and have limited vulnerabilities.</p>						
11.6	<p>Construction – Gas Supply: All gas cylinders are installed and maintained in accordance with AS 1596 (for domestic house supply) as a guide. The requirement of the standard includes:</p> <ul style="list-style-type: none"> Safety release valve shall be directed away from the building and persons access/egress routes; Metal piping and fittings shall be used on all piping inside the building's cavities and enclosable occupied spaces and the high pressure side of any gas regulators; and Tethers securing cylinders are to be non-combustible. <p>The objective is to reduce the risk of local fire against a building and reduce the risk of death or injury, from gas flaring or explosion. The rationale is gas cylinders which have either flared or ruptured are commonly found in post bushfire surveys [9]. The heat from the bushfire or consequential local fire has been sufficient to cause their pressure to reach critical levels beyond which their pressure release valve releases large quantities of LP gas. If these gas cylinders fall</p>	Not Relevant	N/A	N/A	N/A	N/A

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
	over, this pressure release valve may no longer function correctly, meaning that the gas cylinder may continue to increase in pressure with continued heating until the cylinder ruptures. The resulting explosion includes a pressure wave and large ball of flame which can threaten nearby life and buildings.					
11.7	Construction Materials – Non-Structural Essential Elements: Utilise fire/radiant heat rated products (rated to the level determined as necessary), for the construction of non-structural elements that are essential to the continued operation of the built asset and are exposed to a bushfire hazard. These include cabling and plumbing associated with power / data transmission and water / fuel transport.	High	Yes	No	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i></p> <p>Use non-combustible or products with high heat ratings to assist with maintaining their operability.</p> <p>Recommend shielding - These include cabling and plumbing associated with power / data transmission.</p>						
11.8	<p>Minimise Debris and Ember Accumulation – Re-Entrant Detail: Avoid or minimise the accumulation of unburnt debris and embers by avoiding re-entrant details and/or adopting aerodynamic forms that will self-shed windblown debris and embers. For example:</p> <ul style="list-style-type: none"> • Simple building/structure footprints that avoid re-entrant corners in access ways, at wall/floor, wall/ground, roof/wall junctions and around doors, vents, windows; and • Simple roof layouts that avoid valleys and minimise the number of ridges that need protection details (e.g. skillion roofs). 	High	Yes	Yes	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment:</i></p> <p>The structure design and construction allow for little debris accumulation.</p> <p>Where the electrical cabling contacts the ground or any arrangement of associated structures creates a 'pocket' for accumulation of debris, this should be rectified by design or filling with non-combustible material such as mineral earth. Consideration should be given to making the arrangement self-cleaning through wind action to the greatest extent possible. These measures will reduce accumulation and/or make the management (clearing) of accumulated debris easier. E.g. cable raking to be 100mm above ground.</p>						
11.9	<p>Minimise Debris and Ember Accumulation – Trapping Surfaces: Avoid or minimise the use of exposed combustible surfaces that can trap and accumulate embers. These can include:</p> <ul style="list-style-type: none"> • Horizontal, or shallow angle surfaces e.g. exposed wall/roof framework, roofs, decking, verandahs, steps, windowsills; and • Vertical surfaces with rough textured cladding (e.g. sawn timber). 	Not Relevant	N/A	N/A	N/A	N/A

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
11.10	Minimise Debris and Ember Accumulation – Roof Plumbing: All roof plumbing (gutters, valleys) is protected from the accumulation of debris and embers that can result in direct fire attack mechanisms immediately adjacent to any combustible elements within the roof cavity.	Not Relevant	N/A	N/A	N/A	N/A
11.11	Minimise Debris and Ember Accumulation – Construction Cavities: Apply designs that lower the potential for accumulation of embers and debris within cavity spaces of buildings/structures. Examples include concrete floor slab on the ground and solid masonry walls.	Not Relevant	N/A	N/A	N/A	N/A
<i>Informative and/or Site Specific Comment/Assessment: The battery modules are contained within simple structures without the above components.</i>						
11.12	Minimise Flame/Radiant Heat/Ember/Debris Entry - External Openings: Limit potential sites for entry to internal spaces through the external envelope and combustible materials within (as consequential fire fuels).	High	Yes	No	No	Yes
11.13	Screening and Sealing - Gaps And Penetrations: Apply fire rated sealants and/or install metal screening (corrosion resistant steel, bronze, aluminium <2mm aperture). All external construction and penetration gaps with apertures greater than 2mm will allow ember entry (and potentially debris) to internal cavities and combustible materials within (as consequential fire fuels). This includes gaps in roofs, walls, doors, windows and their surrounding trims – including those associated with penetrations, vents, weepholes, poor workmanship and material deterioration and movement over time (maintenance). Internal fire is difficult to see and extinguish.	Moderate	Yes	No	No	Yes
<i>Informative and/or Site Specific Comment/Assessment: The manufacturer or appropriate engineers should be contacted to enquire if it is possible to apply ember screening to intake/exhaust vents and other paths of entry to the interior cavity or accessing any combustible elements of BESS cabinets. This ember screening would be applicable to the exterior of the battery cabinet, not internal components. The intention is to prevent both ember ingress and debris accumulation. Ember screening mesh is corrosion-resistant steel, bronze, or aluminium with an aperture <2mm.</i>						
11.14	Screening - External Doors and Windows: Metal screens (corrosion resistant steel, bronze, aluminium <2mm aperture) installed over non-openable and/or openable parts of windows and doors to prevent ember entry to internal spaces containing combustible materials (consequential fire fuels) and reduce radiant heat load on vulnerable surfaces.	Moderate	Yes	No	No	No
11.15	Shutters - External Doors and Windows: Fire rated shutters Installed to significantly increase bushfire resistance of the vulnerable building elements. Any requirement for onsite manual activation is a potential limitation to effectiveness.	Moderate	Yes	No	No	No
<i>Informative and/or Site Specific Comment/Assessment: Any doors/windows will not be open during a bushfire event.</i>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
11.16	<p>Landscaping Construction - Fences and Walls: Non-combustible materials are used for fences, walls (including retaining walls), screens and other built structures - as potential consequential fire fuels.</p> <p>Where relevant, the capacity to resist high winds, to minimise potential for impact damage to subject building/structure, should also be incorporated.</p>	Moderate	Yes	No	Partly	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: Any security fences or other potential fuel loads should be constructed using non-combustible material.</i></p>						
<p>PROTECTION PRINCIPLE – FIREFIGHTING CAPABILITY: Provide sufficient, reliable and bushfire resilient water supply and delivery capability as is necessary for active and/or passive systems.</p>						
11.17	<p>Firefighting Water Supply: Have a dedicated static supply of firefighting water for the protection of buildings/structures before and after the passage of a bushfire front. Adequate water supply is critical for any firefighting operation, particularly where property protection is the intent. This is necessary when:</p> <ul style="list-style-type: none"> A water supply additional to a reticulated water supply is required to counter the loss of firefighting water as a protection measure, should the reticulated supply be interrupted; It is the only source of firefighting water. <p>All tanks shall be non-combustible. Aside from losing water, failure of combustible tank can provide an additional heat or load to a vulnerable building element. Metal piping and fittings shall be used for any above ground components.</p> <p>The limitation to the effectiveness of the measure is the requirement for persons to be present and have the minimum required operational knowledge and/or access to appropriate information.</p>	Very High	Yes	No	Yes	Yes
11.18	<p>Firefighting Equipment – Active Operation: In addition to a dedicated water supply, appropriate mobile firefighting appliances are available quickly and/or fixed firefighting equipment is installed (pumps, hoses, sprinklers etc). Where equipment is installed, this will be resilient to bushfire impact, to the extent necessary, through the application of appropriate equipment materials and protection (shielding or separation from the hazard).</p> <p>The limitation to the effectiveness of the measure is the requirement for persons to be present and have the minimum required operational knowledge and/or access to appropriate information.</p>	Very High	Yes	No	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: Battery Energy Storage Systems do not have an applicable firefighting water supply under the state or national requirements. A nominal supply of 50,000L would meet the planning requirements for the proposal under SPP 3.7.</i></p> <p>The State of Victoria Country Fire Authority has produced an applicable document, which is being used as the source of the appropriate water supply for the Merredin Battery project. The Design Guidelines and Model Requirements – Renewable Energy Facilities (CFA March 2022) does not lay out these specifications in a single format and some criteria are applicable to the Victorian planning system. A summary of all applicable measures to align with the document are provided below.</p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<p>Informative and/or Site Specific Comment/Assessment: The following requirements apply to the firefighting water supply. The specifications will be confirmed at the detailed design stage.</p> <p><u>Access</u></p> <p>Firefighting water access points (hydrants, hard suction, or drafting) must be clearly identifiable, visible from internal roads, and unobstructed.</p> <p>The water tank(s) must be located at the vehicle access point to the development (northern entry gate).</p> <p>An all-weather hardstand turnaround area meeting the requirements of the Guidelines for Planning in Bushfire Prone Areas v1.4 (Explanatory Note E3.3) must be provided within 4 metres of both the static water storage tank(s) and any independent hard suction points (hydrants).</p> <p>Site Operating Procedures must include that access routes must be unobstructed at all times.</p> <p><u>Siting</u></p> <p>The water tank(s) must be positioned >10m from BESS cabinets and associated infrastructure.</p> <p>The water tank(s) should apply a BAL-29 APZ at a minimum. It is possible to locate the tank within the 10kW/m² APZ applied to BESS infrastructure such that additional vegetation clearing is not required.</p> <p><u>Construction</u></p> <p>The static firefighting water supply must be calculated per AS 2419. Based on the submitted layout the required supply will be 288,000L. This water supply is intended to address bushfire and non-bushfire emergencies.</p> <p>The static water storage tank(s) must be an above-ground water tank constructed of concrete or steel.</p> <p>An external water level indicator must be installed on static water storage tank(s) and be visible from internal roads and the adjoining turnaround area.</p> <p>Signage indicating 'FIRE WATER' and the tank capacity must be fixed to each tank.</p> <p>The hard-suction point must be protected from mechanical damage (eg. bollards) where vehicle contact is possible.</p> <p>Couplings at hard suction points are required to be 125mm Storz fittings (<i>Guidelines v1.4 s2.2.2.1</i>). DFES Built Environment and the Merredin Volunteer Fire and Rescue Service should be contacted for input on appropriate couplings and adaptors.</p>						
11.19	<p>Fire Fighting Equipment – Passive Operation: In addition to a dedicated water supply, appropriate water dispensing apparatus are installed (e.g. pumps, plumbing and sprinklers) that are automatically activated. These will be resilient to bushfire impact, to the extent necessary, through the application of appropriate equipment materials and protection (shielding or separation from the hazard).</p>	High	Yes	No	Yes	Yes
<p>Informative and/or Site Specific Comment/Assessment:</p> <p>The BESS units have active monitoring and electrical fault safety devices which ensure the units only remain operational within their intended operating environment, with an automated shut-down system.</p>						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES		Effectiveness Rating ¹	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
<p><i>It is recommended that automatic fire suppression systems are installed and maintained, as appropriate to the BESS details and recommended by the manufacturer. This measure is not applied to reduce the vulnerability or risk posed, as the methodology for this Risk Assessment assumes that fire occurs.</i></p>						
11.20	<p>Fire Fighting Equipment – Maintain Operability: Where water pumps, shutters or other active/passive protection measures rely on the continued supply of electricity, establish barriers (shielding) or separation from potential damaging factors (e.g. falling trees/branches, fire, or other impact sources). For example, bury transmission systems to the greatest extent possible.</p>	Moderate	Yes	No	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: Operating and maintenance procedures are to be developed to ensure regular maintenance.</i></p>						
11.21	<p>Firebreaks – Primarily for Access: Installation and maintenance of firebreaks to remove vegetation, limit surface fire progression and facilitate firefighting access / backburning.</p>	Moderate	Yes	Yes	No	No
<p><i>Informative and/or Site Specific Comment/Assessment: The site is currently compliant with the Shire of Merredin Firebreak Notice.</i></p>						
<p>PROTECTION PRINCIPLE – MANAGEMENT AND MAINTAINING EFFECTIVENESS OF APPLIED PROTECTION MEASURES: To ensure the retention of the level of bushfire resilience that has been established through the implementation of appropriate bushfire protection measures, formal and enforceable responsibilities are created.</p>						
11.22	<p>Formal Management/Maintenance Plan – Actions and Responsibilities: Through a bushfire management plan, site operations emergency plan, bushfire emergency plan, operational annual works plan and/or a 'firebreak' notice, a mechanism is put in place to ensure that:</p> <ul style="list-style-type: none"> • The required management and maintenance of applied bushfire protection measures is conducted on a regular basis – with the interval dependent on the necessary frequency that will maintain full effectiveness; and • The relevant protection measures are known and understood; and • Responsibilities are created <p>The different documents will be able to satisfactorily perform this function to differing extents.</p>	Effective	Yes	No	No	Yes
<p><i>Informative and/or Site Specific Comment/Assessment: The different documents will be able to satisfactorily perform this function to differing extents.</i></p>						
<p>¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.</p>						
<p>² Protection Measure Application Status:</p> <ul style="list-style-type: none"> • Possible: Protection measures that can potentially be applied to the proposed development/use; • Exists: Protection measures already implemented by existing components of the proposed development/use. These measures are accounted for in assessing 'inherent' risk levels (refer to Glossary); 						

VULNERABILITY REDUCING PROTECTION MEASURES – ALL AVAILABLE MEASURES	Effectiveness Rating ¹	Application Status ²			
		Possible	Exists	Planned	Additionally Recommend
<ul style="list-style-type: none"> Planned: Protection measures that: <ul style="list-style-type: none"> Are incorporated into the site plans; Exist in an <u>approved</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), alternative solutions and any additional recommended protection measures - for which a responsibility for their implementation has been created and approved; and/or Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and are comprised of the applicable acceptable solutions (established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), that can be met and for which a responsibility for their implementation can be created in the BMP. <p>These planned measures are accounted for in assessing 'inherent' risk levels (refer to Glossary).</p> Additionally Recommend: Protection measures that: <ul style="list-style-type: none"> Exist in a <u>yet to be submitted</u> Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and comprise alternative solutions and/or additional recommended protection measures (that can and should be implemented in the opinion of the bushfire consultant), and for which a responsibility for their implementation can be created in the BMP; and/or Are developed in the process of producing this risk assessment and management report and for which a responsibility for their implementation can be created in the BMP. <p>These additionally recommended measures, along with existing and planned measures, are accounted for in assessing 'residual' risk levels (refer to Glossary).</p> 					

8.4.2 NUMBER ANALYSIS OF AVAILABILITY VERSUS APPLICATION OF PROTECTION MEASURES

Table 8.14: For the stated element at risk and area of bushfire prone vegetation, the summarised number of bushfire protection measures that can be applied (and their corresponding effectiveness rating), is compared to the number available.

VULNERABILITY REDUCING PROTECTION MEASURES – SUMMARY NUMBERS						
Element at Risk	Fixed (hard) infrastructure assets					
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.					
The Protection Principle	Effectiveness Rating ¹	Numbers of Protection Measures				
		Total Available	Application Status ²			
			Possible	Exists	Planned	Additionally Recommend
Design and Construction (Materials)	Very High	1	1	1	-	-
	High	4	4	2	-	3
	Effective	-	-	-	-	-
	Moderate	4	4	-	-	2
	Not Relevant	6	-	-	-	-
Firefighting Capability	Very High	2	2	-	1	2
	High	1	1	-	1	1
	Effective	-	-	-	-	-
	Moderate	2	2	1	-	1
	Not Relevant	1	-	-	-	-
Management and Maintaining Effectiveness of Applied Protection Measures	Very High	-	-	-	-	-
	High	-	-	-	-	-
	Effective	1	1	-	-	1
	Moderate	-	-	-	-	-
	Not Relevant	-	-	-	-	-
Total Numbers	Very High	3	3	1	1	2
	High	5	5	2	1	4
	Effective	1	1	-	-	1
	Moderate	6	6	1	-	3
	Not Relevant	7	-	-	-	-
	Totals	22	15	4	2	10

¹ Protection Measure Effectiveness Rating: Refer to section 2.3.5 for explanation and defining.

² Protection Measure Application Status: Refer to table footnotes on previous page.

8.4.3 ASSESSED IMPACT OF APPLIED PROTECTION MEASURES (VULNERABILITY REDUCTION)

Table 8.15: For the stated element at risk, The potential impact of the applied protection measures in reducing vulnerability levels to the stated area of bushfire prone vegetation.

ASSESSED IMPACT OF APPLIED MEASURES (VULNERABILITY REDUCTION)								
Element at Risk	Fixed (hard) infrastructure assets							
Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.							
Vulnerability Reducing Protection Measures Applied to Assessment ¹	The Bushfire Hazard Threats ²							
	Direct Attack Mechanisms				Indirect Attack Mechanisms			
	Embers	Radiant Heat	Flame	Surface Fire	Debris Accumulation	Consequential Fire	Fire Driven Wind	Tree Strike / Obstruction
Existing and Planned (applied to inherent risk)	Medium	Medium	Medium	Medium	Medium	Medium	N/A	N/A
	Medium				Medium			
Existing, Planned and Recommended (applied to residual risk)	Very Significant	Very Significant	Significant	Significant	Significant	Significant	N/A	N/A
	Very Significant				Significant			

¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3

² Refer to Appendix 4 for explanatory information.

Assessment Comments:

The most significant of the available vulnerability reducing protection measures are associated with:

- Ensuring that the design and construction of the BESS units and associated structures can limit locations for accumulation of debris and facilitates self-cleaning by the wind;
- Ensuring that the design and the materials used in the construction of any structures adjacent to the BESS units and associated infrastructure are non-combustible to the greatest extent possible, to remove the threat of consequential fire from this source; and
- Having firefighting resources available (reticulated supply, hydrant and tank) to extinguish consequential fires and cool battery cabinets.
- Having the BESS units fitted with active monitoring and electrical fault safety devices which ensure the units only remain operational within their intended operating environment, with an automated shut-down system.

The package of protection measures play a significant role in changing the vulnerability of the Merredin Battery infrastructure.

8.4.4 ASSESSED VULNERABILITY LEVELS

Assessed as a function of the capacity to apply sufficient vulnerability reducing protection measures, their individual effectiveness and their combined impact in reducing the vulnerability of the identified element at risk (Note: This assessment is independent of the threat level and exposure level assessments).

Table 8.16: For the stated element at risk, the assessed exposure level corresponding to the stated area of bushfire prone vegetation.

ASSESSED VULNERABILITY LEVELS	
Element at Risk	Fixed (hard) infrastructure assets

Vegetation Area / Location	All bushfire prone vegetation within the subject lots, and within 150m of the proposed development.	
Vulnerability Reducing Protection Measures Applied to Assessment ¹	Relative Vulnerability Level ²	
Existing and Planned (applied to inherent risk)	Moderate	
Existing, Planned and Recommended (applied to residual risk)	Low	
¹ Corresponds to the stage of risk level being reported i.e. inherent or residual. Refer to Section 2.3.3 ² Refer to Appendix 2 for explanatory information.		

Assessment Comments: The Merredin Battery as the element at risk is not vulnerable to the impacts of radiant heat and flame contact. The protection measures available to reduce the Merredin Battery vulnerability are robust and materially address the direct attack mechanisms of bushfire. Consequently, for this scenario, considering the bushfire protection measures, the relative residual vulnerability level is Low.

APPENDIX 1: RATIONALE FOR THE SELECTION OF THE APPLIED RISK ASSESSMENT PROCESS

The following information regarding the selection and adaptation of the risk assessment process applied in this report is presented to help inform persons tasked with understanding this report.

KEY DRIVERS

Bushfire Prone Planning has considered the following key drivers in determining the most appropriate risk assessment process to apply:

1. **The relevant hazard types.**

Bushfire hazards are a natural hazard rather than a human-induced hazard (refer to glossary and see limitations of ISO 31000 in the next section). Natural processes and phenomena present unique types of threats.

Consequently, the assessment process needs to be able to specifically deal with the unique characteristics of bushfire hazards in a way that derives meaningful risk-based information that can be readily interpreted and applied.

A logical framework is needed around which the development of bushfire protection measures (risk treatments) can be constructed, assessed and understood by those tasked with making decisions based on the provided information.

2. **The relevant risks to be addressed.**

The specific risks are limited to the potential loss of life, injury, or destroyed or damaged assets that are associated with a bushfire hazard. These originate from the hazard's direct and indirect bushfire attack mechanisms and the response of persons and property to these threats.

3. **The complexity and/or scale of proposed development/use.**

For different development/use proposals, there are significant differences in the types of information required for the hazard risk assessments and the derivation of operationally useful information that is to be applied to mitigating the associated risks.

These differences include scale e.g. from development or activities on a single lot to development or activities within a region.

Also, different uses may be able to tolerate different levels of risk. For example the Guidelines v1.4 cl 5.5.2 establish that "different tourism land uses ... may require different levels of risk management".

Consequently, the applied risk management process needs to be able to accommodate these differences and remain both logical, useable and efficient to compile. It needs to be capable of being relatively easy to scale up or down to provide a relevant and actionable report.

LIMITATIONS OF ISO 31000:2018 AND NERAG

The approach adopted by Bushfire Prone Planning (BPP) contrasts with the typical approach historically used in various Australian jurisdictions. This historical approach conducts the risk management process by applying the *National Emergency Risk Assessment Guidelines (AIDR 2020, NERAG)*.

However, the considered view of BPP is that the *NERAG* approach is unable to effectively provide (a) the required assessment methodology for assessing risk associated with a bushfire hazard or (b) evaluate the impact of specific bushfire protection measures - to the level of detail and relevance required for the planning of development and uses. That is, the key drivers determining the suitable methodology cannot be satisfied.

It is not practical to fully justify the above statement here, but the following is noted:

The determination of pre and post treatment risk levels is a key objective of *NERAG*. These are determined as the product of consequence and likelihood ratings. These ratings have the following inherent weaknesses in meeting the risk assessment requirements for a natural bushfire hazard:

1. Consequence ratings are derived from a set of established qualitative and quantitative criteria - which are very broad based and have less relevance at smaller scales of development/use. No direct link between the application of a risk treatment(s) and how they can justifiably be assessed as being able to alter a consequence level is established; and

- Likelihood ratings of both the emergency event and the consequences are difficult to separate. They are derived from a set of established quantitative (probability) criteria. They also typically look backward and not forward and their determination is problematic with respect to sourcing relevant and sufficient data.

Varying the levels of likelihood has limited applicability when the pragmatic requirement is to assume an emergency event will occur. The level of risk to which the at risk elements are exposed and vulnerable when a bushfire does occur, should have the most relevance to planning its location, design and construction, or allowing it.

The determination of level of relevant risks by relying on the accuracy and relevance of the probability of the bushfire occurring should be given much less weighting. A more robust reduction in risk will result from being protected by something more physical/tangible than probability.

Also relevant is that the *NERAG* state they are “primarily focussed on assessing emergency risks” and that they are “structured to align broadly with relevant sections of *ISO 31000:2018 – Risk Management Guidelines*”.

ISO 31000:2018 states that its intended use is “... to provide guidelines on managing risk faced by organisations”.

The key point is that organisational risk is derived from a ‘human-induced hazard’ rather than a natural hazard (refer to the glossary). However, it is the bushfire natural hazard that is the source of risk being addressed by requirements established by SPP 3.7 and the associated Guidelines.

Consequently, it is BPP’s considered opinion that applying *ISO 31000:2018* and *NERAG* (in its current form) to assessing risk associated with a bushfire hazard has significant application and relevance limitations.

THE APPLIED ADAPTED RISK ASSESSMENT APPROACH

In acknowledging the key drivers, and the limitations of the risk management process developed by *ISO 31000* and adapted by *NERAG*, Bushfire Prone Planning has adapted the understanding of disaster risk that is used by the United Nations Office for Disaster Risk Reduction (*UNDRR*).

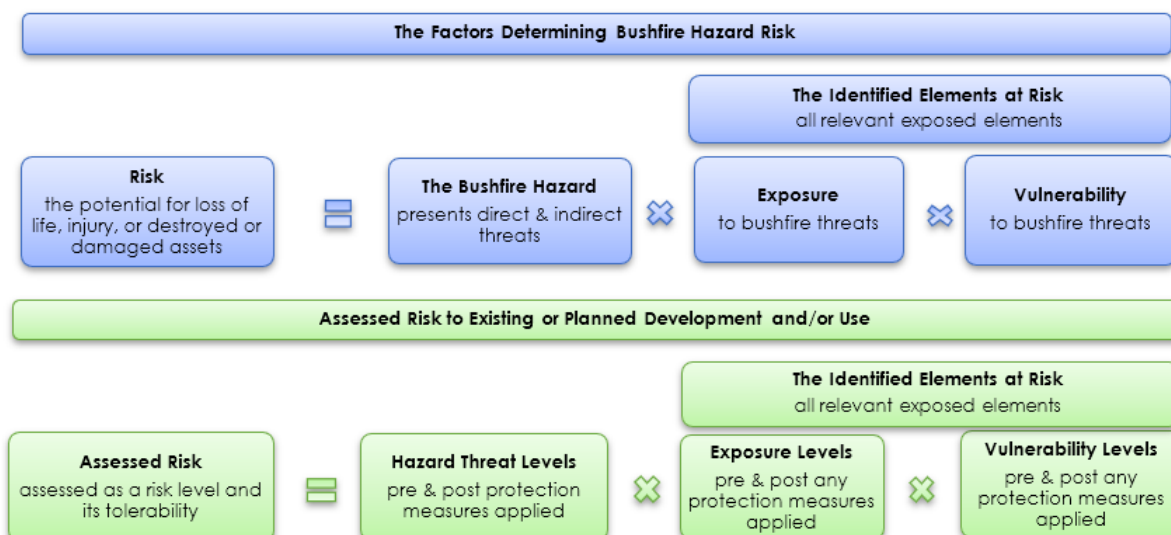
Although the *UNDRR* approach is designed to addresses disaster risk at large scale strategic levels, it can justifiably be applied to all scales of planning because it is focused on natural hazards and establishes a concept that can be readily adapted.

The risk assessment report that is developed applying this process presents relevant, logical, comprehensive and practical facts, to appropriately inform those persons tasked with either:

- Planning the siting, design, construction and management of development/use to ensure an appropriate level of bushfire resilience is achieved and limiting associated risks to tolerable levels; or
- With making pragmatic planning approval decisions.

The Figure below (copy of Figure 2.3) illustrates the framework of the adapted risk assessment process (refer to the glossary for terminology information and Appendix 2 provides greater detail of the risk analysis component of the assessment process).

THE FRAMEWORK OF BUSHFIRE PRONE PLANNING’S APPLIED RISK ASSESSMENT PROCESS



APPENDIX 2: RISK LEVEL ANALYSIS – ADDITIONAL EXPLANATION

INDICATIVE RISK LEVELS

Justification for reporting indicative risk levels is based on the following factors:

1. There is a finite 'universe' of bushfire protection measure principles that can be applied to reducing hazard threats and the exposure and vulnerability of at risk elements;
2. There will be a range of development/use specific protection measures associated with each protection measure principle. The number of available protection measures will vary dependent on the type and scale of development/use, but effectively there will also be a practical limit; and
3. Bushfire protection measures will vary in their standalone effectiveness at mitigating risk (refer to section 2.3.5);

Consequently, an indication of the level of risk – for a given development/use - can be gained by:

1. Assessing 'relative' threat levels.
2. Deriving 'relative' exposure and vulnerability levels by:
 - a) Assessing how many protection measure principles and associated measures are applicable and can be applied;
 - b) Assessing the relative effectiveness of each protection measure; and
 - c) Comparing the numbers of applied protection measures with the number of possible measures in the protection measure 'universe'.
3. Making a qualitative assessment of the potential impact of the applied protection measures (including appropriate weighting given to their individual effectiveness) that can reduce the relative threat, exposure and vulnerability levels.
4. Derive the indicative risk level by applying the risk matrix shown as Table A2.1 and establish the tolerability of the risk by applying the risk tolerance scale of Table A3.2, Appendix 3.

Providing an indicative risk level establishes a qualitative understanding of the level of risk that potentially exists and is intended to inform and assist with making various planning decisions.

Deriving indicative risk levels is essentially a compilation and assessment of physical facts rather than determinations of what is to constitute different levels of threat, exposure and vulnerability and subsequently intolerable, tolerable and acceptable levels of risk for every development/use scenario.

An indicative risk level can be derived from an assessment of the site, the planned development/use and the knowledge and experience of the bushfire practitioner – such that an opinion can be provided regarding risk levels.

DETERMINED RISK LEVELS

Reporting determined risk levels will require reference information being available to the assessor so that 'determined' levels of threat, exposure and vulnerability can be established (this contrasts with the 'relative' levels required in deriving an indicative risk level).

The required reference information are the risk factor criteria, the risk level matrix and the risk tolerability scale.

Risk Factor Criteria

The required risk factor criteria will establish:

- What factors are to define the different 'determined' levels of hazard threats;
- What factors are to define the different 'determined' levels of exposure of elements at risk; and
- What factors are to define the different 'determined' levels of vulnerability of elements at risk.

Risk Level Matrix

The matrix will establish how the 'determined' levels of threat, exposure and vulnerability are to be applied in deriving the 'determined' risk level. Different sets of matrices to account for different development types, uses and scales will be required. The rationale for this statement includes:

- Different development types, uses and scales are potentially capable of tolerating different levels of risk and still be considered by the relevant authority (who are reflecting the understood society/community position), to remain acceptable;
- Recognition that different levels of risk can be tolerated by different development, use and scale is indicated in the Guidelines v1.4 where cl 5.5.2 establishes that "different tourism land uses ... may require different levels of risk management"; and
- To account for the variation, one risk level matrix could establish a moderate determined risk level for a given development type/use/scale and combination of threat, exposure and vulnerability levels.

For the same combination of threat, exposure and vulnerability levels but for a different development type/use/scale, a different risk level matrix could establish an extreme determined risk level; and

Risk Tolerance Scale

After the 'determined' risk level has been derived from the risk assessment process, a methodology is required to classify the risk level as either unacceptable, tolerable or acceptable. Currently Bushfire Prone Planning is applying the ALARP principle and associated risk tolerance scale (refer to Appendix 3).

The Current Limitations to Deriving a Determined Risk Level

The required reference information (i.e. the risk factor criteria, sets of risk matrices and the risk tolerance scale) is necessarily required to be provided by the relevant regulatory authorities /decision makers. The rationale for this statement is:

1. The information must reflect the expectations and understanding and accepting of risk as held by society and communities, and directed through its governing bodies;
2. The information must be standardised to the greatest extent possible so that it provides an acceptable and trusted basis on which the determined risk level can be derived and be relied upon in making decisions.
3. Properly establishing the reference information cannot be justifiably relegated to individual assessors with varied expertise, qualification and without any approved responsibility to provide such information. Their expertise might more appropriately be utilised in assisting the responsible authorities to establish the information.

Where the required reference information has not been established and provided by the responsible authorities, determined risk levels cannot be the final outcome when using this risk assessment process. Currently, this reference information does not exist.

HOW THE LIKELIHOOD OF A BUSHFIRE EVENT OCCURRING HAS BEEN DEALT WITH

The approach taken with the applied risk assessment process is to apply the pragmatic assumption that a bushfire will occur. It is assumed it can occur within any timeframe and could result in loss or life or injury, or unacceptable damage to property and or unacceptable disruption to services. This approach accepts that the requirements for fire of fuel, ignition source and oxygen will always exist. That is:

- The fire fuels being considered will always be there unless physically removed permanently;
- A potential ignition source will always exist through lightning and/or human activities; and
- The potential for adverse fire weather conditions to exist at some point within each year will always be present.

This contrasts with applying a quantitative approach based on the historical record of past bushfire event and determining the mathematical probability of a future event. This approach is problematic to achieving increased bushfire resilience at all stages of existing or proposed development/use for these reasons:

- Historical data may not be available or have enough data sets to be accurate. It cannot account for future changes in climate that may result in a different occurrence period. Consequently, further assumptions need to be made;
- Siting, design and construction of development to resist bushfire threats is much easier, more practical (and likely economical), to incorporate at initial planning stages rather than the retro-establishment of protection measures when circumstances change or tolerance of risk decreases;

- Time spent conducting historical research, performing statistical calculations and modifying risk levels, apart from being costly, is likely better spent assessing potential threat, exposure and vulnerability levels and developing appropriate protection measures; and
- The likelihood of occurrence cannot modify the levels of hazard threats, exposure or vulnerability. It can only be applied to reduce the overall risk level. That is, it would be applied as a modifying factor via the established risk level matrix and not the established risk factor criteria. The validity of incorporating such a factor may be indicated when, despite the existence of vegetation that can burn, there are other mitigating physical conditions that exist at the specific site that make the likelihood of ignition and severity of bushfire behaviour very low. How this is applied would need to be established by the authority establishing the relevant risk level matrix.

Table A2.1: Risk matrix for deriving indicative risk levels from the assessed relative levels of threat, exposure and vulnerability.

INDICATIVE RISK LEVEL MATRIX						
Relative Threat Level (a)	Relative Exposure Level (b)	Relative Vulnerability Level (c)				
		Very Low (1)	Low (2)	Moderate (3)	High (4)	Extreme (5)
Very Low (1)	Very Low (1)	VL1	VL2	VL3	L4	L5
	Low (2)	VL2	VL3	L4	L5	L6
	Moderate (3)	VL3	L4	L5	L6	M7
	High (4)	L4	L5	L6	M7	M8
	Extreme (5)	L5	L6	M7	M8	H9
Low (2)	Very Low (1)	VL2	VL3	L4	L5	L6
	Low (2)	VL3	L4	L5	L6	M7
	Moderate (3)	L4	L5	L6	M7	M8
	High (4)	L5	L6	M7	M8	H9
	Extreme (5)	L6	M7	M8	H9	H10
Moderate (3)	Very Low (1)	VL3	L4	L5	L6	M7
	Low (2)	L4	L5	L6	M7	M8
	Moderate (3)	L5	L6	M7	M8	H9
	High (4)	L6	M7	M8	H9	H10
	Extreme (5)	M7	M8	H9	H10	H11
High (4)	Very Low (1)	L4	L5	L6	M7	M8
	Low (2)	L5	L6	M7	M8	H9
	Moderate (3)	L6	M7	M8	H9	H10
	High (4)	M7	M8	H9	H10	H11
	Extreme (5)	M8	H9	H10	H11	E12
Extreme (5)	Very Low (1)	L5	L6	M7	M8	H9
	Low (2)	L6	M7	M8	H9	H10
	Moderate (3)	M7	M8	H9	H10	H11
	High (4)	M8	H9	H10	H11	E12
	Extreme (5)	H9	H10	H11	E12	E13

Indicative risk level key: VL = very low, L = low, M = moderate, H = high, E = extreme.

The qualitative relative levels are assigned a numerical value.

The indicative risk value is calculated as = (a + b + c) – 2 and range from 1 (lowest) to 13 (greatest).

The indicative risk levels are derived from an assigned a numerical range: very low = 1-3, low = 4-6, moderate = 7-8, high = 9-11, extreme = 12-13.

APPENDIX 3: THE ALARP PRINCIPLE AND THE RISK TOLERANCE SCALE APPLIED

The following information is intended to provide an understanding of the ALARP principle and provide justification for its application in this risk assessment report.

THE ALARP PRINCIPLE

The As Low as Reasonably Practicable (ALARP) principle is based on the belief it is not possible to completely eliminate all risk involved, there will always be a certain level of risk remaining known as residual risk. The term is used to express the expected level of residual risk within a system, activity or, relevant to this document, within a proposed development/use, when good practice, judgement and duty of care are applied to decisions and operations.

The origins of the ALARP (As Low as Reasonably Practicable) principle are from United Kingdom case law and their regulatory framework. It is applied by their Health and Safety Executive (HSE) and is used by regulators and companies around the world as it provides a logical basis for managing risks – including its adaption for use in the following Australian guidelines:

- Australian Institute for Disaster Resilience, 2020; Land use Planning for Disaster Resilient Communities;
- WA Department of Mines, Industry Regulation and Safety, 2020; Petroleum safety and major hazard facility – guide. ALARP demonstration;
- NOPSEMA (Australia's offshore energy regulator), 2020; ALARP and risk assessment guidance notes;
- Department of Planning Lands and Heritage (DPLH), 2019; Coastal hazard risk management and adaptation planning guidelines;
- Planning Institute of Australia, 2015; National Land Use Planning Guidelines for Disaster Resilient Communities; and
- NERAG 2010, an earlier version of NERAG 2020, applied the ALARP Principle.

The ALARP principle has been defined by the United Kingdom Health and Safety Executive (HSE-UK, 2001) to depict the concept that efforts to reduce risk should be continued until the incremental cost in doing so is grossly disproportionate to the value of the incremental risk reduction achieved (see figure). Incremental cost is defined in terms of time, effort, finance or other expenditure of resources – including loss of natural resources. Usually, each incremental reduction in risk will require a greater expenditure of resources.

This concept is depicted in Figure A3.1 where the triangle represents the decreasing risk and the diminishing proportional benefit as risk is reduced. There are also three regions shown in the figure into which general levels of residual risk can fall. The residual risk should fall either in the broadly acceptable region, or near the bottom of the tolerable region. This approach allows higher levels of safety to be provided where it is feasible.

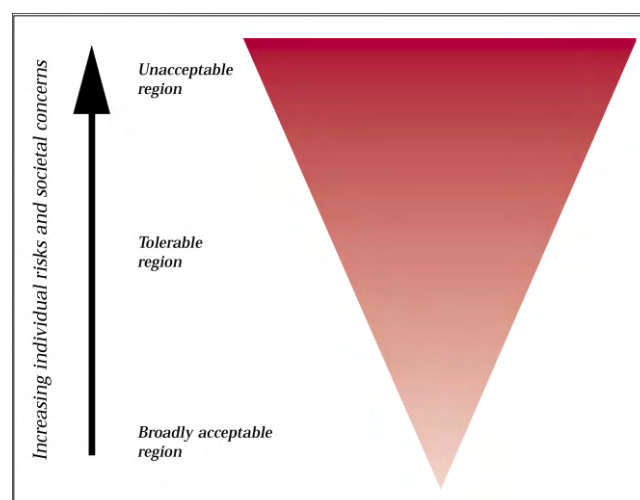


Figure A3.1: HSE framework for the tolerability of risk (source: HSE-UK, 2001)

Moving up the triangle from the region considered broadly acceptable, through a tolerable region (for which a greater range of risk can be considered), to an unacceptable region, represents increasing levels of 'risk' for a particular hazard or hazardous activity (determined through relevant risk analysis). Table A3.1 describes the risks that define each region.

Table A3.1: The risks associated with the risk tolerance regions (adapted from HSE-UK, 2001)

THE ALARP PRINCIPLE – DEFINING THE REGIONS OF RISK TOLERANCE	
Unacceptable Region	<p>For practical purposes, a particular risk falling into this region is regarded as unacceptable whatever the level of benefits associated with the activity.</p> <p>Any activity, practice or use of land giving rise to risks falling in this region would, as a matter of principle, be not approved unless the activity or practice can be modified to reduce the degree of risk so that it falls in one of the regions below, or there are exceptional reasons for the activity, practice or use to be retained.</p>
Tolerable Region	<p>Risks in this region are typical of the risks from activities that people are prepared to tolerate in order to secure benefits, in the expectation that:</p> <ul style="list-style-type: none"> • The nature and level of the risks are properly assessed, and the results used properly to determine control measures. The assessment of the risks needs to be based on the best available scientific evidence and, where evidence is lacking, on the best available scientific advice; • The residual risks are not unduly high and kept as low as reasonably practicable. This is the region to which the ALARP principle applies; and • The risks are periodically reviewed to ensure that they still meet the ALARP criteria, for example, by ascertaining whether further or new control measures need to be introduced to take into account changes over time, such as new knowledge about the risk or the availability of new techniques for reducing or eliminating risks. • In practice and where possible, the intent should be that residual risk continues to be driven down the tolerable range so that it falls either in the broadly acceptable region or is near the bottom of the tolerable region, in keeping with the duty to ensure health, safety and welfare so far as is reasonably practicable as per the ALARP principal.
Broadly Acceptable Region	<p>Risks falling into this region are generally regarded as insignificant and adequately controlled. Regulators would not usually require further action to reduce risks unless reasonably practicable measures are available.</p> <p>The levels of risk characterising this region are comparable to those that people regard as insignificant or trivial in their daily lives. They are typical of the risk from activities that are inherently not very hazardous or from hazardous activities that can be, and are, readily controlled to produce very low risks.</p>
<p>Note: The risk tolerability framework is a conceptual model. The factors and processes that ultimately decide whether a risk is unacceptable, tolerable or broadly acceptable are dynamic in nature and are sometimes governed by the particular circumstances, time and environment in which the activity, practice or use occurs or is proposed. Standards change and public expectations vary between societies and change with time.</p>	

RISK TOLERANCE SCALE

The application of a risk tolerance scale is necessary to:

1. Identify which exposed elements must be given priority for the development and application of bushfire protection measures; and
2. Where planning approval is being sought, identify if the determined residual risk levels can be considered as tolerable or acceptable and therefore capable of being approved for this factor, or not.

The risk tolerance scale to be applied within the risk assessment report, when the required risk factor criteria and risk level matrix are available, is established in Table A3.2.

Table A3.2: The applied risk tolerance scale

APPLIED RISK TOLERANCE SCALE - INCORPORATING THE ALARP PRINCIPLE		
Indicative / Determined Risk Level	Tolerability Description and Action Required	Risk Tolerance Level ¹
Extreme	<p>The risks are unacceptable and require immediate implementation of risk management measures to eliminate or reduce risk to tolerable or acceptable levels.</p> <p>Proposed development giving rise to risks in this region would not be approved unless there are exceptional reasons for the development to proceed.</p>	Unacceptable
High	<p>The risks are the most severe that can be tolerated but not unduly high. They require monitoring in the short term as risk management measures are likely to be needed in the short term given the intent should be to drive residual risk lower down the tolerable range where possible.</p>	Intolerable - if <u>not</u> ALARP -
		Tolerable - if ALARP -
Moderate	<p>The risk is approaching an acceptable level. It can be tolerated and requires monitoring in the short to medium term. Need to consider potential changes over time in the risk and/or techniques for reducing/eliminating risk.</p> <p>Risk management measures may be needed to reduce risk to more acceptable levels where possible – or accept the risk.</p>	Tolerable - if <u>not</u> ALARP -
		Acceptable - if ALARP -
Low		Acceptable
Very Low		
¹ Refer to the glossary for definitions of the tolerance levels.		

APPLICATION JUSTIFICATION

The following is taken from the 'National Land Use Planning Guidelines for Disaster Resilient Communities' (Planning Institute of Australia, 2015) and is also referred to in the document 'Land use Planning for Disaster Resilient Communities' (Australian Institute for Disaster Resilience, 2020).

Of relevance to planners in the NERAG is the ALARP principle and how it is used in evaluating risks. According to NERAG, the ALARP principle is applied to define boundaries between risks that are generally intolerable, tolerable or broadly acceptable. The ALARP principle will help to prioritise a risk hierarchy and determine which risks require action and which do not. Those that are broadly acceptable naturally require little, if any, action while risks that are at an intolerable level require attention to bring them to a tolerable level.

According to NERAG, it is entirely appropriate and accepted practice that risks may be tolerated, provided that the risks are known and managed.

The ALARP principle is particularly relevant to planners and other built environment professionals as it provides the means to categorise risks according to their severity, and to assign risk treatment options accordingly.

It is important to note that the effect each hazard has on a community and its settlement is different, and therefore land use planning and building responses may not always be appropriate to treat the risk borne by a particular hazard. Equally, the effectiveness or strength of response provided by land use planning or building may not be sufficient to fully address the risk.

In addition, it is likely that through a normal natural hazard management process a range of treatment measures will be proposed, tested and implemented to provide a comprehensive approach to risk treatment that may involve other measures working in concert with land use planning or building responses.

The manner in which land use planning and building responses are deployed to treat specific instances of natural hazard risk will vary depending on location, information availability, community views, broader development intent for the settlement under analysis and the effect of complementary risk treatment measures.

However, the ALARP principle provides a good reference for demonstrating the land use responses for the various ALARP risk categories. Generally speaking, in areas of intolerable risk the strongest land use planning and building responses should apply. Conversely, in areas of acceptable risk only minimal controls should apply, if at all.

The most complex risk category for which to prescribe treatment from a land use and building perspective is those areas of tolerable risk. Such risks in existing settlements may not be sufficiently concerning to warrant severe use restrictions or relocation, however they will need treatment over time to ensure the risk does not increase. Treatment options in this instance may include limiting vulnerable uses in this area, restricting significant intensification of development, and promoting resilient urban design. Such areas of tolerable risk are also best avoided from a greenfield perspective to limit increases in future risk and costs associated with infrastructure failure in these locations that could otherwise been avoided.

APPENDIX 4: THE BUSHFIRE HAZARD – BEHAVIOUR AND ATTACK MECHANISMS

FACTORS INFLUENCING BUSHFIRE BEHAVIOUR

There are three primary factors that influence the intensity, speed and spread of a bushfire. Any increase in these behaviours will result in greater threat levels, to exposed elements, from the bushfire attack mechanisms.

1. **VEGETATION AND OTHER FUELS:** Key characteristics that will influence fire behaviour include:

- **Fuel size and shape** – anything less than 6mm diameter/thickness is considered a fine fuel and will ignite and burn quickly. Larger/heavier fuels take longer to ignite but burn for longer, so the threat exists for longer;
- **Fuel load** – the quantity of available fuel (t/ha) will influence the size of the fire. In particular it is the fine fuel load that determines the intensity of the bushfire and the flame sizes. Vegetation type and period over which it can accumulate will determine fuel loads;
- **Vegetation type** – this influences the size, shape and quantity of available fuels. For bushfire purposes vegetation types include the classifications of forest, woodland, scrub, shrubland and grassland (with total fuel loads typically decreasing in that order);
- **Fuel arrangement** – will influence two factors of fire behaviour (1) the speed and intensity of burning and (2) how much of the total fuels are likely to be involved in the fire simultaneously. The first factor is a function of how densely packed or aerated the fuels are with the more available arrangement burning with greater intensity. The second factor is a function of the availability of 'ladder' fuels (i.e. near surface, elevated and bark fuels) to carry fire up the vegetation profile, and the continuity of fuels to carry the fuel across the land; and
- **Fuel moisture content** – drier fuels will ignite easily and burn quickly. The inherent moisture content of the vegetative fuels is a function of the vegetation type and arrangement and/or the positioning of the vegetation complex near readily available sources of moisture.

Greater quantities of finer, dryer, aerated and connected fuels will result in more severe behaviours and elevated bushfire threat levels. Large extents of vegetation (broader landscape scale) can have additional implications for the development of extreme bushfire events and the consequent increase in bushfire threat levels (refer to Appendix 5 for additional information).

2. **WEATHER:** Adverse fire weather that results in more severe behaviours and elevated threat levels includes strong winds, high temperatures, low relative humidity and extended periods of these factors.

Weather events at the broader landscape scale can have implications for the development of extreme bushfire events and consequent increase in bushfire threat levels (refer to Appendix 5 for additional information).

3. **TOPOGRAPHY:** The physical terrain can influence the severity of fire behaviour. At a local scale, it is the influence of ground slope on the rate a fire spreads, that is most relevant. Fire travels faster up slopes (rule of thumb is a doubling of speed for every 10 degrees increase in slope). Greater rates of spread increase fire intensity and the resultant threat levels.

At the broader landscape scale, the impact of topography can be significant and includes establishing the potential for development of certain dynamic fire behaviours that can lead to extreme bushfire events and elevated threat levels (refer to Appendix 5 for additional information).

BUSHFIRE DIRECT ATTACK MECHANISMS

EMBER ATTACK: Ember attack is the most common way for structures to ignite in a bushfire. Scientific research indicates that at least 80% of building losses from past Australian bushfires can be attributed to ember/firebrand attack (mostly in isolation but also in combination with radiant heat), and the resultant consequential fires. (Leonard J.E. et.al; 2004 – Bianchi R. et.al. 2005 - Bianchi R. et.al. 2006).

Embers are the primary ignition source for consequential fire:

- They accumulate around and on vulnerable parts of structures (roofs, gutters, doors, windows, re-entrant corners)
- They enter gaps in structures envelopes to vulnerable internal cavities and spaces.
- They ignite surface materials such as walls and decks and any accumulated vegetative debris.

Embers can attack structures for a significant length of time before and after the passage of the fire front, as well as during. This potential length of exposure is an important factor in the consideration of the level of threat embers present.

An ember is a small particle of burning material that is transported in the winds that accompany a bushfire (larger particles can exist as firebrands from certain vegetation types). Typically these consist of plant materials such as bark, leaves and twigs that exist as part of the standing vegetation or has collected or been placed on the ground.

Of the plant materials, bark is the predominant source of embers but built timber elements will also produce embers.

Bark is the primary source of embers and spotting in Australian eucalypt forests due to the key attributes of ease of ignition, extended burnout time and the favourable size to weight ratio and aerodynamic properties. Differences in these attributes strongly influence the spotting potential from different forest types – and therefore the potential hazard rating of the bark.

The type of tree bark will determine the size, shape and number of embers/firebrands which, along with the prevailing fire behaviour and weather conditions will dictate the spotting distances and density of ignitions.

Fine fibrous barks - including stringybarks (e.g. jarrah), have loosely attached fibrous flakes and can produce massive quantities of embers (prolific spotting) for shorter (up to 0.75 km) and medium distances (up to 5 km).

Short distance spotting (including ember showers) are generally the result of embers and firebrands blown directly ahead of the fire with little or no lofting. Density tends to decrease with distance from the fire front.

Medium distance spotting results from embers and firebrands that are lofted briefly in a convection column or blown from an elevated position (e.g., from tree tops on ridges). With sufficient density and coalescing spot fires, this can rapidly increase the size of a fire (deep flaming) leading to dynamic fire behaviours and extreme fire events.

Ribbon/candle type barks - have longer burnout time, extended flight paths and are more likely to be responsible for longer distance spotting > 5 km (with up to 30 km having been authenticated). This results from significant lofting of large firebrands (e.g. curled hollow tubes of bark that can burn for 40 minutes) in well-developed convection columns. These develop as separate, independent fires. Very long distance spotting requires Intense fire, maintenance of a strong convection column (to lift firebrands aloft) and strong winds aloft (to transport the firebrands).

Other bark types - that include coarsely fibrous (e.g. marri) / slab or smooth / platy and papery barks - produce lower quantities of embers and shorter distance spotting. Their highest bark hazard ratings that are lower than fine fibrous or ribbon barks.

(Sources: CSIRO Climate and Disaster Resilience Report 2020 and Overall Fuel Hazard Assessment Guide 4th edition July 2010, Victoria DSE and Cruz, MG (2021) The Vesta Mk 2 rate of fire spread model: a user's guide. CSIRO).

The importance of establishing protection measures to mitigate the potential impact of consequential fire ignited by the ember attack mechanism, cannot be overstated.

RADIANT HEAT ATTACK: This heat radiates in all directions from a bushfire and can potentially be felt hundreds of meters away. The amount of heat that a flame can transfer to other objects is influenced by the flame size and its temperature. These are a function of the characteristics of the fuels being burnt including fuel size, dryness, structure, arrangement and quantity. The bushfire is additionally influenced by the weather and topography factors that can intensify fire behaviour (described at end of this section).

Radiant heat:

- Can damage or destroy elements that are vulnerable to higher levels of heat;
- Can dry and heat vegetation and other fuels (combustible materials such as timber) to a temperature at which they ignite or are more easily ignited by existing flames or embers; and
- Is an extremely significant threat to people when they are not physically shielded. Protective clothing can provide only limited protection.

BUSHFIRE FLAME ATTACK: When flames make contact with structures they can flow over, under and around – impacting surfaces not directly facing the bushfire.

Flames will be longer when fine fuel loads are higher and will move faster up slopes and generally, slower down slopes.

Flame temperatures are highest in the lower parts of the flame and decrease towards the tip. The flame has two distinct regions - the lower solid body flame and the upper part that is a transitory flame (intermittently present). Both flame regions can damage structures.

Note: AS 3959:2018 *Construction of buildings in bushfire prone areas*, establishes both the construction requirements corresponding to each Bushfire Attack Level (BAL) and the methodology for determining a BAL. For a bushfire modelled using this methodology, the derived flame length only provides an estimate of the solid body flame length.

SURFACE FIRE ATTACK: These are low intensity fires (less than 0.5m high) burning along the ground consuming mostly intermittent fine fuels such as vegetation debris, litter, and mulches. They are typically patchy and erratic in their direction and short lived (<40 seconds) when burning in the absence of heavier fuels.

Typically these fires will be on the land immediately surrounding buildings and associated structures and other heavy fuels. Their importance as a threat is the bringing of direct flame contact, higher radiant heat and embers closer to these exposed elements.

BUSHFIRE INDIRECT ATTACK MECHANISMS

DEBRIS ACCUMULATION: The relevant debris are combustible fine fuels that can accumulate (by falling or being windblown) in close proximity to subject structures and their surrounding structures and other heavy fuels. This makes the burning of these structures/fuels much easier and more likely through the ignition of the accumulated debris by ember attack.

This debris can accumulate over long time periods (years) in locations such as:

- On horizontal or close to horizontal surfaces and rough timber surfaces;
- Within re-entrant corners and roof gutters/valleys;
- Against vertical surfaces; and
- Within internal spaces /cavities and under sub-floors when gaps are present.

The potential threat level will be determined by:

- The presence of vegetation types that produce quantities of debris with those that produce in the driest and hottest part of the year presenting a greater threat;
- The extent of this vegetation; and
- The proximity of this vegetation to the exposed and vulnerable structures.

CONSEQUENTIAL FIRE:

Consequential fire is the burning of vulnerable (combustible/flammable) materials, items and structures that exist within the area surrounding the subject building or structure – the surrounding vulnerable elements.

The burning of these surrounding vulnerable elements can result in the subject building/ structure being exposed to the direct fire attack mechanisms (threats) of flame, radiant heat, embers and surface fire from a close distance.

These are threats that are separate from and additional to the threats generated by the bushfire front itself - which can be and often is, a considerable distance away.

The importance of establishing protection measures to mitigate the potential impact of consequential fire cannot be overstated.

Consequential fire fuels consist of both fine and heavy fuels.

Fine fuels:

- Dead plant material such as leaves grass, bark and twigs thinner than 6mm (or live material less than 3mm thick that can be consumed in a fire involving dead material); and
- Originate from the indirect bushfire attack mechanism of 'debris accumulation' and potentially from other areas of landscaped vegetation.

Heavy and Large Heavy Fuels:

- **Stored combustible / flammable items:**
 - Building materials, packaging materials, firewood, sporting/playground equipment, outdoor furniture, matting, rubbish bins etc;
 - Large quantities of dead vegetation materials stored as part of site use;

- Liquids and gases; and
- Vehicles, caravans and boats, etc.
- **Constructed combustible items:**
 - Surrounding landscaping items - fences/screens, retaining walls, gazebos, plastic water tanks etc;
 - Attached structures - decks, verandahs, stairs, carports, garages, pergolas, patios, etc;
 - Adjacent structures - houses, sheds, garages, carports, etc. Structure to structure fire is a common cause of overall building loss in post bushfire event assessments [9].

FIRE DRIVEN WIND: Severe bushfires are commonly accompanied by high winds due to the prevailing weather conditions. Localised high winds can be induced by the bushfire. When the required factors exist, the bushfire can couple with the atmosphere (pyro-convective) resulting in extreme bushfire events and gusty, severe windspeeds.

These winds can directly damage the external envelope of a building or structure by pressure (low and high) or the carriage of varying types of solid debris. This provides openings for other bushfire attack mechanisms to enter and ignite internal cavities.

TREE STRIKE/OBSTRUCTION: Branches or trees, subject to strong winds and/or tree burnout, can:

- Damage the envelope of a structure creating openings for direct attack mechanisms of bushfire (or consequential fire) to ignite internal cavities or living space:
- Fall and obstruct access to or egress from, a structure or site being impacted by bushfire.

APPENDIX 5: THE BROADER LANDSCAPE AND EXTREME BUSHFIRE EVENTS

The content of this appendix is an overview of information that supports the assessment approach of section 5.4 of this report. It considers the risk implications arising from what is being learnt from the latest research work within the bushfire science of dynamic fire propagation and extreme fire development.

Any potential for extreme fire events to develop in the broader landscape surrounding the subject site, will result in increased in bushfire hazard threat levels to exposed elements and must be accounted for in the risk assessment.

The selected compilation of information is taken from various sources including peer reviewed research papers [references 1-3, 12, 15, 21, 27, 28, 41, 42].

RECENT BUSHFIRE RESEARCH

Traditionally, bushfire modelling conducted to determine rates of spread, intensity, flame lengths, radiant heat etc and provide measurements of threat levels, has been based on the quasi-steady fire state (i.e. a fire propagating under constant and uniform fuel, weather and topography – after it has finished its growth phase).

More recent research has provided important insights into the dynamic nature of fire spread in the landscape and identified local drivers of bushfire risk and highlighted the role of environmental factors that are significant for large and extreme fire development.

These environmental factors include aspects of the vertical structure of the atmosphere, meso-scale fire weather processes (e.g., sea breezes, cold fronts, squall lines, convective complexes), interactions between the fire and the atmosphere, and the modification of fire weather and fire behaviour due to the local topography.

From this work, a number of processes that can contribute significantly to the level of risk posed by a bushfire have been identified. These include:

- Extreme fire weather processes;
- Dynamic fire propagation; and
- Violent pyroconvection and pyrogenic winds.

Of particular relevance to this risk assessment are the topographic aspects of the broader landscape surrounding the subject site and the potential it might present for dynamic fire propagation, development of extreme fire events and therefore increased bushfire hazard threat levels and consequent risk.

DYNAMIC FIRE BEHAVIOURS

Dynamic fire behaviours (DFBs) result from interactions between the physical factors of fuel, terrain, fire weather conditions, atmosphere and different parts of the bushfire itself. They are physical phenomenon that involve rapid changes of fire behaviour and occur under specific conditions.

Certain DFBs occur at various scales and time frames (e.g. spotting), others only at large scales (e.g., conflagrations and pyroconvective events) and others at small scales and short time spans (e.g. junction fires, fire whirls). The following fire behaviours are considered DFBs:

Spotting

The production of embers/firebrands, carried by the wind/convective currents that ignite spot fires ahead of the bushfire front. Under extreme conditions, with the necessary fuels, mass spotting events can occur. Dependent on fuel types, winds and convective currents, embers can be consumed by the fire front itself or travel tens of kilometres. Spot fire occurrence can be so prevalent that spotting becomes the dominant propagation mechanism – with the fire spreading as a cascade of spot fires forming a 'pseudo' front.

Fire Whirl / Tornado

Various sized (<1m - >150m) spinning vortices of ascending hot air and gases that carry smoke, debris, and flame. The intensity of larger whirls compares to tornados. Can induce fire spread contrary to prevailing wind and ignite spot fires away from the fire front.

Junction Fire

Is associated with merging fire fronts that produces very high rates of spread and have the potential to generate fire whirls / tornadoes.

Crown Fire

Types of tree crown fires have been categorised according to their degree of dependence on the surface fire phase - passive, active, independent - with the last two being considered dynamic fire behaviour.

Active crown fire is "a fire in which a solid flame develops in the crowns of trees, but the surface and crown phases advance as a linked unit dependent on each other."

Independent crown fires "advance in the tree crowns alone, not requiring any energy from the surface fire to sustain combustion or movement."

For a crown fire to start, a surface fire of sufficient intensity is first necessary. The distance between the heat source at the ground surface and the canopy-fuel layer will determine how much of the surface fire's energy is dissipated before reaching the fuels at the base of the canopy. The higher the canopy base, the lower the chance of crowning.

The existence of trees themselves, separated from surface fuels, can offer a degree of protection by absorbing radiant heat, trapping embers and shielding from winds. Necessary considerations include:

- Eliminating understorey fuels;
- Species Issue: Understanding the extent to which the trees will contribute to fuels (leaves/bark/twigs etc) that accumulate on the ground and when moved (wind) become involved in consequential fire away from the tree during the fire season. This needs to be considered against the maintenance capability (regular removal of material) of the responsible entity; and
- Species / Positioning Issue: Requirements include not being highly flammable, no loose stringy bark, less able to trap embers, not being prone to branches breaking in high winds potentially causing structural damage to buildings (allowing ember entry) and keeping crowns separated as an additional measure of safety and allow wind to permeate rather than be totally blocked.

Eruptive Fire

Behaviour where the head fire accelerates rapidly on sufficiently steep terrain with sufficiently strong wind – as a result of fire plume attachment to the surface, bathing it in flames ahead of the front (pre-heating).

Fire Channelling / VLS (vorticity-driven lateral spread)

Behaviour where rapid lateral fire spread, in generated vortices, occurs across a sufficiently steep leeward slope in a direction approximately transverse to the prevailing winds. This results in the rapid increase in width of the fire front. VLS are highly effective at producing mass spotting events.

Conflagrations

These are large, intense, destructive fires. They have a moving front as distinguished from a fire storm (blow up / pyroconvective fire). With sufficient vegetation extent, fuel loads and the development of dynamic fire behaviours, the large amounts of heat and moisture released can cause its plume to rise into the atmosphere and develop large cumulus or cumulonimbus flammagenitus cloud (pyrocumulus or pyrocumulonimbus). Where the extent of vertical development is limited (e.g. a stable atmosphere, or insufficient flaming zone), the fire is likely to remain a surface based event.

Downbursts

These are strong wind downdrafts associated with convective columns of heated air (and associated cloud forms). The consequent falling columns of cooled air induce an outburst of strong winds on or near the ground that radially spread causing fire spread in directions contrary to the prevailing wind.

Pyroconvective Event

A pyro-convective event is an extreme manifestation of a conflagration that develops in an unstable atmosphere and can transition into a towering pyrocumulus or a pyrocumulonimbus (pyroCb's) that can extend to the upper troposphere or lower stratosphere. With the fire/atmosphere coupling, it has evolved beyond a purely surface based fire into dynamic fire propagation rather than quasi-steady propagation. In the violent pyroconvective system:

- As a fire's plume reaches higher into the atmosphere, larger scale mixing can cause drier and higher-momentum upper air to be transferred back to the surface, thereby further exacerbating the potential for more intense fire behaviour, including fire spread contrary to the prevailing wind direction;
- Pyrogenic winds can cause considerable damage to structures, directly or indirectly, increasing their vulnerability to bushfire attack mechanisms; and

- The pyroCb's carry dense ember loads, fire and other burning debris and generate lightning, all with very little rain or hail that would typically occur with an ordinary thunderstorm.

DRIVERS OF DEEP FLAMING

Deep flaming is the fire condition when the active flaming zone is unusually large and flame-front intensity is simultaneously great, resulting in large quasi-instantaneous energy release.

Deep flaming can be produced by numbers of mechanisms on varying terrain (flat, undulating or rugged) when a large enough area of sufficiently heavy fuels is present. These mechanisms include:

- Very strong winds – so the head fire advances more rapidly than the back of the flaming zone;
- Change in wind direction – so the long flank of a fire is transformed into a fast running head fire;
- Eruptive fire behaviour – where steep slopes can cause a fire to accelerate rapidly;
- Vorticity-driven lateral spread (wind channelling) – where strong winds and steep terrain interact to rapidly drive a fire laterally, accompanied by downwind mass spotting and consequent coalescing of spot fires forming large areas of flame (can include the DFB of 'junction fire').

Research has identified strong links between:

- Eruptive fire behaviour, VLS and the occurrence of deep flaming; and
- The development of deep flaming and extreme bushfire events.

EXTREME BUSHFIRE EVENTS

Extreme bushfire events create disproportionate risks to human and environmental. Their development is affected by dynamic feedback processes that result in unpredictable behaviour, and the worsening of rates of spread and intensities - even when environmental conditions are consistent.

The term 'extreme bushfire' is applied in the recent bushfire science literature in two ways:

1. Where it refers to large, intense bushfires in which one or more DFBs are simultaneously involved; and
2. Where it more specifically refers to a fire that exhibits deep or widespread flaming in an atmospheric environment conducive to the development of violent pyroconvection, often manifesting as towering pyrocumululus (pyroCu) or pyrocumulonimbus (pyroCb) storm(s) – also referred to as blow-up fire event(s).

A distinguishing feature of these types of fires is that they involve a coupling of the fire with an unstable atmosphere to a much greater vertical extent, well above the mixed layer, which modifies or maintains the fire's propagation (e.g. through mass spotting, blustering winds and lightning);

Relevance to Risk Assessment: Given that this risk assessment is concerned with identifying the potential for the broader landscape surrounding the subject site to increase bushfire risk, the following common aspects of the two above descriptions are relevant:

- An extreme fire is a large intense fire, so it requires a sufficient area and sufficient fuels in which to develop; and
- An extreme fire of scale requires the formation of deep flaming to develop.

Consequently, the risk assessment is primarily focused on the extent and fuel types/loads of bushfire prone vegetation and the existence of terrain (topography) properties necessary for the relevant dynamic fire behaviours - rather than the potential for adverse fire weather / atmospheric conditions - whose likely occurrence can be assumed as possible.

Note also that the second description requires an unstable atmosphere - to enable deep/violent pyroconvection and subsequent significant cloud formation and latent heat release. This is not essential for the first. Consequently, this identifies a potential difference between the two defined extreme bushfire events to be considered when assessing risk:

- Large, intense bushfires can occur without deep convective column development. These fires remain as surface fires (essentially wind-driven fires), with a greater predictability of behaviour; and
- Large, intense bushfire that couple with an unstable atmosphere are no longer surface based. They are associated with a higher level of energy, chaos, and nonlinearity due to the enhanced (fire-induced)

interaction between the boundary layer and the free troposphere, which may introduce factors that act to maintain or enhance widespread flaming. The fire behaviour is much more unpredictable.

PHYSICAL REQUIREMENTS OF TERRAIN, FUEL LOAD (AND WINDSPEED) FOR DEEP FLAMING

The dynamic fire behaviours of eruptive fire and VLS and associated mass spotting, along with potential for topographically modified winds to develop, are strongly linked with the development of deep flaming, which is a prerequisite for extreme bushfire events.

There are certain environmental thresholds that are required to be met for these dynamic fire behaviours to occur. These are described below and form part of the assessment of the bushfire hazard in Section 5.5.

Eruptive Fire Behaviour

Eruptive fires are characterised by a rapid acceleration of the head fire rate of spread (exponential increases in rate of spread have been observed). It results in a rapid deepening of the flaming zone (larger area of active flame), from which heat is released into the atmosphere.

Eruptive fire results from the interaction between the slope of the terrain and the fire's plume. In the absence of wind, plume attachment can be expected on terrain that is inclined at roughly 24° or more and the effects of wind could cause plume attachment on slopes inclined at angles of 24° or lower. Consequently, the primary topographic requirement for eruptive fire is sufficiently steep terrain and sufficiently strong wind.

"This mode of fire propagation is completely contrary to that expected under the quasi-steady fire spread paradigm ... eruptive fire behaviour poses a serious threat to the successful containment of a bushfire and provides a mechanism that can substantially elevate the risk posed by a bushfire in areas that are prone to its occurrence".

Rugged terrain (areas with local topographic relief >300m), is particularly prone to eruptive fire (and dynamic fire behaviours in general).

Fire Channelling (Vorticity-Driven Lateral Spread)

Fire channelling (VLS) exists when a fire exhibits rapid spread in a direction transverse to the synoptic winds as well as in the usual downwind direction. It is characterised by intense lateral and downwind spotting and production of extensive flaming zones.

VLS is highly effective at producing mass spotting events. A link between deep flaming events caused by VLS and the formation of pyroCb has been demonstrated. Under extreme conditions, spot fire occurrence can be so prevalent that spotting becomes the dominant propagation mechanism.

VLS can only be expected to occur on parts of the landscape, and under certain fire weather conditions. VLS occurrence depends critically on the following:

- Leeward slopes greater than 20-25° are required;
- Wind direction must be within 30-40° of the topographic aspect;
- Wind speed in excess of about 20 km h⁻¹ are required;
- Generally VLS is only observed in heavy forest fuel types with load in excess of 15-20 t ha; and
- Fuel moisture content – dense spotting and downwind extension of the flaming zone are far more likely when fuel moisture contents are around 5% or less.

Topographically Modified Surface Winds - Downslope Winds

In WA the scarp winds are the well-known local occurrence of downslope winds. Similar meteorological phenomena (typically as foehn winds) occur in the lee of mountain ranges in many parts of the world, particularly on ranges with gentle windward and steep leeward slopes.

Scarp winds are nocturnal, strong and gusty winds that develop near the base of the scarp through summer months. The local mechanism is for a synoptic easterly flow, causing air to rise to the top of the scarp from further inland, at which point it is cooler and denser than the surrounding airmass. This produces an unstable situation and consequently the air flows down the scarp as a turbulent density current.

There are implications for enhanced fire activity for a fire located in a region of downslope winds, as they provide a clear mechanism for rapid, irregular direction of fire spread as well as turbulent transport of firebrands and plume development. If a 'hydraulic jump' is also present, the strong vertical motion in the jump region is a mechanism for lofting and dispersal of firebrands further ahead of the bushfire front.

APPENDIX 6: HAZARD REDUCTION BURNING – ADDITIONAL INFORMATION

The following information provides supporting guidance to the relevant bushfire protection measures that reduce bushfire hazard threat levels by reducing fuel levels.

1. SIGNIFICANT AREAS (LARGER) AREAS OF BUSHFIRE PRONE VEGETATION

Annually

Prior to the bushfire season ensure the following management of the identified areas of vegetation is conducted:

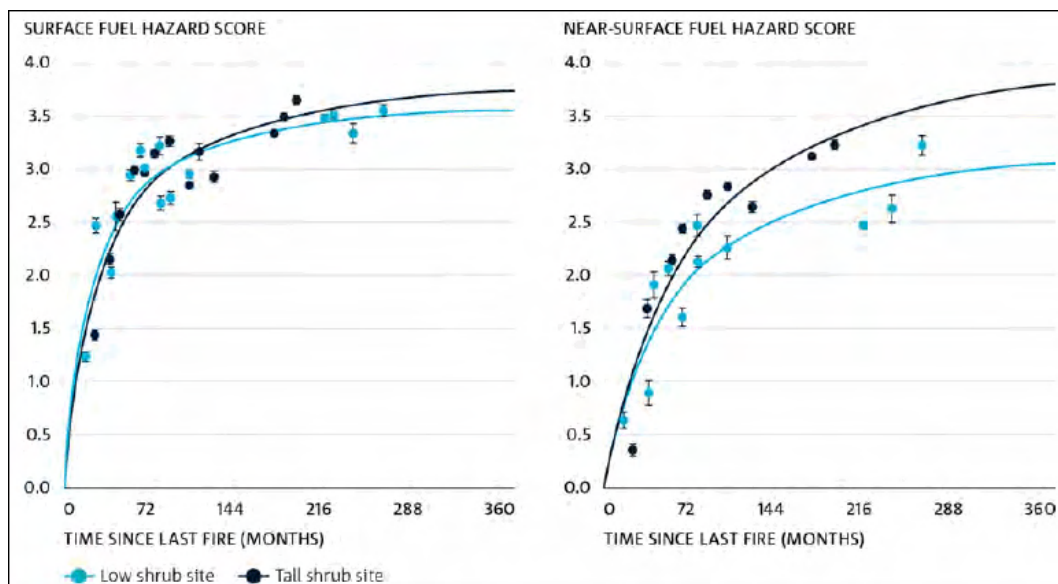
- Maintain the pruning of all trees and tall shrubs to a height of at least 2m from the ground and remove the material; and
- Remove any dead trees (that are not habitat trees), fallen branches and dead shrubs.

Burn Interval

Conduct hazard reduction burns at intervals that will ensure surface and near surface fuel loads (i.e. fine fuels – accumulated leaf litter, combustible plant materials and twigs up to 6mm diameter) remain less than 8 t/ha at all times.

It is likely the burning interval will need to be shorter than that which is typically currently conducted. The following statement and data from the Climate and Disaster Technical Report, CSIRO, 2020 [17] indicates the requirement for increased frequency of hazard reduction due to the rapid increase in surface and near surface fuel loads after hazard reduction burning.

“The only study published on the dynamics and structure of fine fuel in dry eucalypt forest following prescribed fire is that of Gould et al. (2011) utilising data to drive an exponential fuel accumulation relation for the key fuel attributes of surface fuel hazard and near-surface fuel hazard. In this study of time since fire in jarrah forest (Eucalyptus marginata), it was found that, over the 20-year period of the study (1979-1999) while surface fuel loads continued to increase indefinitely (up to and beyond 20 years), attributes such as percent cover and hazard score essentially plateaued after 6-9 years. Similarly, near-surface fuel loads were found to stop increasing significantly after 15-18 years whereas near-surface height and hazard score stopped increasing significantly after 9-12 years and 12-15 years, respectively (Figure 14). Bark hazard was found to be affected by hazard reduction burning for up to 12 years after hazard reduction burning”



*“Figure 14 Recovery of surface (left) and near-surface fuel hazard (right) in Jarrah Forest following hazard reduction burning. Under these conditions these fuel attributes returned to equivalent long unburnt state after approximately 12-15 years but the response in the first few years following burning is extremely rapid, **achieving 75% of fuel hazard within 4 years (surface) and 5-7 years (near-surface) depending on presence of shrub layer** (Redrawn from Gould et al. 2011)”*

2. THE BROADER LANDSCAPE

The following information has merit for consideration and is taken from the peer reviewed paper 'A framework for prioritising prescribed burning on public land in Western Australia'; Howard T. et al, DBCA and DFES; *International Journal of Wildland Fire* 2020, 29, 314-325.

To develop and apply this protection measure it is likely interested entities, such as local government will need to engage and work with the relevant state government agency responsible for the identified areas of vegetation.

The collaboration will be necessary to establish the required indicators of acceptable risk - as they are determined through the application of the following published framework - and to establish a responsibility to conduct the ongoing management of these areas of vegetation to maintain compliance with the established indicators.

KEY RELEVANT POINTS FROM THE FRAMEWORK (QUOTED)

Introduction to the framework:

- *The framework provides principles and a rationale for programming fuel management with indicators to demonstrate that bushfire risk has been reduced to an acceptable level.*
- *Each bushfire risk management zone is divided into fire management areas, based on the management intent. These are areas where fuels will be managed primarily to minimise the likelihood of fire causing adverse impacts on human settlements or critical infrastructure, to reduce the risk of bushfire at the landscape scale or to achieve other land management outcomes. Indicators of acceptable bushfire risk are defined for each fire management area and are modified according to the distribution of assets and potential fire behaviour in the landscape.*
- *The framework establishes principles and a rationale for programming fuel management and, critically, provides indicators that demonstrate that bushfire risk has been reduced to an acceptable level. The acceptable level of bushfire risk is determined through a risk assessment and prioritisation process.*

Principles for managing bushfire risk applied in the framework:

- **Consistent with international standard:** *The regional risk framework commits to applying risk management in a manner that is consistent with AS ISO 31000: 2018 Risk management guidelines (Standards Australia 2018). This involves adherence to the principles of risk management, and applying the risk management process to the identification, assessment and treatment of risk.*
- **Fuels are managed to reduce the harm:** *Managing the fuel available to burn is critical to managing the threat posed by bushfire. The available fuel, and its structure, affect the speed and intensity of a bushfire, which, in turn, determine both its potential to cause damage and suppression difficulty. Done at appropriate temporal and spatial scales, managing the quantity, structure and distribution of fuel available has been demonstrated to be an effective and efficient way to reduce the severity and extent of damage by bushfires.*
- **Fuel management does not eliminate risk:** *Fuel management aims to reduce the negative consequences of bushfires rather than prevent their occurrence. Given the importance of fire to maintaining ecosystem health and resilience, it is neither desirable nor feasible to eliminate bushfire from natural landscapes and it is recognised that both planned and unplanned fire can have benefits. Fuel management aims to reduce risk to an acceptable level by greatly enhancing and supporting the effectiveness of other measures, including bushfire law, fire suppression, urban planning, building codes for fire-prone areas and community preparedness.*
- *Fuel management is planned and integrated. Bushfire management puts people first, risk is managed at an appropriate scale and ecological requirements are considered when managing fuel.*

Framework for managing bushfire risk by prescribed burning:

- *The framework identifies bushfire risk management zones (BRMZ), recognises different fuel types (and associated fuel accumulation and fire behaviour models), classifies public lands within each zone into fire management areas (FMA) - with the Settlement-Hazard Separation classification being the relevant fire management area for the Mundaring town centre - and develops indicators of acceptable risk.*
- **Bushfire Risk Management Zones:** *The framework identifies eight bushfire risk management zones (BRMZ) characterised by broad consistency of land use, asset distribution, fire environment (vegetation, fuels and climate) and fire management practices that combine to create a characteristic risk profile (Fig. 2). The Southwest zone includes the majority of the state's population, urban development and infrastructure.*
- **Fuel Types:** *The framework recognises 13 broad types across Western Australia. Fuel types are based primarily on structural attributes of the vegetation that influence fire behaviour. For each fuel type, best available information*

has been assembled regarding post-fire patterns of fuel accumulation, fire ecology, including the requirements of fire sensitive species and communities, harmful fire regimes and fire regimes compatible with ecosystem health. Where possible, the framework assigns each fuel type appropriate fuel accumulation and fire behaviour models and identifies the key weather attributes required to model fire behaviour. These models are used when setting indicators of acceptable bushfire risk, which are defined for different fuels according to the rates of fuel accumulation and the fire behaviour they may support.

- **Fire Management Areas:** Public lands within each BRMZ are further classified into four fire management areas (FMAs) characterised as Settlement-Hazard Separation, Critical Infrastructure Buffer, Landscape Risk Reduction and Remote Area Management. These FMAs are defined by the primary intent of fuel management, which is a function of potential fire behaviour and the type and distribution of assets characteristic of the area. The framework recognises six classes of assets that may be affected by bushfire: settlements, dispersed populations, critical infrastructure, protected species and communities, economic assets and other assets (non-critical infrastructure, ecological, cultural).
- The Settlement-Hazard Separation FMA provides an area proximal to settlements where fuels are managed relatively intensively to minimise the likelihood of a bushfire being sustained, damaging properties or endangering people. Here, fuel management to protect settlements takes precedence over other land management objectives, though other land management outcomes can be pursued to the extent that they do not conflict with the primary management intent.
- The extent of the area described by each FMA varies according to the fuel type and the BRMZ in which it occurs ... The breadth of the Settlement-Hazard Separation FMA is calculated to be sufficient to significantly reduce the likelihood of damage to assets from direct flame contact, radiant heat and ember attack and to provide adequate opportunity for fire suppression. This calculation is based on a combination of data derived from fire behaviour models and expert practitioner judgement. The Settlement-Hazard Separation FMAs are the largest in forest fuels that are prone to long-range spotting, severe ember storms and crown fire behaviour.
- **Indicators of Acceptable Bushfire Risk:** Are set for bushfire-prone fuel types in each FMA ... Indicators are expressed in terms of the proportion of the landscape that is managed such that the treated fuels will not support a head fire of an intensity that precludes effective suppression action under weather conditions corresponding to the 95th percentile fire danger index ... Weather conditions (air temperature, relative humidity, wind speed) corresponding to the 95th percentile FFDI are identified and used as inputs to fire behaviour models for calculating forward rate of spread and fire intensity (Table 1).
- The intent of fuel management is to reduce the quantity and alter the arrangement of fuels such that a bushfire is likely to spread more slowly, burn with lower intensity, be easier to suppress and cause less damage.
- **The indicators of acceptable risk for the Settlement-Hazard Separation FMA for open eucalypt forest and tall/open eucalypt forest is a target of 60% of fuel less than threshold intensity for a distance of 5km surrounding settlements.**

As an open eucalypt forest example at the Perth rural urban interface, the fuel age and load to achieve threshold fire intensity under weather conditions representing 95th percentile values of the FFDI for the Bickley location are stated as 5 years and 8 t/ha.

APPENDIX 7: BUSHFIRE ATTACK LEVELS AND BAL CONTOUR MAPS EXPLAINED

Bushfire attack levels are determined using the methodology established by AS 3959:2018 Construction of buildings in bushfire prone areas. The Standard defines a bushfire attack level (BAL) as a "means of measuring the severity of a building's exposure to ember attack, radiant heat and direct flame contact, using increments of radiant heat expressed in kW/m²."

Each BAL rating represents a set range of radiant heat flux (see table below). The amount of radiant heat and flame lengths generated by a bushfire is dependent on many factors that are modelled using the Standard's fire behaviour and flame length models. Key factors include vegetation type, terrain and a range of fire weather factors.

The variation that can exist in these factors results in different separation distances, away from bushfire prone vegetation, corresponding to a given BAL rating.

In assessing risk, knowing the separation distances away from each identified area of classified vegetation that correspond to a BAL rating, assists with evaluating threat levels from that bushfire hazard and the exposure levels of elements at risk.

Bushfire Attack Level	Explanation [Source AS3959:2018]
BAL – LOW	There is insufficient risk to warrant specific construction requirements but there is still some risk. <i>Important Note: For AS3959:2018 purposes, BAL-LOW will exist at 100m from classified vegetation (50m for Grassland).</i> <i>However, embers/firebrands from certain vegetation types can ignite spot fires ahead of the fire front for significant distances – short range spotting up to 740m, medium range spotting up to 5km and long range spotting has been authenticated up to 30km.</i>
BAL – 12.5	There is a risk of ember attack. Construction elements are expected to be exposed to heat flux not greater than 12.5 kW/m ²
BAL – 19	There is a risk of ember attack and burning debris ignited by windborne embers and a likelihood of exposure to radiant heat. The construction elements are expected to be exposed to a heat flux not greater than 19 kW/m ² .
BAL – 29	There is an increased risk of ember attack and burning debris ignited by windborne embers and a likelihood of exposure to an increased level radiant heat. The construction elements are expected to be exposed to a heat flux not greater than 29 kW/m ² .
BAL – 40	There is a much increased risk of ember attack and burning debris ignited by windborne embers, a likelihood of exposure to a high level of radiant heat and some likelihood of direct exposure to flames from the fire front. The construction elements are expected to be exposed to a heat flux not greater than 40kW/m ² .
BAL – FZ (Flame Zone)	There is an extremely high risk of ember attack and burning debris ignited by windborne embers, and a likelihood of exposure to an extreme level of radiant heat and direct exposure to flames from the fire front. The construction elements are expected to be exposed to a heat flux greater than 40 kW/m ² .

THE BAL CONTOUR MAP - ILLUSTRATING THE CALCULATED SEPARATION DISTANCES CORRESPONDING TO BAL RATINGS

The BAL contour map illustrates different coloured contour intervals extending out from each different area of classified bushfire prone vegetation. The minimum and maximum distances of each contour, from each area of vegetation, is a diagrammatic representation of the calculated separation distances that correspond to each BAL rating. These take into account the specific site conditions.

Each coloured contour represents a different bushfire attack level and anything within that contour will be subject to that BAL rating and its corresponding level of radiant heat.

ADDENDUM 1

1. ADDENDUM SUB-HEADING

GLOSSARY

APPLIED TERMINOLOGY	
Consequence	<p>The outcome of an event or situation expressed qualitatively or quantitatively, being a loss, injury, disadvantage or gain. In the emergency risk management context, consequences are generally described as the effects on persons, society, the environment and the economy. <i>(Source: DPLH 2019)</i></p> <p>An impact on the natural, economic, built or social environments as a result of the hazard. The consequences are influenced by the vulnerability of elements at risk, by the exposure of elements at risk to the hazard, and by the characteristics of the hazard. <i>(Source: PIA, 2015).</i></p> <p>The outcome of an event that affects objectives. Can be a range of consequences; can be certain or uncertain; can have positive or negative effects; can be expressed qualitatively or quantitatively; can escalate through knock-on effects. <i>(Source: ISO Guide 73:2009)</i></p>
Controls	<p>A measure that maintains and/or modifies risk. Controls include, but are not limited to, any process, policy, device, practice, or other conditions and/or actions which maintain and/or modify risk. <i>(Source: AIDR Knowledge Hub; Glossary)</i></p> <p>A control is any measure or action that modifies or regulates risk. Controls include any policy, procedure, practice, process, technology, technique, method, or device that modifies or regulates risk. Risk treatments become controls, or modify existing controls, once they are implemented. <i>(Source: Praxiom)</i></p> <p><i>Note: 'Protection Measures' and 'Risk Treatments' will be alternative terms used in this risk assessment report.</i></p>
Decision Maker	<p>The Minister for Planning, State Administrative Tribunal, Western Australian Planning Commission, Development Assessment Panel, any other State decision-making authorities, and/or the relevant local government and their delegates that make decisions regarding the application of this Policy. <i>(Source: SPP 3.7)</i></p> <p>For proposed development or use that is not subject to planning approval, the relevant decision makers are those tasked with the development and management of a development or use. Typically this might be an existing development/use for which an improved bushfire performance is being sought.</p>
Elements At Risk	<p>The population, buildings and civil engineering works economic activities, public services and infrastructure, etc. exposed to hazards. <i>(Australian Institute for Disaster Resilience, 2019)</i></p>
Exposure	<p>Refers to the people and things in the path of potential hazards. <i>(Source: AIDR LUPDRC, 2020)</i></p> <p>The elements within a given area that have been, or could be, subject to the impact of a particular hazard. Bushfire exposure can refer to property that may be endangered by a fire burning in another structure or by a bushfire. <i>(Source: AIDR Knowledge Hub; Glossary)</i></p> <p>The situation of people, infrastructure, housing, production capacities and other tangible human assets located in hazard prone areas. Measures of exposure can include the number of people or types of assets in an area. These can be combined with the specific vulnerability and capacity of the exposed elements to any particular hazard to estimate the quantitative risks associated with that hazard in the area of interest. <i>(Source: UNDRR, 2017)</i></p>

<p>Hazard</p>	<p>A process, phenomenon or human activity that may cause loss of life, injury or other health impacts, property damage, social and economic disruption or environmental degradation.</p> <p>Hazards may be natural, anthropogenic or socionatural in origin.</p> <ul style="list-style-type: none"> • Natural hazards are predominantly associated with natural processes and phenomena (note: disasters often follow natural hazards, but there is no such thing a natural disaster); • Anthropogenic hazards are human-induced – being induced entirely or predominantly by human activities and choices; • Socionatural hazards are associated with a combination of natural and anthropogenic factors, including environmental degradation and climate change. <p>Hazards may be single, sequential or combined in their origin and effects. Each hazard is characterized by its location, intensity or magnitude, frequency and probability.</p> <p><i>(Source: UNDRR Terminology 2017)</i></p> <p>A source of potential harm or a situation with a potential to cause loss. A potential or existing condition that may cause harm to people, or damage to property or the environment. A source of risk. <i>(Source: AIDR Knowledge Hub; Glossary)</i></p>
<p>Hazardous Event</p>	<p>The manifestation of a hazard in a particular place during a particular period of time.</p> <p>[Severe hazardous events can lead to a disaster as a result of the combination of hazard occurrence and other risk factors.]</p> <p><i>(Source: United Nations Office for Disaster Risk Reduction, 2017)</i></p>
<p>Hazard Identification</p>	<p>The process of recognising that a hazard exists and defining its characteristics. <i>(Australian Institute for Disaster Resilience, 2019)</i></p>
<p>Hazard - Bushfire</p>	<p>A fuel complex, defined by amount, type condition, arrangement, and location, that determines the degree of hazard. <i>(Source: AIDR Knowledge Hub; Glossary)</i></p> <p>The term 'bushfire hazard' in this assessment report is intended to refer to both bushfire prone vegetation and the associated potential bushfire event itself. The term 'bushfire' is being applied as the common term for forest, scrub, shrub, and grass fire events.</p>
<p>Hazard - Urban Fire</p>	<p>1. Susceptibility of a material to burn. 2. The presence of combustible materials. 3. A process or activity posing a fire risk if not adequately controlled. <i>(Source: AIDR Knowledge Hub; Glossary)</i></p>
<p>Hazardous Material</p>	<p>A substance or material which has been determined by an appropriate authority to be capable of posing an unreasonable risk to health, safety and property. <i>(Source: AIDR Knowledge Hub; Glossary)</i></p>
<p>Impact</p>	<p>Describes as a quantitative or qualitative measure, the relative potential ability of a threat to adversely affect an exposed element or of a protection measure to reduce threat, exposure or vulnerability levels and consequently, risk levels.</p>
<p>Likelihood</p>	<p>Chance of something happening. The likelihood level reflects the probability of both the emergency event and the estimated consequences occurring as a result of the event. <i>(Source: AIDR NERAG, 2020)</i></p> <p>In risk management terminology, the word 'likelihood' is used to refer to the chance of something happening, whether defined, measured or determined objectively or subjectively, qualitatively or quantitatively, and described using general terms or mathematically - such as a probability or a frequency over a given time period. <i>(Source: ISO Guide 73:2009)</i></p>

	<p>The chance of an event occurring. Likelihood may be represented as a statistical probability (such as Annual Exceedance Probability), or where this is not possible, it can be represented qualitatively using such measures as 'likely', 'possible', and 'rare'. (Source: PIA, 2015).</p>
Mitigation	<p>The lessening or minimizing of the adverse impacts of a hazardous event. The adverse impacts of hazards, in particular natural hazards, often cannot be prevented fully, but their scale or severity can be substantially lessened by various strategies and actions. Mitigation measures include engineering techniques and hazard-resistant construction as well as improved environmental and social policies and public awareness. (Source: UNDRR, 2017)</p>
Reliability	<p>Refers to the expected reliability of a designed solution (protection measure). Over time it will be a function of:</p> <ul style="list-style-type: none"> • Its Initial likely reliability; • Its durability which may or may not be a function of maintenance; • The level of maintenance required; • The likelihood of solution being modified over time; and • The influence of other adjoining/adjacent structures or stored materials that may be installed after the initial construction. <p>(Adapted from Kelly M. et al; <i>Structural Design Options for Residential Buildings in Bushfire Areas</i>, Australasian Structural Engineering Conference November 2016)</p>
Resilience	<p>The ability of a system, community or society exposed to hazards to resist, absorb, accommodate, adapt to, transform and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions through risk management. (United Nations Office for Disaster Risk Reduction, 2017)</p> <p>Is that property of a building, system, or community that facilitates its return to a functional state following an overload. In the context of bushfire damage, resilience will be maximised when:</p> <ul style="list-style-type: none"> • There is a high probability of an attacked building remaining fit for purpose; and • There is a low time and cost to make badly damaged buildings fit for purpose. <p>(Adapted from Kelly M. et al; <i>Structural Design Options for Residential Buildings in Bushfire Areas</i>, Australasian Structural Engineering Conference November 2016)</p>
Robustness	<p>Refers to that property of structural systems that seeks to achieve proportionality of damage to the severity of an overloading event. It will be maximised when bushfire design solutions:</p> <ul style="list-style-type: none"> • Have few 'weak links' that allow progressive spread of damage from minor sources; • Consist of materials and assemblies that retain physical properties when thermally loaded beyond their design capacity; and • Include protection of inherently vulnerable and brittle elements. Such as openings to internal parts of structures (including doors and windows) and essential services that maintain required functioning (e.g. cabling and plumbing). <p>(Adapted from Kelly M. et al; <i>Structural Design Options for Residential Buildings in Bushfire Areas</i>, Australasian Structural Engineering Conference November 2016)</p> <p>As a design principle it means that the design and materials are not easily damaged or compromised, and do not require manual operation or intervention to work (Source: State Government of Queensland, CSIRO, 2020)</p>

<p>Redundancy</p>	<p>Refers to design that ensures the fate of the subject building/structure is not reliant on the effective performance of a single element. (State Government of Queensland, CSIRO, 2020)</p> <p>An example is a roof system that does not rely solely on the roof cladding to resist bushfire threats. It has additional layers of resistance including non-combustible roof/ceiling framing, insulation and ceiling lining, and the sealing/screening of gaps into internal operating spaces.</p>
<p>Risk</p>	<p>Disaster risk is the potential loss of life, injury, or destroyed or damaged assets which could occur to a system, society or a community in a specific period of time, determined probabilistically as a function of hazard, exposure, vulnerability and capacity. (Source: UNDRR, 2017)</p> <p>Disaster risk is a product of a hazard (a sudden event or shock), exposure (the people and things in the path of potential hazards), vulnerability (the potential for those people and things to be adversely impacted by a hazard) and the capacity (the ability for those people and assets and systems to survive and adapt). (Source: ADR LUPDRC, 2020)</p> <p>Risk is the chance of something happening that will have an impact upon objectives. It is measured in terms of consequences and likelihood. In <u>emergency management</u> it is a concept used to describe the likelihood of harmful consequences arising from the interaction of hazards, communities and the environment. (Source: PIA, 2015)</p>
<p>Risk Management</p>	<p>Disaster risk management is the application of disaster risk reduction policies and strategies to prevent new disaster risk, reduce existing disaster risk and manage residual risk, contributing to the strengthening of resilience and reduction of disaster losses. (Source: UNDRR, 2017)</p> <p>Coordinated activities of an organisation or a government to direct and control risk. The risk management process includes the activities of:</p> <ul style="list-style-type: none"> • Communication and consultation; • Establishing the context; • Risk Assessment (risk identification, risk analysis, risk evaluation); • Risk Treatment; and • Monitoring and Review. (Source: ADR NERAG, 2020)
<p>Risk Identification</p>	<p>Process of finding, recognising and describing sources of risks, their causes and their potential consequences. (Source: ISO Guide 73:2009)</p> <p>It is a process used to find, recognise, and describe the risks that could affect the achievement of objectives. (Source: Praxiom)</p>
<p>Risk Source</p>	<p>An element which, alone or in combination, has the intrinsic potential to give rise to risk. (Source: ISO Guide 73:2009)</p>
<p>Risk Assessment</p>	<p>Disaster risk assessment is a qualitative or quantitative approach to determine the nature and extent of disaster risk by analysing potential hazards and evaluating existing conditions of exposure and vulnerability that together could harm people property, services and livelihoods and the environment on which they depend. Assessments include the identification of hazards; a review of the technical characteristics of hazards such as their location, intensity, frequency, and probability; the analysis of exposure and vulnerability, including the physical, social, health, environmental and economic dimensions; and the evaluation of the effectiveness of prevailing and alternative coping capacities with respect to likely risk scenarios. (Source: UNDRR, 2017)</p> <p>The overall process of risk identification, risk analysis and risk evaluation. (Source: ISO Guide 73:2009)</p>

<p>Risk Analysis</p>	<p>The process to comprehend the nature of risk and determine the level of risk. Provides the basis for risk evaluation and decisions about risk treatment. (Source: ISO Guide 73:2009)</p> <p>Is a process that is used to understand the nature, sources, and causes of the risks that you have identified and to estimate the level of risk. It is also used to study impacts and consequences and to examine the controls that currently exist. How detailed your risk analysis ought to be will depend upon the risk, the purpose of the analysis, the information you have, and the resources available. (Source: Praxiom)</p> <p>In this risk assessment report, risk analysis is the part of the risk assessment process that assesses the hazard threat levels, identifies the protection measures (and their effectiveness) that can be applied and derives the levels of exposure and vulnerability of the identified elements at risk, based on the ability to apply protection measures.</p> <p>From this information indicative risk levels can be derived. Where relevant sets of risk factor criteria and a risk level matrix have been established by the relevant authorities, a determined risk level can be derived.</p> <p>The required risk level analysis can be conducted for either each exposed element separately and/or the proposed or existing development/use overall.</p>
<p>Risk Evaluation</p>	<p>The process used to determine risk management priorities by evaluating and comparing the level of risk against predetermined standards, target risk levels or other criteria. (Source: PIA, 2015)</p> <p>In this risk assessment report, it is the process of classifying the acceptability of the levels of risk, derived from the risk analysis, by reference to an established risk tolerance scale. The relevant tolerance scale will be that derived from the application of the 'as low as reasonably practicable' principle – 'ALARP' (refer to Appendix 3 for further information).</p> <p>This process can only be conducted when <u>determined</u> risk levels have been derived.</p>
<p>Risk Factor Criteria</p>	<p>In this risk assessment report, the risk factor criteria establish the parameters that will define the different hazard threat levels, the different levels of exposure of elements at risk and the different levels of vulnerability of elements at risk. Different sets of risk factor criteria can exist corresponding to different development types, uses and scale. They are applied as part of the risk analysis.</p> <p>These criteria are established by the relevant authorities as they must reflect societies preparedness to tolerate risk and be determined by those authorities exercising their responsibilities.</p>
<p>Risk Level Matrix</p>	<p>In this risk assessment report, the risk level matrix establishes how the assessed levels of hazard threats, exposure and vulnerability are to be analysed in deriving a determined risk level. It is applied as part of the risk analysis.</p> <p>The matrix is established by the relevant authorities as they must reflect societies preparedness to tolerate risk and be determined by those authorities exercising their responsibilities.</p>
<p>Risk Tolerance Scale</p>	<p>In this risk assessment report the applied risk tolerance scale defines the acceptability of determined risk levels based on the 'as low as reasonably practical' principle (ALARP).</p> <p>The risk tolerance scale can be applied within the risk assessment report when the required risk factor criteria and risk level matrix are available.</p>
<p>Risk - Inherent</p>	<p>In this risk assessment report, inherent risk is considered to be current risk after accounting for existing and any 'planned' protection measures (controls / risk treatments) but before the application of any additional protection measures that have been identified and recommended by the bushfire consultant – and which subsequently determines the residual risk (this approach is supported by the relevant information sourced from the two references below).</p>

	<p>'Planned' protection measures are those that are incorporated into the site development plans and those that exist in an approved Bushfire Management Plan (BMP) and/or Bushfire Emergency Plan (BEP) and for which a responsibility for their implementation has been created.</p> <p>If a BMP or BEP is yet to be developed or is being developed concurrently, the additional protection measures it contains (including any that are part of relevant 'acceptable solutions' established by the 'Guidelines for planning in bushfire prone areas', DPLH as amended), are considered to be additionally recommended protection measures.</p> <p>1. Source: www.fairinstitute.org</p> <p><i>"Confusion exists between Inherent Risk and Residual Risk ... Here are the standard definitions of the two concepts:</i></p> <ul style="list-style-type: none"> • <i>Inherent risk represents the amount of risk that exists in the absence of controls.</i> • <i>Residual risk is the amount of risk that remains after controls are accounted for.</i> <p><i>Sounds straightforward. But these two terms seem to fall apart when put into practice. Applying the above definitions to the clients' scenario uncovered the fact that the 'inherent' risk being described was not a 'no controls' environment, but rather, one that only excluded some controls.</i></p> <p><i>The flaw with inherent risk is that in most cases, when used in practice, it does not explicitly consider which controls are being included or excluded. A truly inherent risk state, in our example, would assume no employee background checks or interviews are conducted and that no locks exist on any doors. This could lead to almost any risk scenario being evaluated as inherently high. Treating inherent risk therefore can be quite arbitrary. According to Jack Jones, author of Measuring and Managing Information Risk: A FAIR Approach and creator of the FAIR model, much more realistic and useful definitions would be:</i></p> <ul style="list-style-type: none"> • <i>Inherent risk is current risk level given the existing set of controls rather than the hypothetical notion of an absence of any controls; and</i> • <i>Residual risk would then be whatever risk level remain after additional controls are applied."</i> <p>2. Source: Wikipedia:</p> <p><i>Inherent risk, in risk management is:</i></p> <ul style="list-style-type: none"> • <i>an assessed level of raw or untreated risk; that is, the natural level of risk inherent in a process or activity without doing anything to reduce the likelihood or mitigate the severity of a mishap, or the amount of risk before the application of the risk reduction effects of controls; or</i> • <i>Another definition is that inherent risk is the current risk level given the existing set of controls, which may be incomplete or less than ideal, rather than an absence of any controls.</i>
<p>Risk - Residual</p>	<p>In this risk assessment report, residual risk is that which remains after the application of protection measures that are additional to those that already exist or are 'planned' and that establish the inherent risk (see Risk – Inherent in glossary)</p> <p>It is the disaster risk that remains in unmanaged form, even when effective disaster risk reduction measures are in place, and for which emergency response and recovery capacities must be maintained. The presence of residual risk implies a continuing need to develop and support effective capacities for emergency services, preparedness, response and recovery, together with socioeconomic policies such as safety nets and risk transfer mechanisms, as part of a holistic approach. (Source: UNDRR, 2017)</p> <p>It is the risk left over after you've implemented a risk treatment option. It's the risk remaining after you've reduced the risk, removed the source of the risk, modified the</p>

	<p>consequences, changed the probabilities, transferred the risk, or retained the risk. (Source: Praxiom)</p> <p>It is the risk remaining after any risk treatment has been applied to reduce its potential likelihood and/or its potential consequences. Residual risk can also be any risk that is chosen to be retained rather than treated (Source: AIDR LUPDRC, 2020)</p> <p>Residual risk can contain unidentified risk. Residual risk can also be known as retained risk. (Source: ISO Guide 73:2009)</p>
Risk Level - Determined	<p>Magnitude of a risk or a combination of risks. In this risk assessment report, as an outcome of the risk analysis, a determined risk level is derived from:</p> <ol style="list-style-type: none"> 1. The determination of threat, exposure and vulnerability levels by reference to an established set of risk factor criteria that corresponds to each risk level (for each factor); and 2. The determination of the risk level by reference to an established risk level matrix that incorporates threat, exposure and vulnerability levels.
Risk Level - Indicative	<p>Magnitude of a risk or a combination of risks. In this risk assessment report, as an outcome of the risk analysis, an indicative risk level is derived from analysis of the number of bushfire protection measures able to be implemented compared to the number of measures available, and the relative effectiveness of each at reducing threat, exposure and/or vulnerability levels.</p> <p>Overall, more applicable and applied measures is better and the measures with a higher effectiveness rating have greater weighting in the analysis.</p>
Risk - Acceptable	<p>Risks that do not need further treatment. The expression acceptable level of risk refers to the level at which it is decided that further restricting or otherwise altering the activity is not worthwhile e.g. additional effort will not result in significant reductions in risk levels. (Source: DPLH, 2019)</p> <p>That level of risk that is sufficiently low that society is comfortable with it. Society does not generally consider expenditure in further reducing such risks justifiable. (Source: AIDR Knowledge Hub)</p> <p>Acceptable risk or tolerable risk is an important sub-term (of disaster risk). The extent to which a disaster risk is deemed acceptable or tolerable depends on existing social, economic, political, cultural, technical and environmental conditions. (Source: UNDRR, 2017)</p> <p>Note: <i>It is generally accepted that nothing can be absolutely free of risk, everything under some circumstance can cause harm. There are differing levels of risk and consequently levels of safety. In practice, attaining zero risk is not possible. Nevertheless, after risk avoidance, reduction/mitigation, transfer or acceptance - the residual risk may be determined as acceptable, as judged by the participants in an activity and decision makers (who apply societies expectations). For certain land uses, the residual risk may exist at higher levels but still be judged by to be acceptable (or tolerable) on this basis.</i></p>
Risk - Tolerable	<p>The willingness to live with a risk to secure benefits and achieve objectives, on the understanding that it is being properly controlled. 'Tolerability' does not mean 'acceptability'. Tolerating a risk does not mean that it is regarded as negligible, or something we may ignore, but rather as something that needs to be kept under review and reduced further, if deemed necessary. (Source: DPLH, 2019)</p> <p>Certain levels of risk may be tolerated, provided that the risks are known and managed. (Source: AIDR LUPDRC, 2020)</p>

	<p>Risk tolerance is defined as the organisations or stakeholder's readiness to bear the risk, after risk treatment, in order to achieve its objectives. Risk tolerance can be influenced by legal or regulatory requirements. <i>(Source: ISO Guide 73:2009)</i></p> <p>A level of risk that defines the ALARP region, as risks that should be driven to the broadly acceptable region. <i>(Source: PIA, 2015)</i></p>
Risk - Intolerable	<p>A level of risk that is so high that require risk treatment measures whatever their cost, or the elimination of the risk. <i>(Source: PIA, 2015)</i></p> <p>Risk that is unacceptable in any circumstances or at any level. <i>(Source: DPLH, 2019)</i></p>
Risk Treatment	<p>Risk treatment options available as part of the risk management process are generally categorised as follows:</p> <ul style="list-style-type: none"> • Risk Avoidance: Measures taken to avoid risks from natural hazards. Can include avoiding development in hazardous areas, relocating people or assets away from hazardous areas, or developing buffer zones to the hazard; • Risk reduction/mitigation: Measures undertaken to reduce the risks from natural hazards. Includes building control and development controls; • Risk Transfer: Measures taken to transfer the risk from natural hazards from one party to another; and • Risk Acceptance: The acceptance of risk from a natural hazard. Any realised losses will be borne by those parties exposed to the hazard. This is not specifically a treatment option as no action is taken, but it is an option for addressing risk. <p><i>(Source: AIDR LUPDRC, 2020)</i></p>
Retrofitting	<p>Reinforcement or upgrading of existing structures to become more resistant and resilient to the damaging effects of hazards.</p> <p>Retrofitting requires consideration of the design and function of the structure, the stresses that the structure may be subject to from particular hazards or hazard scenarios and the practicality and costs of different retrofitting options. <i>(Source: UNDRR, 2017)</i></p>
Structural and Non-Structural Measures	<p>Structural measures are any physical construction to reduce or avoid possible impacts of hazards, or the application of engineering techniques or technology to achieve hazard resistance and resilience in structures or systems.</p> <p>Non-structural measures are measures not involving physical construction which use knowledge, practice or agreement to reduce disaster risks and impacts, in particular through policies and laws, public awareness raising, training and education.</p> <p>Common non-structural measures include building codes, land-use planning laws and their enforcement, research and assessment, information resources and public awareness programmes. <i>(Source: UNDRR, 2017)</i></p>
Threats	<p>The mechanisms by which hazards can impact exposed elements.</p>
Vulnerability	<p>The conditions determined by physical, social, economic and environmental factors or processes which increase the susceptibility of an individual, a community, assets or systems to the impacts of hazards. <i>(United Nations Office for Disaster Risk Reduction, 2017)</i></p> <p>The characteristic or property of a community, system or object that makes it susceptible to the damaging effects of a specific hazard.</p> <p>Can be defined according to the responses of people, houses and assets in mitigating the impacts of a hazard. Specifically, it refers to the extent to which a community, building, services or location is likely to be damaged or disrupted by the impacts of a hazard, such as a bushfire.</p>

	<p>Building vulnerability refers to weak points in a building caused by its design, construction, use of materials and management (including maintenance). These weak points are identified in the context that they are not able to withstand the level of hazard they are exposed to.</p> <p>Climate and weather may directly influence the buildings vulnerability through several processes including (i) moisture content of combustible elements around and within buildings (ii) gaps between materials that may shrink and expand due to changes in moisture content and temperature (iii) wind action causing damage or dislocation of elements. <i>(Source: State Government of Queensland, CSIRO, 2020; Bushfire Resilient Building Guidance for Queensland Homes)</i></p>
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Lot 5 Robartson Road, MERREDIN
Battery Energy Storage System (BESS)

Form 1 – Responsible Authority Report
 (Regulation 12)

DAP Name:	Regional Joint Development Assessment Panel (JDAP)	
Local Government Area:	Shire of Merredin	
Applicant:	Rebekah Hampson, Land Insights	
Owner:	Ross Milton Robartson	
Value of Development:	\$220 million <input checked="" type="checkbox"/> Mandatory (Regulation 5) <input type="checkbox"/> Opt In (Regulation 6)	
Responsible Authority:	Shire of Merredin	
Authorising Officer:	Chief Executive Officer	
LG Reference:	MDPA002(2024)	
DAP File No:	DAP/24/02631	
Application Received Date:	21 December 2023	
Report Due Date:	5 April 2024	
Application Statutory Process Timeframe:	90 Days	
Attachment(s):	Hyperlink information will be finalised following Council resolution. 1. DA application	
Is the Responsible Authority Recommendation the same as the Officer Recommendation?	<input checked="" type="checkbox"/> Yes	Complete Responsible Authority Recommendation section
	<input type="checkbox"/> N/A <input type="checkbox"/> No	Complete Responsible Authority and Officer Recommendation sections

RESPONSIBLE AUTHORITY RECOMMENDATION

That the Regional Joint Development Assessment Panel resolves to:

- A. **Accept** that the DAP Application reference DAP/24/02631 is appropriate for consideration as a “Use not listed” land use and compatible with the objectives of the zoning table in accordance with Clause 3.4.2 (b) of the Shire of Merredin Local Planning Scheme No. 6;
- B. **Approve** DAP Application reference DAP/24/02631 and accompanying plans (**attachment number**) in accordance with Clause 68 of Schedule 2 (Deemed Provisions) of the *Planning and Development (Local Planning Schemes) Regulations 2015*, and the provisions of Clause 3.4.2 (b) of the Shire of Merredin Local Planning Scheme No. 6, subject to the following conditions:

CONDITIONS

1. The submission and approval of a dedicated Construction Management Plan (CMP), including a transport impact assessment, details showing the proposed interim and longer-term facilities including building/structure setbacks, carparking facility, landscaping/ screening etc, to the satisfaction of the local government.
2. The removal of all construction infrastructure once the facility has been completed to the satisfaction of the local government.
3. The preparation and lodgement of a Drainage Management Plan (DMP) to contain all drainage on site to the satisfaction of the local government.
4. The design and location of on-site effluent systems for the construction phase as well as the longer term to be designed and located to the satisfaction of the local government.
5. Compliance with the Bushfire Management Plan (BMP) dated 14 December 2023 recommendations (including the Bushfire Risk Assessment & Management Report).
6. Any new crossover to Robartson Road shall be located and constructed to the satisfaction of the local government.

Advice Notes

- 1 If the development, the subject of this approval, is not substantially commenced within a period of 24 months from the date of the approval, the approval will lapse and be of no further effect. For the purposes of this condition, the term “substantially commenced” has the meaning given to it in the *Planning and Development (Local Planning Schemes) Regulations 2015* as amended from time to time.
- 2 If an applicant or owner is aggrieved by this determination, there is a right of review by the State Administrative Tribunal in accordance with the *Planning and Development Act 2005* Part 14. An application must be made within 28 days of the determination.
- 3 The applicant is advised that granting of development approval does not constitute a building permit and that an application for relevant building permits

must be submitted to the Shire of Merredin and be approved before any work requiring a building permit can commence on site.

REASONS FOR RESPONSIBLE AUTHORITY RECOMMENDATION

The proposed development is in accordance with the local government and State position of encouraging and supporting the development of renewable energy sources.

The Council's Scheme was amended to allow wind power renewable energy projects at a time when solar power was in its infancy. Solar projects were therefore not included in the said amendment.

A current omnibus amendment to allow solar and other renewable power infrastructure in the rural areas of the Scheme is supported by the local government.

DETAILS: OUTLINE OF DEVELOPMENT APPLICATION

Region Scheme	Not applicable
Region Scheme - Zone/Reserve	Not applicable
Local Planning Scheme	Shire of Merredin Local Planning Scheme No 6
Local Planning Scheme - Zone/Reserve	General farming
Structure Plan/Precinct Plan	Not applicable
Structure Plan/Precinct Plan - Land Use Designation	Not applicable
Use Class and permissibility:	Service utility - 'D' use in General farming zone
Lot Size:	61.5 hectares
Existing Land Use:	Rural
State Heritage Register	No
Local Heritage	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Heritage List <input type="checkbox"/> Heritage Area
Design Review	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Local Design Review Panel <input type="checkbox"/> State Design Review Panel <input type="checkbox"/> Other
Bushfire Prone Area	Yes – BMP prepared
Swan River Trust Area	No

PROPOSAL:

The proposed development will consist of the Battery Energy Storage System (BESS) facility comprised of battery packs, inverters, transformers and control systems. The development will include a high voltage substation and additional switch room(s)/control building(s), laydown areas, staff car parking, required firefighting equipment, internal roads and a perimeter fence.

Proposed Land Use	Battery energy storage system (BESS)
Proposed Net Lettable Area	Not applicable
Proposed No. Storeys	Not applicable
Proposed No. Dwellings	Nil

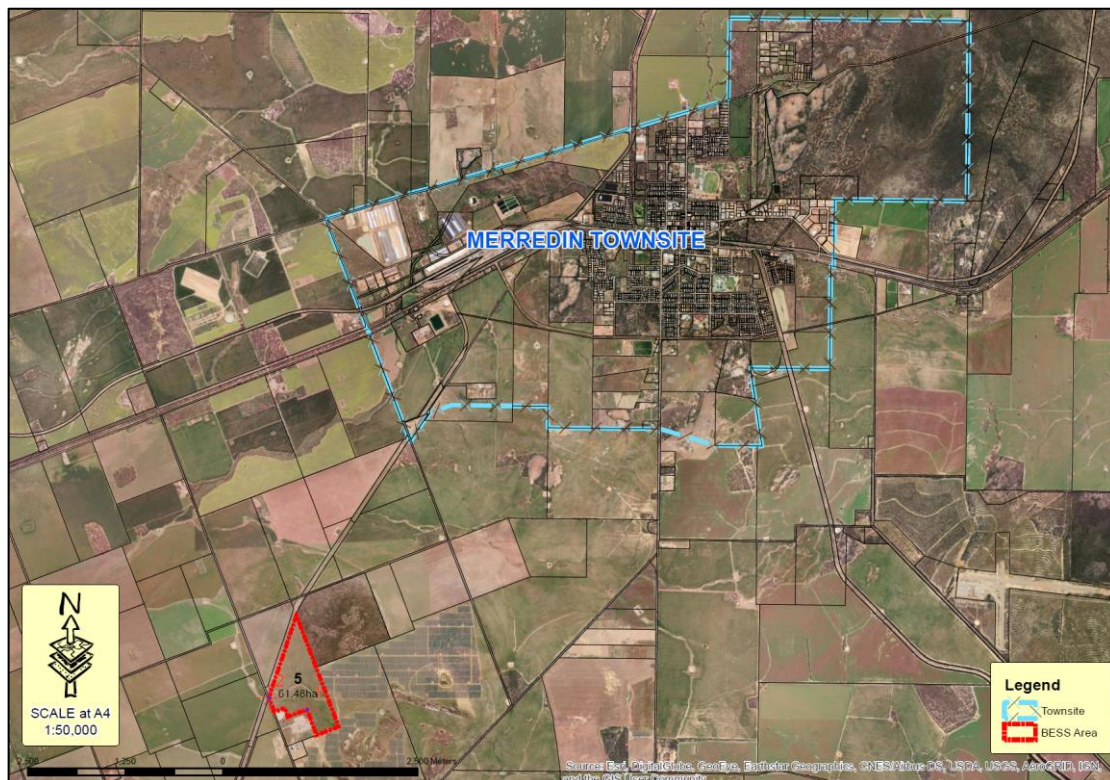
BACKGROUND:

The site is located approximately 7.5km south-west of the centre of the town of Merredin and comprises a land area of approximately 61.51ha. Only a small portion (approximately 4ha) of this lot, immediately adjacent to the Merredin Terminal sub-station, will be utilised for the development.

The subject site is an agricultural property, does not contain any areas of remnant vegetation and is currently used for cropping and sheep grazing purposes.

Figure 1 provides a location plan of the site.

FIGURE 1 - LOCATION PLAN



Source: Planwest, ESRI

The proposed development is costed at \$220m and consists of the Battery Energy Storage System (BESS) facility that is comprised of battery packs, inverters,

transformers and control systems, and the associated high voltage substation and additional switch room(s)/control building(s), laydown areas, staff car parking, firefighting equipment, internal roads and a perimeter fence. The BESS project will be connected to Western Power's transmission network at the adjacent Merredin Terminal.

The Shire of Merredin has become the renewable energy focus for the wheatbelt and Western Australia. It pioneered wind turbines and solar farms generating green energy to replace greenhouse gas emitting sources, and now the next iteration is in the storage and redistribution of this energy via battery energy storage systems (BESS).

Nomad Energy (the owner of the project) is an Australian company that has developed more than 500MW of renewable energy projects globally, including Western Australia's largest operational solar farm (Merredin Solar Farm).

Nomad Energy has partnered with Atmos Renewables on this project, that is one of the top 5 largest owner/operators of utility-scale renewable energy facilities in Australia and currently holds generation assets with a gross capacity in excess of 1.7GW. A core feature of the Nomad – Atmos partnership is the intent to develop, build, own and operate the assets they develop. This strategy demonstrates their long-term approach to the assets, the local communities in which they are situated and to the electricity market this project will ultimately support.

The partnership has offices in Perth, Melbourne and Sydney and has over 30 employees across Australia.

The proximity to Western Power's Merredin Terminal substation was a key consideration when selecting the site location and will result in relatively minor works being required to connect the proposed facility to the South West Interconnector System (SWIS). The BESS facility will be accessed off Robartson Road and will be securely fenced.

The land is surrounded predominantly by other agricultural properties to the north and west, Western Power's Merredin Terminal to the south and Merredin Solar Farm to the east/ southeast. The subject site is near other energy infrastructure assets being the Merredin Energy dual-fuel peaking plant and Merredin Solar Farm (the largest operating solar farm in Western Australia).

The site comprises one single freehold lot. An easement affects a portion of the lot, and there is one reserve (Merredin Nature Reserve) abutting the eastern boundary.

Surrounding land uses include energy infrastructure (Western Power's Merredin Terminal), energy generation facilities (Merredin Energy peaking plant and Merredin Solar Farm) as well as agricultural (cropping and grazing) land. The closest sensitive receptor is over 2km away from the site. To the south and west of the subject site sits the energy infrastructure assets mentioned previously, to the north east of the subject site at Lot 15490 is a Parks and Recreation reserve under the Shire of Merredin Local Planning Scheme No.6, known as Merredin Nature Reserve. The applicant considers that, given the nature of the facility it is unlikely that there will be any offsite impacts with the balance of the Lot being retained for rural/agricultural purposes.

This application and supporting planning report presents the merits and suitability of the Nomad Energy BESS facility for the location on a portion of Lot 5 Robartson Road, Merredin and located adjacent to the existing Merredin Terminal station.

This report and its appendices comprehensively demonstrate that the proposed development is consistent with the applicable planning framework and the proposed facility can be approved and is consistent with the objectives of the General Farming zone within the Shire.

The proposal warrants approval for the following reasons:

1. The subject site is cleared and relatively flat with no remnant vegetation contained on the subject site.
2. The proposed development will also not have any adverse impacts on surrounding land or vegetation once the facility is operational.
3. The proposed development will only occur on a small portion of agricultural land leaving the majority of the lot to continue to be used for rural purposes.
4. As outlined under the visual assessment and due to the location of the neighbouring existing Merredin Terminal, Merredin Energy peaking plant and Merredin Solar Farm, the proposed development will not have a detrimental effect on the visual landscape within the immediate surrounds.

LEGISLATION AND POLICY:

The current JDAP application for Development Approval (DA) is lodged in accordance with the *Planning and Development (Development Assessment Panel) Regulations 2011* (DAP regulations). These regulations are part of the *Planning and Development Act 2005* that operates in conjunction with the *Planning and Development (Local Planning Schemes) Regulations 2015* (that include the Deemed provisions).

Regulation 7 of the DAP regulations provides for the applicant to elect to have the DA determined by the JDAP.

Regulation 10 of the DAP regulations provides for the application form and sets out an application fee schedule.

State Government Policies

The WA Planning Commission has prepared a Position Statement on Renewable energy facilities. (Mar 2020). The policy identifies assessment measures to facilitate appropriate development of renewable energy facilities. It seeks to ensure these facilities are in areas that minimise potential impact upon the environment, natural landscape and urban areas while maximising energy production returns and operational efficiency.

The current proposal for a battery storage facility is not discussed in the position statement, presumably as it is considered as a component of a renewable energy facility.

Structure Plans/Activity Centre Plans

There are no Structure Plans or Activity Centre Plans associated, or affected by, this proposal.

LOCAL POLICIES

There are no local policies associated, or affected by, this proposal.

CONSULTATION:

Public Consultation

A notice was published in the West Australian newspaper on 3 February 2024 inviting submissions to the BESS proposal before 26 February 2024.

There were no submissions received other than those from the servicing agencies discussed below.

Referrals/consultation with Government/Service Agencies

In addition to the public invitation, several agencies were specifically contacted regarding the proposed development.

Four responses were received including, CASA (Civil Aviation Safety Authority), DPIRD (the Department of Primary Industries and Regional Development) and DBCA (Department of Biosecurity, Conservation and Attractions).

DFES (Department of Fire and Emergency Services) requested an extension to the submission period due to its extreme demand for emergency services during this period. The Shire granted this extension.

A subsequent email (dated 11 March 2024) from DFES indicates that it has not reviewed the BMP as it has not formally been referred to the Department. Referrals are only received by DFES where the development is affected by the Bushfire Prone mapping.

CASA and DBCA indicated that they had no issues with the proposed development, whilst DPIRD requested that a drainage management plan be prepared for the site.

Schedule A contains details of the submissions.

Issue Raised	Officer comments
Drainage	<p>DPIRD noted that the nearby Merredin Terminal substation effectively handles surface water by channelling excess water to a dam, while the drain/creek to the north manages surface water from the surrounding area.</p> <p>As a precautionary measure, DPIRD recommends managing surface water from this facility to mitigate water erosion and potential contaminant movement during heavy summer or winter rainfall.</p>

Although the owners, operators, Department of Water and Environmental Regulation (DWER), Western Power (WP) and the Environmental Protection Authority (EPA) were also notified, they have not responded.

Design Review Panel Advice

Not applicable.

Swan Valley Planning

Not applicable.

Other Advice

No other advice has been received.

PLANNING ASSESSMENT:

The proposed development has a relatively small footprint as it is only a component of a renewable energy facility. The WA Planning Commission's Position statement on renewable energy facilities generally deals with complete facilities from the energy generation to the feeding into the grid system.

The battery storage is positioned between these components and requires a relatively small area with minimal impacts.

The proximity to Western Power's Merredin Terminal substation was a key consideration when the site was selected and will result in relatively minor works being

required to connect the proposed facility to the South West Interconnector System (SWIS). The BESS facility will be accessed off Robartson Road and will be securely fenced.

The land is surrounded predominantly by other agricultural properties to the north and west, Western Power’s Merredin Terminal to the south and Merredin Solar Farm to the east/ southeast. The subject site is in close to other energy infrastructure assets being the Merredin Energy dual-fuel peaking plant and Merredin Solar Farm (the largest operating solar farm in Western Australia).

Figure 2 shows the site plan with Bushfire Prone mapping data (DFES), a 150m assessment area and the battery development extent area.

The potential impacts include;

- Visual
- Fire risk, and
- Loss of agricultural land or vegetation.

FIGURE 2 - EXTRACT FROM DA SITE PLAN



Source: LandInsights, Bushfire Prone Planning, DFES, Planwest

Visual

The closest sensitive receptor is over 2km away from the site. To the south and west of the subject site sits the energy infrastructure assets mentioned previously, to the north east of the subject site at Lot 15490 is a lot reserved for Parks and Recreation under the Shire of Merredin Local Planning Scheme No.6, known as Merredin Nature Reserve. The applicant considers that, given the nature of the facility, it is unlikely that

there will be any offsite impacts and the balance of the Lot will be retained for rural / agricultural purposes.

A **Visual Impact Landscape Assessment (VILA)** has been prepared as part of the DA.

The assessment concludes that the BESS, whilst visible as part of the scenery of the place would not be visible from all but two points. That view is described as part of the overall assembly of switchyard and dam and transmission lines.

In the circumstances therefore the visual impact of the battery is very limited overall and likely to be viewed as a changing part of the rural scene - including solar and wind farms. The VILA considered the merit of managing the surroundings of the BESS and/or its design, and suggests the potential to explore the following mitigations:

- Install the BESS on a low pad
- Select lighter and muted colours such as sage green, sky blue, white or beige
- Limited screen planting to the road reserve especially areas closest to the BESS although it is noted views are not strongly influenced.

Fire risk.

The DA is accompanied by a comprehensive Bushfire Management Plan (BMP) prepared by Bushfire Prone Planning. Although Lot 5 is affected by the Bushfire Prone mapping, the proposed development site is about 200m from the nearest mapped area (as per DFES data). Notwithstanding this distance, the BMP is deemed necessary as the proposed use class is considered a high-risk land use.

The BMP deals with risk issues that are better assessed by agencies specialising in these areas rather than from a planning perspective. During the advertising, the DA will be forwarded to FESA, amongst others, for comment.

The BMP looks at

- Assessment of potential bushfire impact,
- Environmental conservation,
- Assessment of the development's ability to acceptably mitigate bushfire risk through application of required and/or additional bushfire protection measures, and
- Creation of responsibilities to implement and maintain protection measures.

Loss of agricultural land or vegetation

As can be seen in **Figure 2**, the land is currently cleared and cropped, so no vegetation will need to be cleared. Due to the very small footprint of the facility the loss of land for agricultural purposes is minimal. The balance of the property not required for the batteries will continue to be used for agricultural purposes.

Other potential impacts

These include noise, dust, odour and waste. Some of these risks may occur during construction, however these will be managed through an accepted construction management plan. On completion of the construction, it is anticipated that these impacts will be negligible.

CONCLUSION

The proposed development of the BESS (Battery Energy Storage System) requires a very small footprint in the General Agricultural zone of the Shire of Merredin. In summary, the key considerations include;

- The State and local government's support for renewable energy projects,
- the proposal's visual impact on rural landscape,
- the risk of the development,
- the impact on the local vegetation, drainage and road system, and
- the minimal loss of agricultural land.

The local government has exercised its discretion by using the 'uses not listed' provisions of clause 3.4.2 (b) of the Scheme and subsequently advertising the proposed development.

This support for the BESS development is reinforced through the Council's backing to an Omnibus Amendment to the Scheme that seeks to list the use class and permit further renewable energy projects in the Scheme area.

Alternatives

There are no alternatives.

SCHEDULE A – SUBMISSIONS FROM ADVERTISING

SUB No	SUBMITTOR	SUMMARY OF SUBMISSION	COMMENT	RECOMM ENDATION
1 13/2/24	Civil Aviation Safety Authority (CASA)	CASA advises that the proposal will not present a hazard to aircraft operations.	As CASA has no objection to the proposal as presented and no aviation related conditions apply.	That the Council notes the submission.
2 26/2/24	Department of Biodiversity, Conservation and Attractions (DBCA)	DBCA advises that there are no known conservation values onsite.	DBCA recommends that the proponent needs to implement best management practises to avoid any direct/indirect offsite impacts (for eg ground water impacts) on the nearby Nature Reserve.	That the Council notes the submission and advise DBCA that it will require a DMS as a condition of development.
3 26/2/24	Department of Primary Industries and Regional Development (DPIRD)	DPIRD supports the proposal for the following reasons: <ul style="list-style-type: none"> • project is within a potential energy precinct, adjacent to existing energy facilities. • The footprint of the facility is small. • The site is cleared. DPIRD recommends managing surface water.	The Council has given notice that it will require the applicant to prepare a Drainage Management Strategy (DMS) to its satisfaction.	That the Council notes the submission and advise DPIRD that it will require a DMS as a condition of development.
4 11/3/24	Department of Fire and Emergency Services (DFES)	DFES has not reviewed the BMP as the development is not impacted by the Bushfire Prone mapping.	Development site is located more than 200m from the nearest Bushfire Prone area.	That the Council notes the submission.

Copies of these submissions are attached in Schedule B

SCHEDULE B – COPIES OF SUBMISSIONS

SUBMISSION 1 - CASA

OFFICIAL

Good morning Mr Zenni,

In response to your referral letter dated 1 February, regarding DAP/24/02631, Address of Proposal: Lot 5 Robartson Road, Merredin WA 6415, Proposal Type: Battery Energy Storage System (BESS), CASA advises that the proposal will not present a hazard to aircraft operations.

CASA has no objection to the proposal as presented and no aviation related conditions apply.

Regards

Matthew Windebank

Aerodrome Engineer | Airspace Protection

Air Navigation, Airspace & Aerodromes Branch

CASA Aviation Group

p: (02) 6217 1183

e: matthew.windebank@casa.gov.au



Australian Government
Civil Aviation Safety Authority



We've moved

Our Canberra office
has relocated to
18 Marcus Clarke Street



Meg Wyatt

From: David Jolliffe <david.jolliffe@dbca.wa.gov.au>
Sent: Monday, 26 February 2024 11:22 AM
To: Admin Officer; Lisa Clack
Subject: DBCA comments - Proposed Battery storage facility : Development Assessment Panel Application DAP/2402631
Attachments: CEO68-24.pdf; Proposed-Battery-Energy-Storage-System.pdf
Importance: High

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Dear Mr Peter Zenni,

Your attached correspondence A9722 dated 1 February 2024 refers.

A GIS desktop assessment using the Department of Biodiversity, Conservation & Attractions (DBCA) corporate data, has revealed that there are no known conservation values onsite at Lot 5, Robartson Road, Merredin (proposed site for the Battery Energy Storage System - BESS). The site appears to be a cleared paddock and devoid of remnant vegetation.

Please note that the DBCA-managed Class A Merredin Nature Reserve (A19476 & 90.75 ha in size) is located directly adjacent (eastern boundary) to the proposed BESS site. The proponent for the BESS will need to implement best management practises to avoid any direct / indirect offsite impacts (for eg ground water impacts) on the Nature Reserve.

The DBCA Environmental Management Branch in Perth is aware that there is considerable interest for renewable industry projects for the Wheatbelt region (amongst others). A working group from the Department of Jobs, Tourism, Science & the Environment are currently in the process of developing a Western Australian Handbook on Electricity generation and storage. This should be available soon for use by the public and current / potential developers.

Please contact me if you require any additional information / clarification.

Kind regards

David Jolliffe

Conservation Coordinator (Flora)

Parks & Wildlife Service : Wheatbelt Region

Department of Biodiversity, Conservation & Attractions

75 York Road Northam WA 6401

PO Box 1012 Northam WA 6401

Mobile 0427228947

Email: David.Jolliffe@dbca.wa.gov.au

Website: <http://www.dbca.wa.gov.au/>

SUBMISSION 3 - DPIRD

Department of
**Primary Industries and
Regional Development**

Your reference: DAP/24/02631
Our reference: LUP 1800
Enquiries: Greg Doncon

Leah Boehme
Acting Chief Executive Officer
Shire of Merredin
PO Box 42
Merredin WA 6415

Email: admin@merredin.wa.gov.au

Date: 26 February 2024

Dear Leah

Development Assessment Panel Application DAP/24/02631
Address of Proposal: Lot 5 Robartson Road, Merredin WA 6415
Proposal Type: Battery Energy Storage System (BESS)

Thank you for advertising the above proposal, which provides the Department of Primary Industries and Regional Development (DPIRD) the opportunity to provide comment.

DPIRD supports the proposal for the following reasons:

- This renewable energy project is being located within a potential energy precinct, supporting the adjacent to existing energy facilities.
- The footprint of the facility is small; approximately 4ha.
- The site is cleared, having been used for cropping and grazing purposes

The proposed site is located on the Tandegin / Booraan soil landscape subsystem. These are hillslopes predominantly containing hardsetting, grey to brownish sandy loam over clay soils.

These soils normally have a low to moderate risk of water and wind erosion. While the likelihood of soil disturbance, following construction, should be low, DPIRD is aware of sites where soils, which would normally be considered low risk of water erosion, have suffered serious erosion from constructed features (i.e. roads, pads) concentrating water flow.

An examination of aerial photography (Figure 3a: Site and Surrounds, p8) reveals that the nearby Merredin Terminal sub-station effectively handles surface water by channeling excess water to a dam, while the drain/creek to the north manages surface water from the surrounding area. As a precautionary measure, DPIRD recommends

444 Albany Highway Albany WA 6330
Telephone 08 9892 8444 landuse.planning@dpiird.wa.gov.au
dpiird.wa.gov.au

managing surface water from this facility to mitigate water erosion and potential contaminant movement during heavy summer or winter rainfall.

For more information, please contact Greg Doncon on (08) 908 13117 or greg.doncon@dpird.wa.gov.au

Yours sincerely

Handwritten signature of Timothy Overheu in black ink.

Mr Timothy Overheu
**Acting Director Agriculture Resource Management Assessment
Sustainability and Biosecurity**

SUBMISSION 4 - DFES

From: DFES Land Use Planning <advice@dfes.wa.gov.au>

Date: 11/3/24 12:26 pm (GMT+08:00)

To:

Subject: A9722 - DAP/24/02631 - Lot 5 Robartson Road, Merredin - Proposed Battery Energy Storage System - DFES Response

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DFES Ref: D33152

Shire Ref: DAP/24/02631

Dear Mr Zenni,

In relation to the above application, the following comments are provided.

DFES note that the application has been advertised only and has not been formally referred as the proposal does not include development within a bushfire prone area (with all development outside of the area classified as bushfire prone) and is therefore not subject to the application of SPP 3.7 and the associated Guidelines. This has been verbally confirmed by Mr Zenni from the Shire, on 8 February 2024.

DFES' Land Use Planning Branch has forwarded the proposal to other internal branches, however, currently has not received any comments provide to the Shire due to operational priorities during the high threat period. If any comments are received in the coming weeks they will be forwarded to the Shire as quickly as possible.

Please note that as the Shire has confirmed that this is not a formal referral, as the application of SPP 3.7 has not been triggered by the Shire, DFES has not undertaken a review of the BMP or additional documents from a Land Use Planning perspective.

Please contact me on 9395 9819 if you have any queries regarding the above.

Kind regards,

Michael Ball
Senior Land Use Planning Officer

20 Stockton Bend, Cockburn Central, Perth WA 6164

T: 08 9395 9819 | E: advice@dfes.wa.gov.au | W: dfes.wa.gov.au



FOR A SAFER STATE



Acknowledgement of Country: DFES acknowledges the Traditional Owners of Country throughout Australia, and their connections to land, sea and community. We pay our respects to Elders past and present.

[Reply](#)

[Forward](#)

SCHEDULE A – SUBMISSIONS FROM ADVERTISING

SUB No	SUBMITTER	SUMMARY OF SUBMISSION	COMMENT	RECOMMENDATION
1 13/2/24	Civil Aviation Safety Authority (CASA)	CASA advises that the proposal will not present a hazard to aircraft operations.	As CASA has no objection to the proposal as presented and no aviation related conditions apply.	That the Council notes the submission.
2 26/2/24	Department of Biodiversity, Conservation and Attractions (DBCA)	DBCA advises that there are no known conservation values onsite.	DBCA recommends that the proponent needs to implement best management practises to avoid any direct/indirect offsite impacts (for eg ground water impacts) on the nearby Nature Reserve.	That the Council notes the submission and advise DBCA that it will require a DMS as a condition of development.
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4 11/3/24	Department of Fire and Emergency Services (DFES)	DFES has not reviewed the BMP as the development is not impacted by the Bushfire Prone mapping.	Development site is located more than 200m from the nearest Bushfire Prone area.	That the Council notes the submission.

Copies of these submissions are attached in **Schedule B**

SCHEDULE B – COPIES OF SUBMISSIONS

SUBMISSION 1 - CASA

OFFICIAL

Good morning Mr Zenni,

In response to your referral letter dated 1 February, regarding DAP/24/02631, Address of Proposal: Lot 5 Robartson Road, Merredin WA 6415, Proposal Type: Battery Energy Storage System (BESS), CASA advises that the proposal will not present a hazard to aircraft operations.

CASA has no objection to the proposal as presented and no aviation related conditions apply.

Regards

Matthew Windebank

Aerodrome Engineer | Airspace Protection

Air Navigation, Airspace & Aerodromes Branch

CASA Aviation Group

p: (02) 6217 1183

e: [REDACTED]



Australian Government
Civil Aviation Safety Authority



We've moved

Our Canberra office
has relocated to
18 Marcus Clarke Street



Meg Wyatt

From: [REDACTED]
Sent: Monday, 26 February 2024 11:22 AM
To: Admin Officer; Lisa Clack
Subject: DBCA comments - Proposed Battery storage facility : Development Assessment Panel Application DAP/2402631
Attachments: CEO68-24.pdf; Proposed-Battery-Energy-Storage-System.pdf
Importance: High

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A GIS desktop assessment using the Department of Biodiversity, Conservation & Attractions (DBCA) corporate data, has revealed that there are no known conservation values onsite at Lot 5, Robartson Road, Merredin (proposed site for the Battery Energy Storage System - BESS). The site appears to be a cleared paddock and devoid of remnant vegetation.

Please note that the DBCA-managed Class A Merredin Nature Reserve (A19476 & 90.75 ha in size) is located directly adjacent (eastern boundary) to the proposed BESS site. The proponent for the BESS will need to implement best management practises to avoid any direct / indirect offsite impacts (for eg ground water impacts) on the Nature Reserve.

The DBCA Environmental Management Branch in Perth is aware that there is considerable interest for renewable industry projects for the Wheatbelt region (amongst others). A working group from the Department of Jobs, Tourism, Science & the Environment are currently in the process of developing a Western Australian Handbook on Electricity generation and storage. This should be available soon for use by the public and current / potential developers.

Please contact me if you require any additional information / clarification.

Kind regards

David Jolliffe

Conservation Coordinator (Flora)

Parks & Wildlife Service : Wheatbelt Region

Department of Biodiversity, Conservation & Attractions

75 York Road Northam WA 6401

PO Box 1012 Northam WA 6401

Website: <http://www.dbca.wa.gov.au/>



Department of
**Primary Industries and
Regional Development**

Your reference: DAP/24/02631
Our reference: LUP 1800
Enquiries: Greg Doncon

Leah Boehme
Acting Chief Executive Officer
Shire of Merredin
PO Box 42
Merredin WA 6415

Email: admin@merredin.wa.gov.au

Date: 26 February 2024

Dear Leah

Development Assessment Panel Application DAP/24/02631
Address of Proposal: Lot 5 Robartson Road, Merredin WA 6415
Proposal Type: Battery Energy Storage System (BESS)

Thank you for advertising the above proposal, which provides the Department of Primary Industries and Regional Development (DPIRD) the opportunity to provide comment.

DPIRD supports the proposal for the following reasons:

- This renewable energy project is being located within a potential energy precinct, supporting the adjacent to existing energy facilities.
- The footprint of the facility is small; approximately 4ha.
- The site is cleared, having been used for cropping and grazing purposes

The proposed site is located on the Tandegin / Booraan soil landscape subsystem. These are hillslopes predominantly containing hardsetting, grey to brownish sandy loam over clay soils.

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Telephone 08 9892 8444 landuse.planning@dpiird.wa.gov.au
dpiird.wa.gov.au

managing surface water from this facility to mitigate water erosion and potential contaminant movement during heavy summer or winter rainfall.

For more information, please contact Greg Doncon on (08) 908 13117 or

[REDACTED]

Yours sincerely

[REDACTED]

Mr Timothy Overheu
**Acting Director Agriculture Resource Management Assessment
Sustainability and Biosecurity**

SUBMISSION 4 - DFES

From: DFES Land Use Planning <advice@dfes.wa.gov.au>
Date: 11/3/24 12:26 pm (GMT+08:00)
To: Peter Zenni <emds@merredin.wa.gov.au>
Subject: A9722 - DAP/24/02631 - Lot 5 Robartson Road, Merredin - Proposed Battery Energy Storage System - DFES Response

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DFES Ref: D33152
Shire Ref: DAP/24/02631

Dear Mr Zenni,

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DFES note that the application has been advertised only and has not been formally referred as the proposal does not include development within a bushfire prone area (with all development outside of the area classified as bushfire prone) and is therefore not subject to the application of SPP 3.7 and the associated Guidelines. This has been verbally confirmed by Mr Zenni from the Shire, on 8 February 2024.

DFES' Land Use Planning Branch has forwarded the proposal to other internal branches, however, currently has not received any comments provide to the Shire due to operational priorities during the high threat period. If any comments are received in the coming weeks they will be forwarded to the Shire as quickly as possible.

Please note that as the Shire has confirmed that this is not a formal referral, as the application of SPP 3.7 has not been triggered by the Shire, DFES has not undertaken a review of the BMP or additional documents from a Land Use Planning perspective.

Please contact me on 9395 9819 if you have any queries regarding the above.

Kind regards,

Michael Ball
Senior Land Use Planning Officer

20 Stockton Bend, Cockburn Central, Perth WA 6164
T: 08 9395 9819 | E: advice@dfes.wa.gov.au | W: dfes.wa.gov.au



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Acknowledgement of Country: DFES acknowledges the Traditional Owners of Country throughout Australia, and their connections to land, sea and community. We pay our respects to Elders past and present.

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13. Officer's Reports – Engineering Services

13.1 Asset Management Plan – Road Hierarchy

<h2>Engineering Services</h2>		
Responsible Officer:	Amer Tawfik, EMES	
Author:	As above	
Legislation:	<i>Local Government Act 1995</i>	
File Reference:	Nil	
Disclosure of Interest:	Nil	
Attachments:	Attachment 13.1A – Merredin Interim Asset Management Plan	

Purpose of Report



Executive Decision



Legislative Requirement

The purpose of this report is for Council to:

- Adopt a road hierarchy for Shire of Merredin (the Shire) roads;
- Formalise the Shire Road Register and advertised it for public comments; and
- Adopt the proposed Interim Asset Management Plan in relation to roads, footpaths, and kerbs.

These will inform the Shire Financial Plan for the maintenance and capital renewal over the next 10 years.

Background

Council instructed the Shire Chief Executive Officer (CEO) to develop a management plan for its assets in order to provide financial stability, mitigate risks and provide a road map for long term sustainability. The document included as Attachment 13.1A, provides the details requested in addition to a proposed functional classification for Shire roads and footpaths.

Comment

Attachment 13.1A – Merredin Interim Asset Management Plan aims to provide a system to address several requirements in relation to managing shire roads, footpath, and kerbs. The following is a high-level summary of the main items covered in the attached plan.

Proposed Road Hierarchy

The aim of adopting a road hierarchy for Shire roads is to establish a roadway grouping which enables the State Government and the Shire to plan and implement various construction, maintenance, and management projects. The proposed Shire Road Hierarchy is listed below.

ID	Road Hierarchy	Role
Rural – Non-Built-Up Areas		
1	Regional Distributor	Provide Link between major roads and regions
2	Local Distributor	Provides a mixed function that includes traffic mobility and property access
3	Access Rd	Provide access to property and residence
4	Access Rd (Minor)	Provide access to one or two rural properties
Urban – Built-Up Areas (Local Towns)		
5	Local Distributor	Provides a mixed function that includes traffic mobility and property access
6	Access Rd	Provide access to property and residence
7	Laneway	Provide access to back of property

Based on the above proposed Shire Road Hierarchy, Attachment 13.1A, includes a proposed inspection and maintenance frequency.

Proposed Footpath Classification

The footpath surface includes three types, concrete, seal, and cobblestone. The footpath classification proposed includes the following two types:

- High use footpaths - located in the town centre on Barrack St and Bates St.
- Moderate use footpath representing all other footpaths in Merredin.

Shire Road Register

The existing register is scattered between finance, engineering and what was done historically. The aim is to adopt a formal asset register for roads managed by the Shire. In addition, Attachment 13.1A provide guidelines and the process to be followed when there is a need to add new roads to the Shire’s register.

Restricted Access Vehicle Network (RAV)

The majority of Shire roads are classified as RAV4, which has a maximum length of 27.5m and maximum load limit of 88.5 tonne. Some of the roads within the Shire are classified as RAV7, which allows for 36.5m maximum length and 108.5 tonne maximum load. There are demands on opening more of the Shire network to enable RAV7 access. Additional improvements are required to accommodate the upgrade, such as wider intersections to accommodate the swept path for a longer truck and additional strengthening required at kerbed intersection to provide lateral support preventing potential kerb rollover.

Road Cross Section

The Asset Management Plan includes recommended design cross sections to provide consistency and uniformity for Shire roads, especially in terms of providing sufficient table drains, lane and shoulder width required for the various road classifications.

Funding Sources

The Asset Management Plan lists the recurring funding sources the Shire receives for road maintenance and renewals, in addition to other grant funding available for road projects.

Asset Renewal Plan

The Asset Management Plan includes a forecast for expenditure on capital works projects over the next 10 years.

Policy Implications

Nil

Statutory Implications

As outlined in the *Local Government Act 1995* and *Local Government (Functions and General) Regulations 1996*.

Strategic Implications

∅ Strategic Community Plan

Theme:	4. Communication and Leadership
Service Area Objective:	4.2 Decision Making 4.2.2 The Shire is progressive while exercising responsible stewardship of its built, natural and financial resources
Priorities and Strategies for Change:	Nil
Theme:	5. Places and Spaces
Service Area Objective:	5.3.2 The Shire is continually improving its asset management practices
Priorities and Strategies for Change:	Nil

∅ Corporate Business Plan

Theme:	Nil
Priorities:	Nil
Objectives	Nil

Sustainability Implications

∅ Strategic Resource Plan

Nil

Risk Implications

Through adopting an Asset Management Plan, Council will reduce its risk as it will formalise processes in terms of asset inspection, routine maintenance and long-term renewal programs.

Financial Implications

The proposed Plan will mitigate the risk of assets not being able to deliver service, through maintaining Shire roads in good conditions through proactive maintenance and renewal programs.

The interim Asset Management Plan will aid Council's efforts to demonstrate compliance with regulation. Council will be in a better position to priorities long term sustainability, and it will promote public accountability.

Voting Requirements

Simple Majority

Absolute Majority

Resolution

Moved: Cr Simmonds

Seconded:

Cr Anderson

That Council:

1. **ADOPT the proposed road hierarchy listed in the table below;**

ID	Road Hierarchy	Role
Rural - Non Built-Up Areas		
1	Regional Distributor	Provide Link between major roads and regions
2	Local Distributor	Provides a mixed function that includes traffic mobility and property access
3	Access Rd	Provide access to property and residence
4	Access Rd (Minor)	Provide access to one or two rural properties
Urban - Built Up Areas (Local Towns)		
5	Local Distributor	Provides a mixed function that includes traffic mobility and property access
6	Access Rd	Provide access to property and residence
7	Laneway	Provide access to back of property

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2. **AUTHORISE the Chief Executive Officer to publish Shire Road Register for public comments, prior to formally adopting by Council.**
3. **ADOPT the proposed Merredin Interim Asset Management Plan.**

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil



Merredin Interim Asset Management Plan



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1 Introduction

The largest asset owned by the Shire of Merredin (SoM) is its roads network, inclusive of kerb and footpath, which is valued at more than \$250 million. One of the main responsibilities for Council is to develop a management plan for its assets in order to provide financial stability, mitigate risks and provide a road map for long term sustainability. Some of the advantages of developing asset management plans are:

- Insights into financial sustainability;
- Provide stakeholders with confidence
- Demonstrate compliance with regulations;
- Prioritise long-term sustainability;
- Mitigate the risk of assets not being able to deliver services;
- Support adaptation to changing circumstances;
- Promote public accountability;

1.1 Purpose

The purpose of this document is to establish a management system for Council, to inspect, maintain repair, and renewal programs for its public roads, based on policy and operational objectives having regard to available resources.

1.2 Scope

The scope of this document covers roads which are listed on SoM public road register. The plan applies to the following road infrastructure:

- Roads;
- Footpath;
- Kerb;

This document will be expanded in the future to cover other road associated assets such as culverts under rural roads and stormwater pipes and pits associated with urban road network.

1.3 Key Stakeholders

A summary of Key stakeholders within SoM is listed below:

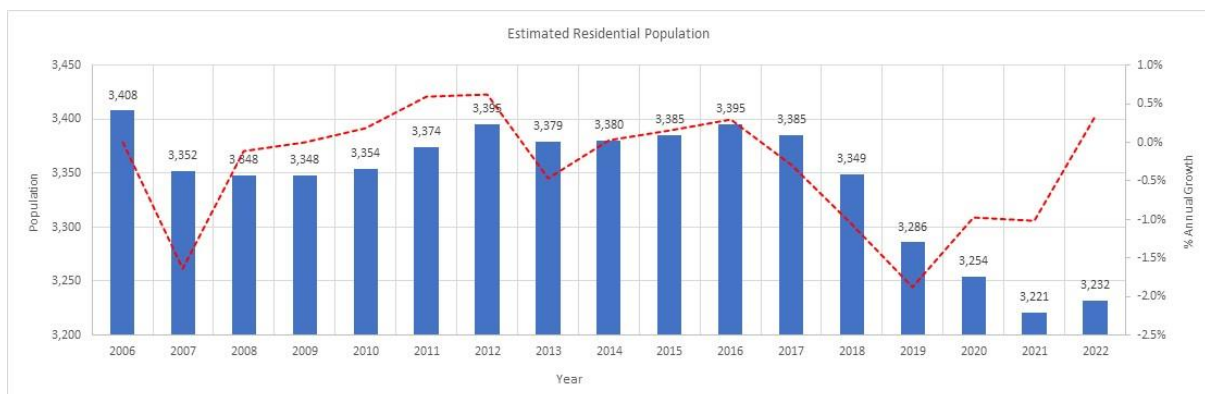
- Federal Government
- State Government

- Main Roads
- Department of Water and Environmental Regulation (DWER)
- Wheatbelt Secondary Freight Network (WSFN)
- Councillors (As representatives of the community);
- Shire residents, rate payers, agricultural sector, and businesses within Council boundaries.
- Road Users;
 - Pedestrians;
 - Other users such as cyclists, mobility scooters, wheel chairs, prams etc.
 - Drivers of cars, buses, commercial vehicles, and motor cycles.
- Tourists and visitors to the area.
- Utilities:
 - Western Power
 - Synergy
 - Telstra
 - Water Corporation
 - Other (Electric Vehicle Charging Stations)
- Private developers;
- Council's Employees;
- Special Interest Groups (e.g. Men's Shed, Merredin Show Committee);
- Contractors and Suppliers

1.4 Demand & Growth

A summary of the estimated residential population for Merredin is depicted below.

Figure 1: Merredin LGA Population & Annual Growth



The above chart shows that Merredin population peaked in 2006 at 3,408 which was followed by increase and decrease from year to year. Comparing 2021 and 2022 population shows annual growth of 0.34%, which is slightly lower than growth in Regional WA of 1.06%. Many factors contribute to this, such as increase urbanisation, automation especially in farming, and lack of housing supply.

Reviewing traffic data, indicates that traffic on the Great Eastern Highway is growing at 3% per annum, and traffic on Merredin – Narembeen Rd is growing at 4.8% per annum. This shows that despite fluctuation in shire population, mining and agricultural activities continue to drive positive traffic growth on road networks within the shire.

1.5 Related Documents

Documents related to this plan include:

- Main Roads - Regional Strategies for Significant Local Government - Roads 2040.
- Main Roads – Road Hierarchy for Western Australia.
- Main Roads - Standard Restricted Access Vehicle Route Assessment Guidelines.
- Main Roads - Guidelines and criteria for the identification of significant local government roads with Regional Importance.
- Walga – Policy Guideline for Assessing Applications to Operate Restricted Access Vehicles on Local Government Roads.

2 Road Functional Classification

Total length of roads included on SoM register at the time of writing this document is 1,308 km, with 410 km sealed, and 898 km unsealed.

SoM road network is mainly utilised for transporting agricultural products and equipment from/ to farms, in addition to haulage of mining ore on part of the network.

In addition to the SoM road network, there is 110 km of Main Roads network within Council's boundaries, namely Great Eastern HWY, Merredin – Nungarin Rd, and Bruce Rock – Merredin Rd.

2.1 Road Hierarchy

Road Hierarchy aims to reflect the preferred movement of vehicles throughout the network and gives guidance to road managers, road users and land developers as to Council's intended road network objectives. The design of a road's physical attributes such as width, pavement strength, surfacing and other design elements are determined by the classification within the road hierarchy. The adopted road hierarchy and classification for council roads is divided into two main groups, namely Urban located within local towns, and Rural located outside built up areas. A summary of the SoM Road Hierarchy is listed below.

Table 1: SoM Road Hierarchy

ID	Road Hierarchy	Role	Description
Rural - Non Built Up Areas			
1	Regional Distributor	Provide Link between major roads and regions	Roads that link significant destinations and are designed for efficient movement of people and goods within and beyond regional areas.
2	Local Distributor	Provides a mixed function that includes traffic mobility and property access	Connect to other Rural Distributors and to Rural Access Roads, and are designed for efficient movement of people and goods within regional areas
3	Access Rd	Provide access to property and residence	Provide access to abutting properties with amenity, safety and aesthetic aspects having priority over the vehicle movement function.
4	Access Rd (Minor)	Provide access to property and residence	Provide access to one or two rural properties
Urban - Built Up Areas (Local Towns)			
5	Local Distributor	Provides a mixed function that includes traffic mobility and property access	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
6	Access Rd	Provide access to property and residence	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
7	Laneway	Provide access to back of property	Laneway means a narrow local street type without a verge located along the rear and/or side property boundary, typically used in more dense residential areas when smaller lot layouts justify rear garaging, and where alternative vehicle access is needed for lots fronting busy streets or parks.



2.2 Road Network Length

A summary of the lengths for SoM road network using the above road Hierarchy is listed below.

Table 2: SoM Road Hierarchy Length

ID	Road Hierarchy	Sealed Roads – km	Unsealed Roads – km	Total – km
Rural Roads - (Non Built Up Areas)				
1	Regional Distributor	244	24	268
2	Local Distributor	106	89	195
3	Access Rd	10	663	673
4	Access Rd (Minor)	-	104	104
Total Length – Non Built Up Areas		361	880	1,240
Urban Roads (Built Up Areas)				
5	Local Distributor	16	4	20
6	Access Rd	34	6	40
7	Laneway	-	8	8
Total Length – Non Built Up Areas		50	19	68

The road hierarchy adopted by SoM followed Main Roads criteria for consistency, with two additional classification added to suit shire road network configuration, these are “Access Rd – Minor” for roads outside built up area and “Laneways” for built up area.

2.3 Footpath Network

The footpath network on Council’s asset register is mainly located in Merredin. The footpath surface includes three types, concrete, seal and cobblestone. The footpath classification is divided into two types, high use footpaths, these are located in town centre on Barrack St and Bates St, and moderate use footpath representing all other footpaths in Merredin. A summary of existing footpath network is listed below.

Table 3: SoM Footpath Classification

Footpath Classification	Cobblestone m	Concrete m	Seal m	Total Length m
High Use Footpath	767	1,026		1,793
Medium Use Footpath	669	15,133	14,238	30,040
Total Length - m	1,436	16,159	14,238	31,833



The condition of the existing footpath network varies and depends on the surface type. Most of the concrete footpaths are in reasonable status; however the majority if not all the sealed footpaths require repair and renewal works.

2.4 Street Kerbs

The combined kerb length on Council register is approximately 94 km. The majority of the street kerbs are within Merredin Township, with small quantities located in Muntadgin. The condition of this asset varies, some of the kerb is relatively new with excellent condition, while older kerb especially in the vicinity of trees are pushed out and warped, which will require replacement and renewal.

3 Shire Asset Register

SoM maintains a register of Public Roads within shire boundary. Council has determined that roads and footpaths on the Road Register are those that are considered to be reasonably required for general public use. The Road Register has been adopted by Council and is amended from time to time as required. The Road Register is available for inspection at Council Customer Service or Council website [Engineering / Works Services » Shire of Merredin](#).

3.1 Council's Road Register

SoM Road Register of Public Roads defines the roads for which Council is the responsible road authority. The register also identifies the functional road hierarchy for each road, which forms the basis for all operations and maintenance management activities. A list of roads on shire road register is included as **Appendix A**.

3.2 Criteria for Including Roads on Council's Road Register

From time to time, SoM will receive requests to include or add additional roads to the Council's road register or receive a request to maintain roads that are not currently on the Register.

All requests for the addition of road/s onto the public road register either received from residents or instigated by Council Officers are to be considered by Council. The process for considering such requests is as follows:

- Council Officers acknowledges the request if received by a resident and advises customer of next steps and timing;
- Council Officers investigate the request and develops a report for Council to consider the request and makes a decision at a Council meeting;
- The requestor is advised of the decision by Council; and amendments are made to the road register by Council Officer;

The following criteria will be used to assess whether any section of road is "reasonably required for general public use" and should therefore be included in Council's Road Register.

a) Mandatory Requirements

The road must be a public road, located on an approved Crown Land for road purposes;

b) Non-Mandatory Requirements

The road must satisfy at least seven of the following criteria:

-
- Provides primary access to at least one full-time occupied residence.
 - Is named and signed.
 - Has previously been constructed by and / or maintained by Council.
 - Provides clear benefit to several property owners (not just one).
 - Is required for fire access purposes.
 - Connects into and forms part of the wider network of public roads.
 - Is fenced on both sides.
 - Is required for vehicular use.
 - Is the only means of access to abutting property/properties.

3.3 Landowners Responsibilities - Driveway

Access to properties from Council roads is typically provided via a crossover or driveway. There are two types of crossovers, urban and rural. Council's responsibility and contribution is detailed below:

- Fringe Urban or Rural Residential Entrance
 - This crossover is applicable to access properties located on rural roads outside local towns or located within town boundary with an area that utilise open drain to discharge stormwater.
 - Where landowner require a new culvert crossover, Council will provide one crossover free of charge and where required, necessary pipework to protect the shire's road assets;
 - Should an additional crossover be required, Council will provide the labour to install the culvert where the landowner pays for the culvert.
- Residential Townsite Crossover
 - Council will provide one crossover per lot at 50% of the cost to rate payers.
 - Additional costs involved in wider or additional crossover (less the footpath portion) will be at the cost of the property owner.
 - Where Council undertake roadworks affecting existing crossovers, Council will bear the cost of reinstatement

The crossover construction shall comply with Walga Guideline and Specifications for Residential Crossovers ([WALGA-Crossover-Guidelines-rev1-1.pdf.aspx](#)).



4 Routine Maintenance & Renewal Program

As part of the management of Council’s road assets, officers undertake operational, routine maintenance and renewal activities which typically include the following:

Operational Activities:

- Asset Inspections;
- Administration;
- Linemarking;
- Vegetation control;
- Street sweeping.

Routine Maintenance Activities

- Pothole repairs;
- Surface defect repairs;
- Edge break repairs;
- Corrugation repairs;
- Guidepost replacement;
- Guardrail repairs and maintenance;
- Road shoulder maintenance;
- Sign repair and replacement;
- Maintenance grading (unsealed)
- Surface and shape restoration (unsealed);
- Footpath repairs and
- Emergency works.

Renewal Activities:

- Resealing of sealed pavements;
- Pavement Rehabilitation / Reconstruction of sealed pavements;
- Re-sheeting of unsealed pavements;
- Reconstruction of kerb;
- Reconstruction of footpaths.

4.1 Asset Inspections

Council’s roads and pathways inspections fall into the three broad categories listed below:

Table 4: Asset Inspection Types

Routine Inspections (Proactive)	These inspections are undertaken as outline in Table 5 of this document, to monitor asset conditions and report asset defects.
Reactive Inspections	Undertaken following notification to Council of defects and safety issues by a member of the public or could be initiated following a severe weather event.
Condition Inspections	Conducted to assess the condition and remaining useful life of the road and pathway network in order to prioritise infrastructure renewal works and report financial depreciation figures

The outcome from these inspections will result in the programming of maintenance work where defects are identified that exceed the stated intervention levels or to preserve the asset life. Condition



inspection will inform the need for asset renewals as part of Council’s long term asset management plan.

4.2 Inspection Frequency

Council’s inspections frequency by asset category and class is listed in the following table.

Table 5: Inspection Frequency

Asset Functional Class	Routine Inspection	Reactive Inspection	Condition Inspection
Regional Distributor	Once every 3 Months	Within 5 days	Once every 5 Years
Local Distributor	Once every 4 Months		
Access Rd	Once every 12 Months		
High Use Footpath	Once every 3 months	Within 48 hours	Once every 5 Years
Medium Use Footpath	Once every 12 months		

The inspection frequency above, is designed to provide higher number of inspections for roads with higher traffic movements, with a minimum inspection of once per year for all other road classes. This will ensure that Council’s roads are maintained to the approved level of service. Similar logic is applied to inspecting Council’s footpaths, with higher use footpaths to be inspected once every three months and medium use footpaths to be inspected once per year.

4.3 Maintenance Frequency

Maintenance frequency for Council’s sealed and unsealed road network is listed below.

Table 6: Maintenance Frequency

Functional Class	Shoulder Grading	Slashing & Weed Spraying	Culvert Clearing	Tree Pruning	Maintenance Grading
Sealed Roads	3 Years	Once per Year	3 Years	5 Years	
Unsealed Roads			3 Years	5 Years	Once per Year

The above schedule will be used as a guide with recommended works required to be based on observations from routine maintenance inspections.



4.4 Asset Renewal Frequency

Asset renewal frequency for Council's roads, footpath and kerb is listed below

Table 7: Renewal Frequency

Asset Description	Renewal Period
Road Resurfacing – Seal	15 Years
Road Resurfacing - Asphalt	25 Years
Resheeting Gravelled Road	20 Years
Footpath - Concrete	60 Years
Footpath - Seal	15 Years
Footpath - Cobblestone	50 Years
Kerb	50 Year

The above will be used as a guide with renewal programs to be developed based on asset condition inspections, and funding availability in consideration for other competing priorities.

5 Restricted Access Vehicle Network

A Restricted Access Vehicle (RAV) is a vehicle that exceed any of the following:

- A width of 2.5 m;
- A height of 4.3 m;
- A length of 19 m for a vehicle combination;
- A length of 12.5 m for a rigid vehicle;
- A gross mass of 42.5 tonnes;
- Any other mass or dimension limit prescribed in the Road Traffic (Vehicles) regulations 2014.

5.1 RAV Categories

Standard RAV categories have been grouped into four assessment levels, as follows:

Table 8: RAV Categories

Level	Network	Type of Truck	Maximum Length	Maximum Tonnage
1	RAV 2 – 4	Pocket Rd Train B-Double	27.5 m	88.5 Tonne
2	RAV 5 – 6	A-Double B-Triple	36.5 m	88.5 Tonne
3	RAV 7	AB-Triple BA-Triple	36.5 m	108.5 Tonne
4	RAV 9 - 10	A-Triple AB-Triple Double B-Double	53.5 m	148.5 Tonne

A total of 1,105 km of Council rural roads are classified as RAV 4, this provides access to trucks with maximum length of 27.5 m and maximum load of 88.5 Tonne.

Recently there has been a push to open Council rural network to allow for RAV 7, which will provide access to trucks with maximum length of 36.5 m and maximum load of 108.5 Tonne. Currently of Council 1,308 km network only 411 km are open to RAV 7.

The key difference between RAV 4 (27.5 m) and RAV 7 (36.5 m) network is the sufficient width required at intersections to accommodate the swept path for a longer truck. Specific attention is required when placing road furniture such as signs, kerb, guideposts to accommodate the required Turning path. Additional strengthening will be required to kerbed intersection by providing concrete infills for lateral support and to prevent kerb rollover.

The benefits from increasing RAV rating from 4 to 7, will be reduced number of movements, as operators will be able to cart an extra 20 Tonne with each trip, which will result in less damage to road pavement. However, this increased level of productivity may attract additional trips currently using alternative routes which will be additional burden on Council network.

5.2 RAV 7 Approved Routes

A list of RAV 7 Routes currently approved within the shire is listed below:

Table 9: Council's RAV 7 Approved Roads

Brissenden Rd	Hackling Rd
Bulls Head Rd	Hines Hill - Korbel Rd
Burracoppin - Campion Rd	Hines Hill Rd
Burracoppin S Rd	Hubeck Rd
Burracoppin Siding Rd	Insignia Wy
Chandler - Merredin Rd	Jarvis Rd
Connell Rd	Korbel E Rd
Crooks Rd	Korbel W Rd
Day Rd	Korbelka Rd
Downsborough Rd	Korbrelkulling Rd
Dunlop Rd	Mcgellin Rd
Dunwell Rd	Merredin - Narembeen Rd
Endersbee Rd	Muntadgin Rd
Flockart Rd	Nangeenan N Rd
Gabo Ave	Osborne Rd
Gamenya Ave	Robartson Rd
Goldfields Rd	White St
Mitchell St	Wogarl - Muntadgin Rd
Mackenzie Cres	

5.3 Future RAV 7 Road Upgrades

The existing RAV 7 network within the shire has gaps and disconnected routes which reduce efficiency. Two specific locations, Totadgin Hall Rd, and Dunwell Rd (Muntadgin) require future upgrades.

Totadgin Hall Rd has a RAV 4 rating within Shire boundaries, this changes to RAV 7 once crossing the boundary to Bruce Rock Shire, as the section within Merredin boundaries has marginal horizontal and vertical geometry. WSFN will not support upgrading this road, as it is located between two approved RAV 7 routes, these are Merredin – Narembeen Rd and Merredin – Bruce Rock Rd. Considering this road is included as part of “Roads 2040”, funding could be allocated towards improvements from Regional Road Group.

Dunwell Rd has a RAV 7 rating, however the geometry and the width available for turning manoeuvres from/ to the CBH facility at Muntadgin makes it difficult. Funding can be sourced to upgrade and seal this road through “Heavy Vehicle Safety Productivity Program” provided by Federal Government. Upgrading Dunwell Rd to 9 m sealed road, will improve safety and reduce noise and dust impacts on Muntadgin town residents.

6 Road Cross Sections

The existing cross sections on shire roads vary in width and lack consistency. This is typical for a local government road network that has been developed over many years. The existing configuration includes:

- 8 m wide sealed roads
- 7 m wide sealed roads
- 6 m wide sealed roads
- 4.5 m wide sealed roads

It should be noted that sealed roads less than 7 m wide seal, experience high level of edge breaks and require frequent shoulder grading. Sealed roads with 7 m wide seal can cater safely for the movement of two vehicles in opposite directions.

6.1 Future Road Widening

Merredin – Narembeen Rd and sections of Goldfields Rd are the only roads with 8 m wide seal. Other roads such as Chandler - Merredin Rd includes a mixture of 7 m wide seal and 6 m wide seal. Shire is making an effort to upgrade roads from 6 m wide seal to 7 m sealed surface, such as the work that was recently completed on Bulls Head Rd. Future works should be planned to undertake seal widening on the following road sections:

- Chandler – Merredin Rd
- Brissenden Rd
- Knungajin – Merredin Rd

6.2 Design Cross Sections

To provide consistency for shire network considering the variability in seal width and road configurations in terms of formation width, shoulders, and table drains, typical design cross sections are included as [Appendix B](#).

7 Funding Sources

The current funding sources available for the management of SoM road asset infrastructure includes:

Table 10: Annual Funding Sources - Roads & Footpath

Funding Name	Conditions	Estimated \$ per Year	Frequency
State - RRG (Regional Road Group RRG)	This grant can only be allocated to the roads listed in MR – Roads 2040 Strategy <ul style="list-style-type: none"> - Belka Rd - Brissenden Rd - Crossland St - Wogarl – Muntadgin Rd - Bulls Head Rd - Burracoppin – Campion Rd - Burracoppin South Rd - Chandler - Merredin Rd - Crooks Rd - Doodlakine – Bruce Rock Rd - Hackling Rd (Dulyalbin Rd) - Gabo Ave - Goldfields Rd - Booran N Rd - Hines Hill N Rd - Knungajin – Merredin Rd - Merredin – Narembreen Rd 	\$500,000	Annual Funding
State – Direct Grant	Untied Grant for Council to spend on its road infrastructure	\$239,000	Annual Funding
State + Feds - WSNF Wheat Belt Secondary Freight Network	Only to approved WSNF Routes <ul style="list-style-type: none"> - Merredin – Narembreen Rd - Burracoppin - Sidling Rd - Doodlakine – Bruce Rock Rd 	\$1,200,000	Annual Funding Two years remaining on this program 2024-25 and 2025-26
Federal – R2R Road to Recovery	This funding can be allocated to any road on Council's road register	\$675,000	Annual funding, based on ongoing program that operates on a five year period.
Federal – FAG Financial Assistance Program – Roads	Untied Grant for Council to spend on its road infrastructure	\$1,246,000	Annual Funding
Road Contribution Income Private Sector	Untied Grant for Council to spend on its road infrastructure	\$285,900	Annual Funding
Total		\$4,145,900	

In addition to the above recurring annual funding programs, the following is a list of other funding programs that Council can apply for by submitting grant application to be awarded based on merit assessment criteria.

- Federal Government
 - Bridge Renewal Program (BRB)
 - Heavy Vehicle Safety Productivity Program (HVSP)
- State Government
 - Main Roads
 - Blackspot program
 - Commodity Routes Funding
 - Regional Run-off Road Crashes program
 - Low Cost Urban Road Safety Program
 - Road Safety Innovations Spotlight



- Department of Transport (DoT) – Active Transport
 - Connecting Schools Grants
 - WA Bicycle Network Grants Program
 - WA Bike Month Grants
- Private developer funded works

7.1 Maintenance Budget Allocation

The road maintenance and capital works budget is funded from a combination of grants and Council’s own fund generated from rates and fees and charges. Grants such as R2R, FAG, RRG, WSNF are provided to Council every year at predetermined or agreed amount. A summary of a typical maintenance budget allocated by Council to roads and footpath is listed below.

Table 11: Annual Maintenance Budget Allocation – Roads & Footpath

Description	Annual Allocation - \$
Road Maintenance - Built Up Areas	\$335,000
Road Maintenance - Outside Built Up Areas - Sealed	\$122,000
Road Maintenance - Outside Built Up Areas - Gravelled	\$167,000
Road Maintenance - Outside Built Up Areas - Formed	\$430,000
Drainage Maintenance - Built Up Area	\$42,000
Total	\$1,096,000

The above allocation is based on the 2023-24 budget, minor adjustments and modifications will be applied to suit specific issues related to the particular financial year.

--

7.2 Asset Renewal Plan

Based on condition assessment, and data available on age for existing surface, estimated renewal financial plan for the next 10 years is listed below.

Table 12: Asset Renewal Roads & Footpath - 10 Year Financial Plan

Financial Year	Reseals Rural Roads	Reseals Urban Roads	Footpath Replacement	Kerb Replacement	Rural Roads Reconstruction	Total Annual Budget
2024-25	1,337,595	200,000	200,000	100,000	1,166,810	3,004,405
2025-26	867,000	200,000	200,000	100,000	1,534,140	2,901,140
2026-27	609,000	200,000	200,000	100,000		1,109,000
2027-28	781,000	200,000	200,000	100,000		1,281,000
2028-29	1,029,000	200,000	200,000	100,000		1,529,000
2029-30	736,000	200,000	200,000	100,000		1,236,000
2030-31	634,000	200,000	200,000	100,000		1,134,000
2031-32	1,074,000	200,000	200,000	100,000		1,574,000
2032-33	815,000	200,000	200,000	100,000		1,315,000
2033-34	820,000	200,000	200,000	100,000		1,320,000
2034-35	740,000	200,000	200,000	100,000		1,240,000
Total Program Budget	9,442,595	2,200,000	2,200,000	1,100,000	2,700,950	17,643,545

The above renewal program will be translated to capital budget for the relevant financial year. For example the proposed reseal program details for 24-25 financial year is listed below.

Table 13: Proposed Reseal Program – Rural Roads 2024 – 25

Rd_ID	Rd_Name	Length km	Width m	SLK_Start	SLK_End	Reseal_Y
R004	Brissenden Rd	10.2	6	0	10.2	2024-25
R002	Hines Hill Rd	1.4	6	0	1.4	2024-25
R007	Korbrelkulling Rd	2.4	6	0	2.4	2024-25
R007	Korbrelkulling Rd	1.9	6	2.4	4.3	2024-25

Implementing the above plan will be subject to funding availability and balancing competing priorities.

Appendix A – Council Road Register

Regional Distributor - Rural		
Road Name	Road ID	Length - km
Brissenden Rd	R004	19.0
Bulls Head Rd	R003	25.4
Burracoppin S Rd	R015	49.2
Burracoppin Siding Rd	R215	2.5
Chandler - Merredin Rd	R001	40.1
Crooks Rd	R072	1.5
Doodlakine - Bruce Rock Rd	R238	8.5
Dunwell Rd	R092	1.3
Goldfields Rd	R090	43.6
Hackling Rd	R052	10.4
Hines Hill N Rd	R009	23.1
Hines Hill Rd	R002	19.9
Knungajin - Merredin Rd	R008	14.2
Merredin - Narembeen Rd	R239	36.4
Robertson Rd	R056	8.7
Wogarl - Muntadgin Rd	R043	2.4

Local Distributor - Rural		
Road Name	Road ID	Length - km
Abattoir Rd	R225	1.7
Baandee S Rd	R016	9.7
Barr Rd	R047	6.9
Burracoppin - Champion Rd	R005	32.2
Gabo Ave	R102	1.7
Gamenya Ave	R213	2.3
Hines Hill - Korbel Rd	R021	17.1
Korbel W Rd	R010	5.1
Korbelka Rd	R063	6.6
Korbrelkulling Rd	R007	17.5
Nangeenan N Rd	R006	22.7
Nokaning E Rd	R029	10.1
Nokaning W Rd	R012	8.3
Nukarni E Rd	R013	15.2
Nukarni W Rd	R014	8.5
Totadgin Hall Rd	R011	19.7

--

Local Access - Rural					
Road Name	Road ID	Length - km	Road Name	Road ID	Length - km
Adamson Rd	R243	2.0	Hardman Rd	R038	8.9
Allsop Rd	R110	4.7	Hart Rd	R051	10.2
Armstrong Rd	R069	3.3	Hearles Rd	R227	2.5
Arnold Rd	R075	13.4	Hendrick Rd	R083	19.0
Bassula Rd	R091	8.9	Hooper Rd	R020	22.0
Belka East Rd	R089	1.7	Hubeck Rd	R035	13.7
Bennett Rd	R106	4.9	Insignia Wy	R104	0.9
Bick Rd	R045	7.6	Johnston Rd	R057	2.5
Bignell Rd	R101	4.7	Koonadgin Rd	R044	12.9
Booran S Rd	R033	12.2	Koonadgin S Rd	R116	3.5
Briant Rd	R060	14.6	Korbel E Rd	R036	13.2
Burke Rd	R081	10.6	Last Rd	R050	5.5
Burracoppin N-W Rd	R048	13.9	Liebeck Rd	R098	9.6
Clarke Rd	R123	5.1	Main St	R256	0.6
Collgar S Rd	R034	9.2	Mcgellin Rd	R049	6.7
Collgar W Rd	R068	6.6	Muntadgin - Tandegin Rd	R028	9.1
Combes Dr	R234	0.4	Muntadgin Rd	R018	17.3
Connell Rd	R054	5.1	Neening Rd	R022	22.7
Coupar Rd	R065	3.5	Norpa Siding Rd	R093	3.1
Crees Rd	R066	3.7	Nukarni Bin Rd	R259	0.3
Currie Rd	R046	5.0	Ogden Rd	R067	3.0
Davies Rd	R235	11.3	Old Muntadgin Rd	R024	22.6
Day Rd	R100	3.2	Old Nukarni Rd	R080	6.4
Depot Dam Rd	R061	14.9	Pitt Rd	R023	4.8
Dobson Rd	R103	3.5	Potter Rd	R132	2.5
Downsborough Rd	R032	9.5	Pustkuchen Rd	R030	10.8
Dunlop Rd	R042	9.5	Roberts Rd	R079	3.5
Ellery Rd	R246	6.3	Scott Rd	R076	7.2
Endersbee Rd	R026	5.1	Smith Rd	R126	5.1
Fewster Rd	R017	3.2	Snell Rd	R088	4.2
Fisher E Rd	R105	2.9	Southcott Rd	R031	4.0
Fitzpatrick Rd	R087	4.1	Springwell Valley Rd	R027	16.7
Flockart Rd	R049	5.5	Talgomine Reserve Rd	R062	9.7
Fourteen Mile Gate Rd	R073	4.4	Tandegin E Rd	R040	14.6
Giles Rd	R128	2.9	Teasdale Rd	R055	7.4
Giraud Rd	R130	6.4	Ten Mile Gate Rd	R074	4.2
Goldfields Rd W	R090	2.9	Thyne Rd	R111	3.3
Goodier Rd	R025	12.9	Ulva Siding Rd	R096	3.1
Goomarin - Nukarni Rd	R019	18.7	White St	R027	1.1
Goomarin Rd	R037	11.4	Whittleton St	R257	0.4
Growden Rd	R058	13.8	Willis Rd	R059	7.8
			Woodward Rd	R082	8.8



Local Access (Minor) - Rural		
Road Name	Road ID	Length - km
Bailey Rd	R127	1.5
Barnes Rd	R085	4.2
Booran N Rd	R084	5.7
Brown Rd	R107	2.5
Cahill Rd	R086	5.4
Caughey Rd	R041	10.1
Clement Rd	R211	5.7
Coulahan Rd	R095	5.5
Crosthwaite Rd	R120	2.3
Della Rd	R209	3.7
Duffy Rd	R237	2.3
Fagans Folly Rd	R231	3.9
Gebert Rd	R275	1.1
Gigney Rd	R121	3.4
Hicks Rd	R124	1.5
Hodgkiss Rd	R122	5.1
Jarvis Rd	R118	1.5
Legge Rd	R099	2.2
Maughan Rd	R254	4.1
Mcpharlin Rd	R125	2.3
Newport Rd	R236	1.8
Osborne Rd	R053	5.0
Peel Rd	R077	7.6
Perkins Rd	R108	2.4
Pink Rd	R210	4.9
Pontifex Rd	R119	7.8
Rutter Rd	R129	2.4
Samphire Rd	R261	1.4
Spur Rd	R208	0.6
Tandegin W Rd	R039	7.0
Tuppen Rd	R115	2.2
Whistler Rd	R117	0.5



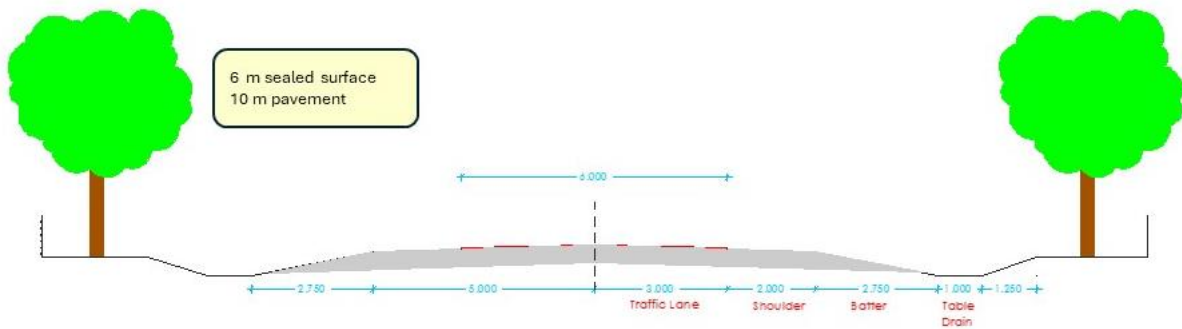
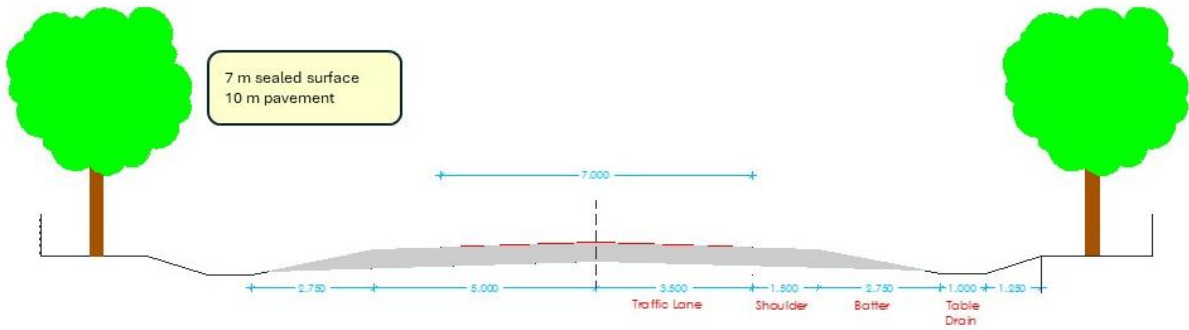
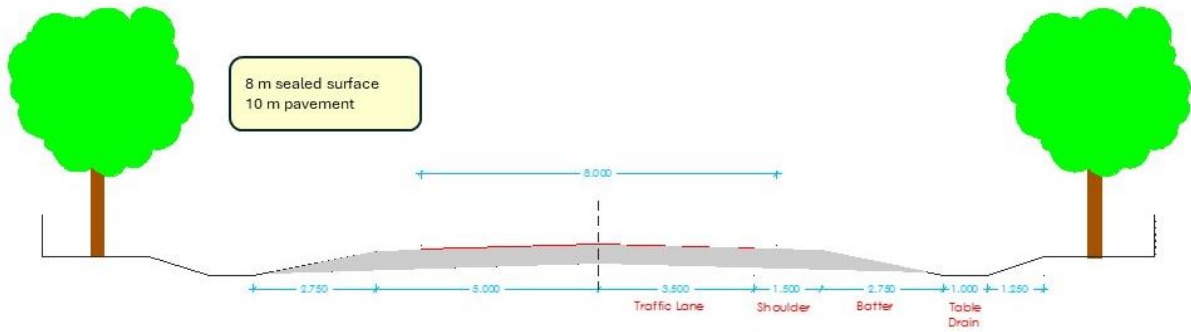
Local Distributor - Urban		
Road Name	Road ID	Length - km
Barrack St	R135	1.1
Bates St	R136	1.5
Caw Street	R148	1.2
Crossland St	R230	1.2
East Barrack St	R244	1.6
Endersbee St	R149	1.2
French Ave	R142	1.6
Golf Rd	R158	0.8
King St	R145	1.0
Kitchener Rd	R150	1.6
Mary St	R154	0.6
Mitchell St	R137	0.8
O'Connor St	R205	4.2
Pollock Ave	R147	1.1
Telfer Ave	R175	1.6
Woolgar Ave	R144	1.1

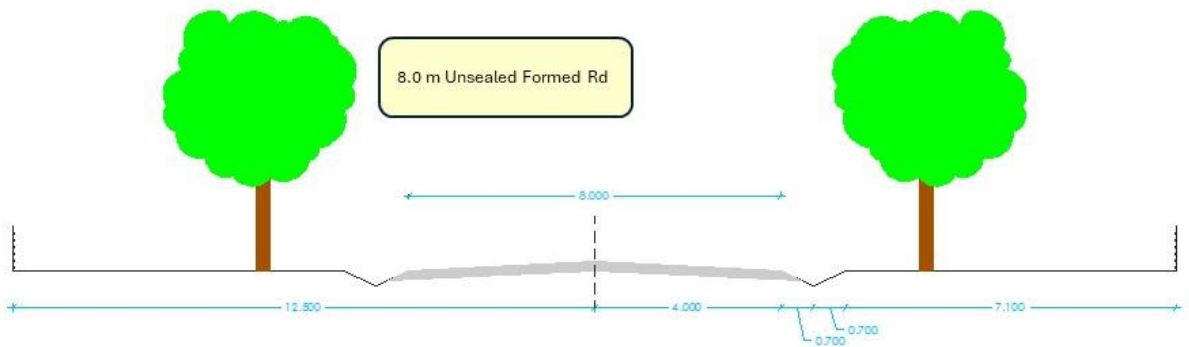
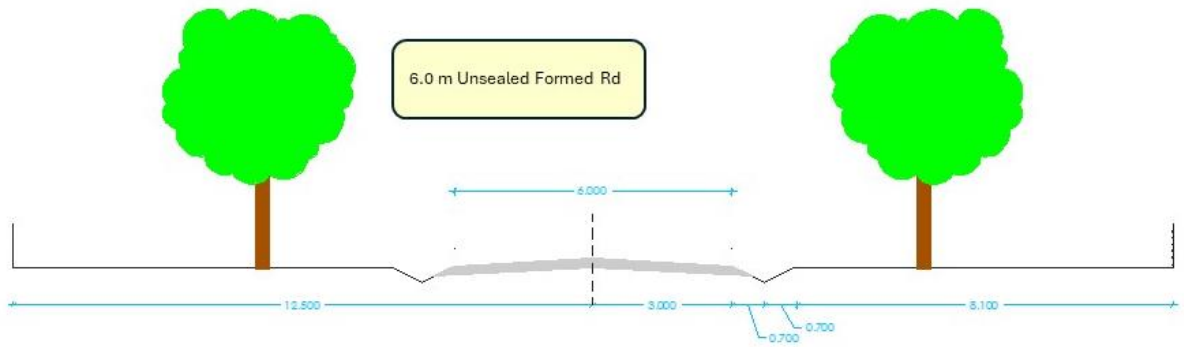


Local Access - Urban					
Road Name	Road ID	Length - km	Road Name	Road ID	Length - km
Acacia Way	R220	0.1	Hobbs Rd	R155	0.2
Alfred St	R174	0.3	Hughes Rd	R134	1.4
Allbeury St	R159	0.5	Hunter Ave	R165	0.5
Allenby St	R184	0.1	Jackson Way	R197	0.4
Aspland St	R180	0.2	Jellicoe Rd	R161	0.3
Barr St	R202	0.2	Jubilee St	R164	0.2
Barrack St Spur	R247	0.1	Junk Rd	R109	2.9
Benson Rd	R200	0.3	Kendall St	R168	0.5
Bower St	R179	0.2	Lefroy St	R185	0.6
Boyd St	R196	0.3	Lewis Wy	R224	0.1
Brewery Rd	R199	0.3	Limbourne St	R202	0.2
Byrne Ln	R292	0.2	Macdonald St	R190	0.7
Camm St	R242	0.1	Maiolo Way	R293	0.6
Caridi Cl	R276	0.1	Marley Cl	R284	0.5
Carrington Way	R253	0.3	McCallum St	R242	0.5
Cassia St	R219	0.1	McGinniss Way	R286	0.3
Chegwidden Ave	R278	0.7	Mckenzie Cr	R226	1.0
Coghill St	R291	0.1	Mill St	R166	0.3
Cohn St	R193	1.0	Morton St	R162	0.3
Colin St	R172	0.4	Muscat St	R181	0.4
Coronation St	R140	1.1	Nolan Wy	R228	0.1
Council St	R167	0.2	Oats St	R218	0.2
Cowan Way	R221	0.3	Parkes St	R133	0.6
Craddock Rd	R160	0.3	Pereira Dr	R182	0.1
Cummings Cr	R223	0.2	Pioneers Rd	R170	0.4
Cummings St	R176	0.6	Pool St	R187	0.2
Cunningham St	R152	1.1	Priestley St	R194	0.3
Dobson Ave	R113	0.3	Princess St	R198	0.5
Dolton Way	R222	0.1	Queen St	R139	0.4
Doyle St	R290	0.2	Rutter St	R285	0.1
Duff St	R141	1.6	Saleyards Rd	R183	0.4
Eaton Wy	R233	0.0	Second Ave	R240	0.2
Edwards St	R207	0.2	Smith St	R232	0.1
Ellis Rd	R186	0.1	Snell St	R169	0.9
Farrar Pde	R163	1.1	Solomon St	R192	0.3
Fifth Ave	R199	0.2	Station St	R282	0.3
Fifth St	R138	0.5	Stephens St	R173	0.3
George St	R146	0.3	Third Ave	R204	0.2
Gilmore Rd	R177	0.2	Throssell Rd	R153	1.0
Growden St	R151	0.5	Tip Rd	R300	0.3
Haig Rd	R157	0.7	Todd W St	R188	0.4
Haines St	R191	0.6	Tomlinson Rd	R178	0.2
Harling St	R203	0.3	Walsh St	R242	0.1
Hart St	R156	0.4	Warne St	R214	0.1
Hawker Wy	R229	0.1	Watson Rd	R201	0.2
Hay St	R171	0.4	Whitfield Way	R250	0.7
Hill St	R195	0.1	Yorrell Wy	R212	0.8
Hines Hill Siding Rd	R094	0.8			
Hines Hill Wheat Bin St	R097	1.3			



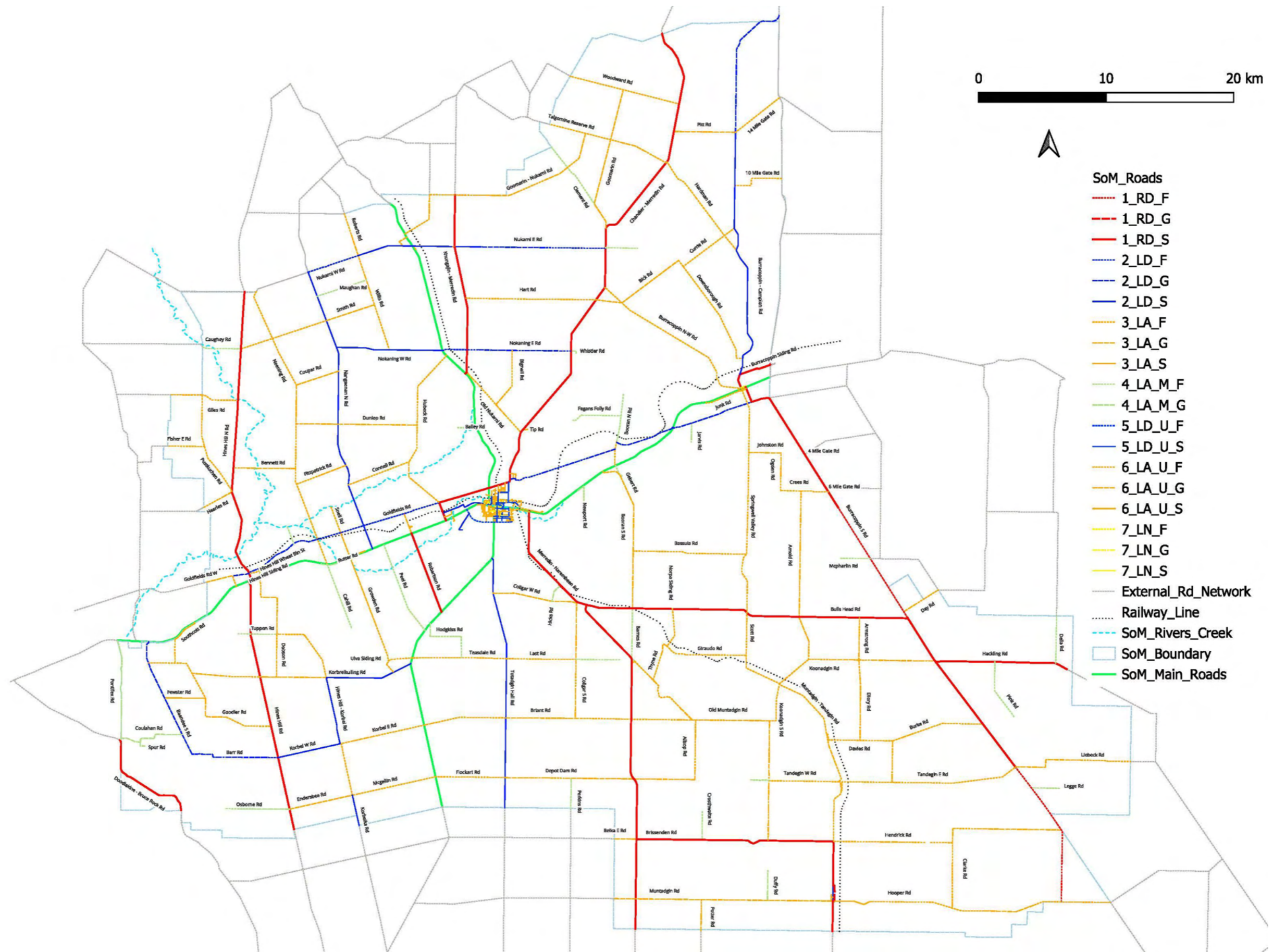
Appendix B - Road Cross Sections








Appendix C – Shire Road Map



14. Officer’s Reports – Corporate and Community Services

14.1 Statement of Financial Activity – February 2024

<h2>Corporate Services</h2> 	
Responsible Officer:	Leah Boehme, EMCS
Author:	As Above
Legislation:	<i>Local Government Act 1995</i> <i>Local Government (Financial Management) Regulations 1996</i>
File Reference:	Nil
Disclosure of Interest:	Nil
Attachments:	Attachment 14.1A – Statement of Financial Activity Attachment 14.1B – Detailed Statements Attachment 14.1C – Capital Works Progress Attachment 14.1D – Investment Report

Purpose of Report

Executive Decision

Legislative Requirement

For Council to receive the Statements of Financial Activity and Investment Report for the month of February 2024, and be advised of associated financial matters.

Background

The Statement of Financial Activity, Detailed Statements, Capital Works Progress and Investment Report are attached for Council’s information.

Comment

Statement of Financial Activity

Regulation 34 of the *Local Government (Financial Management) Regulations 1996* requires the Shire to prepare a monthly statement of financial activity for consideration by Council within 2 months after the end of the month of the report. These reports are included at Attachments 14.1A to D inclusive.

Policy Implications

Nil

Statutory Implications

As outlined in the *Local Government Act 1995* and the *Local Government (Financial Management) Regulations 1996*.

Strategic Implications

∅ Strategic Community Plan

Theme: 4. Communication and Leadership
Service Area Objective: 4.2.2 The Shire is progressive while exercising responsible stewardship of its built, natural and financial resources
Priorities and Strategies for Change: Nil

∅ Corporate Business Plan

Theme: 4. Communication and Leadership
Priorities: Nil
Objectives: 4.2 Decision Making

Sustainability Implications

∅ Strategic Resource Plan

Compliance with the *Local Government (Administration) Regulations 1996* and to also give Council some direction regarding its management of finance over an extended period of time.

Risk Implications

The Statement of Financial Activity is presented monthly and provides a retrospective picture of the activities at the Shire. Contained within the report is information pertaining to the financial cost and delivery of strategic initiatives and key projects.

To mitigate the risk of budget over-runs or non-delivery of projects, the Chief Executive Officer (CEO) has implemented internal control measures such as regular Council and management reporting and a quarterly process to monitor financial performance against budget estimates.

Materiality reporting thresholds have been established at 10% or \$10,000 whichever is greater, for operating and capital, to alert management prior to there being irreversible impacts.

It should also be noted that there is an inherent level of risk of misrepresentation of the financials through either human error or potential fraud.

The establishment of control measures through a series of efficient systems, policies and procedures, which fall under the responsibility of the CEO as laid out in the *Local Government (Financial Management Regulations) 1996* regulation 5, seek to mitigate the possibility of this occurring.

These controls are set in place to provide daily, weekly, and monthly checks to ensure that the integrity of the data provided is reasonably assured.

Financial Implications

The adoption on the Statements of Financial Activity is retrospective. Accordingly, the financial implications associated with adopting this are nil.

Voting Requirements

Simple Majority

Absolute Majority

Resolution

Moved: Cr Billing

Seconded:

Cr McKenzie

83357

That Council RECEIVE the Statements of Financial Activity and Investment Report for the period ending 29 February 2024 in accordance with Regulation 34 of the Local Government (Financial Management) Regulations 1996.

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil

SHIRE OF MERREDIN

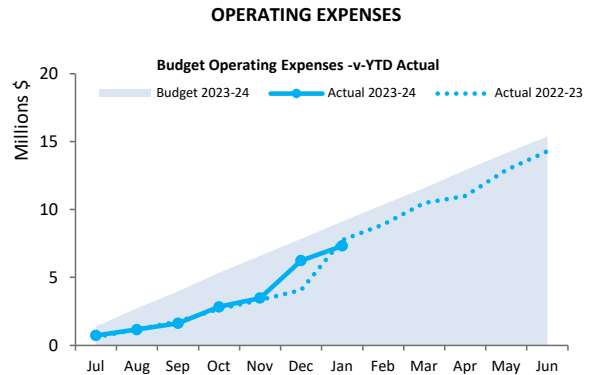
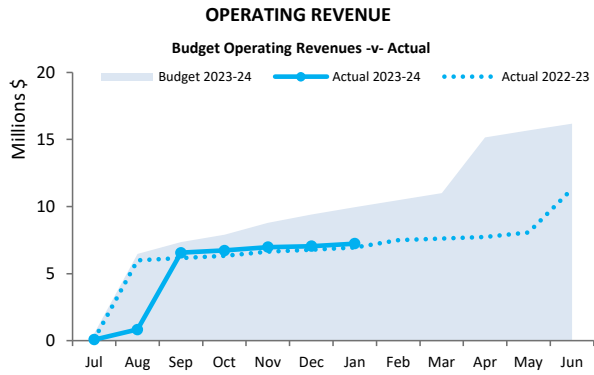
MONTHLY FINANCIAL REPORT (Containing the Statement of Financial Activity) For the period ending 29 February 2024

*LOCAL GOVERNMENT ACT 1995
LOCAL GOVERNMENT (FINANCIAL MANAGEMENT) REGULATIONS 1996*

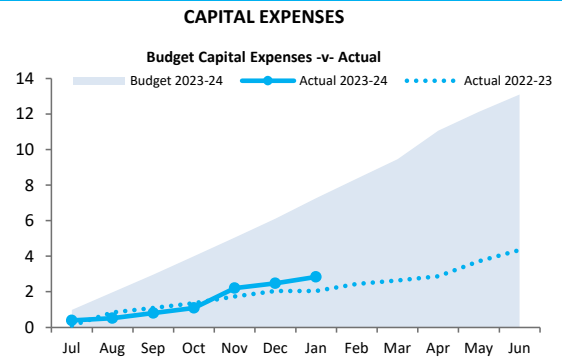
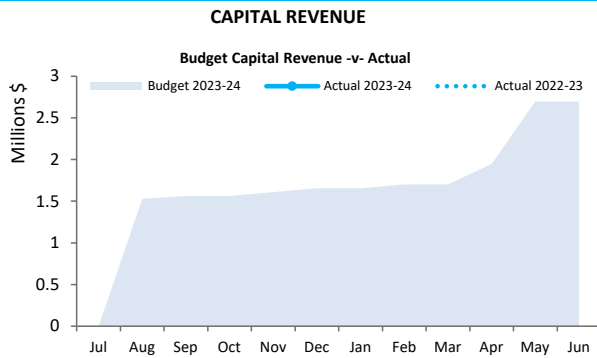
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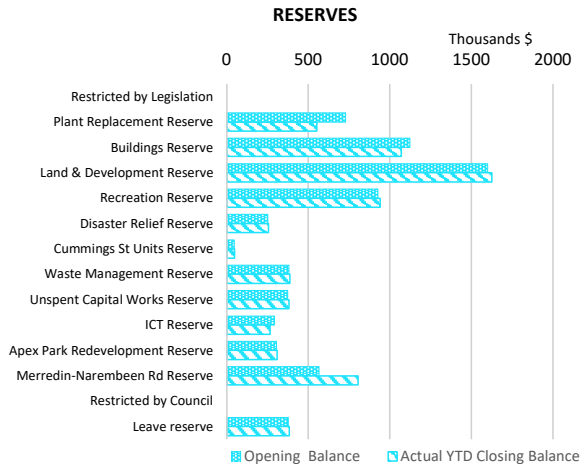
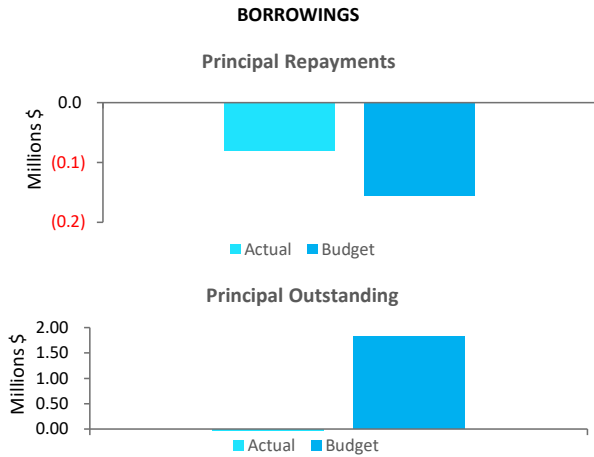
OPERATING ACTIVITIES



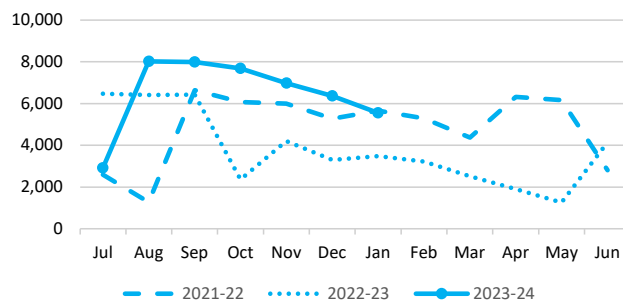
INVESTING ACTIVITIES



FINANCING ACTIVITIES



Closing funding surplus / (deficit)



This information is to be read in conjunction with the accompanying Financial Statements and Notes.

Funding surplus / (deficit) Components

Funding surplus / (deficit)				
	Adopted Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
Opening	\$3.93 M	\$3.93 M	\$3.93 M	\$0.00 M
Closing	\$0.01 M	\$1.58 M	\$7.08 M	\$5.50 M

Refer to Statement of Financial Activity

Cash and cash equivalents		
	\$14.42 M	% of total
Unrestricted Cash	\$7.39 M	51.3%
Restricted Cash	\$7.03 M	48.7%

Refer to Note 2 - Cash and Financial Assets

Payables		
	\$0.44 M	% Outstanding
Trade Payables	\$0.10 M	
0 to 30 Days		95.7%
Over 30 Days		4.2%
Over 90 Days		0%

Refer to Note 5 - Payables

Receivables		
	\$1.13 M	% Collected
Rates Receivable	\$1.09 M	81.9%
Trade Receivable	\$1.13 M	% Outstanding
Over 30 Days		93.4%
Over 90 Days		-62.7%

Refer to Note 3 - Receivables

Key Operating Activities

Amount attributable to operating activities			
Adopted Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
(\$2.20 M)	\$0.24 M	\$2.01 M	\$1.77 M

Refer to Statement of Financial Activity

Rates Revenue		
	\$5.30 M	% Variance
YTD Actual	\$5.30 M	
YTD Budget	\$5.25 M	1.0%

Refer to Statement of Financial Activity

Operating Grants and Contributions		
	\$0.82 M	% Variance
YTD Actual	\$0.82 M	
YTD Budget	\$0.66 M	25.1%

Refer to Note 11 - Operating Grants and Contributions

Fees and Charges		
	\$0.86 M	% Variance
YTD Actual	\$0.86 M	
YTD Budget	\$0.72 M	19.4%

Refer to Statement of Financial Activity

Key Investing Activities

Amount attributable to investing activities			
Adopted Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
(\$3.99 M)	(\$4.86 M)	(\$0.22 M)	\$4.65 M

Refer to Statement of Financial Activity

Proceeds on sale		
	\$0.00 M	%
YTD Actual	\$0.00 M	
Adopted Budget	\$0.21 M	(100.0%)

Refer to Note 6 - Disposal of Assets

Asset Acquisition		
	\$2.85 M	% Spent
YTD Actual	\$2.85 M	
Adopted Budget	\$16.33 M	(82.5%)

Refer to Note 7 - Capital Acquisitions

Capital Grants		
	\$2.62 M	% Received
YTD Actual	\$2.62 M	
Adopted Budget	\$12.10 M	(78.4%)

Refer to Note 7 - Capital Acquisitions

Key Financing Activities

Amount attributable to financing activities			
Adopted Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
\$2.27 M	\$2.27 M	\$1.35 M	(\$0.92 M)

Refer to Statement of Financial Activity

Borrowings	
Principal repayments	\$0.08 M
Interest expense	\$0.01 M
Principal due	(\$1.05 M)

Refer to Note 8 - Borrowings

Reserves	
Reserves balance	\$7.03 M
Interest earned	\$0.11 M

Refer to Note 9 - Cash Reserves

This information is to be read in conjunction with the accompanying Financial Statements and notes.

KEY TERMS AND DESCRIPTIONS FOR THE PERIOD ENDED 29 FEBRUARY 2024

NATURE OR TYPE DESCRIPTIONS

REVENUE

RATES

All rates levied under the *Local Government Act 1995*. Includes general, differential, specified area rates, minimum rates, interim rates, back rates, ex-gratia rates, less discounts and concessions offered. Excludes administration fees, interest on instalments, interest on arrears, service charges and sewerage rates.

OPERATING GRANTS, SUBSIDIES AND CONTRIBUTIONS

Refers to all amounts received as grants, subsidies and contributions that are not non-operating grants.

NON-OPERATING GRANTS, SUBSIDIES AND CONTRIBUTIONS

Amounts received specifically for the acquisition, construction of new or the upgrading of identifiable non financial assets paid to a local government, irrespective of whether these amounts are received as capital grants, subsidies, contributions or donations.

REVENUE FROM CONTRACTS WITH CUSTOMERS

Revenue from contracts with customers is recognised when the local government satisfies its performance obligations under the contract.

FEES AND CHARGES

Revenues (other than service charges) from the use of facilities and charges made for local government services, sewerage rates, rentals, hire charges, fee for service, photocopying charges, licences, sale of goods or information, fines, penalties and administration fees. Local governments may wish to disclose more detail such as rubbish collection fees, rental of property, fines and penalties, and other fees and charges.

SERVICE CHARGES

Service charges imposed under *Division 6 of Part 6 of the Local Government Act 1995*. *Regulation 54 of the Local Government (Financial Management) Regulations 1996* identifies these as television and radio broadcasting, underground electricity and neighbourhood surveillance services. Exclude rubbish removal charges.

INTEREST EARNINGS

Interest and other items of a similar nature received from bank and investment accounts, interest on rate instalments, interest on rate arrears and interest on debtors.

OTHER REVENUE / INCOME

Other revenue, which can not be classified under the above headings, includes dividends, discounts, rebates, reimbursements etc.

PROFIT ON ASSET DISPOSAL

Excess of assets received over the net book value for assets on their disposal.

EXPENSES

EMPLOYEE COSTS

All costs associated with the employment of person such as salaries, wages, allowances, benefits such as vehicle and housing, superannuation, employment expenses, removal expenses, relocation expenses, worker's compensation insurance, training costs, conferences, safety expenses, medical examinations, fringe benefit tax, etc.

MATERIALS AND CONTRACTS

All expenditures on materials, supplies and contracts not classified under other headings. These include supply of goods and materials, legal expenses, maintenance agreements, communication expenses, advertising expenses, membership, periodicals, publications, hire expenses, rental, postage and freight etc. Local governments may wish to disclose more detail such as contract services, consultancy, information technology, rental or lease expenditures.

UTILITIES (GAS, ELECTRICITY, WATER)

Expenditures made to the respective agencies for the provision of power, gas or water. Exclude expenditures incurred for the reinstatement of roadwork on behalf of these agencies.

INSURANCE

All insurance other than worker's compensation and health benefit insurance included as a cost of employment.

LOSS ON ASSET DISPOSAL

Shortfall between the value of assets received over the net book value for assets on their disposal.

DEPRECIATION ON NON-CURRENT ASSETS

Depreciation expense raised on all classes of assets. Excluding Land.

INTEREST EXPENSES

Interest and other costs of finance paid, including costs of finance for loan debentures, overdraft accommodation and refinancing expenses.

OTHER EXPENDITURE

Statutory fees, taxes, allowance for impairment of assets, member's fees or State taxes. Donations and subsidies made to community groups.

STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024

BY NATURE OR TYPE

	Ref	Current Budget	YTD Budget	YTD Actual	Forecast 29 June 2024 Closing	Variance \$	Variance % ((c) - (b))/(b)	Var.
	Note	(a)	(b)	(c)	(a)-(b)+(c)	(c) - (b)		
Opening funding surplus / (deficit)	1(c)	\$ 3,934,246	\$ 3,934,246	\$ 3,934,246	\$ 3,934,246	\$ 0	0.00%	
Revenue from operating activities								
Rates		5,298,000	5,245,020	5,298,034	5,351,014	53,014	1.01%	
Operating grants, subsidies and contributions	11	922,100	658,930	824,004	1,087,174	165,074	25.05%	▲
Fees and charges		843,950	720,236	859,773	983,487	139,537	19.37%	▲
Interest earnings		323,700	215,800	309,357	417,257	93,557	43.35%	▲
Other revenue		279,600	203,800	197,722	273,522	(6,078)	(2.98%)	
Profit on disposal of assets	6	113,800	75,864	0	37,936	(75,864)	(100.00%)	▼
		7,781,150	7,119,650	7,488,890	8,150,390	369,240	5.19%	
Expenditure from operating activities								
Employee costs		(4,963,260)	(3,442,319)	(2,913,679)	(4,434,620)	528,640	15.36%	▲
Materials and contracts		(3,717,590)	(2,508,436)	(1,846,813)	(3,055,967)	661,623	26.38%	▲
Utility charges		(520,350)	(356,317)	(292,523)	(456,556)	63,794	17.90%	▲
Depreciation on non-current assets		(5,876,500)	(3,917,696)	(3,436,150)	(5,394,954)	481,546	12.29%	▲
Interest expenses		(134,600)	(70,336)	(13,386)	(77,650)	56,950	80.97%	▲
Insurance expenses		(271,260)	(258,700)	(255,929)	(268,489)	2,771	1.07%	
Other expenditure		(262,200)	(166,978)	(153,683)	(248,905)	13,295	7.96%	
Loss on disposal of assets	6	(11,700)	(7,800)	0	(3,900)	7,800	100.00%	▼
		(15,757,460)	(10,728,582)	(8,912,163)	(13,941,041)	1,816,419	(16.93%)	
Non-cash amounts excluded from operating activities	1(a)	5,774,400	3,849,632	3,436,150	5,360,918	(413,482)	(10.74%)	▼
Amount attributable to operating activities		(2,201,910)	240,700	2,012,877	(429,733)	1,772,177	736.26%	
Investing activities								
Proceeds from non-operating grants, subsidies and contributions	12	12,096,098	5,084,118	2,618,554	9,630,534	(2,465,564)	(48.50%)	▼
Proceeds from disposal of assets	6	205,900	205,900	0	0	(205,900)	(100.00%)	▼
Proceeds from financial assets at amortised cost - self supporting loans	8	36,800	18,193	18,193	36,800	0	0.00%	
Payments for property, plant and equipment and infrastructure	7	(16,330,728)	(10,171,958)	(2,852,328)	(9,011,098)	7,319,630	71.96%	▲
Amount attributable to investing activities		(3,991,930)	(4,863,747)	(215,581)	656,236	4,648,166	(95.57%)	
Financing Activities								
Proceeds from new debentures	8	1,480,000	1,480,000	1,480,000	1,480,000	0	0.00%	
Transfer from reserves	9	1,339,200	1,339,200	290,300	290,300	(1,048,900)	(78.32%)	▼
Repayment of debentures	8	(154,900)	(154,900)	(80,820)	(80,820)	74,080	47.82%	▲
Transfer to reserves	9	(395,900)	(395,900)	(339,956)	(339,956)	55,944	14.13%	▲
Amount attributable to financing activities		2,268,400	2,268,400	1,349,524	1,349,524	(918,876)	(40.51%)	
Closing funding surplus / (deficit)	1(c)	8,806	1,579,599	7,081,066	5,510,273	5,501,467	(348.28%)	▲

KEY INFORMATION

▲ ▼ Indicates a variance between Year to Date (YTD) Budget and YTD Actual data as per the adopted materiality threshold.

Refer to Note 14 for an explanation of the reasons for the variance.

This statement is to be read in conjunction with the accompanying Financial Statements and Notes.

BASIS OF PREPARATION

The financial report has been prepared in accordance with Australian Accounting Standards (as they apply to local governments and not-for-profit entities) and interpretations of the Australian Accounting Standards Board, and the *Local Government Act 1995* and accompanying Regulations.

The *Local Government Act 1995* and accompanying Regulations take precedence over Australian Accounting Standards where they are inconsistent.

The *Local Government (Financial Management) Regulations 1996* specify that vested land is a right-of-use asset to be measured at cost, and is considered a zero cost concessionary lease. All right-of-use assets under zero cost concessionary leases are measured at zero cost rather than at fair value, except for vested improvements on concessionary land leases such as roads, buildings or other infrastructure which continue to be reported at fair value, as opposed to the vested land which is measured at zero cost. The measurement of vested improvements at fair value is a departure from AASB 16 which would have required the Shire to measure any vested improvements at zero cost.

Accounting policies which have been adopted in the preparation of this financial report have been consistently applied unless stated otherwise. Except for cash flow and rate setting information, the financial report has been prepared on the accrual basis and is based on historical costs, modified, where applicable, by the measurement at fair value of selected non-current assets, financial assets and liabilities.

THE LOCAL GOVERNMENT REPORTING ENTITY

All funds through which the Shire controls resources to carry on its functions have been included in the financial statements forming part of this financial report.

All monies held in the Trust Fund are excluded from the financial statements.

SIGNIFICANT ACCOUNTING POLICES

CRITICAL ACCOUNTING ESTIMATES

The preparation of a financial report in conformity with Australian Accounting Standards requires management to make judgements, estimates and assumptions that effect the application of policies and reported amounts of assets and liabilities, income and expenses.

The estimates and associated assumptions are based on historical experience and various other factors believed to be reasonable under the circumstances; the results of which form the basis of making the judgements about carrying values of assets and liabilities not readily apparent from other sources. Actual results may differ from these estimates.

The balances, transactions and disclosures impacted by accounting estimates are as follows:

- estimation of fair values of certain financial assets
- estimation of fair values of fixed assets shown at fair value
- impairment of financial assets

GOODS AND SERVICES TAX

Revenues, expenses and assets are recognised net of the amount of GST, except where the amount of GST incurred is not recoverable from the Australian Taxation Office (ATO). Receivables and payables are stated inclusive of GST receivable or payable. The net amount of GST recoverable from, or payable to, the ATO is included with receivables or payables in the statement of financial position. Cash flows are presented on a gross basis. The GST components of cash flows arising from investing or financing activities which are recoverable from, or payable to, the ATO are presented as operating cash flows.

ROUNDING OFF FIGURES

All figures shown in this statement are rounded to the nearest dollar.

PREPARATION TIMING AND REVIEW

Date prepared: All known transactions up to 29 February 2024

(a) Non-cash items excluded from operating activities

The following non-cash revenue and expenditure has been excluded from operating activities within the Statement of Financial Activity in accordance with *Financial Management Regulation 32*.

	Notes	Adopted Budget	YTD Budget (a)	YTD Actual (b)	Forecast 29 June 2024 Closing
		\$	\$	\$	
Non-cash items excluded from operating activities					
Adjustments to operating activities					
Less: Profit on asset disposals	6	(113,800)	(75,864)	0	(37,936)
Add: Loss on asset disposals	6	11,700	7,800	0	3,900
Add: Depreciation on assets		5,876,500	3,917,696	3,436,150	5,394,954
Total non-cash items excluded from operating activities		5,774,400	3,849,632	3,436,150	5,360,918

(b) Adjustments to net current assets in the Statement of Financial Activity

The following current assets and liabilities have been excluded from the net current assets used in the Statement of Financial Activity in accordance with *Financial Management Regulation 32* to agree to the surplus/(deficit) after imposition of general rates.

	Adopted Budget Opening 30 June 2023	Last Year Closing 30 June 2023	Year to Date 29 February 2024
Adjustments to net current assets			
Less: Reserves - restricted cash	9 (7,013,785)	(6,975,873)	(7,025,529)
Less: - Financial assets at amortised cost - self supporting loans	4 (36,834)	(36,834)	(18,642)
Less: User defined	(755,760)	(755,760)	(755,763)
Add: Borrowings	8 99,461	99,461	18,641
Add: Provisions employee related provisions	10 571,585	571,585	571,585
Total adjustments to net current assets	(7,135,333)	(7,097,421)	(7,209,708)

(c) Net current assets used in the Statement of Financial Activity

Current assets			
Cash and cash equivalents	2 12,218,595	12,218,595	14,416,711
Rates receivables	3 733,267	733,267	1,090,758
Receivables	3 573,714	573,714	1,131,148
Other current assets	4 253,542	253,542	185,797
Less: Current liabilities			
Payables	5 (769,443)	(769,443)	(435,177)
Borrowings	8 (99,461)	(99,461)	(18,641)
Contract liabilities	10 (1,306,962)	(1,306,962)	(1,508,237)
Provisions	10 (571,585)	(571,585)	(571,585)
Less: Total adjustments to net current assets	1(b) (7,097,421)	(7,097,421)	(7,209,708)
Closing funding surplus / (deficit)	3,934,246	3,934,246	7,081,065

CURRENT AND NON-CURRENT CLASSIFICATION

In the determination of whether an asset or liability is current or non-current, consideration is given to the time when each asset or liability is expected to be settled. Unless otherwise stated assets or liabilities are classified as current if expected to be settled within the next 12 months, being the Council's operational cycle.

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024**

**OPERATING ACTIVITIES
NOTE 2
CASH AND FINANCIAL ASSETS**

Description	Classification	Unrestricted	Restricted	Total Cash	Trust	Institution	Interest Rate	Maturity Date	
		\$	\$	\$	\$				
Municipal Bank Account		5,922,630		5,922,630					
Petty Cash - Admin		950		950					
Float - MRCLC		3,100		3,100					
Municipal Investment Account		1,464,502		1,464,502					
Reserve Bank Account		0	7,025,529	7,025,529					
Total		7,391,182	7,025,529	14,416,711	0				
Comprising									
Cash and cash equivalents		7,391,182	7,025,529	14,416,711	0				
		7,391,182	7,025,529	14,416,711	0				

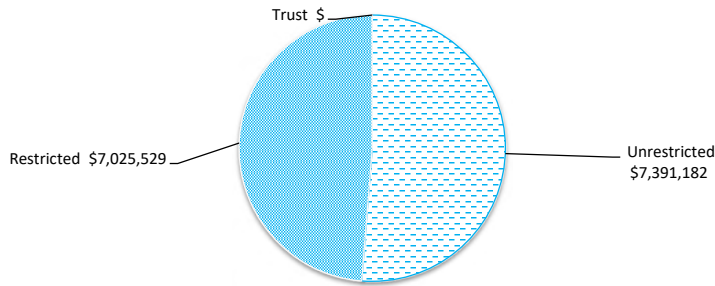
KEY INFORMATION

Cash and cash equivalents include cash on hand, cash at bank, deposits available on demand with banks and other short term highly liquid investments with original maturities of three months or less that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value. Bank overdrafts are reported as short term borrowings in current liabilities in the statement of net current assets.

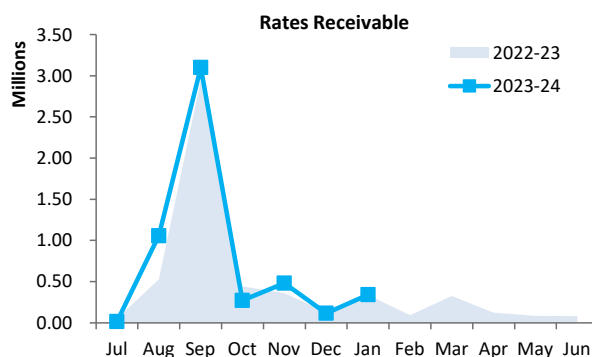
The local government classifies financial assets at amortised cost if both of the following criteria are met:

- the asset is held within a business model whose objective is to collect the contractual cashflows, and
- the contractual terms give rise to cash flows that are solely payments of principal and interest.

Financial assets at amortised cost held with registered financial institutions are listed in this note other financial assets at amortised cost are provided in Note 4 - Other assets.



Rates receivable	30 June 2023	29 Feb 2024
	\$	\$
Opening arrears previous years	733,267	733,267
Levied this year		5,298,034
Less - collections to date	0	(4,940,543)
Gross rates collectable	733,267	1,090,758
Net rates collectable	733,267	1,090,758
% Collected	0%	81.9%



Receivables - general	Credit	Current	30 Days	60 Days	90+ Days	Total
	\$	\$	\$	\$	\$	\$
Receivables - general	1,191	50,910	745,948	481,950	(493,435)	786,564
Percentage	0.2%	6.5%	94.8%	61.3%	-62.7%	
Balance per trial balance						
Sundry receivable						786,564
GST receivable						25,036
Other receivables						15,440
Accrued Income						328,085
Other receivables - Provision for Doubtful Debts						(24,156)
Total receivables general outstanding						1,130,969

Amounts shown above include GST (where applicable)

KEY INFORMATION

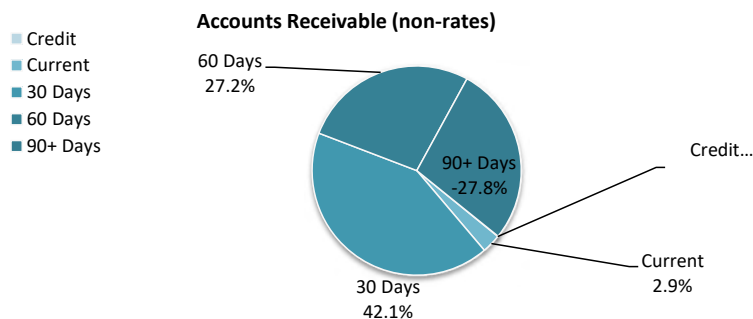
Trade and other receivables include amounts due from ratepayers for unpaid rates and service charges and other amounts due from third parties for goods sold and services performed in the ordinary course of business.

Trade receivables are recognised at original invoice amount less any allowances for uncollectable amounts (i.e. impairment). The carrying amount of net trade receivables is equivalent to fair value as it is due for settlement within 30 days.

Classification and subsequent measurement

Receivables which are generally due for settlement within 30 days except rates receivables which are expected to be collected within 12 months are classified as current assets. All other receivables such as, deferred pensioner rates receivable after the end of the reporting period are classified as non-current assets.

Trade and other receivables are held with the objective to collect the contractual cashflows and therefore the Shire measures them subsequently at amortised cost using the effective interest rate method.



Other current assets	Opening Balance 1 July 2023	Asset Increase	Asset Reduction	Closing Balance 29 February 2024
	\$	\$	\$	\$
Other financial assets at amortised cost				
Financial assets at amortised cost - self supporting loans	36,834		(18,192)	18,642
Inventory				
Fuel	32,708	0	(49,553)	(16,845)
Land held for resale				
Cost of acquisition	184,000		0	184,000
Total other current assets	253,542	0	(67,745)	185,797

Amounts shown above include GST (where applicable)

KEY INFORMATION

Other financial assets at amortised cost

The Shire classifies financial assets at amortised cost if both of the following criteria are met:

- the asset is held within a business model whose objective is to collect the contractual cashflows, and
- the contractual terms give rise to cash flows that are solely payments of principal and interest.

Inventory

Inventories are measured at the lower of cost and net realisable value.

Net realisable value is the estimated selling price in the ordinary course of business less the estimated costs of completion and the estimated costs necessary to make the sale.

Land held for resale

Land held for development and resale is valued at the lower of cost and net realisable value. Cost includes the cost of acquisition, development, borrowing costs and holding costs until completion of development.

Borrowing costs and holding charges incurred after development is completed are expensed.

Gains and losses are recognised in profit or loss at the time of signing an unconditional contract of sale if significant risks and rewards, and effective control over the land, are passed onto the buyer at this point.

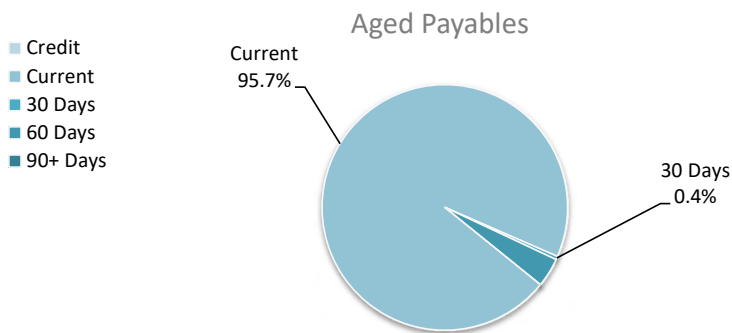
Land held for resale is classified as current except where it is held as non-current based on the Council's intentions to release for sale.

Payables - general	Credit	Current	30 Days	60 Days	90+ Days	Total
	\$	\$	\$	\$	\$	\$
Payables - general	0	495,251	2,248	19,723	200	517,422
Percentage	0%	95.7%	0.4%	3.8%	0%	
Balance per trial balance						
Sundry creditors						95,047
Other payables						87,680
Income in Advance						95,144
PAYG						101,585
Total payables general outstanding						435,177

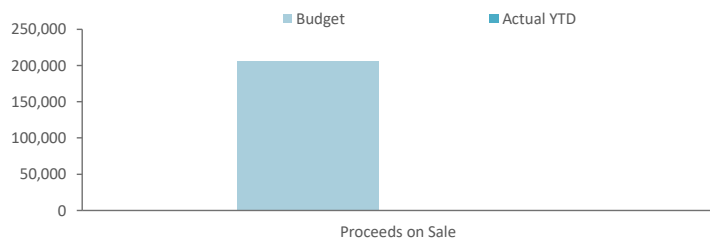
Amounts shown above include GST (where applicable)

KEY INFORMATION

Trade and other payables represent liabilities for goods and services provided to the Shire prior to the end of the period that are unpaid and arise when the Shire becomes obliged to make future payments in respect of the purchase of these goods and services. The amounts are unsecured, are recognised as a current liability and are normally paid within 30 days of recognition. The carrying amounts of trade and other payables are considered to be the same as their fair values, due to their short-term nature.



Asset Ref.	Asset description	Budget				YTD Actual			
		Net Book		Profit	(Loss)	Net Book		Profit	(Loss)
		Value	Proceeds			Value	Proceeds		
		\$	\$	\$	\$	\$	\$	\$	
Transport									
617	2020 MITSUBISHI SPORT QF	24,200	43,050	18,850	0				
504	2018 MITSUBISHI ASX LS 2WD	2,900	16,700	13,800	0				
278	805 SQUIRREL SELF PROPELLED ELEVATING PLATFORM	10,200	0	0	(10,200)				
483	KUBOTA RTV-X900W	0	7,500	7,500	0				
193	TRAILER RIGID POLMAC 6 TO 10 TONNE	3,100	5,000	1,900	0				
343	BOMAG BW25RH ROAD ROLLER 2011	8,200	40,000	31,800	0				
505	HAKO CITYMASTER 1600	20,000	18,500	0	(1,500)				
489	2015 HINO 300 SERIES 917 DUMP TRUCK	30,100	43,100	13,000	0				
483	2018 Nissan Navara D23 King Cab 4x2 (Ranger)	2,800	14,950	12,150	0				
506	2019 NISSAN NAVARA TRAY TOP (CONSTRUCTION)	2,300	17,100	14,800	0				
		103,800	205,900	113,800	(11,700)	0	0	0	0



NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024

INVESTING ACTIVITIES
NOTE 7
CAPITAL ACQUISITIONS

Capital acquisitions	Adopted		YTD Actual	Forecast 30 June Closing	YTD Actual Variance	
	Budget	YTD Budget				
	\$	\$	\$		\$	
Buildings - specialised	512	185,800	15,483	18,252	188,569	2,769
Buildings - non-specialised	514	58,800	29,300	13,356	42,856	(15,944)
Plant and equipment	530	735,600	715,600	333,686	353,686	(381,914)
Infrastructure - roads	540	5,836,700	3,758,030	2,224,700	4,303,370	(1,533,330)
Infrastructure - Footpaths	560	67,800	45,200	0	22,600	(45,200)
Infrastructure -Drainage	550	70,000	46,664	0	23,336	(46,664)
Infrastructure - Parks & Gardens	570	8,941,528	5,387,181	96,464	3,650,811	(5,290,717)
Infrastructure - Other	590	434,500	174,500	165,870	425,870	(8,630)
Payments for Capital Acquisitions		16,330,728	10,171,958	2,852,328	9,011,098	(7,319,630)
Capital Acquisitions Funded By:						
	\$	\$	\$		\$	
Capital grants and contributions	12,096,098	5,084,118	2,618,554	9,630,534		(2,465,564)
Borrowings	1,480,000	1,480,000	1,480,000	1,480,000		0
Other (disposals & C/Fwd)	205,900	205,900	0	0		(205,900)
Cash backed reserves						
Plant Replacement Reserve	(188,200)		188,200	0		188,200
Buildings Reserve	(530,000)		70,400	(459,600)		70,400
Waste Management Reserve	(5,000)		0	(5,000)		0
ICT Reserve	(40,100)		31,700	(8,400)		31,700
Apex Park Redevelopment Reserve	(308,000)		0	(308,000)		0
Merredin-Narembeen Rd Reserve	(267,900)		0	(267,900)		0
Contribution - operations	3,887,930	3,401,940	(1,536,525)	(1,050,536)		(4,938,466)
Capital funding total		16,330,728	10,171,958	2,852,328	9,011,098	(7,319,630)

SIGNIFICANT ACCOUNTING POLICIES

Each class of fixed assets within either plant and equipment or infrastructure, is carried at cost or fair value as indicated less, where applicable, any accumulated depreciation and impairment losses.

Assets for which the fair value as at the date of acquisition is under \$5,000 are not recognised as an asset in accordance with *Financial Management Regulation 17A (5)*. These assets are expensed immediately.

Where multiple individual low value assets are purchased together as part of a larger asset or collectively forming a larger asset exceeding the threshold, the individual assets are recognised as one asset and capitalised.

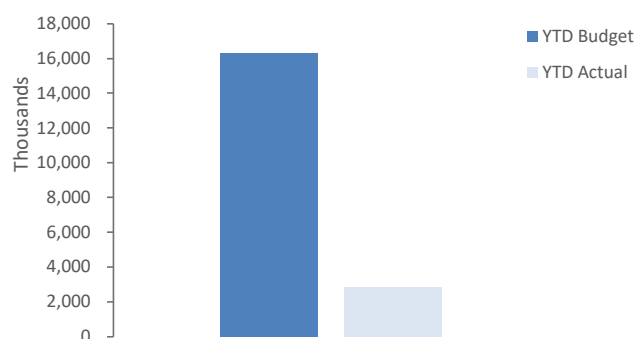
Initial recognition and measurement for assets held at cost

Plant and equipment including furniture and equipment is recognised at cost on acquisition in accordance with *Financial Management Regulation 17A*. Where acquired at no cost the asset is initially recognise at fair value. Assets held at cost are depreciated and assessed for impairment annually.

Initial recognition and measurement between mandatory revaluation dates for assets held at fair value

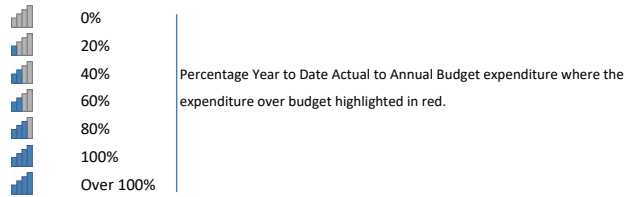
In relation to this initial measurement, cost is determined as the fair value of the assets given as consideration plus costs incidental to the acquisition. For assets acquired at zero cost or otherwise significantly less than fair value, cost is determined as fair value at the date of acquisition. The cost of non-current assets constructed by the Shire includes the cost of all materials used in construction, direct labour on the project and an appropriate proportion of variable and fixed overheads.

Payments for Capital Acquisitions



Capital expenditure total

Level of completion indicators



Level of completion indicator, please see table at the end of this note for further details

			Adopted			Variance
Account Description			Budget	YTD Budget	YTD Actual	(Under)/Over
			\$	\$	\$	\$
4090210	BC032	OTH HOUSE - Building (Capital)	12,300	12,300	9,590.00	(2,710.00)
4090210	BC033	OTH HOUSE - Building (Capital)	17,000	17,000	-	(17,000.00)
4090210	BC035	OTH HOUSE - Building (Capital)	4,500	0	3,766.00	3,766.00
4090210	BC042	OTH HOUSE - Building (Capital)	25,000	0	-	-
4100110	LC041	SAN - Building (Capital)	15,000	12,500	-	(12,500.00)
4100130		SAN - Plant & Equipment (Capital)	20,000	0	-	-
4100180	LC002	SAN - Infrastructure Other (Capital)	105,000	70,000	35,475.06	(34,524.94)
4100590	EC001	ENVIRON - Infrastructure Other (Capital)	14,500	14,500	8,940.00	(5,560.00)
4090210	BC006	ENVIRON - Infrastructure Other (Capital)	8,000	0	12,575.08	12,575.08
4110310	BC085	REC - Other Rec Facilities Building (Capital)	44,400	29,600	5,677.28	(23,922.72)
4110320		REC - Other Rec Facilities Plant & Equipment (Capital)	5,600	0	5,547.30	5,547.30
4110290	SC041	SWIM AREAS - Infrastructure (Capital)	5,000	3,336	-	(3,336.00)
4110290	SC042	SWIM AREAS - Infrastructure (Capital)	15,000	15,000	11,900.00	(3,100.00)
4110290	SC043	SWIM AREAS - Infrastructure (Capital)	15,000	15,000	11,736.40	(3,263.60)
4110370	PC001	REC - Infrastructure Parks & Gardens (Capital)	4,386,185	1,462,062	52,240.05	(1,409,821.95)
4110370	PC036	REC - Infrastructure Parks & Gardens (Capital)	370,000	308,335	416.00	(307,919.00)
4110370	PC037	REC - Infrastructure Parks & Gardens (Capital)	194,000	194,000	-	(194,000.00)
4110370	PC007	REC - Infrastructure Parks & Gardens (Capital)	3,381,343	2,817,785	43,807.46	(2,773,977.54)
4110370	PC041	REC - Infrastructure Parks & Gardens (Capital)	580,000	579,999	-	(579,999.00)
4110370	PC043	REC - Infrastructure Parks & Gardens (Capital)	30,000	25,000	-	(25,000.00)
4110510	BC004	LIBRARY - Library Building (Capital)	21,000	0	-	-
4110610	HC041	HERITAGE - Building (Capital)	40,000	26,664	-	(26,664.00)
4110710	BC002	OTH CUL - Building (Capital)	43,900	36,585	-	(36,585.00)
4110730		OTH CUL - Plant & Equipment (Capital)	6,100	0	6,200.00	6,200.00
4120110		ROADC - Building (Capital)	13,500	4,500	-	(4,500.00)
4120140	RC401	ROADC - Roads Built Up Area - Council Funded	35,000	0	-	-
4120141	RC239	Merredin-Narembeen Road (Capital)	4,293,700	2,862,464	1,794,496.11	(1,067,967.89)
4120141	RC239C	Merredin-Narembeen Road (Capital)	0	0	284,095.89	284,095.89
4120144	R2R000	ROADC - Roads Built Up Area - Roads to Recovery	94,500	0	-	-
4120145	R2R001	Chandler Road (R2R)	27,300	27,300	-	(27,300.00)
4120145	R2R003	Bullshead Road (R2R)	53,400	53,400	44,307.00	(9,093.00)
4120145	R2R012	Nokaning West Road (R2R)	35,200	35,200	-	(35,200.00)
4120145	R2R013	Nukarni East Road (R2R)	72,600	0	-	-
4120145	R2R014	R2R Nukarni West Road	56,100	0	-	-
4120145	R2R017	Fewster Road (R2R)	104,600	34,866	-	(34,866.00)
4120145	R2R063	R2R Korbalka Road	99,400	99,400	-	(99,400.00)
4120145	R2R072	Crooks Road (R2R)	54,100	54,100	-	(54,100.00)
4120146	R2R090	Goldfields Road (R2R)	202,300	202,300	10,338.34	(191,961.66)
4120149	RRG001	RRG Chandler-Merredin - Resurfacing	54,200	0	-	-
4120149	RRG003	Bullshead Road (RRG)	106,600	35,534	88,613.00	53,079.00
4120149	RRG072	Crooks Road (RRG)	108,100	72,064	2,850.00	(69,214.00)
4120150	RRG090	Goldfields Road (RRG)	404,600	269,736	-	(269,736.00)
4120165	DC142	ROADC - Drainage Built Up Area (Capital)	70,000	46,664	-	(46,664.00)
4120168	KC000	ROADC - Kerbing (Capital)	35,000	16,666	-	(16,666.00)
4120170	FC000	ROADC - Footpaths and Cycleways (Capital)	67,800	45,200	-	(45,200.00)
4120330		PLANT - Plant & Equipment (Capital)	703,900	419,936	321,939.03	(97,996.97)
4120790	WC002	WATER - Infrastructure Other (Capital)	100,000	66,664	63,578.89	(3,085.11)
4120790	WC003	MRWN - Upgrade	180,000	0	34,239.50	34,239.50
			16,330,728	9,985,660	2,852,328.39	-7,133,331.61

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024**

**FINANCING ACTIVITIES
NOTE 8
BORROWINGS**

Repayments - borrowings

Information on borrowings Particulars	Loan No.	1 July 2023	New Loans		Principal Repayments		Principal Outstanding		Interest Repayments	
			Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget
		\$	\$	\$	\$	\$	\$	\$	\$	
Education and welfare										
CEACA Contributions	217	262,693			(62,627)	(62,300)	200,066	200,393	(4,137)	(7,800)
Recreation and culture										
CBD Development	219		(1,480,000)	1,480,000		(55,800)	(1,480,000)	1,424,200	0	(33,600)
		262,693	-1,480,000	1,480,000	-62,627	-118,100	-1,279,934	1,624,593	-4,137	-41,400
Self supporting loans										
Education and welfare										
Merretville	215	226,758	0	0	(18,193)	(36,800)	226,758	189,958	(5,601)	(10,700)
		226,758	0	0	(18,193)	-36,800	226,758	189,958	(5,601)	(10,700)
Total		489,451	-1,480,000	1,480,000	(80,820)	-154,900	-1,053,176	1,814,551	(9,738)	(52,100)
Current borrowings		154,900					18,641			
Non-current borrowings		334,551					-1,071,817			
		489,451					-1,053,176			

All debenture repayments were financed by general purpose revenue.

Self supporting loans are financed by repayments from third parties.

The Shire has no unspent debenture funds as at 30th June 2023, nor is it expected to have unspent funds as at 30th June 2024.

KEY INFORMATION

Borrowing costs are recognised as an expense when incurred except where they are directly attributable to the acquisition, construction or production of a qualifying asset. Where this is the case, they are capitalised as part of the cost of the particular asset until such time as the asset is substantially ready for its intended use or sale.

Fair values of borrowings are not materially different to their carrying amounts, since the interest payable on those borrowings is either close to current market rates or the borrowings are of a short term nature. Non-current borrowings fair values are based on discounted cash flows using a current borrowing rate.

KEY INFORMATION

At inception of a contract, the Shire assesses if the contract contains or is a lease. A contract is or contains a lease, if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. At the commencement date, a right of use asset is recognised at cost and lease liability at the present value of the lease payments that are not paid at that date. The lease payments are discounted using that date. The lease payments are discounted using the interest rate implicit in the lease, if that rate can be readily determined. If that rate cannot be readily determined, the Shire uses its incremental borrowing rate.

All contracts classified as short-term leases (i.e. a lease with a remaining term of 12 months or less) and leases of low value assets are recognised as an operating expense on a straight-line basis over the term of the lease.

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024

OPERATING ACTIVITIES
NOTE 9
RESERVE ACCOUNTS

Reserve accounts

Reserve name	Opening Balance	Budget Interest Earned	Actual Interest Earned	Budget Transfers In (+)	Actual Transfers In (+)	Budget Transfers Out (-)	Actual Transfers Out (-)	Budget Closing Balance	Actual YTD Closing Balance
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Restricted by Legislation									
Plant Replacement Reserve	729,127	9,200	11,513	-	-	(188,200)	(188,200)	550,127	552,440
Buildings Reserve	1,123,227	31,700	17,736	-	-	(530,000)	(70,400)	624,927	1,070,563
Land & Development Reserve	1,600,696	22,900	25,276	-	-	0	0	1,623,596	1,625,972
Recreation Reserve	926,656	13,300	14,632	-	-	0	0	939,956	941,288
Disaster Relief Reserve	251,516	3,500	3,972	-	-	0	0	255,016	255,488
Cummings St Units Reserve	46,410	900	1,034	-	-	0	0	47,310	47,444
Waste Management Reserve	381,063	5,400	6,017	-	-	(5,000)	0	381,463	387,080
Unspent Capital Works Reserve	374,882	2,900	5,920	-	-	0	0	377,782	380,802
ICT Reserve	293,830	4,700	4,640	-	-	(40,100)	(31,700)	258,430	266,770
Apex Park Redevelopment Reserve	304,472	1,600	4,808	-	-	(308,000)	0	(1,928)	309,280
Merredin-Narembeen Rd Reserve	566,931	8,500	8,755	285,900	229,700	(267,900)	0	593,431	805,386
Restricted by Council									
Leave reserve	377,063	5,400	5,954	-	0	0	0	382,463	383,017
	6,975,873	110,000	110,256	285,900	229,700	(1,339,200)	(290,300)	6,032,573	7,025,529

	Note	Opening Balance 1 July 2023	Liability transferred from/(to) non current	Liability Increase	Liability Reduction	Closing Balance 29 February 2024
		\$		\$	\$	\$
Other current liabilities						
Other liabilities						
- Contract liabilities		1,288,770	0	200,875	0	1,489,645
- Capital grant/contribution liabilities		0	0	0	0	0
- Other liabilities [describe]		18,192	0	400		18,592
Total other liabilities		1,306,962	0	201,275	0	1,508,237
Employee Related Provisions						
Annual leave		329,317	0			329,317
Long service leave		242,268	0			242,268
Total Employee Related Provisions		571,585	0	0	0	571,585
Total Other Provisions		0	0	0	0	0
Total other current assets		1,878,547	0	201,275	0	2,079,822
Amounts shown above include GST (where applicable)						

A breakdown of contract liabilities and associated movements is provided on the following pages at Note 11

KEY INFORMATION

Provisions

Provisions are recognised when the Shire has a present legal or constructive obligation, as a result of past events, for which it is probable that an outflow of economic benefits will result and that outflow can be reliably measured. Provisions are measured using the best estimate of the amounts required to settle the obligation at the end of the reporting period.

Employee Related Provisions

Short-term employee benefits

Provision is made for the Shire's obligations for short-term employee benefits. Short-term employee benefits are benefits (other than termination benefits) that are expected to be settled wholly before 12 months after the end of the annual reporting period in which the employees render the related service, including wages, salaries and sick leave. Short-term employee benefits are measured at the (undiscounted) amounts expected to be paid when the obligation is settled. The Shire's obligations for short-term employee benefits such as wages, salaries and sick leave are recognised as a part of current trade and other payables in the calculation of net current assets.

Other long-term employee benefits

The Shire's obligations for employees' annual leave and long service leave entitlements are recognised as employee related provisions in the statement of financial position.

Long-term employee benefits are measured at the present value of the expected future payments to be made to employees. Expected future payments incorporate anticipated future wage and salary levels, durations of service and employee departures and are discounted at rates determined by reference to market yields at the end of the reporting period on government bonds that have maturity dates that approximate the terms of the obligations. Any remeasurements for changes in assumptions of obligations for other long-term employee benefits are recognised in profit or loss in the periods in which the changes occur. The Shire's obligations for long-term employee benefits are presented as non-current provisions in its statement of financial position, except where the Shire does not have an unconditional right to defer settlement for at least 12 months after the end of the reporting period, in which case the obligations are presented as current provisions.

Contract liabilities

An entity's obligation to transfer goods or services to a customer for which the entity has received consideration (or the amount is due) from the customer.

Capital grant/contribution liabilities

Grants to acquire or construct recognisable non-financial assets to identified specifications be constructed to be controlled by the Shire are recognised as a liability until such time as the Shire satisfies its obligations under the agreement.

Provider	Unspent operating grant, subsidies and contributions liability					Operating grants, subsidies and contributions revenue			
	Liability	Increase in Liability	Decrease in Liability	Liability	Current Liability	Adopted Budget	YTD	YTD Revenue	Forecast 30
	1 July 2023		(As revenue)	29 Feb 2024	29 Feb 2024	Revenue	Budget	Actual	June Closing
	\$	\$	\$	\$	\$	\$	\$	\$	
Operating grants and subsidies									
General purpose funding									
GEN PUR - Financial Assistance Grant - General				0	0	0	82,900	82,906	6
Law, order, public safety									
ESL BFB - Operating Grant				0	0	69,200	44,904	48,179	72,475
ESL SES - Operating Grant				0	0	14,000	17,864	20,101	16,237
Education and welfare									
SENIORS - Reimbursements				0	0	10,800	7,200	5,601	9,201
WELFARE - Community Development Grants				0	0	19,500	11,344	2,500	10,656
Housing									
OTH HOUSE - Rental Reimbursements				0	0	0	0	15,571	15,571
Recreation and culture									
HALLS - Grants				0	0	0	0	0	0
HERITAGE - Grant	8,000			8,000	0	20,000	20,000	0	0
Transport									
ROADM - Street Lighting Subsidy				0	0	20,900	0	0	20,900
ROADM - Road Contribution Income				0	0	285,900	190,600	299,746	395,046
ROADM - Direct Road Grant (MRWA)				0	0	251,200	170,936	256,337	336,601
Economic services									
TOURISM - Reimbursements				0	0	35,800	22,879	3,881	16,802
TOURISM - Other Income Relating to Tourism & Area Promotion				0	0	43,000	37,319	21,289	26,970
Other property and services									
PWO - Other Reimbursements				0	0	100	64	0	36
SAL - Reimbursement - Parental Leave				0	0	0	0	30,014	30,014
POC - Fuel Tax Credits Grant Scheme				0	0	0	0	18,744	18,744
TOTALS	8,000	0	0	8,000	0	770,400	658,930	824,004	935,474

Provider	Capital grant/contribution liabilities					Non operating grants, subsidies and contributions revenue			
	Liability 1 July 2023	Increase in Liability	Decrease in Liability (As revenue)	Liability 29 Feb 2024	Current Liability 29 Feb 2024	Adopted Budget Revenue	YTD Budget	YTD Revenue Actual	Forecast 30 June Closing
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Non-operating grants and subsidies									
Community amenities									
DWER - E-Waste Infrastructure Grants	0			0		75,700	50,464	75,680	100,916
DMIRS - EV Charges				0		7,000	0	0	7,000
Recreation and culture									
REC - Grants - Lotterywest						2,100,061	700,020	0	1,400,041
REC - Grants - LRCI	573,735			573,735		2,124,067	0	0	2,124,067
REC - Grants - BBRF				0		1,520,400	0	0	1,520,400
REC - Other Capital Contributions				0		574,070	574,070	0	0
Audience Development	47,521			47,521				0	0
War Stories Illumination Projections	10,658			10,658				0	0
Heritage Grant	0			0		0		0	0
Transport									
ROADC - Regional Road Group Grants (MRWA)	628,243			628,243		673,600	449,064	315,449	539,985
ROADC - Roads to Recovery Grant				0		799,200	532,800	73,287	339,687
ROADC - Wheatbelt Secondary Freight Network				0		4,032,900	2,688,600	2,124,334	3,468,634
LRCI - Phase 1	14,553			14,553				0	0
WATER - CWSP Grant 1				0		89,100	89,100	19,804	19,804
WATER - CWSP Grant 2				0		100,000	0	10,000	110,000
Vegetation control	6,060			6,060					0
	1,280,770	0	0	1,280,770	0	12,096,098	5,084,118	2,618,554	9,630,534
TOTALS	1,280,770	0	0	1,280,770	0	12,096,098	5,084,118	2,618,554	9,630,534

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024**

**NOTE 12
TRUST FUND**

Funds held at balance date which are required by legislation to be credited to the trust fund and which are not included in the financial statements are as follows:

Description	Opening Balance 1 July 2023	Amount Received	Amount Paid	Closing Balance 29 Feb 2024
	\$	\$	\$	\$
	0	0	0	0

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024**

**NOTE 13
BUDGET AMENDMENTS**

Amendments to original budget since budget adoption. Surplus/(Deficit)

GL Code	Description	Council Resolution	Classification	Non Cash	Increase in	Decrease in	Amended Budget Running Balance
				Adjustment	Avaliable Cash	Avaliable Cash	
				\$	\$	\$	\$
	Budget adoption						8,806
3050610	ESL SES - Operating Grant				12,801		21,607
2050669	ESL SES - Plant & Equipment \$1,200 to \$5,000 per item					(12,801)	8,806
2050510	ESL BFB - Operating Grant					(3,721)	5,085
2050510	ESL BFB - Operating Grant				1,884		6,969
2050586	ESL BFB - Plant & Equipment <\$1,200					(4,837)	2,132
SC041	Capital Repairs to Pool Bowl					(15,000)	(12,868)
SC043	Capital Repairs to existing filters replacing laterals and filter media				15,000		2,132
9673301	Building Reserve					(80,000)	(77,868)
2110354	REC - MRCLC Initial Maintenance and Repairs				80,000		2,132
PC041	Water Tower Reimbursements					(228,900)	(226,768)
3110315	REC - Other Capital Contributions				237,670		10,902
3030211	GEN PUR - FAGS Roads Extra Financial Assistance				50,775		61,677
4120330	PLANT - Plant & Equipment (Capital) Trimble Survey Equipment					(49,000)	12,677
Various	Budget Review Amendments - October 2023				4,935		17,612
PC001	Apex Park Revitalisation				2,364,985		2,382,597
FC000	Footpath					(43,000)	2,339,597
KC000	Kerbing Replacement					(15,000)	2,324,597
9673501	Apex Park Reserve					(55,000)	2,269,597
PC036	Visitor Centre (Building Reserve)					(80,000)	2,189,597
3110313	REC - Grants - LRCI Capital					(71,924)	2,117,673
3110310	REC - Grants - Capital					(2,100,061)	17,612
PC007	CBD Redevelopment				330,943		348,555
3110313	REC - Grants - LRCI Capital					(330,943)	17,612
2110401	Liquidity Loan - Interest				80,000		97,612
3030245	GEN PUR - Interest earned - Reserve Funds					(80,000)	17,612
4120144	ROADC - Roads Built Up Area - Roads to Recovery					(37,000)	(19,388)
4120145	ROADC - Roads Outside BUA - Sealed - Roads To Recovery				694,900		675,512
4120146	ROADC - Roads Outside - Gravel - Roads to Recovery					(72,600)	602,912
4120147	ROADC - Roads Outside BUA - Formed - Roads to Recovery					(155,500)	447,412
4120149	ROADC - Roads Outside Built Up Area - Sealed - RRG				269,800		717,212
4120150	ROADC - Roads Outside Built Up - Gravel - RRG					(566,900)	150,312
3120110	ROADC - Regional Roads Group Grants (MRWA)					(26,700)	123,612
3120111	ROADC - Roads To Recovery Grant					(106,000)	17,612
				0	4,143,693	(4,134,887)	

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 29 FEBRUARY 2024**

**NOTE 14
EXPLANATION OF MATERIAL VARIANCES**

The material variance thresholds are adopted annually by Council as an indicator of whether the actual expenditure or revenue varies from the year to date Actual materially.

The material variance adopted by Council for the 2023-24 year is \$10,000 or 10.00% whichever is the greater.

Nature or type	Var. \$	Var. %	Explanation of variances	
			Timing	Permanent
	\$	%		
Revenue from operating activities				
Operating grants, subsidies and contributions	165,074	25.05%	▲ Timing	Timing of Grants received earlier than budgeted.
Fees and charges	139,537	19.37%	▲ Timing	Increase in Shire amenities usage and building services applications
Interest earnings	93,557	43.35%	▲ Permanent	Interest Rates have increased
Profit on disposal of assets	(75,864)	(100.00%)	▼ Timing	Assets not yet disposed
Expenditure from operating activities				
Employee costs	528,640	15.36%	▲ Timing	Staff Vacancy Roles yet to be filled
Materials and contracts	661,623	26.38%	▲ Timing	Expenditure not yet completed.
Utility charges	63,794	17.90%	▲ Timing	Utility costs lower than budgeted. Will be checked at budget review.
Depreciation on non-current assets	481,546	12.29%	▲ Timing	Depreciation lower than budgeted due to asset revals.
Interest expenses	56,950	80.97%	▲ Timing	Timing due to Loan Repayment Schedule
Investing activities				
Proceeds from non-operating grants, subsidies and contributions	(2,465,564)	(48.50%)	▼ Timing	Grants not yet received
Proceeds from disposal of assets	(205,900)	(100.00%)	▼ Timing	Assets not yet disposed
Payments for property, plant and equipment and infrastructure	7,319,630	71.96%	▲ Timing	Capital expenditure not yet completed
Financing activities				
Transfer from reserves	(1,048,900)	(78.32%)	▼ Timing	Part Reserve Transfers Complete
Repayment of debentures	74,080	47.82%	▲ Timing	Loan Payment made in July
Transfer to reserves	55,944	14.13%	▲ Timing	Part Reserve Transfers Complete
Closing funding surplus / (deficit)	5,501,467	(348.28%)	▲	

Prog	SP	Type	COA	Job	Description	Original Budget	Budget		YTD Budget	YTD Actual	Variance (%)
							Amendments	Current Budget			
03	0301	2	2030112		RATES - Valuation Expenses	\$50,000.00	\$0.00	\$50,000.00	\$6,664.00	\$567.36	-91.49%
03	0301	2	2030114		RATES - Debt Collection Expenses	\$60,000.00	\$0.00	\$60,000.00	\$40,000.00	\$5,013.50	-87.47%
03	0301	2	2030118		RATES - Rates Write Off	\$80,000.00	\$0.00	\$80,000.00	\$53,336.00	\$26,097.01	-51.07%
03	0301	2	2030185		RATES - Legal Expenses (not recoverable)	\$3,000.00	\$0.00	\$3,000.00	\$3,000.00	\$0.00	-100.00%
03	0301	2	2030199		RATES - Administration Allocated	\$51,900.00	\$0.00	\$51,900.00	\$34,600.00	\$31,238.65	-9.71%
Operating Expenditure Total						\$244,900.00	\$0.00	\$244,900.00	\$137,600.00	\$62,916.52	
03	0301	3	3030120		RATES - Instalment Admin Fee Received	-\$35,500.00	\$0.00	-\$35,500.00	-\$23,664.00	-\$33,696.73	42.40%
03	0301	3	3030121		RATES - Account Enquiry Charges	-\$500.00	\$0.00	-\$500.00	-\$336.00	\$0.00	-100.00%
03	0301	3	3030122		RATES - Reimbursement of Debt Collection Costs	-\$60,000.00	\$0.00	-\$60,000.00	-\$40,000.00	-\$4,433.50	-88.92%
03	0301	3	3030130		RATES - Rates Levied - Synergy	-\$5,215,600.00	-\$3,200.00	-\$5,218,800.00	-\$5,166,612.00	-\$5,218,842.81	1.01%
03	0301	3	3030140		RATES - Ex-Gratia Rates (CBH, etc.)	-\$77,300.00	-\$1,900.00	-\$79,200.00	-\$78,408.00	-\$79,191.36	1.00%
03	0301	3	3030145		RATES - Penalty Interest Received	-\$32,000.00	\$0.00	-\$32,000.00	-\$21,336.00	-\$30,907.98	44.86%
03	0301	3	3030147		RATES - Pensioner Deferred Interest Received	-\$4,000.00	\$0.00	-\$4,000.00	-\$2,664.00	-\$2,843.63	6.74%
Operating Income Total						-\$5,424,900.00	-\$5,100.00	-\$5,430,000.00	-\$5,333,020.00	-\$5,369,916.01	
Rates Total						-\$5,180,000.00	-\$5,100.00	-\$5,185,100.00	-\$5,195,420.00	-\$5,306,999.49	
03	0302	2	2030211		GEN PUR - Bank Fees & Charges	\$1,100.00	\$0.00	\$1,100.00	\$736.00	\$53.33	-92.75%
03	0302	2	2030214		GEN PUR - Rounding	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.01	
Operating Expenditure Total						\$1,100.00	\$0.00	\$1,100.00	\$736.00	\$53.32	
03	0302	3	3030210		GEN PUR - Financial Assistance Grant - General	\$0.00	-\$82,900.00	-\$82,900.00	-\$82,900.00	-\$82,906.00	0.01%
03	0302	3	3030211		GEN PUR - Financial Assistance Grant - Roads	\$0.00	-\$52,920.00	-\$52,920.00	-\$52,920.00	-\$18,965.75	-64.16%
03	0302	3	3030220		GEN PUR - Charges - Photocopying / Faxing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
03	0302	3	3030245		GEN PUR - Interest Earned - Reserve Funds	-\$110,000.00	-\$80,000.00	-\$190,000.00	-\$126,664.00	-\$156,162.89	23.29%
03	0302	3	3030246		GEN PUR - Interest Earned - Municipal Funds	-\$50,000.00	-\$30,000.00	-\$80,000.00	-\$53,336.00	-\$104,570.05	96.06%
03	0302	3	3030291		Gain on FV Valuation of Assets	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Operating Income Total						-\$160,000.00	-\$245,820.00	-\$405,820.00	-\$315,820.00	-\$362,604.69	
Other General Purpose Funding Total						-\$158,900.00	-\$245,820.00	-\$404,720.00	-\$315,084.00	-\$362,551.37	
03	0303	4	4030381		INVEST - Transfer to Employee Entitlement Reserve	\$5,400.00	\$0.00	\$5,400.00	\$3,600.00	\$5,954.02	65.39%
03	0303	4	4030383		INVEST - Transfer to Plant Replacement Reserve	\$9,200.00	\$0.00	\$9,200.00	\$6,136.00	\$11,513.31	87.64%
03	0303	4	4030384		INVEST - Transfer to Building Reserve	\$31,700.00	\$0.00	\$31,700.00	\$21,136.00	\$17,736.36	-16.08%
03	0303	4	4030385		INVEST - Transfer to Land and Development Reserve	\$22,900.00	\$0.00	\$22,900.00	\$15,264.00	\$25,275.84	65.59%
03	0303	4	4030386		INVEST - Transfer to ICT Reserve	\$4,700.00	\$0.00	\$4,700.00	\$3,136.00	\$4,639.73	47.95%
03	0303	4	4030387		INVEST - Transfer to Disaster Relief Fund Reserve	\$3,500.00	\$0.00	\$3,500.00	\$2,336.00	\$3,971.59	70.02%
03	0303	4	4030389		INVEST - Transfer to Cummings Street Units Reserve	\$900.00	\$0.00	\$900.00	\$600.00	\$1,033.62	72.27%
03	0303	4	4030390		INVEST - Transfer to Waste Management Reserve	\$5,400.00	\$0.00	\$5,400.00	\$3,600.00	\$6,017.18	67.14%
03	0303	4	4030391		INVEST - Transfer to Unspent Grants Reserve	\$2,900.00	\$0.00	\$2,900.00	\$1,936.00	\$5,919.59	205.76%
03	0303	4	4030393		INVEST - Transfer to Recreation Facilities Reserve	\$13,300.00	\$0.00	\$13,300.00	\$8,864.00	\$14,632.39	65.08%
03	0303	4	4030394		INVEST - Transfer to Apex Park Redevelopment Reserve	\$1,600.00	\$0.00	\$1,600.00	\$1,064.00	\$4,807.77	351.86%
03	0303	4	4030395		INVEST - Transfer to Merredin-Naremben Road	\$8,500.00	\$285,900.00	\$294,400.00	\$196,264.00	\$238,454.64	21.50%
Capital Expenditure Total						\$110,000.00	\$285,900.00	\$395,900.00	\$263,936.00	\$339,956.04	
03	0303	5	5030383		INVEST - Transfer from Plant Replacement Reserve	-\$188,200.00	\$0.00	-\$188,200.00	-\$141,150.00	-\$188,200.00	33.33%
03	0303	5	5030384		INVEST - Transfer from Building Reserve	-\$450,000.00	-\$80,000.00	-\$530,000.00	-\$530,000.00	-\$70,400.00	-86.72%
03	0303	5	5030386		INVEST - Transfer from ICT Reserve	-\$40,100.00	\$0.00	-\$40,100.00	-\$40,100.00	-\$31,700.00	-20.95%
03	0303	5	5030389		INVEST - Transfer from Cummings Street Units Reserve	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

03	0303	5	5030390	INVEST - Transfer from Waste Management Reserve	-\$5,000.00	\$0.00	-\$5,000.00	-\$5,000.00	\$0.00	-100.00%
03	0303	5	5030394	INVEST - Transfer from Apex Park Redevelopment Reserve	-\$253,000.00	-\$55,000.00	-\$308,000.00	\$0.00	\$0.00	
03	0303	5	5030395	INVEST - Transfer from Merredin/Narambeen Road Reser	-\$245,800.00	-\$22,100.00	-\$267,900.00	\$0.00	\$0.00	
Capital Income Total					-\$1,182,100.00	-\$157,100.00	-\$1,339,200.00	-\$716,250.00	-\$290,300.00	
Reserve Transfers Total					-\$1,072,100.00	\$128,800.00	-\$943,300.00	-\$452,314.00	\$49,656.04	
General Purpose Funding Total					-\$6,411,000.00	-\$122,120.00	-\$6,533,120.00	-\$5,962,818.00	-\$5,619,894.82	
04	0401	2	2040104	MEMBERS - Training & Development	\$45,000.00	\$0.00	\$45,000.00	\$30,000.00	\$17,759.30	-40.80%
04	0401	2	2040109	MEMBERS - Members Travel and Accommodation	\$20,000.00	\$0.00	\$20,000.00	\$13,328.00	\$4,660.94	-65.03%
04	0401	2	2040111	MEMBERS - Mayors/Presidents Allowance	\$13,600.00	\$0.00	\$13,600.00	\$6,800.00	\$6,805.00	0.07%
04	0401	2	2040112	MEMBERS - Deputy Mayors/Presidents Allowance	\$3,400.00	\$0.00	\$3,400.00	\$2,550.00	\$1,700.00	-33.33%
04	0401	2	2040113	MEMBERS - Members Sitting Fees	\$65,400.00	\$0.00	\$65,400.00	\$32,700.00	\$30,966.94	-5.30%
04	0401	2	2040114	MEMBERS - Communications Allowance	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$1,296.00	-22.12%
04	0401	2	2040116	MEMBERS - Election Expenses	\$24,500.00	\$22,000.00	\$46,500.00	\$46,500.00	\$21,328.15	-54.13%
04	0401	2	2040129	MEMBERS - Donations to Community Groups	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
04	0401	2	2040141	MEMBERS - Subscriptions & Publications	\$85,000.00	\$0.00	\$85,000.00	\$85,000.00	\$64,526.28	-24.09%
04	0401	2	2040186	MEMBERS - Expensed Minor Asset Purchases	\$8,000.00	\$0.00	\$8,000.00	\$5,336.00	\$0.00	-100.00%
04	0401	2	2040187	MEMBERS - Other Expenses	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$1,673.09	-49.85%
04	0401	2	2040188	MEMBERS - Chambers Operating Expenses	\$800.00	\$0.00	\$800.00	\$536.00	\$0.00	-100.00%
04	0401	2	2040189	MEMBERS - Chambers Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
04	0401	2	2040190	MEMBERS - Minute Binding/Record keeping	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$0.00	-100.00%
Operating Expenditure Total					\$279,200.00	\$22,000.00	\$301,200.00	\$231,750.00	\$150,715.70	
Members Of Council Total					\$279,200.00	\$22,000.00	\$301,200.00	\$231,750.00	\$150,715.70	
04	0402	2	2040211	OTH GOV - Civic Functions, Refreshments & Receptions	\$23,000.00	\$0.00	\$23,000.00	\$15,336.00	\$7,899.61	-48.49%
04	0402	2	2040215	OTH GOV - Printing and Stationery	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
04	0402	2	2040223	OTH GOV - LGIS Risk Expenditure	\$15,200.00	\$0.00	\$15,200.00	\$10,136.00	\$7,589.81	-25.12%
04	0402	2	2040251	OTH GOV - Consultancy - Strategic	\$172,297.00	-\$19,997.00	\$152,300.00	\$101,536.00	\$8,280.00	-91.85%
04	0402	2	2040265	OTH GOV - Maintenance/Operations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
04	0402	2	2040286	OTH GOV - Expensed Minor Asset Purchases	\$10,000.00	\$0.00	\$10,000.00	\$6,664.00	\$290.00	-95.65%
04	0402	2	2040299	OTH GOV - Administration Allocated	\$414,900.00	\$49,500.00	\$464,400.00	\$309,600.00	\$249,909.27	-19.28%
Operating Expenditure Total					\$635,397.00	\$29,503.00	\$664,900.00	\$443,272.00	\$273,968.69	
04	0402	3	3040220	OTH GOV - Fees & Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
04	0402	3	3040235	OTH GOV - Other Income	-\$14,000.00	\$0.00	-\$14,000.00	-\$9,336.00	-\$12,079.34	29.38%
Operating Income Total					-\$14,000.00	\$0.00	-\$14,000.00	-\$9,336.00	-\$12,079.34	
Other Governance Total					\$635,397.00	\$29,503.00	\$664,900.00	\$443,272.00	\$261,889.35	
Governance Total					\$914,597.00	\$51,503.00	\$966,100.00	\$675,022.00	\$412,605.05	
05	0501	2	2050102	FIRE - Honorarium	\$1,500.00	\$0.00	\$1,500.00	\$0.00	\$0.00	
05	0501	2	2050120	FIRE - Communication Expenses	\$0.00	\$400.00	\$400.00	\$400.00	\$345.30	-13.68%
05	0501	2	2050130	FIRE - Insurance Expenses	\$1,600.00	\$0.00	\$1,600.00	\$1,064.00	\$1,500.00	40.98%
05	0501	2	2050165	FIRE - Maintenance/Operations	\$1,500.00	\$0.00	\$1,500.00	\$1,000.00	\$408.88	-59.11%
05	0501	2	2050185	FIRE - Legal Expenses	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$918.50	-44.80%
05	0501	2	2050187	FIRE - Other Expenditure						
05	0501	2	2050187 W0081	Fire Breaks	\$4,000.00	\$0.00	\$4,000.00	\$2,664.00	\$5,256.91	97.33%
05	0501	2	2050187 W0082	Fire Fightings	\$3,500.00	\$0.00	\$3,500.00	\$2,328.00	\$4,264.95	83.20%
05	0501	2	2050189	FIRE - Building Maintenance						
05	0501	2	2050189 BM070	Bush Fire Sheds Hines Hill - Building Maintenance	\$1,700.00	\$0.00	\$1,700.00	\$1,136.00	\$0.00	-100.00%
05	0501	2	2050189 BM071	Bush Fire Sheds Muntadgin - Building Maintenance	\$1,700.00	\$0.00	\$1,700.00	\$1,136.00	\$0.00	-100.00%

05	0501	2	2050192	FIRE - Depreciation	\$11,200.00	\$0.00	\$11,200.00	\$7,472.00	\$7,416.32	-0.75%
05	0501	2	2050199	FIRE - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total					\$132,900.00	\$400.00	\$133,300.00	\$88,000.00	\$82,588.17	
05	0501	3	3050135	FIRE - Other Income	-\$2,500.00	\$500.00	-\$2,000.00	-\$1,336.00	-\$3,972.16	197.32%
Operating Income Total					-\$2,500.00	\$500.00	-\$2,000.00	-\$1,336.00	-\$3,972.16	
Fire Prevention Total					\$128,900.00	\$500.00	\$129,400.00	\$86,264.00	\$78,616.01	
05	0502	2	2050200	ANIMAL - Employee Costs	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
05	0502	2	2050210	ANIMAL - Motor Vehicle Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
05	0502	2	2050212	ANIMAL - Animal Destruction	\$600.00	\$0.00	\$600.00	\$400.00	\$50.00	-87.50%
05	0502	2	2050216	ANIMAL - Contract Ranger Services	\$120,000.00	\$0.00	\$120,000.00	\$80,000.00	\$71,321.25	-10.85%
05	0502	2	2050220	ANIMAL - Communication Expenses	\$800.00	\$0.00	\$800.00	\$536.00	\$276.24	-48.46%
05	0502	2	2050285	ANIMAL - Legal Expenses	\$500.00	\$0.00	\$500.00	\$336.00	\$531.99	58.33%
05	0502	2	2050286	ANIMAL - Expensed Minor Asset Purchases	\$1,300.00	\$0.00	\$1,300.00	\$864.00	\$0.00	-100.00%
05	0502	2	2050287	ANIMAL - Other Expenditure	\$2,400.00	\$0.00	\$2,400.00	\$1,600.00	\$1,861.34	16.33%
05	0502	2	2050288	ANIMAL - Animal Pound Operations	\$1,000.00	\$500.00	\$1,500.00	\$1,000.00	\$870.18	-12.98%
05	0502	2	2050289	ANIMAL - Animal Pound Maintenance	\$1,000.00	-\$400.00	\$600.00	\$400.00	\$283.41	-29.15%
05	0502	2	2050292	ANIMAL - Depreciation	\$3,100.00	\$0.00	\$3,100.00	\$2,064.00	\$2,044.43	-0.95%
05	0502	2	2050299	ANIMAL - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total					\$235,400.00	\$100.00	\$235,500.00	\$157,000.00	\$139,716.15	
05	0502	3	3050220	ANIMAL - Pound Fees	-\$1,500.00	\$0.00	-\$1,500.00	-\$1,000.00	-\$1,349.10	34.91%
05	0502	3	3050221	ANIMAL - Animal Registration Fees	-\$6,500.00	\$0.00	-\$6,500.00	-\$4,336.00	-\$4,931.25	13.73%
05	0502	3	3050234	ANIMAL - Other Fees & Charges	-\$200.00	\$0.00	-\$200.00	-\$136.00	-\$50.91	-62.57%
05	0502	3	3050240	ANIMAL - Fines and Penalties	-\$500.00	-\$400.00	-\$900.00	-\$600.00	-\$1,355.80	125.97%
Operating Income Total					-\$8,700.00	-\$400.00	-\$9,100.00	-\$6,072.00	-\$7,687.06	
Animal Control Total					\$226,700.00	-\$300.00	\$226,400.00	\$150,928.00	\$132,029.09	
05	0503	2	2050300	OLOPS - Employee Costs	\$51,400.00	\$0.00	\$51,400.00	\$34,264.00	\$30,832.31	-10.02%
05	0503	2	2050311	OLOPS - CCTV Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$0.00	-100.00%
05	0503	2	2050330	OLOPS - Insurance Expenses	\$1,100.00	\$0.00	\$1,100.00	\$1,100.00	\$0.00	-100.00%
05	0503	2	2050352	OLOPS - Consultants	\$5,000.00	\$0.00	\$5,000.00	\$4,998.00	\$0.00	-100.00%
05	0503	2	2050392	OLOPS - Depreciation	\$5,400.00	\$0.00	\$5,400.00	\$3,600.00	\$3,550.71	-1.37%
05	0503	2	2050399	OLOPS - Administration Allocated	\$51,900.00	\$0.00	\$51,900.00	\$34,600.00	\$31,238.65	-9.71%
Operating Expenditure Total					\$119,800.00	\$0.00	\$119,800.00	\$81,898.00	\$65,621.67	
05	0503	3	3050310	OLOPS - Grants	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Operating Income Total					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Law, Order & Public Safety Total					\$119,800.00	\$0.00	\$119,800.00	\$81,898.00	\$65,621.67	
05	0505	2	2050507	ESL BFB - Clothing & Accessories	\$8,000.00	\$6,000.00	\$14,000.00	\$9,336.00	\$12,797.28	37.07%
05	0505	2	2050530	ESL BFB - Insurance Expenses	\$22,000.00	\$2,000.00	\$24,000.00	\$16,000.00	\$23,602.45	47.52%
05	0505	2	2050565	ESL BFB - Maintenance Plant & Equipment	\$7,000.00	-\$3,500.00	\$3,500.00	\$2,336.00	\$2,051.37	-12.18%
05	0505	2	2050566	ESL BFB - Maintenance Vehicles/Trailers/Boats	\$20,000.00	\$0.00	\$20,000.00	\$13,336.00	\$12,474.78	-6.46%
05	0505	2	2050569	ESL BFB - Plant & Equipment \$1,200 to \$5,000 per item	\$4,200.00	\$400.00	\$4,600.00	\$3,064.00	\$4,590.00	49.80%
05	0505	2	2050586	ESL BFB - Plant & Equipment < \$1,200 per item	\$3,000.00	\$4,900.00	\$7,900.00	\$5,264.00	\$5,591.96	6.23%
05	0505	2	2050587	ESL BFB - Other Goods and Services	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$891.02	-33.31%
05	0505	2	2050588	ESL BFB - Utilities, Rates & Taxes	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$1,674.11	0.61%
05	0505	2	2050589	ESL BFB - Maintenance Land & Buildings	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$1,010.38	1.04%
Operating Expenditure Total					\$69,200.00	\$10,300.00	\$79,500.00	\$53,336.00	\$64,683.35	
05	0505	3	3050502	ESL BFB - Admin Fee/Commissions	-\$4,000.00	\$0.00	-\$4,000.00	-\$4,000.00	-\$4,000.00	0.00%

05	0505	3	3050510	ESL BFB - Operating Grant	-\$69,200.00	\$1,840.00	-\$67,360.00	-\$44,904.00	-\$48,179.00	7.29%
Operating Income Total					-\$73,200.00	\$1,840.00	-\$71,360.00	-\$48,904.00	-\$52,179.00	
Emergency Services Levy - Bush Fire Brigade Total					-\$4,000.00	\$12,140.00	\$8,140.00	\$4,432.00	\$12,504.35	
05	0506	2	2050630	ESL SES - Insurances	\$1,000.00	\$0.00	\$1,000.00	\$1,000.00	\$936.95	-6.31%
05	0506	2	2050665	ESL SES - Maintenance Plant & Equipment	\$2,200.00	\$0.00	\$2,200.00	\$1,464.00	\$1,135.88	-22.41%
05	0506	2	2050666	ESL SES - Maintenance Vehicles/Trailers/Boats	\$4,000.00	\$0.00	\$4,000.00	\$2,664.00	\$1,281.16	-51.91%
05	0506	2	2050669	ESL SES - Plant & Equipment \$1,200 to \$5,000 per item	\$0.00	\$12,800.00	\$12,800.00	\$8,536.00	\$0.00	-100.00%
05	0506	2	2050686	ESL SES - Plant & Equipment < \$1,200 per item	\$1,100.00	\$0.00	\$1,100.00	\$736.00	\$0.00	-100.00%
05	0506	2	2050687	ESL SES - Other Goods and Services	\$1,200.00	\$0.00	\$1,200.00	\$800.00	\$1,018.95	27.37%
05	0506	2	2050688	ESL SES - Utilities, Rates & Taxes	\$4,500.00	\$0.00	\$4,500.00	\$3,000.00	\$2,139.35	-28.69%
05	0506	2	2050689	ESL SES - Maintenance Land & Buildings	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Operating Expenditure Total					\$14,000.00	\$12,800.00	\$26,800.00	\$18,200.00	\$6,512.29	
05	0506	3	3050610	ESL SES - Operating Grant	-\$14,000.00	-\$12,800.00	-\$26,800.00	-\$17,864.00	-\$20,100.75	12.52%
Operating Income Total					-\$14,000.00	-\$12,800.00	-\$26,800.00	-\$17,864.00	-\$20,100.75	
Emergency Services Levy - State Emergency Service Total					\$0.00	\$0.00	\$0.00	\$336.00	-\$13,588.46	
Law, Order & Public Safety Total					\$471,400.00	\$12,340.00	\$483,740.00	\$323,858.00	\$274,837.36	
07	0704	2	2070400	HEALTH - Employee Costs	\$144,300.00	\$0.00	\$144,300.00	\$96,900.00	\$93,671.01	-3.33%
07	0704	2	2070410	HEALTH - Motor Vehicle Expenses	\$11,000.00	\$0.00	\$11,000.00	\$7,336.00	\$10,086.67	37.50%
07	0704	2	2070412	HEALTH - Analytical Expenses	\$1,500.00	\$0.00	\$1,500.00	\$996.00	\$1,053.11	5.73%
07	0704	2	2070413	HEALTH - Control Expenses	\$4,000.00	\$1,000.00	\$5,000.00	\$3,336.00	\$2,993.74	-10.26%
07	0704	2	2070485	HEALTH - Legal Expenses	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
07	0704	2	2070487	HEALTH - Other Expenses	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
07	0704	2	2070492	HEALTH - Depreciation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
07	0704	2	2070499	HEALTH - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total					\$266,500.00	\$1,000.00	\$267,500.00	\$179,032.00	\$170,281.84	
07	0704	3	3070420	HEALTH - Health Regulatory Fees & Charges	-\$1,500.00	-\$150.00	-\$1,650.00	-\$1,432.00	-\$2,036.39	42.21%
07	0704	3	3070421	HEALTH - Health Regulatory Licenses	-\$9,500.00	\$0.00	-\$9,500.00	-\$6,336.00	-\$8,682.00	37.03%
Operating Income Total					-\$11,000.00	-\$150.00	-\$11,150.00	-\$7,768.00	-\$10,718.39	
Preventative Services - Inspection/Admin Total					\$255,500.00	\$850.00	\$256,350.00	\$171,264.00	\$159,563.45	
07	0705	2	2070553	PEST - Pest Control Programs	\$30,000.00	\$0.00	\$30,000.00	\$20,171.00	\$2,195.11	-89.12%
Operating Expenditure Total					\$30,000.00	\$0.00	\$30,000.00	\$20,171.00	\$2,195.11	
Preventative Services - Pest Control Total					\$30,000.00	\$0.00	\$30,000.00	\$20,171.00	\$2,195.11	
07	0706	2	2070687	PREV OTH - Other Expense	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
Operating Expenditure Total					\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	
Preventative Services - Other Total					\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	
Health Total					\$286,500.00	\$850.00	\$287,350.00	\$192,099.00	\$161,758.56	
08	0802	2	2080253	OTHER ED - Scholarships and Awards						
08	0802	2	2080253 W0120	Eric Hind Scholarship	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$1,000.00	50.60%
08	0802	2	2080253 W0121	Art Aquisition Award	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$1,000.00	50.60%
08	0802	2	2080287	OTHER ED - Other Expenses						
08	0802	2	2080287 W0263	REED	\$6,000.00	\$0.00	\$6,000.00	\$6,000.00	\$6,000.00	0.00%
08	0802	2	2080287 W0264	Merredin Chaplain (Merredin College)	\$3,000.00	\$0.00	\$3,000.00	\$3,000.00	\$0.00	-100.00%
08	0802	2	2080287 W0265	Lutheran Church	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
08	0802	2	2080290	OTHER ED - Donations to Community Groups	\$40,000.00	\$0.00	\$40,000.00	\$26,828.00	\$18,861.00	-29.70%
08	0802	2	2080291	OTHER ED - Loss on Disposal of Assets	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
08	0802	2	2080292	OTHER ED - Depreciation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Operating Expenditure Total				\$51,000.00	\$0.00	\$51,000.00	\$37,156.00	\$26,861.00		
08	0802	4	4080210	OTHER ED - Building (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Capital Expenditure Total				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Other Education Total				\$51,000.00	\$0.00	\$51,000.00	\$37,156.00	\$26,861.00		
08	0804	2	2080470	SENIORS - Loan Interest Repayments					\$15,009.17	
08	0804	2	2080470	LI215 Interest Loan 215	\$11,800.00	\$0.00	\$11,800.00	\$3,934.00	\$0.00	-100.00%
08	0804	2	2080470	LI217 Interest Loan 217	\$9,200.00	\$0.00	\$9,200.00	\$6,136.00	\$0.00	-100.00%
08	0804	2	2080492	SENIORS - Depreciation	\$35,900.00	\$0.00	\$35,900.00	\$23,936.00	\$21,912.54	-8.45%
Operating Expenditure Total				\$56,900.00	\$0.00	\$56,900.00	\$34,006.00	\$36,921.71		
08	0804	3	3080401	SENIORS - Reimbursements	-\$10,800.00	\$0.00	-\$10,800.00	-\$7,200.00	-\$5,600.89	-22.21%
Operating Income Total				-\$10,800.00	\$0.00	-\$10,800.00	-\$7,200.00	-\$5,600.89		
08	0804	4	4080482	SENIORS - Loan Principal Repayments					\$80,819.70	
08	0804	4	4080482	LP215 Principal Loan 215	\$36,800.00	\$0.00	\$36,800.00	\$0.00	\$0.00	
08	0804	4	4080482	LP217 Principal Loan 217	\$62,300.00	\$0.00	\$62,300.00	\$0.00	\$0.00	
Capital Expenditure Total				\$99,100.00	\$0.00	\$99,100.00	\$0.00	\$80,819.70		
08	0804	5	5080458	SENIORS - Self Supporting Loan Principal Received	-\$36,800.00	\$0.00	-\$36,800.00	-\$36,800.00	-\$18,192.48	-50.56%
Capital Income Total				-\$36,800.00	\$0.00	-\$36,800.00	-\$36,800.00	-\$18,192.48		
Aged & Disabled - Senior Citizens Centres Total				\$108,400.00	\$0.00	\$108,400.00	-\$9,994.00	\$93,948.04		
08	0807	2	2080712	WELFARE - Youth Events and Programs						
08	0807	2	2080712	W0140 Merredin Youth Activities	\$1,800.00	\$0.00	\$1,800.00	\$1,200.00	\$0.00	-100.00%
08	0807	2	2080712	W0147 Naidoc Week	\$3,000.00	-\$1,000.00	\$2,000.00	\$2,000.00	\$0.00	-100.00%
08	0807	2	2080712	W0147A Naidoc Week - Grant Funded	\$0.00	\$1,000.00	\$1,000.00	\$1,000.00	\$963.64	-3.64%
08	0807	2	2080714	WELFARE - Community Services						
08	0807	2	2080714	CD101 Community Development Events	\$700.00	\$0.00	\$700.00	\$472.00	\$0.00	-100.00%
08	0807	2	2080714	CD103 Anzac Day	\$1,400.00	\$0.00	\$1,400.00	\$0.00	\$39.25	
08	0807	2	2080714	CD103A Anzac Day - Grant Funded	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$0.00	-100.00%
08	0807	2	2080714	CD104 Australia Day	\$800.00	\$0.00	\$800.00	\$800.00	\$849.03	6.13%
08	0807	2	2080714	CD104A Australia Day - Grant Funded	\$10,000.00	\$0.00	\$10,000.00	\$10,000.00	\$8,283.13	-17.17%
08	0807	2	2080714	CD106 Christmas / Gala Night	\$22,000.00	\$0.00	\$22,000.00	\$14,664.00	\$24,279.74	65.57%
08	0807	2	2080714	CD106A Christmas / Gala Night - Grant Funded	\$5,000.00	-\$2,500.00	\$2,500.00	\$1,664.00	\$0.00	-100.00%
08	0807	2	2080714	CD109 Cd Equipment Replacement	\$2,000.00	\$0.00	\$2,000.00	\$1,665.00	\$24.09	-98.55%
08	0807	2	2080714	CD116 International Food Festival	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$0.00	-100.00%
08	0807	2	2080714	CD116A International Food Festival - Grant Funded	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$0.00	-100.00%
08	0807	2	2080714	CD123 Early Years Program	\$500.00	\$0.00	\$500.00	\$500.00	\$103.42	-79.32%
08	0807	2	2080714	CD126 Remembrance Day & Long Tan Day	\$1,500.00	\$0.00	\$1,500.00	\$1,500.00	\$819.34	-45.38%
08	0807	2	2080714	CD136 Merredin Show	\$2,500.00	\$0.00	\$2,500.00	\$0.00	\$0.00	
Operating Expenditure Total				\$57,700.00	-\$2,500.00	\$55,200.00	\$39,801.00	\$35,361.64		
08	0807	3	3080710	WELFARE - Youth Grants						
08	0807	3	3080710	CY1147 Naidoc Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
08	0807	3	3080711	WELFARE - Community Development Grants						
08	0807	3	3080711	CDI103 Anzac Day - Grant Funding	-\$2,500.00	\$0.00	-\$2,500.00	-\$1,672.00	\$0.00	-100.00%
08	0807	3	3080711	CDI104 Australia Day - Grant Funding	-\$10,000.00	\$0.00	-\$10,000.00	-\$6,664.00	-\$8,000.00	20.05%
08	0807	3	3080711	CDI106 Christmas / Gala Night - Grant Funding	-\$5,000.00	\$2,500.00	-\$2,500.00	-\$1,672.00	-\$2,500.00	49.52%
08	0807	3	3080711	CDI116 International Food Festival - Grant Funding	-\$2,000.00	\$0.00	-\$2,000.00	-\$1,336.00	\$0.00	-100.00%
Operating Income Total				-\$19,500.00	\$2,500.00	-\$17,000.00	-\$11,344.00	-\$10,500.00		
Other Welfare Total				\$38,200.00	\$0.00	\$38,200.00	\$28,457.00	\$24,861.64		

Education & Welfare Total				\$197,600.00	\$0.00	\$197,600.00	\$55,619.00	\$145,670.68		
09	0902	2	2090288	OTH HOUSE - Building Operations						
09	0902	2	2090288 BO030	House 16 Dobson Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,400.00	\$3,466.43	1.95%
09	0902	2	2090288 BO031	House 5 Dobson Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,628.00	\$3,079.81	-15.11%
09	0902	2	2090288 BO032	House 9 Cummings Cresent - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,592.00	\$4,379.45	21.92%
09	0902	2	2090288 BO033	House 13 Cummings Cresent - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,628.00	\$3,831.45	5.61%
09	0902	2	2090288 BO034	House 17 Cummings Cresent - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,392.00	\$2,004.63	-40.90%
09	0902	2	2090288 BO035	House 4 Cohn Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,392.00	\$3,015.15	-11.11%
09	0902	2	2090288 BO036	House 10 Cohn Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,392.00	\$1,538.63	-54.64%
09	0902	2	2090288 BO037	House 69A Coronation Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,400.00	\$1,815.24	-46.61%
09	0902	2	2090288 BO038	House 69B Coronation Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,400.00	\$1,905.40	-43.96%
09	0902	2	2090288 BO039	House 15A Carrington Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,400.00	\$1,827.53	-46.25%
09	0902	2	2090288 BO040	House 15B Carrington Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,400.00	\$2,551.32	-24.96%
09	0902	2	2090288 BO041	House 7 King Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,392.00	\$3,136.91	-7.52%
09	0902	2	2090288 BO042	House 44 Jackson Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,392.00	\$1,592.22	-53.06%
09	0902	2	2090288 BO043	House 51 French Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,392.00	\$1,730.49	-48.98%
09	0902	2	2090288 BO044	House 56 Kitchener Road - Building Operations	\$5,100.00	\$0.00	\$5,100.00	\$3,400.00	\$2,523.39	-25.78%
09	0902	2	2090288 BO050	Cummings Unit # 1 - Building Operations	\$3,400.00	\$0.00	\$3,400.00	\$2,728.00	\$1,042.75	-61.78%
09	0902	2	2090288 BO051	Cummings Unit # 2 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$1,042.75	-21.48%
09	0902	2	2090288 BO052	Cummings Unit # 3 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$1,042.75	-21.48%
09	0902	2	2090288 BO053	Cummings Unit # 4 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$1,042.75	-21.48%
09	0902	2	2090288 BO054	Cummings Unit # 5 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$1,042.75	-21.48%
09	0902	2	2090288 BO055	Cummings Units Common Area - Building Operations	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$2,379.99	79.22%
09	0902	2	2090288 BO056	Other Housing Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
09	0902	2	2090289	OTH HOUSE - Building Maintenance						
09	0902	2	2090289 BM030	House 16 Dobson Way - Building Maintenance	\$4,000.00	\$0.00	\$4,000.00	\$2,672.00	\$2,033.55	-23.89%
09	0902	2	2090289 BM031	House 5 Dobson Way - Building Maintenance	\$2,500.00	\$0.00	\$2,500.00	\$1,672.00	\$839.18	-49.81%
09	0902	2	2090289 BM032	House 9 Cummings Cresent - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$689.13	-79.34%
09	0902	2	2090289 BM033	House 13 Cummings Cresent - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$669.50	-79.93%
09	0902	2	2090289 BM034	House 17 Cummings Cresent - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$50.05	-98.50%
09	0902	2	2090289 BM035	House 4 Cohn Street - Building Maintenance	\$6,000.00	\$2,000.00	\$8,000.00	\$5,328.00	\$877.73	-83.53%
09	0902	2	2090289 BM036	House 10 Cohn Street - Building Maintenance	\$6,800.00	-\$3,800.00	\$3,000.00	\$2,000.00	\$0.00	-100.00%
09	0902	2	2090289 BM037	House 69A Coronation Street - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$220.81	-93.38%
09	0902	2	2090289 BM038	House 69B Coronation Street - Building Maintenance	\$3,000.00	\$0.00	\$3,000.00	\$2,000.00	\$0.00	-100.00%
09	0902	2	2090289 BM039	House 15A Carrington Way - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$719.36	-46.16%
09	0902	2	2090289 BM040	House 15B Carrington Way - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$0.00	-100.00%
09	0902	2	2090289 BM041	House 7 King Street - Building Maintenance	\$2,800.00	\$0.00	\$2,800.00	\$1,864.00	\$6,305.39	238.27%
09	0902	2	2090289 BM042	House 44 Jackson Way - Building Maintenance	\$12,000.00	-\$6,000.00	\$6,000.00	\$4,000.00	\$0.00	-100.00%
09	0902	2	2090289 BM043	House 51 French Street - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$3,328.00	\$0.00	-100.00%
09	0902	2	2090289 BM044	House 56 Kitchener Road - Building Maintenance	\$6,000.00	\$0.00	\$6,000.00	\$4,000.00	\$4,176.87	4.42%
09	0902	2	2090289 W0245	Housing Maintenance	\$7,700.00	\$0.00	\$7,700.00	\$5,136.00	\$0.00	-100.00%
09	0902	2	2090292	OTH HOUSE - Depreciation	\$165,800.00	\$0.00	\$165,800.00	\$110,536.00	\$111,306.74	0.70%
09	0902	2	2090299	OTH HOUSE - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total				\$439,200.00	-\$7,800.00	\$431,400.00	\$288,656.00	\$236,357.41		
09	0902	3	3090201	OTH HOUSE - Shire Housing Rental Reimbursements	-\$30,000.00	\$2,000.00	-\$28,000.00	-\$18,664.00	-\$24,410.84	30.79%
09	0902	3	3090235	OTH HOUSE - Other Income	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Operating Income Total				-\$30,000.00	\$2,000.00	-\$28,000.00	-\$18,664.00	-\$24,410.84	
09	0902	4	4090210	OTH HOUSE - Building (Capital)					
09	0902	4	4090210 BC030	House 16 Dobson Way - Building (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
09	0902	4	4090210 BC032	House 9 Cummings Cresent - Building (Capital)	\$12,300.00	\$0.00	\$12,300.00	\$12,300.00	\$9,590.00 -22.03%
09	0902	4	4090210 BC033	House 13 Cummings Cresent - Building (Capital)	\$0.00	\$17,000.00	\$17,000.00	\$17,000.00	\$0.00 -100.00%
09	0902	4	4090210 BC036	House 10 Cohn Street - Building (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
09	0902	4	4090210 BC035	House 4 Cohn Street - Building (Capital)	\$4,500.00	\$0.00	\$4,500.00	\$0.00	\$3,766.00
09	0902	4	4090210 BC048	Future Housing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
09	0902	4	4090211 BC048	OTH HOUSING - Land (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Capital Expenditure Total				\$16,800.00	\$17,000.00	\$33,800.00	\$29,300.00	\$13,356.00	
Other Housing Total				\$426,000.00	\$11,200.00	\$437,200.00	\$299,292.00	\$225,302.57	
09	0903	2	2090389	COM HOUSE - Building Maintenance					
09	0903	2	2090389 BM050	Cummings Unit # 1 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$363.24 -72.65%
09	0903	2	2090389 BM051	Cummings Unit # 2 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$613.20 -53.83%
09	0903	2	2090389 BM052	Cummings Unit # 3 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$1,456.33 9.66%
09	0903	2	2090389 BM053	Cummings Unit # 4 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$0.00 -100.00%
09	0903	2	2090389 BM054	Cummings Unit # 5 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$1,263.00 -4.89%
09	0903	2	2090389 BM055	Cummings Units Common Area - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$7,050.05 430.88%
Operating Expenditure Total				\$12,000.00	\$0.00	\$12,000.00	\$7,968.00	\$10,745.82	
09	0903	3	3090301	COM HOUSE - Cummings Rental Reimbursements	-\$15,000.00	-\$2,000.00	-\$17,000.00	-\$11,336.00	-\$27,339.50 141.17%
Operating Income Total				-\$15,000.00	-\$2,000.00	-\$17,000.00	-\$11,336.00	-\$27,339.50	
Community Housing Total				-\$3,000.00	-\$2,000.00	-\$5,000.00	-\$3,368.00	-\$16,593.68	
Housing Total				\$423,000.00	\$9,200.00	\$432,200.00	\$295,924.00	\$208,708.89	
10	1001	2	2100111	SAN - Waste Collection	\$391,600.00	\$0.00	\$391,600.00	\$261,064.00	\$262,281.22 0.47%
10	1001	2	2100113	SAN - Waste Recycling	\$110,500.00	\$5,000.00	\$115,500.00	\$77,000.00	\$74,618.28 -3.09%
10	1001	2	2100117	SAN - General Tip Maintenance					
10	1001	2	2100117 W0075	Merredin Landfill Site	\$405,900.00	\$60,000.00	\$465,900.00	\$310,592.00	\$310,904.49 0.10%
10	1001	2	2100117 W0076	Muntagin Landfill Site	\$3,000.00	\$0.00	\$3,000.00	\$3,000.00	\$1,000.00 -66.67%
10	1001	2	2100187	SAN - Other Expenses	\$63,200.00	\$0.00	\$63,200.00	\$0.00	\$0.00
10	1001	2	2100188	SAN - Building Operations	\$2,600.00	\$0.00	\$2,600.00	\$1,736.00	\$90.00 -94.82%
10	1001	2	2100192	SAN - Depreciation	\$1,800.00	\$0.00	\$1,800.00	\$1,200.00	\$27,015.71 2151.31%
10	1001	2	2100199	SAN - Administration Allocated	\$155,600.00	\$0.00	\$155,600.00	\$103,736.00	\$93,715.98 -9.66%
Operating Expenditure Total				\$1,134,200.00	\$65,000.00	\$1,199,200.00	\$758,328.00	\$769,625.68	
10	1001	3	3100100	SAN - Contributions & Donations	-\$97,800.00	\$0.00	-\$97,800.00	-\$65,200.00	-\$97,538.00 49.60%
10	1001	3	3100110	SAN - Grants	-\$75,700.00	\$0.00	-\$75,700.00	-\$50,464.00	-\$75,680.00 49.97%
10	1001	3	3100120	SAN - Domestic Refuse Collection Charges	-\$341,000.00	-\$10,700.00	-\$351,700.00	-\$351,700.00	-\$350,877.84 -0.23%
10	1001	3	3100125	SAN - Domestic Recycling Service	-\$110,100.00	-\$9,900.00	-\$120,000.00	-\$120,000.00	-\$123,747.90 3.12%
10	1001	3	3100135	SAN - Other Income	-\$85,000.00	\$35,000.00	-\$50,000.00	-\$33,336.00	-\$25,218.07 -24.35%
Operating Income Total				-\$709,600.00	\$14,400.00	-\$695,200.00	-\$620,700.00	-\$673,061.81	
10	1001	4	4100110	SAN - Building (Capital)					
10	1001	4	4100110 LC041	Merredin Landfill - Tip Shop	\$15,000.00	\$0.00	\$15,000.00	\$12,500.00	\$0.00 -100.00%
10	1001	4	4100180 LC002	E-Waste Recycling & Re-Use Facility	\$105,000.00	\$0.00	\$105,000.00	\$70,000.00	\$35,475.06 -49.32%
Capital Expenditure Total				\$120,000.00	\$0.00	\$120,000.00	\$82,500.00	\$35,475.06	-\$1.49
Sanitation - General Total				\$439,600.00	\$79,400.00	\$519,000.00	\$150,128.00	\$96,563.87	
10	1004	2	2100411	STORM - Stormwater Drainage Maintenance	\$68,600.00	\$0.00	\$68,600.00	\$45,728.00	\$4,225.31 -90.76%
Operating Expenditure Total				\$68,600.00	\$0.00	\$68,600.00	\$45,728.00	\$4,225.31	

Urban Stormwater Drainage Total				\$68,600.00	\$0.00	\$68,600.00	\$45,728.00	\$4,225.31		
10	1005	2	2100550	ENVIRON - Contract Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
10	1005	2	2100587	ENVIRON - Other Expenses						
10	1005	2	2100587 W0101	Ep General	\$6,000.00	\$0.00	\$6,000.00	\$3,992.00	\$1,910.49	-52.14%
10	1005	2	2100587 W0109	Ep Promoting Electric Vehicles Viability	\$0.00	\$400.00	\$400.00	\$400.00	\$160.00	-60.00%
10	1005	2	2100587 W0115	Ep Skeleton Weed	\$1,700.00	\$0.00	\$1,700.00	\$1,136.00	\$0.00	-100.00%
10	1005	2	2100599	ENVIRON - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	\$51,864.00	\$46,857.99	-9.65%
Operating Expenditure Total				\$85,500.00	\$400.00	\$85,900.00	\$57,392.00	\$48,928.48		
Protection Of The Environment Total				\$85,500.00	\$400.00	\$85,900.00	\$57,392.00	\$48,928.48		
10	1006	2	2100600	PLAN - Employee Costs	\$31,900.00	\$0.00	\$31,900.00	\$21,436.00	\$21,847.77	1.92%
10	1006	2	2100610	PLAN - Motor Vehicle Expenses	\$3,300.00	\$0.00	\$3,300.00	\$2,200.00	\$3,742.15	70.10%
10	1006	2	2100652	PLAN - Consultants	\$30,000.00	\$0.00	\$30,000.00	\$20,000.00	\$29,865.00	49.33%
10	1006	2	2100687	PLAN - Other Expenses	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$0.00	-100.00%
10	1006	2	2100699	PLAN - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total				\$173,900.00	\$0.00	\$173,900.00	\$116,108.00	\$117,932.23		
10	1006	3	3100620	PLAN - Planning Application Fees	-\$10,000.00	\$0.00	-\$10,000.00	-\$6,664.00	-\$63,659.32	855.27%
10	1006	3	3100635	PLAN - Other Income	\$0.00	\$0.00	\$0.00	\$0.00	-\$272.73	
Operating Income Total				-\$10,000.00	\$0.00	-\$10,000.00	-\$6,664.00	-\$63,932.05		
Town Planning & Regional Development Total				\$163,900.00	\$0.00	\$163,900.00	\$109,444.00	\$54,000.18		
10	1007	2	2100711	COM AMEN - Cemetery Burials	\$17,800.00	\$0.00	\$17,800.00	\$11,872.00	\$6,077.40	-48.81%
10	1007	2	2100788	COM AMEN - Public Conveniences Operations						
10	1007	2	2100788 BO060	Public Cons Barrack Street - Building Operations	\$20,000.00	\$0.00	\$20,000.00	\$13,328.00	\$17,502.72	31.32%
10	1007	2	2100788 BO061	Public Cons Apex Park - Building Operations	\$16,000.00	\$0.00	\$16,000.00	\$10,736.00	\$14,831.70	38.15%
10	1007	2	2100789	COM AMEN - Public Conveniences Maintenance						
10	1007	2	2100789 BM060	Public Cons Barrack Street - Building Maintenance	\$11,000.00	\$0.00	\$11,000.00	\$7,328.00	\$7,116.52	-2.89%
10	1007	2	2100789 BM061	Public Cons Apex Park - Building Maintenance	\$6,000.00	\$0.00	\$6,000.00	\$4,000.00	\$560.55	-85.99%
10	1007	2	2100792	COM AMEN - Depreciation	\$119,300.00	\$0.00	\$119,300.00	\$79,536.00	\$18,278.74	-77.02%
10	1007	2	2100799	COM AMEN - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	\$51,864.00	\$46,857.99	-9.65%
Operating Expenditure Total				\$267,900.00	\$0.00	\$267,900.00	\$178,664.00	\$111,225.62		
10	1007	3	3100720	COM AMEN - Cemetery Fees (Burial)	-\$20,600.00	\$8,600.00	-\$12,000.00	-\$8,000.00	-\$7,688.33	-3.90%
10	1007	3	3100721	COM AMEN - Cemetery Fees (Niche Wall & Rose Garden)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
10	1007	3	3100722	COM AMEN - Cemetery Fees (Monuments)	-\$100.00	-\$300.00	-\$400.00	-\$264.00	-\$417.00	57.95%
Operating Income Total				-\$20,700.00	\$8,300.00	-\$12,400.00	-\$8,264.00	-\$8,105.33		
10	1007	4	4100770	COM AMEN - Infrastructure Parks & Ovals (Capital)						
10	1007	4	4100770 CC001	Merredin Cemetery Fencing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Capital Expenditure Total				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Other Community Amenities Total				\$247,200.00	\$8,300.00	\$255,500.00	\$170,400.00	\$103,120.29		
Community Amenities Total				\$1,109,800.00	\$88,100.00	\$1,197,900.00	\$603,092.00	\$342,313.19		
11	1101	2	2110187	HALLS - Other Expenses						
11	1101	2	2110187 W0100	Art Collection Mtce	\$1,500.00	\$0.00	\$1,500.00	\$0.00	\$0.00	
11	1101	2	2110188	HALLS - Town Halls and Public Bldg Operations						
11	1101	2	2110188 BO005	Old Administration Building - Building Operations	\$13,200.00	\$0.00	\$13,200.00	\$8,800.00	\$5,499.24	-37.51%
11	1101	2	2110188 BO006	Womens Rest Centre - Building Operations	\$1,200.00	\$0.00	\$1,200.00	\$800.00	\$809.64	1.21%
11	1101	2	2110188 BO007	Old Town Hall - Building Operations	\$2,500.00	\$100.00	\$2,600.00	\$1,736.00	\$2,318.93	33.58%
11	1101	2	2110188 BO008	Army Cadets Building - Building Operations	\$1,000.00	\$0.00	\$1,000.00	\$667.00	\$646.03	-3.14%
11	1101	2	2110188 BO009	Senior Citizens Centres - Building Operations	\$2,800.00	\$0.00	\$2,800.00	\$1,842.00	\$2,617.89	42.12%

11	1101 2	2110188	BO011	One Night Shelter - Building Operations	\$200.00	\$400.00	\$600.00	\$600.00	\$424.50	-29.25%
11	1101 2	2110188	BO012	Fine Arts Society (Old Lib Building) - Building Operations	\$1,500.00	-\$100.00	\$1,400.00	\$936.00	\$1,355.67	44.84%
11	1101 2	2110188	BO013	Throssel Street (Playgroup) - Building Operations	\$700.00	\$0.00	\$700.00	\$464.00	\$385.29	-16.96%
11	1101 2	2110188	BO083	Nmpc Room 9 Community Room, (Old School Library) - Bu	\$2,000.00	\$0.00	\$2,000.00	\$1,666.00	\$0.00	-100.00%
11	1101 2	2110188	BO084	Nmps Playgroup - Building Operations	\$700.00	\$150.00	\$850.00	\$850.00	\$650.00	-23.53%
11	1101 2	2110188	BO085	Lutheran Church	\$800.00	\$0.00	\$800.00	\$536.00	\$290.72	-45.76%
11	1101 2	2110189		HALLS - Town Halls and Public Bldg Maintenance						
11	1101 2	2110189	BM005	Old Administration Building - Building Maintenance	\$7,000.00	\$0.00	\$7,000.00	\$4,672.00	\$287.86	-93.84%
11	1101 2	2110189	BM006	Womens Rest Centre - Building Maintenance	\$5,400.00	\$0.00	\$5,400.00	\$3,600.00	\$147.86	-95.89%
11	1101 2	2110189	BM007	Old Town Hall - Building Maintenance	\$8,000.00	\$0.00	\$8,000.00	\$5,336.00	\$1,099.26	-79.40%
11	1101 2	2110189	BM008	Army Cadets Building - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$147.86	-88.93%
11	1101 2	2110189	BM009	Senior Citizens Centres - Building Maintenance	\$6,000.00	\$0.00	\$6,000.00	\$4,000.00	\$171.87	-95.70%
11	1101 2	2110189	BM010	Muntadgin Hall - Building Maintenance	\$10,000.00	\$0.00	\$10,000.00	\$6,672.00	\$147.86	-97.78%
11	1101 2	2110189	BM011	One Night Shelter - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$104.55	-84.25%
11	1101 2	2110189	BM012	Fine Arts Society (Old Lib Building) - Building Maintenance	\$4,000.00	\$1,000.00	\$5,000.00	\$3,328.00	\$6,277.21	88.62%
11	1101 2	2110189	BM015	Burracoppin Hall - Building Maintenance	\$4,000.00	\$0.00	\$4,000.00	\$2,664.00	\$147.86	-94.45%
11	1101 2	2110189	BM079	Nmps Redevelopment - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
11	1101 2	2110189	BM080	Nmpc Room 6 Archives - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
11	1101 2	2110189	BM081	Nmps Room 7 Meeting Room - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
11	1101 2	2110189	BM082	Nmps Room 8 Wildflower Society Room - Building Mainte	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
11	1101 2	2110189	BM083	Nmps Room 9 Community Room, (Old School Library) - Bu	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
11	1101 2	2110189	BM084	Nmps Playgroup - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$1,065.62	60.48%
11	1101 2	2110189	BM085	Nmps Common Areas	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$147.86	-77.73%
11	1101 2	2110190		HALLS - Asbestos management Plan Implementation	\$5,000.00	\$0.00	\$5,000.00	\$1,666.00	\$0.00	-100.00%
11	1101 2	2110192		HALLS - Depreciation	\$84,000.00	\$0.00	\$84,000.00	\$56,000.00	\$56,373.85	0.67%
11	1101 2	2110199		HALLS - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	\$51,864.00	\$46,857.99	-9.65%
Operating Expenditure Total					\$249,300.00	\$1,550.00	\$250,850.00	\$165,347.00	\$127,975.42	
11	1101 3	3110110		HALLS - Grants	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1101 3	3110121		HALLS - Local Hall Hire	-\$3,500.00	\$0.00	-\$3,500.00	-\$2,336.00	-\$4,287.92	83.56%
11	1101 3	3110122		HALLS - Lease/Rental Income	-\$1,300.00	\$0.00	-\$1,300.00	-\$864.00	\$0.00	-100.00%
11	1101 3	3110135		HALLS - Other Income	-\$21,000.00	\$0.00	-\$21,000.00	-\$14,000.00	-\$15,235.43	8.82%
Operating Income Total					-\$25,800.00	\$0.00	-\$25,800.00	-\$17,200.00	-\$19,523.35	
11	1101 4	4110110		HALLS - Building (Capital)						
11	1101 4	4110110	BC005	Old Administration Building - Building (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1101 4	4110110	BC006	Womens Rest Centre - Building (Capital)	\$8,000.00	\$0.00	\$8,000.00	\$0.00	\$12,575.08	
Capital Expenditure Total					\$8,000.00	\$0.00	\$8,000.00	\$0.00	\$12,575.08	
Public Halls And Civic Centres Total					\$223,500.00	\$1,550.00	\$225,050.00	\$148,147.00	\$108,452.07	
11	1102 2	2110200		SWIM AREAS - Employee Costs	\$154,900.00	\$49,500.00	\$204,400.00	\$136,964.00	\$130,924.75	-4.41%
11	1102 2	2110201		SWIM AREAS - Unrecognised Staff Liabilities	\$18,000.00	\$1,500.00	\$19,500.00	\$19,500.00	\$19,435.87	-0.33%
11	1102 2	2110203		SWIM AREAS - Uniforms	\$400.00	\$0.00	\$400.00	\$400.00	\$394.50	-1.38%
11	1102 2	2110204		SWIM AREAS - Training & Conferences	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$650.82	-51.29%
11	1102 2	2110288		SWIM AREAS - Building Operations						
11	1102 2	2110288	BO020	Swimming Pool - Building Operations	\$50,000.00	\$0.00	\$50,000.00	\$33,328.00	\$40,503.95	21.53%
11	1102 2	2110289		SWIM AREAS - Building Maintenance						
11	1102 2	2110289	BM020	Swimming Pool - Building Maintenance	\$20,000.00	\$0.00	\$20,000.00	\$13,328.00	\$6,723.16	-49.56%
11	1102 2	2110292		SWIM AREAS - Depreciation	\$77,200.00	\$0.00	\$77,200.00	\$51,472.00	\$17,811.88	-65.40%

11	1102 2	2110299	SWIM AREAS - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total				\$426,200.00	\$51,000.00	\$477,200.00	\$325,464.00	\$278,922.24	
11	1102 3	3110220	SWIM AREAS - Admissions	-\$35,000.00	\$0.00	-\$35,000.00	-\$23,336.00	-\$33,719.84	44.50%
Operating Income Total				-\$35,000.00	\$0.00	-\$35,000.00	-\$23,336.00	-\$33,719.84	
11	1102 4	4110290	SWIM AREAS - Infrastructure Other (Capital)						
11	1102 4	4110290 SC041	Pool Bowl	\$20,000.00	-\$15,000.00	\$5,000.00	\$3,336.00	\$0.00	-100.00%
11	1102 4	4110290 SC042	Pool - Septic System	\$0.00	\$15,000.00	\$15,000.00	\$15,000.00	\$11,900.00	-20.67%
11	1102 4	4110290 SC043	Pool - Filtration System	\$0.00	\$15,000.00	\$15,000.00	\$10,000.00	\$11,736.40	17.36%
Capital Expenditure Total				\$20,000.00	\$15,000.00	\$35,000.00	\$28,336.00	\$23,636.40	-\$1.03
Swimming Areas And Beaches Total				\$411,200.00	\$36,000.00	\$447,200.00	\$305,464.00	\$245,202.40	
11	1103 2	2110300	REC - Employee Costs	\$0.00	\$302,230.00	\$302,230.00	\$302,230.00	\$54,441.59	-81.99%
11	1103 2	2110304	REC - Training & Conferences	\$0.00	\$2,000.00	\$2,000.00	\$2,000.00	\$1,991.00	-0.45%
11	1103 2	2110330	REC - Insurance Expenses	\$48,400.00	\$6,000.00	\$54,400.00	\$54,400.00	\$54,365.61	-0.06%
11	1103 2	2110352	REC - Management Contract MRCLC	\$98,400.00	\$0.00	\$98,400.00	\$65,600.00	\$65,564.00	-0.05%
11	1103 2	2110353	REC - MRCLC	\$450,000.00	-\$317,230.00	\$132,770.00	\$88,512.00	\$13,793.76	-84.42%
11	1103 2	2110354	REC - MRCLC Initial Maintenance and Repairs	\$0.00	\$105,000.00	\$105,000.00	\$104,999.00	\$70,419.55	-32.93%
11	1103 2	2110355	REC - MRCLC - Building Operations	\$0.00	\$23,000.00	\$23,000.00	\$23,000.00	\$11,306.36	-50.84%
11	1103 2	2110356	REC - MRCLC - Building Maintenance	\$0.00	\$21,500.00	\$21,500.00	\$14,336.00	\$3,295.81	-77.01%
11	1103 2	2110365	REC - Parks & Gardens Maintenance/Operations						
11	1103 2	2110365 W0001	Apex Park	\$41,800.00	-\$2,000.00	\$39,800.00	\$26,528.00	\$40,144.73	51.33%
11	1103 2	2110365 W0002	Roy Little Park	\$117,100.00	-\$4,500.00	\$112,600.00	\$75,064.00	\$57,844.90	-22.94%
11	1103 2	2110365 W0003	Great Eastern Highway Gardens	\$79,100.00	\$0.00	\$79,100.00	\$52,064.00	\$44,097.96	-15.30%
11	1103 2	2110365 W0004	Lenihan Park	\$4,400.00	\$2,500.00	\$6,900.00	\$4,574.00	\$8,092.05	76.91%
11	1103 2	2110365 W0005	Upper French Ave Park	\$11,000.00	\$0.00	\$11,000.00	\$7,336.00	\$8,304.18	13.20%
11	1103 2	2110365 W0006	Mary Street Park	\$5,100.00	\$0.00	\$5,100.00	\$3,362.00	\$2,625.06	-21.92%
11	1103 2	2110365 W0007	Barrack Street Park	\$59,400.00	-\$1,000.00	\$58,400.00	\$38,928.00	\$56,142.40	44.22%
11	1103 2	2110365 W0008	Railway Dam	\$800.00	\$1,000.00	\$1,800.00	\$1,194.00	\$3,221.31	169.79%
11	1103 2	2110365 W0009	Merritville Gardens	\$0.00	\$0.00	\$0.00	\$0.00	\$116.55	
11	1103 2	2110365 W0010	Memorial Park Gardens	\$10,200.00	\$0.00	\$10,200.00	\$6,800.00	\$7,538.63	10.86%
11	1103 2	2110365 W0011	Fifth Street Gardens	\$500.00	\$0.00	\$500.00	\$328.00	\$2,575.81	685.31%
11	1103 2	2110365 W0012	Lower French Avenue Gardens	\$12,350.00	\$0.00	\$12,350.00	\$8,224.00	\$9,887.77	20.23%
11	1103 2	2110365 W0013	Admin Centre Gardens	\$40,950.00	\$0.00	\$40,950.00	\$27,288.00	\$36,948.74	35.40%
11	1103 2	2110365 W0014	Old Administration Buildings Gardens	\$13,050.00	-\$2,000.00	\$11,050.00	\$7,368.00	\$2,771.07	-62.39%
11	1103 2	2110365 W0015	Library Gardens	\$5,900.00	\$0.00	\$5,900.00	\$3,928.00	\$4,102.49	4.44%
11	1103 2	2110365 W0016	Gamenya Avenue Gardens	\$1,100.00	\$1,000.00	\$2,100.00	\$1,392.00	\$2,060.83	48.05%
11	1103 2	2110365 W0017	Burracoppin Townsite	\$15,000.00	\$3,000.00	\$18,000.00	\$12,008.00	\$32,433.90	170.10%
11	1103 2	2110365 W0018	Muntagin Townsite	\$8,100.00	\$0.00	\$8,100.00	\$5,392.00	\$0.00	-100.00%
11	1103 2	2110365 W0019	Hines Hill Townsite	\$4,200.00	\$0.00	\$4,200.00	\$2,792.00	\$543.56	-80.53%
11	1103 2	2110365 W0020	South Avenue Gardens	\$6,600.00	\$0.00	\$6,600.00	\$4,392.00	\$4,095.15	-6.76%
11	1103 2	2110365 W0021	Railway Oval	\$2,600.00	\$0.00	\$2,600.00	\$1,744.00	\$432.00	-75.23%
11	1103 2	2110365 W0022	Bates Street Carpark Gardens	\$1,950.00	\$0.00	\$1,950.00	\$1,296.00	\$1,572.19	21.31%
11	1103 2	2110365 W0023	Pioneer Park Gardens	\$26,500.00	\$0.00	\$26,500.00	\$17,664.00	\$26,021.82	47.32%
11	1103 2	2110365 W0024	Railway Museum Gardens	\$8,900.00	\$0.00	\$8,900.00	\$5,928.00	\$5,305.94	-10.49%
11	1103 2	2110365 W0025	Merredin Peak	\$14,900.00	\$0.00	\$14,900.00	\$9,932.00	\$6,801.10	-31.52%
11	1103 2	2110365 W0026	Dog Park	\$9,400.00	\$0.00	\$9,400.00	\$6,272.00	\$4,291.10	-31.58%
11	1103 2	2110365 W0030	Independent Water Supply	\$98,350.00	\$0.00	\$98,350.00	\$65,568.00	\$63,053.99	-3.83%

11	1103	2	2110365	W0031	Swimming Pool Gardens	\$8,500.00	\$0.00	\$8,500.00	\$5,700.00	\$4,499.46	-21.06%
11	1103	2	2110365	W0032	Pioneer Cemetery Gardens	\$1,900.00	\$0.00	\$1,900.00	\$1,250.00	\$11,680.30	834.42%
11	1103	2	2110365	W0033	Cemetery Gardens	\$80,400.00	\$0.00	\$80,400.00	\$53,424.00	\$68,141.67	27.55%
11	1103	2	2110365	W0034	Parks & Gardens Minor Tools	\$7,500.00	\$0.00	\$7,500.00	\$5,000.00	\$6,658.52	33.17%
11	1103	2	2110365	W0035	Other Parks & Gardens	\$4,800.00	\$0.00	\$4,800.00	\$3,192.00	\$4,629.58	45.04%
11	1103	2	2110365	W0036	Bates Street (Adjacent To Dog Park)	\$150.00	\$350.00	\$500.00	\$446.00	\$755.44	69.38%
11	1103	2	2110366		REC - Town Oval Maintenance/Operations						
11	1103	2	2110366	W0027	Merredin Rec Centre Oval	\$72,000.00	\$0.00	\$72,000.00	\$48,000.00	\$43,008.88	-10.40%
11	1103	2	2110366	W0028	Merredin Rec Centre Oval	\$13,000.00	\$0.00	\$13,000.00	\$8,672.00	\$28,048.56	223.44%
11	1103	2	2110366	W0029	Merredin Rec Others	\$62,000.00	\$0.00	\$62,000.00	\$41,336.00	\$36,173.32	-12.49%
11	1103	2	2110370		REC - Loan Interest Repayments	\$33,600.00	\$0.00	\$33,600.00	\$33,600.00	\$0.00	-100.00%
11	1103	2	2110387		REC - Other Expenses						
11	1103	2	2110387	W0160	Operating Expenses	\$21,500.00	\$0.00	\$21,500.00	\$18,875.00	\$10,003.92	-47.00%
11	1103	2	2110387	W0170	Equipment Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1103	2	2110388	W0090	Merredin Recreation Centre Outside Contract	\$10,000.00	-\$9,500.00	\$500.00	\$336.00	\$3,115.38	827.20%
11	1103	2	2110389		REC - Other Rec Facilities Building Maintenance	\$42,000.00	-\$20,000.00	\$22,000.00	\$14,664.00	\$18,402.89	25.50%
11	1103	2	2110392		REC - Depreciation	\$912,200.00	\$0.00	\$912,200.00	\$608,136.00	\$633,089.25	4.10%
11	1103	2	2110399		REC - Administration Allocated	\$51,900.00	\$0.00	\$51,900.00	\$34,600.00	\$31,238.65	-9.71%
Operating Expenditure Total						\$2,517,500.00	\$111,350.00	\$2,628,850.00	\$1,929,674.00	\$1,605,648.73	
11	1103	3	3110310		REC - Grants	\$0.00	-\$2,100,061.00	-\$2,100,061.00	-\$700,020.00	\$0.00	-100.00%
11	1103	3	3110313		REC - Grants - LRCI	-\$1,721,200.00	-\$402,867.00	-\$2,124,067.00	\$0.00	\$0.00	
11	1103	3	3110314		REC - Grants - BBRF	-\$1,520,400.00	\$0.00	-\$1,520,400.00	\$0.00	\$0.00	
11	1103	3	3110315		REC - Other Capital Contributions	-\$336,400.00	-\$237,670.00	-\$574,070.00	-\$574,070.00	\$0.00	-100.00%
11	1103	3	3110335		REC - Other Income	\$0.00	-\$6,000.00	-\$6,000.00	-\$4,000.00	-\$3,121.43	-21.96%
Operating Income Total						-\$3,578,000.00	-\$2,746,598.00	-\$6,324,598.00	-\$1,278,090.00	-\$3,121.43	
11	1103	4	4110310		REC - Other Rec Facilities Building (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1103	4	4110330		REC - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1103	4	4110370		REC - Infrastructure Parks & Gardens (Capital)						
11	1103	4	4110370	PC001	Apex Park Revitalisation	\$2,021,200.00	\$2,364,985.00	\$4,386,185.00	\$1,462,062.00	\$52,240.05	-96.43%
11	1103	4	4110370	PC007	Cbd Redevelopment	\$3,050,400.00	\$330,943.00	\$3,381,343.00	\$2,817,785.00	\$43,807.46	-98.45%
11	1103	4	4110370	PC030A	Independent Water Supply Cemetery & Evap Reduction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1103	4	4110370	PC036	Cbd Redevelopment - Visitor Centre Relocation	\$450,000.00	-\$80,000.00	\$370,000.00	\$308,335.00	\$416.00	-99.87%
11	1103	4	4110370	PC041	Water Tower Refurbishments	\$351,100.00	\$228,900.00	\$580,000.00	\$579,999.00	\$0.00	-100.00%
11	1103	4	4110370	PC042	Playground Shades	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1103	4	4110370	PC043	Replace Softfall - Mrclc Playground	\$30,000.00	\$0.00	\$30,000.00	\$25,000.00	\$0.00	-100.00%
11	1103	4	4110370	PC101	Basketball Rings - Rec Centre	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1103	4	4110380		REC - Loan Principal Repayments	\$55,800.00	\$0.00	\$55,800.00	\$55,800.00	\$0.00	-100.00%
Capital Expenditure Total						\$5,958,500.00	\$2,844,828.00	\$8,803,328.00	\$5,248,981.00	\$96,463.51	
11	1103	5	5110355		REC - New Loan Borrowings	-\$1,480,000.00	\$0.00	-\$1,480,000.00	-\$1,480,000.00	-\$1,480,000.00	0.00%
Capital Income Total						-\$1,480,000.00	\$0.00	-\$1,480,000.00	-\$1,480,000.00	-\$1,480,000.00	
Other Recreation And Sport Total						\$3,418,000.00	\$209,580.00	\$3,627,580.00	\$4,420,565.00	\$218,990.81	
11	1105	2	2110500		LIBRARY - Employee Costs	\$173,400.00	\$0.00	\$173,400.00	\$116,536.00	\$96,423.49	-17.26%
11	1105	2	2110512		LIBRARY - Book Purchases	\$1,500.00	\$0.00	\$1,500.00	\$703.00	\$1,145.45	62.94%
11	1105	2	2110513		LIBRARY - Lost Books	\$500.00	\$0.00	\$500.00	\$250.00	\$0.00	-100.00%
11	1105	2	2110514		LIBRARY - Local History	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$0.00	-100.00%
11	1105	2	2110521		LIBRARY - Information Technology	\$17,500.00	\$0.00	\$17,500.00	\$9,454.00	\$0.00	-100.00%

11	1105	2	2110586	LIBRARY - Expensed Minor Asset Purchases	\$5,300.00	\$0.00	\$5,300.00	\$3,536.00	\$0.00	-100.00%
11	1105	2	2110587	LIBRARY - Other Expenses	\$14,000.00	\$0.00	\$14,000.00	\$9,328.00	\$3,396.28	-63.59%
11	1105	2	2110588	LIBRARY - Library Building Operations						
11	1105	2	2110588	BO004 North Merredin Library - Building Operations	\$21,500.00	\$0.00	\$21,500.00	\$14,328.00	\$17,441.58	21.73%
11	1105	2	2110589	LIBRARY - Library Building Maintenance						
11	1105	2	2110589	BM004 North Merredin Library - Building Maintenance	\$10,000.00	\$0.00	\$10,000.00	\$6,664.00	\$3,804.00	-42.92%
11	1105	2	2110592	LIBRARY - Depreciation	\$81,500.00	\$0.00	\$81,500.00	\$54,336.00	\$54,189.01	-0.27%
11	1105	2	2110599	LIBRARY - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total					\$431,400.00	\$0.00	\$431,400.00	\$285,935.00	\$238,877.12	
11	1105	3	3110511	LIBRARY - Other Grants	\$0.00	\$0.00	\$0.00	\$0.00	-\$170.54	
11	1105	3	3110520	LIBRARY - Fees & Charges	-\$1,000.00	\$0.00	-\$1,000.00	-\$664.00	-\$805.75	21.35%
Operating Income Total					-\$1,000.00	\$0.00	-\$1,000.00	-\$664.00	-\$976.29	
11	1105	4	4110510	LIBRARY - Library Building (Capital)						
11	1105	4	4110510	BC004 North Merredin Library - Building (Capital)	\$21,000.00	\$0.00	\$21,000.00	\$0.00	\$0.00	
11	1105	4	4110530	LIBRARY - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Capital Expenditure Total					\$21,000.00	\$0.00	\$21,000.00	\$0.00	\$0.00	
Libraries Total					\$451,400.00	\$0.00	\$451,400.00	\$285,271.00	\$237,900.83	
11	1106	2	2110689	HERITAGE - Building Maintenance						
11	1106	2	2110689	W0040 Military Museum Building Mtce	\$4,700.00	\$0.00	\$4,700.00	\$3,136.00	\$1,986.91	-36.64%
11	1106	2	2110689	W0048 Railway Museum Building Mtce	\$5,800.00	\$2,000.00	\$7,800.00	\$5,200.00	\$6,535.92	25.69%
11	1106	2	2110689	W0049 Insurance	\$2,400.00	\$4,260.00	\$6,660.00	\$4,440.00	\$6,653.86	49.86%
11	1106	2	2110689	W0050 Heritage Trail Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,591.41	
11	1106	2	2110699	HERITAGE - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total					\$116,600.00	\$6,260.00	\$122,860.00	\$81,912.00	\$79,245.41	
11	1106	4	4110610	HERITAGE - Building (Capital)						
11	1106	4	4110610	HC041 Railway Museum - Precinct	\$30,000.00	\$10,000.00	\$40,000.00	\$26,664.00	\$0.00	-100.00%
Capital Expenditure Total					\$30,000.00	\$10,000.00	\$40,000.00	\$26,664.00	\$0.00	
Heritage Total					\$146,600.00	\$16,260.00	\$162,860.00	\$108,576.00	\$79,245.41	
11	1107	2	2110700	OTH CUL - Employee Costs	\$182,500.00	\$0.00	\$182,500.00	\$122,564.00	\$94,897.53	-22.57%
11	1107	2	2110712	OTH CUL - ANZAC Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	OTH CUL - Other Festival Events						
11	1107	2	2110743	CT029 Comedy Gold	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT035 Celtic Illusion	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT078 Morning Melodies	\$4,000.00	\$0.00	\$4,000.00	\$1,669.00	\$2,963.64	77.57%
11	1107	2	2110743	CT102 Gateway Merredin Festival	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT122 Hotel California - The Eagles Experience	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT128 The Stories Of Swing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT128A Stories Of Swing - Grant Funded	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT129 Stardust & The Mission	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT129A Stardust & The Mission - Grant Funded	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT130 Merredin Country Music Weekend	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT131 Tony Galati - The Musical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT131A Tony Galati - The Musical - Grant Funded	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT132 Finucane & Smith	\$5,300.00	\$0.00	\$5,300.00	\$3,536.00	\$0.00	-100.00%
11	1107	2	2110743	CT132A Finucane & Smith - Grant Funded	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	2	2110743	CT134 David Scheel	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$2,000.00	49.70%

11	1107 2	2110743	CT141	Kalyakoorl Ngalak Warangka	\$4,500.00	\$0.00	\$4,500.00	\$3,000.00	\$2,500.00	-16.67%
11	1107 2	2110743	CT143	Alex & Evie and the Forever Falling	\$3,000.00	\$0.00	\$3,000.00	\$0.00	\$3,000.00	
11	1107 2	2110743	CT146	Little Red	\$4,000.00	-\$4,000.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110743	CT178	Other Shows	\$27,200.00	\$0.00	\$27,200.00	\$18,136.00	\$9,200.00	-49.27%
11	1107 2	2110744		OTH CUL - In the House						
11	1107 2	2110744	CT200	In The House Grant	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110744	CT201	Edward The Emu	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110744	CT202	Brass Monkeys	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110744	CT203	Grant Funded Wages	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110744	CT204	Morning Melodies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110745		OTH CUL - Community & Culture Planning	\$12,900.00	-\$7,900.00	\$5,000.00	\$3,336.00	\$0.00	-100.00%
11	1107 2	2110765		OTH CUL - Theatre Operations	\$10,000.00	\$0.00	\$10,000.00	\$6,672.00	\$729.34	-89.07%
11	1107 2	2110786		OTH CUL - Expensed Minor Asset Purchases	\$4,000.00	\$0.00	\$4,000.00	\$3,999.00	\$0.00	-100.00%
11	1107 2	2110787		OTH CUL - Other Expenses						
11	1107 2	2110787	CTG01	General Operating Costs	\$13,000.00	\$0.00	\$13,000.00	\$8,672.00	\$2,060.98	-76.23%
11	1107 2	2110787	CTG03	Licenses And Memberships	\$2,000.00	\$0.00	\$2,000.00	\$1,814.00	\$1,580.64	-12.86%
11	1107 2	2110787	CTG04	Marketing & Promotion	\$4,500.00	\$0.00	\$4,500.00	\$4,500.00	\$1,233.09	-72.60%
11	1107 2	2110787	CTG06	Technical Maintenance	\$15,000.00	\$0.00	\$15,000.00	\$9,098.00	\$2,389.10	-73.74%
11	1107 2	2110787	CTG07	Equipment Purchases	\$4,000.00	\$0.00	\$4,000.00	\$2,672.00	\$161.36	-93.96%
11	1107 2	2110787	CTG08	Building Cleaning	\$9,500.00	-\$9,500.00	\$0.00	\$0.00	-\$1,000.00	
11	1107 2	2110787	CTG09	Gardens Maintenance	\$3,000.00	\$0.00	\$3,000.00	\$2,000.00	\$171.82	-91.41%
11	1107 2	2110787	CTG11	External Hire Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 2	2110787	CTG13	Kitchener St Residency Expenses	\$6,000.00	\$0.00	\$6,000.00	\$4,000.00	\$1,026.17	-74.35%
11	1107 2	2110788		OTH CUL - Building Operations						
11	1107 2	2110788	BO002	Cummin Theatre - Building Operations	\$47,200.00	\$9,500.00	\$56,700.00	\$37,792.00	\$39,386.47	4.22%
11	1107 2	2110789		OTH CUL - Building Maintenance						
11	1107 2	2110789	BM002	Cummin Theatre - Building Maintenance	\$39,000.00	\$0.00	\$39,000.00	\$26,008.00	\$11,127.74	-57.21%
11	1107 2	2110792		OTH CUL - Depreciation	\$214,200.00	\$0.00	\$214,200.00	\$142,800.00	\$152,140.22	6.54%
11	1107 2	2110799		OTH CUL - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	\$51,864.00	\$46,857.99	-9.65%
				Operating Expenditure Total	\$694,600.00	-\$11,900.00	\$682,700.00	\$455,468.00	\$372,426.09	
11	1107 3	3110710		OTH CUL - Grants - Theatre Shows						
11	1107 3	3110710	CTG029	Comedy Gold 2022 - Grant Funding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110710	CTG128	The Stories Of Swing - Grant Funding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110710	CTG129	Stardust + The Mission By The Space Company - Grant Fur	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110710	CTG131	Tony Galati The Musical - Grant Funding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110710	CTG132	Finucane & Smith'S Travelling Dance Hall -- Grant Funding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110710	CTG134	David Scheel - Grant Funding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110711		OTH CUL - Other Contributions	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110720		OTH CUL - Fees & Charges						
11	1107 3	3110720	CTGI01	Theatre Hire	-\$20,000.00	\$6,000.00	-\$14,000.00	-\$9,344.00	-\$11,878.05	27.12%
11	1107 3	3110720	CTGI02	Mou Rep Club	-\$1,500.00	\$0.00	-\$1,500.00	-\$1,000.00	\$0.00	-100.00%
11	1107 3	3110720	CTGI04	Ticket Sales	-\$3,500.00	\$2,000.00	-\$1,500.00	-\$1,008.00	-\$254.54	-74.75%
11	1107 3	3110720	CTGI05	Ticket Sales Rep Club	-\$2,000.00	\$2,000.00	\$0.00	\$0.00	\$0.00	
11	1107 3	3110720	CTGI06	Inhouse Events	-\$100.00	\$0.00	-\$100.00	-\$64.00	\$0.00	-100.00%
11	1107 3	3110720	CTGI07	Equipment Hire	-\$500.00	\$0.00	-\$500.00	-\$336.00	-\$800.01	138.10%
11	1107 3	3110720	CTGI11	Bar Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

11	1107	3	3110720	CTGI14	Technical & Foh Staff	-\$4,500.00	\$2,000.00	-\$2,500.00	-\$1,672.00	-\$979.10	-41.44%
11	1107	3	3110720	CTI029	Comedy Gold 2022	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI035	Celtic Illusion	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI078	Morning Melodies	\$0.00	\$0.00	\$0.00	\$0.00	-\$1,129.82	
11	1107	3	3110720	CTI108	Stardust & The Mission	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI122	Hotel California - The Eagles Experience	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI126	Stardust + The Mission (Regional Arts Victoria)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI128	The Stories Of Swing - Ticket Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI131	Tony Galatie The Musical - Ticket Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI132	Finucane & Smith's Travelling Dance Hall - Ticket Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI134	David Scheel - Don't Shoot Piano Player - Tickets	\$0.00	\$0.00	\$0.00	\$0.00	-\$856.69	
11	1107	3	3110720	CTI135	Roald Dahl And The Imagination Seekers	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI137	Rthe American Rock And Role Experience	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI138	The Wiggles - Summer Holiday Fun Tour - Ticket Sales	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI139	The Alphabet Of Awesome Science	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI140	A Salute To The Crooners	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.01	
11	1107	3	3110720	CTI141	Kalyakoorl, Ngalak Warangka (Forever We Sing)	\$0.00	\$0.00	\$0.00	\$0.00	-\$306.13	
11	1107	3	3110720	CTI142	Elvis - The Vegas Years	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI143	Alex & Evie and the Forever Falling	\$0.00	\$0.00	\$0.00	\$0.00	-\$27.27	
11	1107	3	3110720	CTI201	Edward The Emu - (Ticket Sales)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11	1107	3	3110720	CTI151	Shannon Noll - That'S What I'M Talking About	\$0.00	\$0.00	\$0.00	\$0.00	-\$126.00	
Operating Income Total						-\$32,100.00	\$12,000.00	-\$20,100.00	-\$13,424.00	-\$16,357.62	
11	1107	4	4110710		OTH CUL - Building (Capital)						
11	1107	4	4110710	BC002	Cummin Theatre - Building (Capital)	\$50,000.00	-\$6,100.00	\$43,900.00	\$36,585.00	\$0.00	-100.00%
11	1107	4	4110730		OTH CUL - Plant & Equipment (Capital)	\$0.00	\$6,100.00	\$6,100.00	\$6,100.00	\$6,200.00	1.64%
Capital Expenditure Total						\$50,000.00	\$0.00	\$50,000.00	\$42,685.00	\$6,200.00	
Other Culture Total						\$712,500.00	-\$6,000.00	\$706,500.00	\$478,629.00	\$356,068.47	
Recreation & Culture Total						\$5,371,200.00	\$287,390.00	\$5,658,590.00	\$5,771,652.00	\$1,282,071.47	
12	1201	3	3120110		ROADC - Regional Road Group Grants (MRWA)	-\$673,600.00	\$0.00	-\$673,600.00	-\$449,064.00	-\$315,449.00	-29.75%
12	1201	3	3120111		ROADC - Roads to Recovery Grant	-\$705,700.00	-\$93,500.00	-\$799,200.00	-\$532,800.00	-\$73,287.00	-86.24%
12	1201	3	3120118		ROADC - Wheatbelt Secondary Freight Network (WSFN)	-\$3,443,700.00	-\$589,200.00	-\$4,032,900.00	-\$2,688,600.00	-\$2,124,333.60	-20.99%
Operating Income Total						-\$4,823,000.00	-\$682,700.00	-\$5,505,700.00	-\$3,670,464.00	-\$2,513,069.60	
12	1201	4	4120140		ROADC - Roads Built Up Area - Council Funded						
12	1201	4	4120140	RC135	Barrack Street (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120140	RC401	Line Marking Program	\$35,000.00	\$0.00	\$35,000.00	\$0.00	\$0.00	
12	1201	4	4120140	RC402	Signage Replacement Program	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120141		ROADC - Roads Outside BUA - Sealed - Council Funded						
12	1201	4	4120141	RC239	Merredin-Naremben Road (Capital)	\$3,975,600.00	\$318,100.00	\$4,293,700.00	\$2,862,464.00	\$1,794,496.11	-37.31%
12	1201	4	4120141	RC239A	Merredin-Narambeen Road (Capital) 7.94 - 8.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120141	RC239C	Merredin-Narambeen Road (Capital) 91.8 - 91.8	\$0.00	\$0.00	\$0.00	\$0.00	\$284,095.89	
12	1201	4	4120142	RC090	Goldfields Road (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$2,868.37	
12	1201	4	4120144		ROADC - Roads Built Up Area - Roads to Recovery						
12	1201	4	4120144	R2R000	To Be Allocated	\$37,000.00	\$57,500.00	\$94,500.00	\$0.00	\$0.00	
12	1201	4	4120144	R2R003	Bullshead Road (R2R)	\$0.00	\$53,400.00	\$53,400.00	\$53,400.00	\$44,307.00	-17.03%
12	1201	4	4120144	R2R283	Nolan Street (R2R)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120145		ROADC - Roads Outside BUA - Sealed - Roads to Recovery						

12	1201	4	4120145	R2R011	Totadgin Hall Road (R2R)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120145	R2R072	Crooks Road (R2R)	\$0.00	\$54,100.00	\$54,100.00	\$54,100.00	\$0.00	-100.00%
12	1201	4	4120146	R2R090	Goldfields Road (R2R)	\$0.00	\$202,300.00	\$202,300.00	\$202,300.00	\$7,469.97	-96.31%
12	1201	4	4120149		ROADC - Roads Outside BUA - Sealed - Regional Road Group						
12	1201	4	4120149	RRG003	Bullshead Road (Rrg)	\$160,000.00	-\$53,400.00	\$106,600.00	\$35,534.00	\$88,613.00	149.38%
12	1201	4	4120149	RRG072	Crooks Road (Rrg)	\$282,200.00	-\$174,100.00	\$108,100.00	\$72,064.00	\$2,850.00	-96.05%
12	1201	4	4120149	RRG239	Merredin-Narambeen Road	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120150		ROADC - Roads Outside BUA - Gravel - Regional Road Group						
12	1201	4	4120150	RRG090	Goldfields Road (Rrg)	\$486,800.00	-\$82,200.00	\$404,600.00	\$269,736.00	\$0.00	-100.00%
12	1201	4	4120165		ROADC - Drainage Built Up Area (Capital)						
12	1201	4	4120165	DC142	French Avenue - Drainage Capital	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1201	4	4120170		ROADC - Footpaths and Cycleways (Capital)						
12	1201	4	4120170	FC000	Footpath Construction General (Budgeting Only)	\$110,800.00	-\$43,000.00	\$67,800.00	\$45,200.00	\$0.00	-100.00%
Capital Expenditure Total						\$5,087,400.00	\$332,700.00	\$5,420,100.00	\$3,594,798.00	\$2,224,700.34	
Construction - Streets, Roads, Bridges & Depots Total						\$264,400.00	-\$350,000.00	-\$85,600.00	-\$75,666.00	-\$288,369.26	
12	1202	2	2120211		ROADM - Road Maintenance - Built Up Areas						
12	1202	2	2120211	FM000	Footpath Maintenance General (Budgeting Only)	\$355,000.00	\$0.00	\$355,000.00	\$236,664.00	\$0.00	-100.00%
12	1202	2	2120211	FM140	Coronation Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120211	FM142	French Avenue - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$777.42	
12	1202	2	2120211	FM145	King Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,287.20	
12	1202	2	2120211	FM146	George Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,602.08	
12	1202	2	2120211	FM153	Throssell Road - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$12,201.86	
12	1202	2	2120211	FM156	Hart Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$308.26	
12	1202	2	2120211	FM157	Haig Road - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,414.11	
12	1202	2	2120211	FM171	Hay Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,538.97	
12	1202	2	2120211	FM180	Aspland Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120211	FM192	Solomon Road - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,600.00	
12	1202	2	2120211	FM196	Boyd Road - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120211	FM198	Princess Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,247.83	
12	1202	2	2120211	FM225	Abattoir Road - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$452.86	
12	1202	2	2120211	FM277	South Avenue - Footpath Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120211	RM102	Insignia Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,094.43	
12	1202	2	2120211	RM104	Insignia Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,420.22	
12	1202	2	2120211	RM113	Dobson Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,636.98	
12	1202	2	2120211	RM133	Parkes Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120211	RM135	Barrack Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$19,328.77	
12	1202	2	2120211	RM136	Bates Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,754.33	
12	1202	2	2120211	RM137	Mitchell Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,251.38	
12	1202	2	2120211	RM138	Fifth Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,034.11	
12	1202	2	2120211	RM139	Queen Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,309.39	
12	1202	2	2120211	RM140	Coronation Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$14,561.69	
12	1202	2	2120211	RM141	Duff Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,503.38	
12	1202	2	2120211	RM142	French Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$747.98	
12	1202	2	2120211	RM144	Woolgar Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,245.92	
12	1202	2	2120211	RM145	King Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,929.46	
12	1202	2	2120211	RM146	George Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$898.42	

12	1202	2	2120211	RM147	Pollock Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,304.87
12	1202	2	2120211	RM148	Caw Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,087.54
12	1202	2	2120211	RM149	Endersbee Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,539.95
12	1202	2	2120211	RM150	Kitchener Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$12,913.91
12	1202	2	2120211	RM151	Growden Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,272.21
12	1202	2	2120211	RM152	Cunningham Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,076.33
12	1202	2	2120211	RM153	Throssell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,091.86
12	1202	2	2120211	RM154	Mary Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,329.24
12	1202	2	2120211	RM155	Hobbs Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM156	Hart Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM157	Haig Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.33
12	1202	2	2120211	RM158	Golf Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$324.11
12	1202	2	2120211	RM159	Allbeury Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,721.68
12	1202	2	2120211	RM160	Craddock Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM161	Jellicoe Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$411.81
12	1202	2	2120211	RM162	Morton Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM163	Farrar Parade - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,226.80
12	1202	2	2120211	RM164	Jubilee Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM165	Hunter Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$250.56
12	1202	2	2120211	RM166	Mill Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,946.13
12	1202	2	2120211	RM167	Council Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM168	Kendall Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$199.17
12	1202	2	2120211	RM169	Snell Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,450.56
12	1202	2	2120211	RM170	Pioneer Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$766.91
12	1202	2	2120211	RM171	Hay Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,714.35
12	1202	2	2120211	RM172	Colin Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,231.89
12	1202	2	2120211	RM173	Stephen Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$545.69
12	1202	2	2120211	RM174	Alfred Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,367.79
12	1202	2	2120211	RM175	Telfer Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$905.43
12	1202	2	2120211	RM176	Cummings Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,099.55
12	1202	2	2120211	RM177	Gilmore Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM178	Tomlinson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM179	Bower Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM180	Aspland Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,586.46
12	1202	2	2120211	RM181	Muscat Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM182	Pereira Drive - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$309.49
12	1202	2	2120211	RM183	Saleyard Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120211	RM184	Allenby Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$404.70
12	1202	2	2120211	RM185	Lefroy Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM186	Ellis Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,600.16
12	1202	2	2120211	RM187	Pool Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$380.28
12	1202	2	2120211	RM188	Todd West Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,776.38
12	1202	2	2120211	RM189	Oat Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM190	Macdonald Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,183.52
12	1202	2	2120211	RM191	Haines Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM192	Solomon Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79

12	1202	2	2120211	RM193	Cohn Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,613.25
12	1202	2	2120211	RM194	Priestley Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM195	Hill Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$309.49
12	1202	2	2120211	RM196	Boyd Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM197	Jackson Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM198	Princess Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,601.69
12	1202	2	2120211	RM199	Brewery Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM200	Benson Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM201	Watson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM202	Barr Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM203	Harling Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$656.21
12	1202	2	2120211	RM204	Third Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$498.73
12	1202	2	2120211	RM205	O'Connor Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$851.93
12	1202	2	2120211	RM206	Limbourne Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$639.56
12	1202	2	2120211	RM207	Edwards Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120211	RM212	Yorrell Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$936.84
12	1202	2	2120211	RM213	Gamenya Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,661.62
12	1202	2	2120211	RM214	Warne Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,589.13
12	1202	2	2120211	RM215	Burracoppin Siding Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120211	RM217	Davies Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120211	RM218	Oats - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,867.60
12	1202	2	2120211	RM219	Cassia Street Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM220	Acacia Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM221	Cowan Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,181.25
12	1202	2	2120211	RM222	Dolton Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$161.70
12	1202	2	2120211	RM223	Cummings Crescent - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$975.84
12	1202	2	2120211	RM224	Lewis Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM226	Mckenzie Crescent - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$814.96
12	1202	2	2120211	RM227	Hearles Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120211	RM229	Hawker Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,835.69
12	1202	2	2120211	RM230	Crossland Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM231	Fagans Folly Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,338.77
12	1202	2	2120211	RM232	Smith Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,290.99
12	1202	2	2120211	RM233	Easton Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM235	Davies Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM240	Second Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,561.53
12	1202	2	2120211	RM244	East Barrack St - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,589.36
12	1202	2	2120211	RM245	Todd St - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,657.62
12	1202	2	2120211	RM250	Whitfield Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$353.35
12	1202	2	2120211	RM251	Cohn St Service Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM253	Carrington Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$229.74
12	1202	2	2120211	RM256	Main St - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM257	Whittleton St - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM261	Service Road 1 Duff St - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120211	RM264	Service Lane 4 Fifth St - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79
12	1202	2	2120211	RM265	Lewis Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$929.93

12	1202	2	2120211	RM266	Mckenzie Crescent - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120211	RM274	Service Road 14 Haig Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$432.31	
12	1202	2	2120211	RM275	Gerbert Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120211	RM276	Caridi Close - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$391.27	
12	1202	2	2120211	RM277	South Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,523.81	
12	1202	2	2120211	RM278	Chegwidden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,518.02	
12	1202	2	2120211	RM279	Railway Parade - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,804.58	
12	1202	2	2120211	RM283	Nolan Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120211	RM286	Mcginniss Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$238.73	
12	1202	2	2120211	RM290	Doyle Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120211	RM291	Coghill Street - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120211	RM292	Byrne Lane - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$473.77	
12	1202	2	2120211	RM293	Maiolo Way - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212		ROADM - Road Maintenance - Sealed Outside BUA						
12	1202	2	2120212	RM000	Roadm - Rd Maint - Sealed Outside (Budget Only)	\$175,500.00	\$0.00	\$175,500.00	\$117,000.00	\$0.00	-100.00%
12	1202	2	2120212	RM001	Chandler Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$25,866.45	
12	1202	2	2120212	RM002	Hines Hill Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,467.09	
12	1202	2	2120212	RM003	Bullshead Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,709.79	
12	1202	2	2120212	RM004	Brissenden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$16,618.97	
12	1202	2	2120212	RM005	Burracoppin-Campion Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$16,977.64	
12	1202	2	2120212	RM006	Nangeenan North Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,885.52	
12	1202	2	2120212	RM008	Knungajin-Merredin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,857.82	
12	1202	2	2120212	RM009	Hines Hill North Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,109.37	
12	1202	2	2120212	RM010	Korbel West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120212	RM011	Totadgin Hall Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,655.71	
12	1202	2	2120212	RM012	Nokaning West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$8,655.65	
12	1202	2	2120212	RM017	Fewster Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212	RM043	Wogarl-Muntadgin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212	RM052	Dulyalbin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212	RM054	Connell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,698.56	
12	1202	2	2120212	RM056	Robartson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,822.91	
12	1202	2	2120212	RM072	Crooks Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,979.69	
12	1202	2	2120212	RM126	Smith Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212	RM128	Giles Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,698.61	
12	1202	2	2120212	RM129	Rutter Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,533.72	
12	1202	2	2120212	RM130	Girauo Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,698.56	
12	1202	2	2120212	RM131	Thiel Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,698.60	
12	1202	2	2120212	RM132	Potter Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212	RM134	Hughes Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120212	RM238	Doodlakine-Bruce Rock Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$147.79	
12	1202	2	2120212	RM239	Merredin-Narembreen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$33,482.21	
12	1202	2	2120212	RM247	Barrack St Spur - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$192.80	
12	1202	2	2120212	RM259	Nukarni Bin Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120213		ROADM - Road Maintenance - Gravel Outside BUA						
12	1202	2	2120213	RM007	Korbrelkulling Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$9,539.36	
12	1202	2	2120213	RM013	Nukarni East Road- Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$8,234.63	

12	1202	2	2120213	RM015	Burracoppin South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$29,209.67	
12	1202	2	2120213	RM016	Baandee South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$7,719.85	
12	1202	2	2120213	RM018	Muntadgin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$24,479.11	
12	1202	2	2120213	RM023	Pitt Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,114.81	
12	1202	2	2120213	RM026	Endersbee Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,102.84	
12	1202	2	2120213	RM028	Muntadgin Tandegin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,605.74	
12	1202	2	2120213	RM031	Southcott Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,533.73	
12	1202	2	2120213	RM034	Collgar South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,134.91	
12	1202	2	2120213	RM037	Goomarin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,939.34	
12	1202	2	2120213	RM042	Dunlop Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,497.77	
12	1202	2	2120213	RM045	Bicks Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,978.58	
12	1202	2	2120213	RM047	Barr Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,113.74	
12	1202	2	2120213	RM057	Johnston Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120213	RM065	Coupar Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,541.08	
12	1202	2	2120213	RM068	Collgar West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$737.20	
12	1202	2	2120213	RM069	Armstrong Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120213	RM090	Goldfields Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$15,244.55	
12	1202	2	2120213	RM092	Dunwell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$909.09	
12	1202	2	2120213	RM095	Coulahan Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.60	
12	1202	2	2120213	RM098	Liebeck Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.81	
12	1202	2	2120213	RM124	Hicks Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,360.51	
12	1202	2	2120213	RM208	Spur Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,382.20	
12	1202	2	2120213	RM237	Duffy Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120213	RM246	Ellery Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,722.61	
12	1202	2	2120213	RM901	Roadm - Rd Maint - Gravel Outside (Budget Only)	\$205,000.00	\$0.00	\$205,000.00	\$136,672.00	\$0.00	-100.00%
12	1202	2	2120214		ROADM - Road Maintenance - Formed Outside BUA						
12	1202	2	2120213	RM014	Roadm - Rd Maint - Gravel Outside (Budget Only)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120214	RM019	Neening Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12	1202	2	2120214	RM020	Pustkuchen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$27,985.81	
12	1202	2	2120214	RM021	Hines Hill-Korbel Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,920.51	
12	1202	2	2120214	RM022	Neening Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$12,045.32	
12	1202	2	2120214	RM024	Old Muntadgin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$8,565.55	
12	1202	2	2120214	RM025	Goodier Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,088.67	
12	1202	2	2120214	RM027	Spring Well Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$15,393.75	
12	1202	2	2120214	RM029	Nokaning East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,730.83	
12	1202	2	2120214	RM030	Pustkuchen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.58	
12	1202	2	2120214	RM032	Downsborough Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$10,782.43	
12	1202	2	2120214	RM033	Booran South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$8,770.73	
12	1202	2	2120214	RM035	Hubeck Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,106.87	
12	1202	2	2120214	RM036	Korbel East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,533.72	
12	1202	2	2120214	RM038	Hardman Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,700.23	
12	1202	2	2120214	RM040	Tandegin East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,652.42	
12	1202	2	2120214	RM044	Koonadgin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,568.02	
12	1202	2	2120214	RM046	Currie Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,557.80	
12	1202	2	2120214	RM048	Burracoppin North West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,783.52	
12	1202	2	2120214	RM050	Last Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,294.30	

12	1202	2	2120214	RM051	Hart Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$7,800.95
12	1202	2	2120214	RM053	Osborne Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$519.63
12	1202	2	2120214	RM055	Teasdale Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,336.04
12	1202	2	2120214	RM058	Growden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,926.29
12	1202	2	2120214	RM059	Willis Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.80
12	1202	2	2120214	RM060	Briant Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$10,573.78
12	1202	2	2120214	RM062	Talgomine Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.58
12	1202	2	2120214	RM063	Korbelka Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM064	Mcgellin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$317.55
12	1202	2	2120214	RM066	Crees Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.62
12	1202	2	2120214	RM067	Ogden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM073	Fourtenn Mile Gate Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$6,246.49
12	1202	2	2120214	RM075	Arnold Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.60
12	1202	2	2120214	RM076	Scott Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,483.34
12	1202	2	2120214	RM077	Peel Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,533.70
12	1202	2	2120214	RM078	Feineler Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM080	Old Nukarni Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.60
12	1202	2	2120214	RM081	Burke Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,799.64
12	1202	2	2120214	RM082	Woodward Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,514.75
12	1202	2	2120214	RM083	Hendrick Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,567.57
12	1202	2	2120214	RM084	Booran North Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.80
12	1202	2	2120214	RM085	Barnes Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,101.60
12	1202	2	2120214	RM086	Cahill Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$3,067.45
12	1202	2	2120214	RM087	Fitzpatrick Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM088	Snell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,348.73
12	1202	2	2120214	RM091	Bassula Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.81
12	1202	2	2120214	RM093	Norpa Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,891.61
12	1202	2	2120214	RM094	Hines Hill Siding Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM096	Ulva Siding Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,533.70
12	1202	2	2120214	RM099	Legge Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.77
12	1202	2	2120214	RM100	Day Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.77
12	1202	2	2120214	RM101	Bignell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.82
12	1202	2	2120214	RM103	Dobson Raod - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$224.23
12	1202	2	2120214	RM105	Fisher East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM111	Thynet Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$2,950.57
12	1202	2	2120214	RM115	Tuppen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM116	Koonadgin South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,550.81
12	1202	2	2120214	RM121	Gigney Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,435.85
12	1202	2	2120214	RM123	Clarke Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,592.02
12	1202	2	2120214	RM209	Della Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM210	Pink Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM211	Clement Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
12	1202	2	2120214	RM236	Newport Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,454.47
12	1202	2	2120214	RM242	Unknown Rd - Munty - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,533.72
12	1202	2	2120214	RM243	Adamson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

12	1202	2	2120214	RM248	Junk Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$990.56	
12	1202	2	2120214	RM252	Goldfields Rd - West - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$4,997.64	
12	1202	2	2120214	RM258	Unknown Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$5,474.17	
12	1202	2	2120214	RM902	Roadm - Rd Maint - Formed Outside (Budget Only)	\$450,000.00	\$0.00	\$450,000.00	\$300,000.00	\$0.00	-100.00%
12	1202	2	2120234		ROADM - Street Lighting	\$191,400.00	\$0.00	\$191,400.00	\$127,600.00	\$120,372.24	-5.66%
12	1202	2	2120235	RS001	Safety Equipment	\$20,000.00	\$0.00	\$20,000.00	\$13,336.00	\$1,462.37	-89.03%
12	1202	2	2120235	RS002	Portable Traffic Lights	\$10,000.00	\$0.00	\$10,000.00	\$6,664.00	\$0.00	-100.00%
12	1202	2	2120235	RS003	Road Counters	\$10,000.00	\$0.00	\$10,000.00	\$6,664.00	\$0.00	-100.00%
12	1202	2	2120265		ROADM - Drainage Maintenance Built Up Areas						
12	1202	2	2120265	DM000	Roadm - Drainage Maint Built Up Areas (Budget Only)	\$50,000.00	\$0.00	\$50,000.00	\$33,336.00	\$11,971.00	-64.09%
12	1202	2	2120265	DM135	Barrack Street - Drainage Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,148.13	
12	1202	2	2120265	DM141	Duff Street - Drainage Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$131.65	
12	1202	2	2120265	DM150	Kitchener Road - Drainage Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,294.52	
12	1202	2	2120265	DM172	Colin Street - Drainage Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$761.24	
12	1202	2	2120266	DM009	Hines Hill North Road - Drainage Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$1,445.00	
12	1202	2	2120286		ROADM - Workshop/Depot Expensed Equipment	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$270.65	-79.74%
12	1202	2	2120287		ROADM - Other Expenses	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$188.94	-94.34%
12	1202	2	2120288		ROADM - Depot Building Operations	\$11,700.00	\$0.00	\$11,700.00	\$8,635.00	\$3,755.29	-56.51%
12	1202	2	2120289		ROADM - Depot Building Maintenance	\$31,500.00	\$0.00	\$31,500.00	\$20,902.00	\$29,610.73	41.66%
12	1202	2	2120292		ROADM - Depreciation	\$3,649,100.00	\$0.00	\$3,649,100.00	\$2,432,736.00	\$1,968,691.28	-19.08%
Operating Expenditure Total						\$5,166,200.00	\$0.00	\$5,166,200.00	\$3,444,881.00	\$2,883,127.48	
12	1202	3	3120200		ROADM - Street Lighting Subsidy	-\$20,900.00	\$0.00	-\$20,900.00	\$0.00	\$0.00	
12	1202	3	3120201		ROADM - Road Contribution Income	-\$285,900.00	\$0.00	-\$285,900.00	-\$190,600.00	-\$299,745.77	57.26%
12	1202	3	3120210		ROADM - Direct Road Grant (MRWA)	-\$251,200.00	-\$5,200.00	-\$256,400.00	-\$170,936.00	-\$256,337.00	49.96%
Operating Income Total						-\$558,000.00	-\$5,200.00	-\$563,200.00	-\$361,536.00	-\$556,082.77	
Maintenance - Streets, Roads, Bridges & Depots Total						\$4,608,200.00	-\$5,200.00	\$4,603,000.00	\$3,083,345.00	\$2,327,044.71	
12	1203	2	2120391		PLANT - Loss on Disposal of Assets	\$11,700.00	\$0.00	\$11,700.00	\$7,800.00	\$0.00	-100.00%
Operating Expenditure Total						\$11,700.00	\$0.00	\$11,700.00	\$7,800.00	\$0.00	
12	1203	3	3120390		PLANT - Profit on Disposal of Assets	-\$113,800.00	\$0.00	-\$113,800.00	-\$75,864.00	\$0.00	-100.00%
12	1203	3	5120350		PLANT - Proceeds on Disposal of Assets	-\$205,900.00	\$0.00	-\$205,900.00	-\$137,264.00	\$0.00	-100.00%
12	1203	3	5120351		PLANT - Realisation on Disposal of Assets	\$205,900.00	\$0.00	\$205,900.00	\$137,264.00	\$0.00	-100.00%
Operating Income Total						-\$113,800.00	\$0.00	-\$113,800.00	-\$75,864.00	\$0.00	
12	1203	4	4120330		PLANT - Plant & Equipment (Capital)	\$629,900.00	\$74,000.00	\$703,900.00	\$703,900.00	\$321,939.03	-54.26%
Capital Expenditure Total						\$629,900.00	\$74,000.00	\$703,900.00	\$703,900.00	\$321,939.03	
Road Plant Purchases Total						\$527,800.00	\$74,000.00	\$601,800.00	\$635,836.00	\$321,939.03	
12	1205	2	2120500		LICENSING - Employee Costs	\$79,100.00	\$0.00	\$79,100.00	\$53,164.00	\$51,679.52	-2.79%
12	1205	2	2120599		LICENSING - Administration Allocated	\$25,900.00	\$0.00	\$25,900.00	\$17,264.00	\$15,619.32	-9.53%
Operating Expenditure Total						\$105,000.00	\$0.00	\$105,000.00	\$70,428.00	\$67,298.84	
12	1205	3	3120502		LICENSING - Transport Licensing Commission	-\$76,000.00	\$0.00	-\$76,000.00	-\$50,664.00	-\$51,548.21	1.75%
Operating Income Total						-\$76,000.00	\$0.00	-\$76,000.00	-\$50,664.00	-\$51,548.21	
Traffic Control (Vehicle Licensing) Total						\$29,000.00	\$0.00	\$29,000.00	\$19,764.00	\$15,750.63	
12	1207	2	2120752		WATER - Consultants	\$120,000.00	\$0.00	\$120,000.00	\$80,000.00	\$0.00	-100.00%
12	1207	2	2120800		WATER - Projects	\$9,000.00	\$0.00	\$9,000.00	\$6,000.00	\$1,589.20	-73.51%
Operating Expenditure Total						\$129,000.00	\$0.00	\$129,000.00	\$86,000.00	\$1,589.20	
12	1207	3	3120750		WATER - Community Water Supply Program - Grant 1	-\$89,100.00	\$0.00	-\$89,100.00	-\$89,100.00	-\$19,804.00	-77.77%
12	1207	3	3120751		WATER - Community Water Supply Program - Grant 2.	-\$100,000.00	\$0.00	-\$100,000.00	\$0.00	-\$10,000.00	

Operating Income Total				-\$189,100.00	\$0.00	-\$189,100.00	-\$89,100.00	-\$29,804.00		
12	1207	4	4120790	WATER - Infrastructure Other (Capital)						
12	1207	4	4120790 WC002	Watersmart Farms - Desalination Project	\$100,000.00	\$0.00	\$100,000.00	\$66,664.00	\$63,578.89	-4.63%
12	1207	4	4120790 WC003	MRWN Upgrade	\$180,000.00	\$0.00	\$180,000.00	\$0.00	\$34,239.50	
Capital Expenditure Total				\$100,000.00	\$0.00	\$100,000.00	\$66,664.00	\$97,818.39		
Water Transport Facilities Total				\$39,900.00	\$0.00	\$39,900.00	\$63,564.00	\$69,603.59		
Transport Total				\$5,469,300.00	-\$281,200.00	\$5,188,100.00	\$3,726,843.00	\$2,411,729.20		
13	1302	2	2130200	TOURISM - Employee Costs	\$218,000.00	\$0.00	\$218,000.00	\$146,036.00	\$175,317.33	20.05%
13	1302	2	2130240	TOURISM - Public Relations & Area Promotion						
13	1302	2	2130240 W0176	Postage & Freight	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1302	2	2130240 W0179	Merredin Marketing	\$1,200.00	\$0.00	\$1,200.00	\$800.00	\$54.17	-93.23%
13	1302	2	2130240 W0180	Photograph Inventory	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
13	1302	2	2130240 W0182	Strategic Marketing	\$8,000.00	\$0.00	\$8,000.00	\$5,336.00	\$0.00	-100.00%
13	1302	2	2130240 W0183	Website Design	\$14,500.00	\$0.00	\$14,500.00	\$14,500.00	\$11,880.00	-18.07%
13	1302	2	2130287	TOURISM - Other Expenses						
13	1302	2	2130287 W0188	Phone, Postage & Freight	\$1,400.00	\$0.00	\$1,400.00	\$851.00	\$761.51	-10.52%
13	1302	2	2130287 W0189	Office Expenses	\$3,200.00	\$0.00	\$3,200.00	\$2,515.00	\$1,364.60	-45.74%
13	1302	2	2130287 W0190	It Expenses	\$3,000.00	\$0.00	\$3,000.00	\$2,000.00	\$725.00	-63.75%
13	1302	2	2130287 W0191	Membership/Associations	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$1,863.82	12.01%
13	1302	2	2130287 W0195	Merchandise & Consignment	\$17,000.00	\$0.00	\$17,000.00	\$11,336.00	\$10,333.66	-8.84%
13	1302	2	2130287 W0199	Transwa	\$30,500.00	\$0.00	\$30,500.00	\$20,336.00	\$18,057.33	-11.21%
13	1302	2	2130287 W0209	Regional Marketing Initiatives & Advertising	\$3,500.00	\$0.00	\$3,500.00	\$2,336.00	\$2,605.00	11.52%
13	1302	2	2130287 W0210	Trade Shows	\$2,000.00	\$0.00	\$2,000.00	\$0.00	\$0.00	
13	1302	2	2130287 W0211	Pioneer Pathways	\$4,500.00	\$0.00	\$4,500.00	\$4,500.00	\$3,500.00	-22.22%
13	1302	2	2130287 W0212	Eastern Wheatbelt Holiday Planner	\$35,000.00	\$0.00	\$35,000.00	\$23,336.00	\$2,137.50	-90.84%
13	1302	2	2130287 W0213	Central Wheatbelt Map	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1302	2	2130287 W0214	Training Opportunities	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
13	1302	2	2130287 W0216	Merredin Brochure	\$7,000.00	\$0.00	\$7,000.00	\$4,664.00	\$4,885.91	4.76%
13	1302	2	2130287 W0219	Signage & Marketing Equipment	\$3,500.00	\$0.00	\$3,500.00	\$2,336.00	\$624.00	-73.29%
13	1302	2	2130287 W0220	Hire Bike Mtce	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1302	2	2130288	TOURISM - Building Operations						
13	1302	2	2130288 BO003	Visitors Centre - Building Operations	\$18,600.00	\$0.00	\$18,600.00	\$12,392.00	\$9,515.40	-23.21%
13	1302	2	2130289	TOURISM - Building Maintenance						
13	1302	2	2130289 BM003	Visitors Centre - Building Maintenance	\$3,600.00	\$1,000.00	\$4,600.00	\$3,064.00	\$2,151.05	-29.80%
13	1302	2	2130289 W0230	Buildings Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1302	2	2130292	TOURISM - Depreciation	\$17,900.00	\$0.00	\$17,900.00	\$11,936.00	\$11,919.23	-0.14%
13	1302	2	2130299	TOURISM - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total				\$500,600.00	\$1,000.00	\$501,600.00	\$340,402.00	\$320,172.82		
13	1302	3	3130201	TOURISM - Reimbursements	-\$35,800.00	\$0.00	-\$35,800.00	-\$22,879.00	-\$21,766.74	-4.86%
13	1302	3	3130235	TOURISM - Other Income Relating to Tourism & Area Promotion						
13	1302	3	3130235 W0250	Eastern Wheatbelt Holiday Planner	-\$35,000.00	\$0.00	-\$35,000.00	-\$29,165.00	\$0.00	-100.00%
13	1302	3	3130235 W0251	Central Wheatbelt Map	-\$4,000.00	\$0.00	-\$4,000.00	-\$4,002.00	\$0.00	-100.00%
13	1302	3	3130235 W0252	Merredin Brochures	-\$4,000.00	-\$2,220.00	-\$6,220.00	-\$4,152.00	-\$6,220.95	49.83%
13	1302	3	3130235 W0256	Tourism Package Income	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1302	3	3130235 W0258	Regional Brochure Postage	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1302	3	3130235 W0270	Cwvc Annual Memberships	-\$16,900.00	\$0.00	-\$16,900.00	-\$16,902.00	-\$14,470.00	-14.39%

13	1302	3	3130235	W0271	Consignment Merchandise	-\$12,000.00	\$0.00	-\$12,000.00	-\$9,334.00	-\$7,969.92	-14.61%
13	1302	3	3130235	W0273	Merchandise Income	-\$9,000.00	\$0.00	-\$9,000.00	-\$6,000.00	-\$8,291.82	38.20%
13	1302	3	3130235	W0274	All Other Vc Income	-\$800.00	\$0.00	-\$800.00	-\$536.00	-\$934.00	74.25%
13	1302	3	3130835		OTHER ECON - Other Income	-\$400.00	\$0.00	-\$400.00	-\$272.00	\$0.00	-100.00%
13	1302	3	3130835	CDI006	Christmas/Gala Night	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Operating Income Total						-\$117,900.00	-\$2,220.00	-\$120,120.00	-\$93,242.00	-\$59,653.43	
Tourism And Area Promotion Total						\$382,700.00	-\$1,220.00	\$381,480.00	\$247,160.00	\$260,519.39	
13	1303	2	2130300		BUILD - Employee Costs	\$179,300.00	\$0.00	\$179,300.00	\$119,536.00	\$104,183.81	-12.84%
13	1303	2	2130304		BUILD - Training & Development	\$0.00	\$0.00	\$0.00	\$0.00	\$57.73	
13	1303	2	2130309		BUILD - Travel & Accommodation	\$1,000.00	\$0.00	\$1,000.00	\$664.00	\$0.00	-100.00%
13	1303	2	2130310		BUILD - Motor Vehicle Expenses	\$7,000.00	\$0.00	\$7,000.00	\$4,664.00	\$1,944.42	-58.31%
13	1303	2	2130350		BUILD - Contract Building Services	\$10,000.00	\$0.00	\$10,000.00	\$6,664.00	\$5,950.00	-10.71%
13	1303	2	2130387		BUILD - Other Expenses	\$2,500.00	\$0.00	\$2,500.00	\$1,664.00	\$2,798.35	68.17%
13	1303	2	2130392		BUILD - Depreciation	\$22,100.00	\$0.00	\$22,100.00	\$14,736.00	\$14,653.32	-0.56%
13	1303	2	2130399		BUILD - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	\$51,864.00	\$46,857.99	-9.65%
Operating Expenditure Total						\$299,700.00	\$0.00	\$299,700.00	\$199,792.00	\$176,445.62	
13	1303	3	3130302		BUILD - Commissions - BSL & CTF	-\$500.00	\$400.00	-\$100.00	-\$64.00	-\$149.62	133.78%
13	1303	3	3130320		BUILD - Fees & Charges (Licences)	-\$7,500.00	\$0.00	-\$7,500.00	-\$5,000.00	-\$13,920.60	178.41%
13	1303	3	3130335		BUILD - Other Income	-\$500.00	\$0.00	-\$500.00	-\$336.00	\$0.00	-100.00%
Operating Income Total						-\$8,500.00	\$400.00	-\$8,100.00	-\$5,400.00	-\$14,070.22	
Building Control Total						\$291,200.00	\$400.00	\$291,600.00	\$194,392.00	\$162,375.40	
13	1308	2	2130800		OTH ECON - Employee Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1308	2	2130810		OTH ECON - Motor Vehicle Expenses	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$0.00	-100.00%
13	1308	2	2130820		OTH ECON - Communication Expenses	\$500.00	\$0.00	\$500.00	\$336.00	\$276.24	-17.79%
13	1308	2	2130865		OTH ECON - Standpipe Maintenance/Operations	\$50,400.00	\$0.00	\$50,400.00	\$33,608.00	\$20,868.44	-37.91%
13	1308	2	2130887		OTH ECON - Other Expenditure	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1308	2	2130887	CD001	Community Development Events	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1308	2	2130887	CD004	Community Development Events	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1308	2	2130887	CD006	Christmas / Gala Night	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
13	1308	2	2130899		OTH ECON - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	\$69,136.00	\$62,477.31	-9.63%
Operating Expenditure Total						\$156,600.00	\$0.00	\$156,600.00	\$104,416.00	\$83,621.99	
13	1308	3	3130821		OTH ECON - Standpipe Income	-\$8,500.00	\$0.00	-\$8,500.00	-\$5,664.00	-\$1,045.85	-81.54%
13	1302	3	3130835	CDI034	Events Trailer Hire	-\$400.00	\$0.00	-\$400.00	-\$272.00	-\$163.65	-39.83%
Operating Income Total						-\$8,900.00	\$0.00	-\$8,900.00	-\$5,936.00	-\$1,209.50	
13	1308	4	4130890		OTH ECON - Infrastructure Other (Capital)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Capital Expenditure Total						\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Other Economic Services Total						\$147,700.00	\$0.00	\$147,700.00	\$98,480.00	\$82,412.49	
Economic Services Total						\$821,600.00	-\$820.00	\$820,780.00	\$540,032.00	\$505,307.28	
14	1401	2	2140187		PRIVATE - Other Expenses	\$13,200.00	\$0.00	\$13,200.00	\$8,800.00	\$4,735.71	-46.19%
14	1401	2	2140187	PW000	Private Works General (Budgeting Only)	\$0.00	\$0.00	\$0.00	\$0.00	\$2,150.00	
14	1401	2	2140187	PW060	Demolition of Shed - 16 Solomon Street	\$0.00	\$0.00	\$0.00	\$0.00	\$208.56	
14	1401	2	2140187	PW061	151-159 Todd Street - Bush Fire Prevention	\$0.00	\$0.00	\$0.00	\$0.00	\$43.85	
14	1401	2	2140187	PW062	52 Barrack Street - Gravel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Operating Expenditure Total						\$13,200.00	\$0.00	\$13,200.00	\$8,800.00	\$7,138.12	
14	1401	3	3140120		PRIVATE - Private Works Income	-\$13,200.00	\$0.00	-\$13,200.00	-\$8,800.00	-\$10,893.91	23.79%

Operating Income Total				-\$13,200.00	\$0.00	-\$13,200.00	-\$8,800.00	-\$10,893.91		
Private Works Total				\$0.00	\$0.00	\$0.00	\$0.00	-\$3,755.79		
14	1402	2	2140200	ADMIN - Employee Costs	\$1,672,100.00	\$45,000.00	\$1,717,100.00	\$1,157,446.00	\$971,363.84	-16.08%
14	1402	2	2140203	ADMIN - Uniforms	\$8,000.00	\$0.00	\$8,000.00	\$5,336.00	\$2,764.28	-48.20%
14	1402	2	2140204	ADMIN - Training & Development	\$65,000.00	\$0.00	\$65,000.00	\$43,336.00	\$29,074.71	-32.91%
14	1402	2	2140206	ADMIN - Fringe Benefits Tax (FBT)	\$75,000.00	\$0.00	\$75,000.00	\$56,250.00	\$42,953.14	-23.64%
14	1402	2	2140210	ADMIN - Motor Vehicle Expenses	\$38,000.00	\$0.00	\$38,000.00	\$25,336.00	\$26,275.93	3.71%
14	1402	2	2140215	ADMIN - Printing and Stationery	\$23,000.00	\$0.00	\$23,000.00	\$15,336.00	\$12,287.82	-19.88%
14	1402	2	2140216	ADMIN - Postage and Freight	\$8,000.00	\$0.00	\$8,000.00	\$5,336.00	\$4,456.72	-16.48%
14	1402	2	2140220	ADMIN - Communication Expenses	\$16,500.00	\$0.00	\$16,500.00	\$11,000.00	\$8,854.51	-19.50%
14	1402	2	2140221	ADMIN - Information Technology						
14	1402	2	2140221	W0060 Corporate Business System	\$65,000.00	\$0.00	\$65,000.00	\$43,336.00	\$53,547.48	23.56%
14	1402	2	2140221	W0061 3Rd Party Mtce Agreements	\$70,000.00	\$10,000.00	\$80,000.00	\$53,336.00	\$60,195.00	12.86%
14	1402	2	2140221	W0062 Other Computer Software Expenses	\$90,100.00	\$0.00	\$90,100.00	\$60,064.00	\$44,504.52	-25.90%
14	1402	2	2140221	W0066 It Equipment	\$40,000.00	\$0.00	\$40,000.00	\$26,664.00	\$15,900.43	-40.37%
14	1402	2	2140222	ADMIN - Security	\$1,000.00	\$0.00	\$1,000.00	\$500.00	\$225.00	-55.00%
14	1402	2	2140223	ADMIN - Equipment and Furniture (Op)	\$10,000.00	\$0.00	\$10,000.00	\$6,664.00	\$0.00	-100.00%
14	1402	2	2140225	ADMIN - WHS	\$10,000.00	\$2,500.00	\$12,500.00	\$8,328.00	\$939.46	-88.72%
14	1402	2	2140226	ADMIN - Office Equipment Mtce	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$0.00	-100.00%
14	1402	2	2140230	ADMIN - Insurance Expenses (Other than Bldg and W/Con	\$93,000.00	\$0.00	\$93,000.00	\$93,000.00	\$83,725.11	-9.97%
14	1402	2	2140240	ADMIN - Advertising and Promotion	\$14,000.00	\$0.00	\$14,000.00	\$9,336.00	\$7,075.28	-24.22%
14	1402	2	2140242	ADMIN - Long Service Leave	\$0.00	\$16,000.00	\$16,000.00	\$10,664.00	\$28,410.86	166.42%
14	1402	2	2140252	ADMIN - Consultants	\$33,000.00	\$25,000.00	\$58,000.00	\$38,664.00	\$24,332.00	-37.07%
14	1402	2	2140265	ADMIN - Grounds Maintenance	\$15,300.00	\$0.00	\$15,300.00	\$10,200.00	\$10,150.42	-0.49%
14	1402	2	2140282	ADMIN - Bad Debts Expense	\$2,000.00	\$0.00	\$2,000.00	\$1,336.00	\$166.50	-87.54%
14	1402	2	2140284	ADMIN - Audit Fees	\$40,000.00	\$0.00	\$40,000.00	\$26,664.00	\$29,340.00	10.04%
14	1402	2	2140285	ADMIN - Legal Expenses	\$15,000.00	\$0.00	\$15,000.00	\$10,000.00	\$25,115.73	151.16%
14	1402	2	2140286	ADMIN - Expensed Minor Asset Purchases	\$6,700.00	\$0.00	\$6,700.00	\$4,464.00	\$537.26	-87.96%
14	1402	2	2140287	ADMIN - Other Expenses	\$30,000.00	\$0.00	\$30,000.00	\$20,000.00	\$19,697.15	-1.51%
14	1402	2	2140288	ADMIN - Building Operations						
14	1402	2	2140288	BO001 Administration Building - Building Operations	\$38,200.00	\$0.00	\$38,200.00	\$25,472.00	\$26,826.18	5.32%
14	1402	2	2140289	ADMIN - Building Maintenance						
14	1402	2	2140289	BM001 Administration Building - Building Maintenance	\$12,000.00	\$0.00	\$12,000.00	\$8,000.00	\$9,913.64	23.92%
14	1402	2	2140292	ADMIN - Depreciation	\$104,400.00	\$0.00	\$104,400.00	\$69,600.00	\$60,787.25	-12.66%
14	1402	2	2140299	ADMIN - Administration Overheads Recovered	-\$2,593,100.00	-\$49,400.00	-\$2,642,500.00	-\$1,761,672.00	-\$1,561,932.93	-11.34%
Operating Expenditure Total				\$7,200.00	\$49,100.00	\$56,300.00	\$87,332.00	\$37,487.29		
General Administration Overheads Total				\$7,200.00	\$49,100.00	\$56,300.00	\$87,332.00	\$37,487.29		
14	1403	2	2140300	PWO - Employee Costs	\$954,500.00	\$0.00	\$954,500.00	\$646,636.00	\$526,157.66	-18.63%
14	1403	2	2140301	PWO - Unrecognised Staff Liabilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	1403	2	2140303	PWO - Uniforms	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	1403	2	2140304	PWO - Training & Development	\$40,000.00	\$0.00	\$40,000.00	\$26,664.00	\$66,737.30	150.29%
14	1403	2	2140305	PWO - Recruitment	\$1,200.00	\$800.00	\$2,000.00	\$1,336.00	\$1,546.60	15.76%
14	1403	2	2140310	PWO - Motor Vehicle Expenses	\$61,000.00	\$0.00	\$61,000.00	\$40,664.00	\$29,507.33	-27.44%
14	1403	2	2140311	PWO - Consultancy	\$70,000.00	-\$30,000.00	\$40,000.00	\$26,664.00	\$24,467.40	-8.24%
14	1403	2	2140315	PWO - Printing and Stationery	\$2,000.00	\$0.00	\$2,000.00	\$1,328.00	\$430.23	-67.60%
14	1403	2	2140320	PWO - Communication Expenses	\$1,500.00	\$1,500.00	\$3,000.00	\$2,000.00	\$1,510.02	-24.50%

14	1403	2	2140323	PWO - Sick Pay	\$44,000.00	\$0.00	\$44,000.00	\$28,772.00	\$18,717.57	-34.95%
14	1403	2	2140324	PWO - Annual Leave	\$111,900.00	\$0.00	\$111,900.00	\$73,168.00	\$73,485.74	0.43%
14	1403	2	2140325	PWO - Public Holidays	\$50,000.00	\$0.00	\$50,000.00	\$33,336.00	\$18,686.94	-43.94%
14	1403	2	2140328	PWO - Supervision	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	1403	2	2140330	PWO - WHS and Toolbox Meetings	\$28,000.00	\$5,000.00	\$33,000.00	\$21,799.00	\$28,012.67	28.50%
14	1403	2	2140341	PWO - Subscriptions & Memberships	\$15,000.00	\$5,000.00	\$20,000.00	\$13,336.00	\$13,732.50	2.97%
14	1403	2	2140365	PWO - Maintenance/Operations	\$4,300.00	\$0.00	\$4,300.00	\$2,864.00	\$40.82	-98.57%
14	1403	2	2140386	PWO - Expensed Minor Asset Purchases	\$2,500.00	\$2,500.00	\$5,000.00	\$3,336.00	\$4,751.68	42.44%
14	1403	2	2140387	PWO - Other Expenses	\$8,500.00	\$0.00	\$8,500.00	\$5,672.00	\$4,547.04	-19.83%
14	1403	2	2140392	PWO - Depreciation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	1403	2	2140393	PWO - LESS Allocated to Works (PWO's)	-\$1,799,000.00	\$0.00	-\$1,799,000.00	-\$1,199,336.00	-\$1,009,219.42	-15.85%
14	1403	2	2140399	PWO - Administration Allocated	\$415,000.00	\$0.00	\$415,000.00	\$276,664.00	\$249,909.36	-9.67%
Operating Expenditure Total					\$10,400.00	-\$15,200.00	-\$4,800.00	\$4,903.00	\$53,021.44	
14	1403	3	3140301	PWO - Other Reimbursements	-\$100.00	\$0.00	-\$100.00	-\$64.00	\$0.00	-100.00%
Operating Income Total					-\$100.00	\$0.00	-\$100.00	-\$64.00	\$0.00	
Public Works Overheads Total					\$10,300.00	-\$15,200.00	-\$4,900.00	\$4,839.00	\$53,021.44	
14	1404	2	2140400	POC - Internal Plant Repairs - Wages & O/Head	\$106,800.00	\$0.00	\$106,800.00	\$71,200.00	\$12,260.90	-82.78%
14	1404	2	2140411	POC - External Parts & Repairs	\$283,200.00	\$0.00	\$283,200.00	\$188,808.00	\$130,890.88	-30.68%
14	1404	2	2140412	POC - Fuels and Oils	\$200,000.00	\$0.00	\$200,000.00	\$133,336.00	\$143,317.55	7.49%
14	1404	2	2140413	POC - Tyres and Tubes	\$20,000.00	\$0.00	\$20,000.00	\$13,336.00	\$6,583.12	-50.64%
14	1404	2	2140416	POC - Licences/Registrations	\$12,000.00	\$0.00	\$12,000.00	\$8,000.00	\$1,542.19	-80.72%
14	1404	2	2140417	POC - Insurance Expenses	\$30,400.00	\$0.00	\$30,400.00	\$30,400.00	\$28,742.13	-5.45%
14	1404	2	2140418	POC - Expendable Tools / Consumables	\$5,000.00	\$0.00	\$5,000.00	\$3,336.00	\$3,554.12	6.54%
14	1404	2	2140492	POC - Depreciation	\$371,400.00	\$0.00	\$371,400.00	\$247,330.00	\$274,330.75	10.80%
14	1404	2	2140494	POC - LESS Plant Operation Costs Allocated to Works	-\$918,400.00	\$0.00	-\$918,400.00	-\$612,264.00	-\$527,797.04	-13.80%
Operating Expenditure Total					\$110,400.00	\$0.00	\$110,400.00	\$83,752.00	\$73,424.60	
14	1404	3	3140410	POC - Fuel Tax Credits Grant Scheme	-\$23,500.00	\$0.00	-\$23,500.00	-\$15,664.00	-\$18,744.35	19.67%
Operating Income Total					-\$23,500.00	\$0.00	-\$23,500.00	-\$15,664.00	-\$18,744.35	
Plant Operating Costs Total					\$86,900.00	\$0.00	\$86,900.00	\$68,088.00	\$54,680.25	
14	1405	2	2140500	SAL - Gross Salary and Wages	\$4,280,400.00	\$0.00	\$4,280,400.00	\$2,853,600.00	\$0.00	-100.00%
14	1405	2	2140501	SAL - LESS Salaries & Wages Allocated	-\$4,280,400.00	\$0.00	-\$4,280,400.00	-\$2,853,600.00	\$0.00	-100.00%
14	1405	2	2140503	SAL - Workers Compensation Expense	\$6,000.00	\$0.00	\$6,000.00	\$4,000.00	\$41,068.25	926.71%
14	1405	2	2140505	SAL - Salary Sacrifice	\$27,000.00	\$0.00	\$27,000.00	\$18,000.00	\$16,864.36	-6.31%
14	1405	2	2140506	SAL - Parental Leave Payment (Government)	\$0.00	\$0.00	\$0.00	\$0.00	\$24,893.55	
Operating Expenditure Total					\$33,000.00	\$0.00	\$33,000.00	\$22,000.00	\$82,826.16	
14	1405	3	3140501	SAL - Reimbursement - Workers Compensation	-\$6,000.00	\$0.00	-\$6,000.00	-\$4,000.00	-\$37,211.24	830.28%
14	1405	3	3140502	SAL - Reimbursement - Parental Leave	\$0.00	\$0.00	\$0.00	\$0.00	-\$30,013.50	
14	1405	3	3140503	SAL - Reimbursement - Salary Sacrifice	-\$27,000.00	\$0.00	-\$27,000.00	-\$18,000.00	-\$16,864.36	-6.31%
Operating Income Total					-\$33,000.00	\$0.00	-\$33,000.00	-\$22,000.00	-\$84,089.10	
Salaries And Wages Total					\$0.00	\$0.00	\$0.00	\$0.00	-\$1,262.94	
14	1407	2	2140760	UNCLASS - Unclassified Expenditure						
14	1407	2	2140760 W0238	Land And Building Operating Ceaca	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
14	1407	2	2140761	UNCLASS - Insurance Expenditure	\$0.00	\$0.00	\$0.00	\$0.00	\$5,305.71	
Operating Expenditure Total					\$0.00	\$0.00	\$0.00	\$0.00	\$5,305.71	
14	1407	3	3140736	UNCLASS - Insurance Income	\$0.00	\$0.00	\$0.00	\$0.00	-\$11,292.08	
Operating Income Total					\$0.00	\$0.00	\$0.00	\$0.00	-\$11,292.08	

14	1407 4	4140710	UNCLASS - Buildings (Capital)						
14	1407 4	4140710 W0242	Purchase Of Land	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Capital Expenditure Total				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Unclassified Total				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	-\$5,986.37
Other Property & Services Total				\$104,400.00	\$33,900.00	\$138,300.00	\$160,259.00	\$134,183.88	
Grand Total				\$8,925,897.00	\$85,643.00	\$9,011,540.00	\$6,378,746.00	\$300,075.54	

Prog	Programme Description	SP	Sub-Programme Description	Type	Type Description	COA	Job	Description	Current Budget	YTD Actual	< 10%	11% to 20%	21% to 30%	31% to 40%	41% to 50%	51% to 60%	61% to 70%	71% to 80%	81% to 90%	91% to 100%	> 101%		
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120146		ROADC - Roads Outside BUA - Gravel - Roads to Recovery															
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120149		ROADC - Roads Outside BUA - Sealed - Regional Road Group															
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120149	RRG001	RRG Chandler-Merredin - Resurfacing	\$54,200.00	\$0.00													
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120149	RRG003	Bullshead Road (RRG)	\$106,600.00	\$88,613.00									83.13%				
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120149	RRG072	Crooks Road (RRG)	\$108,100.00	\$2,850.00													
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120150	RRG090	Goldfields Road (RRG)	\$404,600.00	\$0.00	0.00%												
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120149	RRG239	Merredin-Narembeen Road (Capital)	\$0.00	\$0.00													
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120150		ROADC - Roads Outside BUA - Gravel - Regional Road Group															
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120150	RRG015	Burracoppin South Road (RRG)	\$0.00	\$0.00													
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120165		ROADC - Drainage Built Up Area (Capital)															
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120165		Drainage - Capital	\$70,000.00	\$0.00	0.00%												
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120168		ROADC - Kerbing (Capital)	\$35,000.00	\$0.00	0.00%												
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120170		ROADC - Footpaths and Cycleways (Capital)															
12	Transport	1201	Construction - Streets, Roads, Bridg	4	Capital Expenditure	4120170	FC000	Footpath Construction General (Budgeting Only)	\$67,800.00	\$0.00	0.00%												
12	Transport	1203	Road Plant Purchases	4	Capital Expenditure	4120330		PLANT - Plant & Equipment (Capital)	\$703,900.00	\$321,939.03				45.74%									
12	Transport	1207	Water Transport Facilities	4	Capital Expenditure	4120790		WATER - Infrastructure Other (Capital)															
12	Transport	1207	Water Transport Facilities	4	Capital Expenditure	4120790	WC002	Watersmart Farms - Desalination Project	\$100,000.00	\$63,578.89									63.58%				
12	Transport	1207	Water Transport Facilities	4	Capital Expenditure	4120790	WC003	Merredin Recycled Water Nework Upgrade (Capital)	\$180,000.00	\$34,239.50													
13	Economic Services	1308	Other Economic Services	4	Capital Expenditure	4130890		OTH ECON - Infrastructure Other (Capital)	\$0.00	\$0.00													
14	Other Property & Services	1407	Unclassified	4	Capital Expenditure	4140710		UNCLASS - Buildings (Capital)															
14	Other Property & Services	1407	Unclassified	4	Capital Expenditure	4140710	W0242	Purchase Of Land	\$0.00	\$0.00													
									\$16,881,528.00	\$3,273,104.13		19.39%											
Summary																							
						420		Loan Liability (Current)	\$154,900.00	\$80,819.70													
						509		Land	\$0.00	\$0.00													
						512	514	Buildings	\$244,600.00	\$31,608.36													
						520		Furniture & Equipment	\$0.00	\$0.00													
						530		Plant & Equipment	\$735,600.00	\$328,139.03													
						540		Infrastructure Roads	\$5,836,700.00	\$2,230,247.64				38.21%									
						550		Infrastructure Drainage	\$70,000.00	\$0.00	0.00%												
						560		Infrastructure Footpaths	\$67,800.00	\$0.00													
						570		Infrastructure Parks & Ovals	\$8,941,528.00	\$96,463.51													
						590		Infrastructure Other	\$434,500.00	\$165,869.85				38.17%									
						701		Cashed Back Reserves	\$395,900.00	\$339,956.04													
									\$16,881,528.00	\$3,273,104.13		19.39%											

Shire of Merredin Monthly Investment Report

For the period ending: 29th February 2024

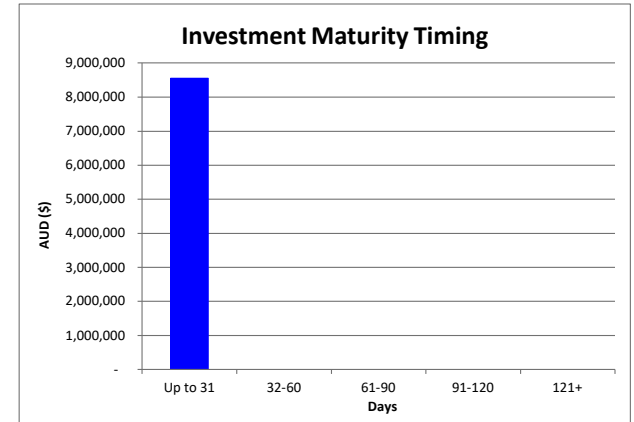
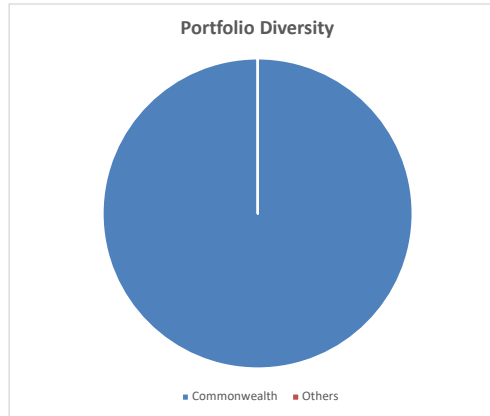
Compliance

The Investments outlined below have been undertaken in accordance with the Council adopted Policy


Deposit Ref	Deposit Date	Institution	Term (Days)	Maturity Date	Invested Interest rates	Expected Interest	Amount Invested (Days)					Total
							Up to 31	32-60	61-90	91-120	121+	
General Municipal												
Comm On Call	29/02/2024	Commonwealth	0	At Call	0.25%	-	1,464,502					1,464,502
												-
												1,464,502
Cash Backed Reserves												
Reserves	29/02/2024	Commonwealth		At Call	3.75%	-	7,085,129					7,085,129
												-
												7,085,129
												8,549,630

Interest on Investments		
Annual Budget	Year to Date Budget	Year to Date Actual
80,000	53,336	104,570
190,000	126,664	156,163
-	-	0
270,000	180,000	260,733

Deposit Ref	Deposit Date	Term (Days)	Invested Interest rates	Maturity Date	Amount Invested	Percentage of Portfolio
Commonwealth						
Comm On Call	29/02/2024	0	0.25%	At Call	1,464,502	
Reserves	29/02/2024	0	3.75%	At Call	7,085,129	
					8,549,630	100.00%
Others						
					-	0.00%
Others						
					-	0.00%
					8,549,630	100.00%



14.2 List of Accounts Paid – February 2024

<h2 style="margin: 0;">Corporate Services</h2> 	
Responsible Officer:	Leah Boehme, EMCS
Author:	As above
Legislation:	<i>Local Government Act 1995</i> <i>Local Government (Financial Management) Regulations 1996</i>
File Reference:	Nil
Disclosure of Interest:	Nil
Attachments:	Attachment 14.2A - Payments Listing February 2024

Purpose of Report

- Executive Decision
 Legislative Requirement

For Council to receive the schedule of accounts paid for the month of February 2024.

Background

The attached list of accounts paid during the month of February 2024, under Delegated Authority, is provided for Council’s information and endorsement.

Comment

Nil

Policy Implications

Nil

Statutory Implications

As outlined in the *Local Government Act 1995* and the *Local Government (Financial Management) Regulations 1996*.

Strategic Implications

∅ Strategic Community Plan

Theme: 4. Communication and Leadership

Service Area Objective: 4.2.2 The Shire is progressive while exercising responsible stewardship of its built, natural and financial resources

Priorities and Strategies for Change: Nil

∅ Corporate Business Plan

Theme: 4. Communication and Leadership

Priorities: Nil

Objectives: 4.2 Decision Making

Sustainability Implications

∅ Strategic Resource Plan

Compliance with the *Local Government (Administration) Regulations 1996* and to also give Council some direction regarding its management of finance over an extended period of time.

Risk Implications

Council would be contravening the *Local Government Act 1995* and *Local Government (Financial Management) Regulations 1996* should this item not be presented.

Financial Implications

All liabilities settled have been in accordance with the Annual Budget provisions.

Voting Requirements

Simple Majority

Absolute Majority

Resolution

Moved: Cr Anderson

Seconded:

Cr O'Neill

83358

That Council RECEIVE the schedule of accounts paid during February 2024 as listed, covering cheques, EFT's, directly debited payments and wages, as numbered and totaling \$1,138,129.18 from the Merredin Shire Council Municipal bank account and \$0 from the Merredin Shire Council Trust bank account.

CARRIED 8/0

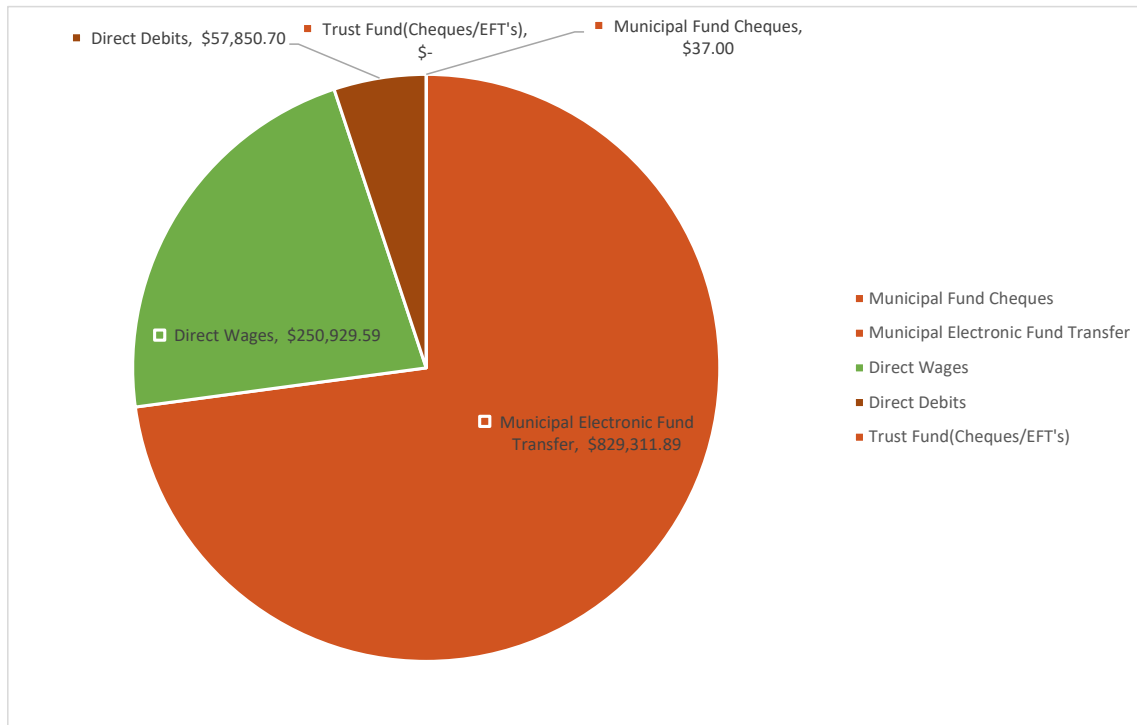
For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil



SUMMARY OF PAYMENTS FOR THE PERIOD 1/2/2024 to 29/2/2024

Account	Cheque No's	Total
Municipal Fund Cheques	25520	-\$ 37.00
Municipal Electronic Fund Transfer	EFT226738 - EFT26915	-\$ 829,311.89
Direct Wages		-\$ 250,929.59
Direct Debits	DD1311.1 - DD13148.1	-\$ 57,850.70
Trust Fund(Cheques/EFT's)	NIL	\$ -
TOTAL		-\$ 1,138,129.18



LIST OF ACCOUNTS PAID & SUBMITTED TO COMMITTEE 2024

Municipal Cheque Payments February 2024

Chq/EFT	Date	Name	Description	Amount
25520	29/02/2024	PIVOTEL	Trak Spot charges	-\$ 37.00
Cheque Payments Total				-\$ 37.00

Municipal Electronic Funds Transfer February 2024

EFT26738	01/02/2024	AVON WASTE	Waste Collection charges	-\$ 18,964.72
EFT26739	01/02/2024	ACCREDIT BUILDING SURVEYING &	Supply of Certificate of Design Compliance for proposed	-\$ 770.00
EFT26740	01/02/2024	THE ARTISAN CO. WA PTY LTD	Retention release	-\$ 42,019.69
EFT26741	01/02/2024	RON BATEMAN & CO	1 trailer plug adaptor 1 12 volt battery	-\$ 250.89
EFT26742	01/02/2024	BARTLETT MECHANICAL PTY LTD	Service PYTE78	-\$ 743.66
EFT26743	01/02/2024	BOC LIMITED	Gas cylinders for MRCLC	-\$ 91.48
EFT26744	01/02/2024	JH & L DREW T/AS COPIER SUPPORT	CWVC Monthly Photocopier	-\$ 112.85
EFT26745	01/02/2024	DANIELLE SIMONE PARKIN	Cleaning December (Gala Night artists) Kitchener Street	-\$ 175.00
EFT26746	45323	DUNNING'S DIRECT NORTHAM	Small Plant Fuel purchase	-\$ 244.81
		ref: N01003760	23/01/2024	
EFT26747	01/02/2024	MERREDIN GLAZING SERVICE	Cummings Unit 3 - Replace broken window and fly screen	-\$ 405.90
EFT26748	01/02/2024	GEARING WHEATBELT SERVICES	Cleaning service	-\$ 6,075.00
EFT26749	01/02/2024	GO MAD	Photo frames australia day awards	-\$ 81.00
EFT26750	01/02/2024	JASON SIGN MAKERS	Strutted Sign - Aluminium 2400 x 1200 Class 400 -	-\$ 2,935.26
EFT26751	01/02/2024	NEXTRA MERREDIN NEWS &	Library stationery FY23/24	-\$ 52.85
EFT26752	01/02/2024	MERREDIN PANEL & PAINT	Windscreen Replacement PTRK02 1GV1784	-\$ 814.00
EFT26753	01/02/2024	MERREDIN REFRIGERATION & AIR	Shire Admin - Investigate aircon in EMCS office, blowing	-\$ 229.56
EFT26754	01/02/2024	MERREDIN RURAL SUPPLIES	10 x water	-\$ 238.00
EFT26755	01/02/2024	MERREDIN SUPA IGA	Australia day 2024 Catering Pool Party	-\$ 913.65
EFT26756	01/02/2024	MERREDIN TOYOTA AND ISUZU UTE	Provision of 45,000km service to Shire of Merredin Toyota	-\$ 432.85
EFT26757	01/02/2024	MOVAT PTY LTD ATF MOVAT TRUST	MOVAT software monthly SMS rental	-\$ 36.90
EFT26758	01/02/2024	NIKS PLUMBING AND GAS	MRCLC - Supply and install water fountain Arcus STW78BJ	-\$ 6,102.03
EFT26759	01/02/2024	PUMP SOLUTIONS AUSTRALASIA	Kit,Shaft seal H QQEGG KBo16S1 30bar Product number	-\$ 1,145.87
EFT26760	01/02/2024	PROMPT SAFETY SOLUTIONS	Prompt Safety Solutions - Yearly Service Fee	-\$ 2,200.00
EFT26761	01/02/2024	PRESTON ROWE PATERSON PERTH PTY	Valuation of 19 Carrington Way	-\$ 1,045.00
EFT26762	01/02/2024	POOLSHOP ONLINE PTY LTD	1000ltrs liquid chlorine	-\$ 625.00
EFT26763	01/02/2024	TWO DOGS HOME HARDWARE	Burracoppin toilets - Inlet valve for female toilet.	-\$ 50.10
EFT26764	01/02/2024	ROSS'S DIESEL SERVICE	Repair Blade Tilt Buses 1HIF945	-\$ 3,351.04
EFT26765	01/02/2024	ROSE AND CROWN HOTEL	Cr Flockart Accommodation	-\$ 200.00
EFT26766	01/02/2024	SHERIDAN'S FOR BADGES	Councillor Badges - M McKenzie, R Manning, H Billing, B	-\$ 285.89
EFT26767	01/02/2024	SIGMA CHEMICALS	MRCLC - Supply of one Waterco Hydrostorm Plus 300.	-\$ 1,235.77
EFT26768	01/02/2024	SYNERGY	Electricity charges	-\$ 25,877.75
EFT26769	01/02/2024	SEEK LIMITED	Seek advert - Grandstand Bar and Restaurant Coordinato	-\$ 368.50
EFT26770	01/02/2024	SHEREE LOUISA LOWE	Australia day - face painting for pool party	-\$ 440.00
EFT26771	01/02/2024	MASON ENTERPRISES PTY LTD T/AS	Wet Hire - Telehandler @ Dam 4	-\$ 220.00
EFT26772	01/02/2024	TEAM GLOBAL EXPRESS PTY LTD (TOLL)	Freight charges	-\$ 1,740.48
EFT26773	01/02/2024	T & B CONSTRUCTION	Replacement of damaged door and door frame servicing	-\$ 2,125.92
EFT26774	01/02/2024	VANESSA AUSTRALIA	Gold leaf Jewellery Sold on Consignment for the Month of	-\$ 117.40
EFT26775	01/02/2024	WA TREASURY CORP	Guarantee Fee	-\$ 1,622.78
EFT26776	01/02/2024	WHEATBELT COFFEE TIME	Australia Day Catering - Merredin Pool	-\$ 440.00
EFT26777	01/02/2024	WA CONTRACT RANGER SERVICES PTY	Provision of Ranger Services	-\$ 6,270.00
EFT26778	01/02/2024	WHEATBELT UNIFORMS SIGNS &	Staff Uniform - Peter Hares 3 x Mens Metro Shirts with	-\$ 278.86
EFT26779	01/02/2024	WA DISTRIBUTORS PTY LTD T/A	Cleaning products	-\$ 224.20
EFT26780	01/02/2024	MERREDIN COMMUNITY RESOURCE	Job Adverts in The Phoenix - MRCLC Jobs Grandstand Bar	-\$ 1,335.58
EFT26781	07/02/2024	BCITF - BUILDING AND CONSTRUCTION	BCITF Payable Jan 2024	-\$ 331.75
EFT26782	07/02/2024	BUILDING AND ENERGY, DEPARTMENT	BSL Payable Jan 2024	-\$ 341.20
EFT26783	07/02/2024	RINGA CIVIL	Merredin Culvert Replacement	-\$ 309,650.00
EFT26784	07/02/2024	HIGGINS, S J & T S	Gravel Supply - Higgins Pit	-\$ 19,722.68
EFT26785	07/02/2024	SHIRE OF KELLERBERRIN	Street Sweeping	-\$ 1,850.00
EFT26786	07/02/2024	SALARY PACKAGING AUSTRALIA	Salary Sacrifice for employees	-\$ 1,089.42
EFT26787	08/02/2024	THE AUSTRALIAN WORKERS UNION	Payroll Deductions/Contributions	-\$ 112.00

EFT26788	08/02/2024	AUSTRALIAN SERVICES UNION	Payroll Deductions/Contributions	-\$	79.50
EFT26789	08/02/2024	DEPUTY CHILD SUPPORT REGISTRAR	Payroll Deductions/Contributions	-\$	166.24
EFT26790	15/02/2024	AUSTRALIAN TAXATION OFFICE	JAN BAS	-\$	13,142.00
EFT26791	15/02/2024	AVON WASTE	Waste collection charges	-\$	19,218.11
EFT26792	15/02/2024	ACCREDIT BUILDING SURVEYING &	Supply of Certificate of Design Compliance for proposed	-\$	385.00
EFT26793	15/02/2024	GRACE MARIA ALVARO	CWVC Jan Consignment	-\$	10.00
EFT26794	15/02/2024	BIG SKY ENTERTAINMENT (WA) PTY LTD	April Show Roy Osborne Tribut	-\$	1,320.00
EFT26795	15/02/2024	CUTTING EDGES	40 grader blades	-\$	8,005.80
EFT26796	15/02/2024	VAL CURTIS	CWVC Jan Consignment	-\$	16.00
EFT26797	15/02/2024	COMBINED TYRES PTY LTD	Repair punctured tyre - Volvo L6oF Loader (PLDRo3)	-\$	470.80
EFT26798	15/02/2024	COCKIES AG	1 cargo net	-\$	152.00
EFT26799	15/02/2024	DEVON DELIGHTS	CWVC Jan Consignment	-\$	6.00
EFT26800	15/02/2024	DUNNING'S DIRECT NORTHAM	Fuel card fee	-\$	3.85
EFT26801	15/02/2024	ENVIRONMENTAL HEALTH AUSTRALIA	Masterclass attendance for Peter Zenni and Meghna	-\$	3,229.00
EFT26802	15/02/2024	SANDY FLEAY	CWVC Jan Consignment	-\$	35.00
EFT26803	15/02/2024	BARBARA GREAVES	CWVC Jan Consignment	-\$	36.00
EFT26804	45337	GREAT SOUTHERN FUEL SUPPLIES	Fuel Charges - January 2024 (Various Vehicles)		
		<i>Fuel Card Purchases EMES</i>		-\$	82.71
		22/01/2024	\$ 82.71		
		Total	\$ 82.71		
		<i>Fuel Card Purchases EMDS</i>		-\$	735.31
		1/01/2024	\$ 92.04		
		12/01/2024	\$ 100.02		
		13/01/2024	\$ 83.02		
		15/01/2024	\$ 148.35		
		17/01/2024	\$ 77.00		
		18/01/2024	\$ 70.42		
		25/01/2024	\$ 82.06		
		29/01/2024	\$ 82.40		
		Total	\$ 735.31		
		<i>Fuel Card Purchases SCEM</i>		-\$	254.22
		5/01/2024	\$ 69.59		
		12/01/2024	\$ 79.15		
		27/01/2024	\$ 105.48		
		Total	\$ 254.22		
		<i>Fuel Card Purchases MP</i>		-\$	789.24
		2/01/2024	\$ 119.29		
		7/01/2024	\$ 116.33		
		15/01/2024	\$ 108.22		
		22/01/2024	\$ 104.10		
		25/01/2024	\$ 81.95		
		27/01/2024	\$ 133.64		
		28/01/2024	\$ 125.71		
		Total	\$ 789.24		
		<i>Fuel Card Purchases CEO</i>		-\$	477.63
		13/01/2024	\$ 114.18		
		20/01/2024	\$ 91.65		
		21/01/2024	\$ 146.97		
		30/01/2024	\$ 124.83		
		Total	\$ 477.63		
EFT26805	15/02/2024	GEARING WHEATBELT SERVICES	Cleaning services	-\$	6,100.00
EFT26806	15/02/2024	HERSEY'S SAFETY	1 towing rope rated 100 tonne	-\$	3,080.00
EFT26807	15/02/2024	JH COMPUTER SERVICES WA PTY LTD	contract cost for JH Computer Services	-\$	7,080.70
EFT26808	15/02/2024	PAMELA JAYS	CWVC Jan Consignment	-\$	52.00
EFT26809	15/02/2024	JANE DRAG	CWVC Jan Consignment	-\$	28.80

EFT26810	15/02/2024	KARNI ENGINEERING	Swimming pool - Repair of stainless steel disabled pool	-\$	363.00
EFT26811	15/02/2024	JEANETTE KOLATOWICZ	CWVC Jan Consignment	-\$	10.00
EFT26812	15/02/2024	KARIS MEDICAL GROUP	Pre-employment medical for employee	-\$	198.00
EFT26813	15/02/2024	KORBELKA COUNTRY WOMEN'S	CWVC Jan Consignment	-\$	25.00
EFT26814	15/02/2024	LOCAL PEST CONTROL	Shire admin building - Cochroaches are being found	-\$	424.75
EFT26815	15/02/2024	LANDGATE	landgate fees	-\$	61.00
EFT26816	15/02/2024	LOCAL GOVERNMENT PROFESSIONALS	Recreation and Aquatics Manager Job Advert	-\$	165.00
EFT26817	15/02/2024	MERREDIN ELECTRICS	Unit 5/1 Cummings Cres - Disconnect HWU and reconnect	-\$	165.00
EFT26818	15/02/2024	NEXTRA MERREDIN NEWS &	Stationery 2 x Dymo Label Tapes 5 x Tab Dividers (White 5)	-\$	76.40
EFT26819	15/02/2024	MERREDIN MUSEUM & HISTORICAL	Annual Grants 2023/24	-\$	5,500.00
EFT26820	15/02/2024	MERREDIN FREIGHTLINES	Freight of pool pump from Sigma chemicals to MRCLC.	-\$	148.17
EFT26821	15/02/2024	MCLEODS BARRISTERS & SOLICITORS	Review of documentation and preparation of Building	-\$	3,366.35
EFT26822	15/02/2024	MERREDIN RURAL SUPPLIES	Adaptor Metric 75 x 80 MM - Male Plasson	-\$	277.99
EFT26823	15/02/2024	MERREDIN COMMUNITY MEN'S SHED	Community Quick Grant - Laptop	-\$	1,100.00
EFT26824	15/02/2024	MURFIT ENTERPRISES	Provision of asbestos removal services - relocation of	-\$	1,100.00
EFT26825	15/02/2024	MIKE & LINDA MOORE	CWVC Jan Consignment	-\$	14.00
EFT26826	15/02/2024	MERREDIN SUPA IGA	Cummins Supplies	-\$	325.34
EFT26827	15/02/2024	MERREDIN TOYOTA AND ISUZU UTE	Service MD9740	-\$	724.00
EFT26828	15/02/2024	MEDELECT	Merredin swimming pool - Annual service of defib.	-\$	1,194.60
EFT26829	15/02/2024	MOVAT PTY LTD ATF MOVAT TRUST	SMS service January	-\$	27.40
EFT26830	15/02/2024	MARGARET BUTLER	CWVC Jan Consignment	-\$	10.00
EFT26831	15/02/2024	K.P. METCALF	CWVC Jan Consignment	-\$	115.00
EFT26832	15/02/2024	MERREDIN STEEL SUPPLIES	10mm deformed bar x 10 Lengths	-\$	342.14
EFT26833	15/02/2024	MAARLI SERVICES PTY LTD	Roadside Vegetation Mulching	-\$	2,722.50
EFT26834	15/02/2024	NIKS PLUMBING AND GAS	Unit 5/1 Cummings St - Replace 80L electric hot water unit	-\$	1,224.30
EFT26835	15/02/2024	ROBERT VICTOR NEWTON	Rates refund for assessment A612 28 COHN STREET	-\$	403.57
EFT26836	15/02/2024	OUTPOST CENTRAL PTY LTD T/AS	Pool Water Loggers	-\$	484.00
EFT26837	15/02/2024	POWERVAC COMPLETE CLEANING	Vacuum Motor 2 Stage 24VDC T300, T500e Replaces	-\$	542.95
EFT26838	15/02/2024	PUMP SOLUTIONS AUSTRALASIA	Grundfos MGE90SC 3R430-2 1.5kW B14-24-ICDAH Product	-\$	4,059.55
EFT26839	15/02/2024	CODE RESEARCH PTY LTD T/AS PWD	Website Redevelopment Premium Custom Website with	-\$	5,808.00
EFT26840	15/02/2024	TWO DOGS HOME HARDWARE	PRESSURE SPRAYER TROWL RETIC CONTROLLER	-\$	1,469.85
EFT26841	15/02/2024	ROYAL LIFE SAVING SOCIETY	Aquatic Facility Compliance Safety Assessment - Merredin	-\$	409.75
EFT26842	15/02/2024	ROSS'S DIESEL SERVICE	HYDRALYTE SUGAR FREE SATCHELS PK OF 60	-\$	277.72
EFT26843	15/02/2024	ROMAN CATHOLIC CHURCH MERREDIN	Catering Morning Melodies	-\$	400.00
EFT26845	15/02/2024	BRADY AUSTRALIA PTY LTD T/AS SETON	Part No. A49979 SQWINCHER CONCENTRATE 2L ASSORTED	-\$	1,150.12
EFT26846	15/02/2024	SYNERGY	Electricity charges	-\$	53,913.87
EFT26847	15/02/2024	SEEK LIMITED	Seek ad for the Community Development Officer role	-\$	313.50
EFT26848	15/02/2024	IAN STUBBS	CWVC Jan Consignment	-\$	30.00
EFT26849	15/02/2024	SHRED-X PTY LTD	Monthly shred bin rental	-\$	300.51
EFT26850	15/02/2024	SANOKIL	Annual Sanitary waste disposal	-\$	8,797.80
EFT26851	15/02/2024	SOW SEEDS OF WELLNESS	CWVC Jan Consignment	-\$	6.40
EFT26852	15/02/2024	JORDAN SPRIGG SCULPTURES	CWVC Jan Consignment	-\$	15.00
EFT26853	15/02/2024	TELSTRA	SES Telephone charges	-\$	84.89
EFT26854	15/02/2024	PUBLIC TRANSPORT AUTHORITY	Trans WA fares	-\$	1,243.17
EFT26855	15/02/2024	TEAM GLOBAL EXPRESS PTY LTD (TOLL)	freight of signs	-\$	221.95
EFT26856	15/02/2024	B & M TOWNSON	2024 Eric Hind Scholarship winner Marielle-Ann Townson	-\$	1,000.00
EFT26857	15/02/2024	VANGUARD PRINT	Monthly Storage & Distribution or EWVG Brochure for	-\$	68.35
EFT26858	15/02/2024	WATER CORPORATION	water charges	-\$	817.97
EFT26859	15/02/2024	WA LOCAL GOVERNMENT ASSOC.	Elected Member Essentials - Understanding Financial	-\$	770.00
EFT26860	15/02/2024	WEST AUSTRALIAN SHALOM HOUSE	Rates refund for assessment A1101 22 DUFF STREET	-\$	701.62
EFT26861	15/02/2024	WA CONTRACT RANGER SERVICES PTY	Provision of Ranger Services	-\$	4,702.50
EFT26862	15/02/2024	WHEATBELT UNIFORMS SIGNS &	Employee PPE	-\$	77.88
EFT26863	15/02/2024	WA DISTRIBUTORS PTY LTD T/A	cleaning products	-\$	605.10
EFT26864	15/02/2024	MERREDIN COMMUNITY RESOURCE	CDO Job Ad in Phoenix	-\$	335.90
EFT26865	21/02/2024	THE AUSTRALIAN WORKERS UNION	Payroll Deductions/Contributions	-\$	112.00
EFT26866	21/02/2024	AUSTRALIA POST	Postage charges	-\$	536.16
EFT26867	21/02/2024	AUSTRALIAN SERVICES UNION	Payroll Deductions/Contributions	-\$	79.50
EFT26868	21/02/2024	DEPUTY CHILD SUPPORT REGISTRAR	Payroll Deductions/Contributions	-\$	166.24

EFT26869	21/02/2024	WESFARMERS KLEENHEAT GAS	Bulk LPG for MRCLC	-\$	690.72
EFT26870	21/02/2024	SHIRE OF WESTONIA	CWVC Jan Consignment	-\$	40.00
EFT26871	21/02/2024	SALARY PACKAGING AUSTRALIA	Salary Sacrifice for Employees	-\$	1,089.42
EFT26872	29/02/2024	AVON WASTE	Domestic Waste collection FY23/24	-\$	18,902.20
EFT26873	29/02/2024	ACCREDIT BUILDING SURVEYING &	Supply of Certificate of Design Compliance for proposed	-\$	385.00
EFT26874	29/02/2024	AUSWEST PLUMBING AND CIVIL (WA)	fix pipe at rec ground	-\$	143.00
EFT26875	29/02/2024	RON BATEMAN & CO	poly bush poly nipple camlock fittings brass ball valve poly	-\$	180.00
EFT26876	29/02/2024	BOC LIMITED	Gas cylinders for MRCLC	-\$	95.89
EFT26877	29/02/2024	JH & L DREW T/AS COPIER SUPPORT	CWVC Monthly Photocopier charges	-\$	219.00
EFT26878	29/02/2024	CIRCUITWEST	Show - Bruce 26th March 2024	-\$	6,600.00
EFT26879	29/02/2024	WORLDWIDE EAST PERTH	Business Cards - Generic - 250	-\$	316.00
EFT26880	29/02/2024	COMBINED TYRES PTY LTD	Tube and Tyre Repair	-\$	159.50
EFT26881	45351	DUNNING'S DIRECT NORTHAM	Fuel card purchase	-\$	81.15
ref: N01016477 19/02/2024					
EFT26882	29/02/2024	DUFF CONSULTING GROUP	Staff Training	-\$	6,291.60
EFT26883	29/02/2024	DEPARTMENT OF FIRE & EMERGENCY	ESLB 3rd Qtr Contribution	-\$	64,735.63
EFT26884	29/02/2024	GEARING WHEATBELT SERVICES	Monthly Cleaning Services	-\$	5,562.50
EFT26885	29/02/2024	DAVID HATCH	Supply & Installation - Flow Sensor, Dam 1, Pump 2	-\$	4,400.00
EFT26886	29/02/2024	HERSEY'S SAFETY	2 BROOM HEADS 24 MAGIC TREES 1 BOX OF LEN,S	-\$	886.34
EFT26887	29/02/2024	JH COMPUTER SERVICES WA PTY LTD	HP Elitebook - As per Quote 0000000496-Do1	-\$	2,788.50
EFT26888	29/02/2024	KARIS MEDICAL GROUP	Staff Pre-employment medical	-\$	396.00
EFT26889	29/02/2024	NEXTRA MERREDIN NEWS &	CT Toners	-\$	152.45
EFT26890	29/02/2024	MERREDIN FREIGHTLINES	Delviery of IBC to Merredin	-\$	806.52
EFT26891	29/02/2024	MERREDIN RURAL SUPPLIES	Water Refils x 10	-\$	170.00
EFT26892	29/02/2024	MERREDIN AMATEUR SWIMMING CLUB	Shire of Merredin Quick 2024 Grant - Swim Fins, Agility	-\$	1,631.00
EFT26893	29/02/2024	MERREDIN SUPA IGA	Library - Sundry Consumables	-\$	102.52
EFT26894	29/02/2024	MILLS OAKLEY LAWYERS	Preliminary Inquiry	-\$	21,263.00
EFT26895	29/02/2024	MARKETFORCE - OMNICOM MEDIA	Advert for Development Assessment Panel Application -	-\$	674.12
EFT26896	29/02/2024	MERREDIN STEEL SUPPLIES	11x 12mm Deformed Bar	-\$	344.82
EFT26897	29/02/2024	MOORE AUSTRALIA (WA) PTY LTD	2024 Budget Workshop - Leticia Richards 23 February 2024	-\$	2,310.00
EFT26898	29/02/2024	PLANWEST	Provision of Planning Services to the Shire of Merredin	-\$	20,751.50
EFT26899	29/02/2024	PAGODA RESORT AND SPA	Accommodation, parking and meals for Leticia Richards	-\$	473.00
EFT26900	29/02/2024	TWO DOGS HOME HARDWARE	MOTOMIX 60 LITRE STIHL & Batteries	-\$	1,258.76
EFT26901	29/02/2024	ROSS'S DIESEL SERVICE	800 HR SERVICE & HYDRAULICS	-\$	2,780.03
EFT26902	29/02/2024	SYNERGY	Electricity charges	-\$	1,321.20
EFT26903	29/02/2024	SHIRE OF KELLERBERRIN	Hire of Shire of Kellerberrin Street Sweeper	-\$	3,330.00
EFT26904	29/02/2024	TELSTRA	telephone charges	-\$	2,566.30
EFT26905	29/02/2024	PUBLIC TRANSPORT AUTHORITY	TransWA fares	-\$	640.31
EFT26906	29/02/2024	TOPLINE EARTHMOVING	Supply of 14T excavator and operator associated with the	-\$	3,190.00
EFT26907	29/02/2024	VANESSA AUSTRALIA	Paua Shell Earring and Paua Shell Necklace Jewellery Sold	-\$	57.41
EFT26908	29/02/2024	WATER CORPORATION	water charges	-\$	3,626.42
EFT26909	29/02/2024	WA LOCAL GOVERNMENT ASSOC.	Council Member Essentials - Understanding Local	-\$	1,254.00
EFT26910	29/02/2024	WHEATBELT EQUIPMENT PTY LTD	Inspect warning light on dashboard - repair costs raise as	-\$	396.00
EFT26911	29/02/2024	THE M D & R N WILLIS FAMILY TRUST	AVL 4G changeover as directed by Felix McQuistan - BFB &	-\$	1,744.05
EFT26912	29/02/2024	WHEATBELT UNIFORMS SIGNS &	Quote QU0359 - shirts for Manager and Admin staff	-\$	2,475.72
EFT26913	29/02/2024	WA DISTRIBUTORS PTY LTD T/A	PacVac Super Pro 700 - As per quote 3799	-\$	1,236.35
EFT26914	29/02/2024	WILD POPPY CAFE	Catering for Great Eastern Country Zone Procurement	-\$	225.00
EFT26915	29/02/2024	MERREDIN COMMUNITY RESOURCE	Promotion Morning Melodies catering	-\$	40.00
Electronic Fund Transfers Total				-\$	829,311.89
Direct Debits February 2024					
DD13111.1	01/02/2024	NER FINANCE (EQUIPMENT RENTS)	Monthly rental charge ofr Lexmark CX943	-\$	515.19
DD13114.1	08/02/2024	BEAM SUPERANNUATION CLEARING	Superannuation Payments as Per Pay Run #'s 44, 45 & 46	-\$	24,751.42
DD13116.1	21/02/2024	BEAM SUPERANNUATION CLEARING	Superannuation Payment as per Pay Run # 47	-\$	23,852.45
DD13118.1	23/02/2024	VONEX TELECOM	SOM Various Phone Accounts	-\$	644.12
DD13122.1	45349	COMMONWEALTH MASTERCARD	CORPORATE CHARGE CARD		

CORPORATE CHARGE CARD - EMCS				-\$	3,827.69
28/01/2024	Mailchimp	monthly subscription	\$ 68.90		
30/01/2024	Department of Transport	Licensing cost	\$ 113.70		
6/02/2024	Ventraip Australia	Cummins Theatre website host	\$ 14.00		
8/02/2024	Adobe Australia	Monthing Subscription	\$ 28.99		
9/02/2024	Gadgets 4 Geeks Pty L	Ipad accessories	\$ 207.60		
14/02/2024	Subway Merredin	Staff Training	\$ 528.00		
22/02/2024	Metro Hotel Perth	CR meals	\$ 4.00		
22/02/2024	Metro Hotel Perth	CR meals	\$ 11.50		
22/02/2024	Metro Hotel Perth	CR accommodation	\$ 197.00		
22/02/2024	Metro Hotel Perth	CR accommodation	\$ 197.00		
22/02/2024	Metro Hotel Perth	CR accommodation	\$ 197.00		
23/02/2024	St John Ambulance	MRCLC Defib	\$ 2,260.00		
Total			\$ 3,827.69		
CORPORATE CHARGE CARD - EMDS				-\$	3,341.33
5/02/2024	Shire of Merredin	Application for Temp toilets	\$ 416.00		
6/02/2024	Department of Water	Clearing permit application	\$ 2,400.00		
9/02/2024	EHA WA	EHA Membership	\$ 170.83		
13/02/2024	Subway Merredin	Staff Training	\$ 176.00		
20/02/2024	Shire of Merredin	Demolition Permit	\$ 178.50		
Total			\$ 3,341.33		
DD13148.1	29/02/2024	DEPARTMENT OF JUSTICE	Lodgement Fee for Registering Unpaid Fire Infringement	-\$	918.50
Direct Debits Total				-\$	57,850.70
Direct Staff Wages February 2024					
07/02/2024	Staff Wages	PP 24/01/2023 - 06/02/2024		-\$	139,229.65
21/02/2024	Staff Wages	PP 07/2/2024 - 20/02/2024		-\$	111,699.94
Direct Staff Wages Total				-\$	250,929.59
Trust Fund Cheques/EFTs January 2024					
NIL				\$	-
Trust Fund Chqs/EFTs Total				\$	-

14.3 Budget Review 2 – March 2024

<h2>Corporate Services</h2> 	
Responsible Officer:	Leah Boehme, EMCS
Author:	As above
Legislation:	<i>Local Government Act 1995</i> <i>Local Government (Financial Management) Regulations 1996</i>
File Reference:	Nil
Disclosure of Interest:	Nil
Attachments:	Attachment 14.3A – Budget Review March 2024 Attachment 14.3B – Budget Review Explanation Notes (CONFIDENTIAL)

Purpose of Report

Executive Decision

Legislative Requirement

The purpose of this report is to inform Council of proposed budget amendments as part of the statutory budget review. The review is based on the year-to-date budget figures at 29 February 2024.

Background

Regulation 33A of the *Local Government (Financial Management) Regulations 1996* provides that the Council is required to conduct a review of its approved annual budget after considering the changes in its operating environment since the beginning of the financial year, with a view to forecasting the financial impacts likely to arise for the remainder of the year. This is required to be completed between 1 January and the last day of February in each financial year.

Comment

Council is required to consider the submitted budget review and make a determination in relation to the outcomes and recommendations.

The review of the 2023/24 Annual Budget has been completed. A number of variations to existing budget allocations have been identified and included in the revised budget, which can be found in Attachment 14.3A.

It should be noted that actual costs presented in this document are representative of February 2024 end of month figures.

Issues and options considered.

The budget review has comprised of:

- a review of the adopted budget and an assessment of actual results to date against that budget;
- an assessment and projection of likely results over the remainder of the financial year against the adopted budget; and
- Consideration of any issues not provided for in the adopted budget that may need to be addressed.

The review of the adopted budget has taken into account what has transpired in the first two-thirds of the year, the likely operating environment over the remaining part of the year under prevailing economic conditions, and the most likely impact on the Council's financial position.

The focus of this review has been on ensuring that there is sufficient operational capacity to deliver the services, projects and budgeted programs as set out in the adopted 2023/24 Annual Budget and to accommodate events and issues that have arisen since budget adoption.

The most significant variations between the original adopted budget and the revised budget are as follows:

Surplus Brought Forward

As the 2022/23 Audit had been completed prior to Budget Review 1, surplus figures were amended in the previous review.

Operating Income and Expenditure

Throughout the budget, a range of amendments are proposed. The key items of note are presented below.

Income

- Both interest earned accounts have seen more funds received than predicted. The reserve interest account is receiving around \$20,000 per month, with the municipal interest account \$13,000. It should be noted that as our municipal funds decrease as projects progress, this will reduce.
- Roads Grant income has been amended to reflect the currently predicted program. WSFN in particular will see a large decrease from the original budget, due to advice from WSFN to not complete any further 2023/24 projects while funding signoff has yet to occur. The Shire will continue to finalise outstanding works from 2021/22 and 2022/23 as this funding is available immediately.
- There has been an increase to income account 3100620 – PLAN – Planning Application Fees due to a number of large applications this year.

Expenditure

- 2040116 – MEMBERS – Election Expenses has been partially reduced, however the electoral commission has been unable to confirm the final cost for the Shire's special election to date.
- Minor amendments have been made through the Emergency Services – Bush Fire Brigade area to allow for purchase of clothing stock. Essential repairs were also completed to the Hines Hill station water tank that were not anticipated.

- It is proposed that \$5000 of the PEST – Pest Control Programs (2070553) be earmarked as a contribution to the WEROC Corella Management Program. NRM (Karl and Jacqui visited the Shire and made a request in January. They have asked WEROC Shire's for \$10,000, however as the year is mostly over, they requested \$5,000 for the remainder of the financial year.
- Operation and Maintenance Accounts in the housing area have been reviewed and adjusted where necessary. Savings have been utilised to complete repairs on a water leak in the ensuite of 16 Dobson Way. BM030 has been increased to cover the estimated cost of these repairs. W0245 – Housing Maintenance, has also been increased to allow for unforeseen maintenance that may arise.
- 2100652 – PLAN – Consultants has been increased due to a large number of Building applications and to finalise the Local Planning Scheme and Strategy reviews. These funds have been offset by an increase to income account 3100620 – PLAN – Planning Application Fees from a number of large applications this year.
- 21001920 – SAN – Depreciation has had a large increase due to the infrastructure revaluations being processed at the completion of last year and extra items being depreciated to this account.
- During Budget Review 1, extra funds were added to 2110200 SWM AREAS – Salaries to cover a relief manager and handover period. These funds were not all required. It is proposed that the available funds from this account be moved to capital and earmarked for use on required maintenance and renewal projects at the Swimming Pool facility. Should these not be completed prior to 30 June 2024, the proposal would be to roll the funds to the 2024/25 Annual Budget to allow works to occur prior to the commencement of the new pool season.
- A surplus in 2110300 – REC – Employee Costs will be likely, due to the MRCLC not yet being fully staffed and only a small portion of the financial year remaining. It is proposed that \$50,000 is transferred to capital in preparation for capital works to be required moving forward.
- W0060 Corporate Business Systems has been increased to allow for the implementation of electronic rates, infringement and customer service synergy modules that we do not currently have access to.
- 2140304 – PWO – Training and Development has been significantly increased due to current expenditure being higher than budgeted. This has seen significant training occur for outside staff.
- 2140411 – POC – External Plant & Repairs has been increase by \$15,000 to allow for repairs to a truck.

Capital Expenditure

Capital expenditure has various proposed amendments, the main items are outlined below:

- LC022 – Merredin Landfill – Generator Purchase has been increased utilising funding from DC000 – Drainage Replacement GL.
- \$50,000 has been added to the MRCLC (Capital) account from savings made in the MRCLC employee costs expense account.
- The pool septic system upgrade and pool filtration project were both completed for slightly less than budgeted.

- \$50,000 has been added to a new account, Swimming Pool (Capital). These funds have come from savings in the Swim Areas employee costs.
- \$30,000 has been moved from an operational account to allow for the purchase of a new pump for Dam 1. PC030 is where the funds have been allocated.

Further explanation of the proposed amendments can be found in Confidential Attachment 14.3B.

Policy Implications

Nil

Statutory Implications

As outlined in the *Local Government Act 1995* and *Local Government (Financial Management) Regulations 1996*.

Strategic Implications

∅ Strategic Community Plan

Theme:	4. Communication and Leadership.
Service Area Objective:	4.2.2 The Shire is progressive while exercising responsible stewardship of its built, natural and financial resources. 4.2.3 The Council is well informed in their decision-making, supported by a skilled administration team who are committed to providing timely, strategic information and advice.
Priorities and Strategies for Change:	Nil

∅ Corporate Business Plan

Theme:	4. Communication and Leadership.
Priorities:	P4.3 Maximising the value of Shire Assets.
Objectives:	Nil

Sustainability Implications

∅ Strategic Resource Plan

Nil

Risk Implications

Compliance with the *Local Government (Administration) Regulations 1996* and to ensure Council have direction regarding the management of finances over an extended period of time.

Financial Implications

Suggested amendments to the 2023/24 Annual Budget, as outlined in Attachment 14.3A.

Voting Requirements

Simple Majority

Absolute Majority

Resolution

Moved: Cr Manning

Seconded:

Cr Anderson

That Council;

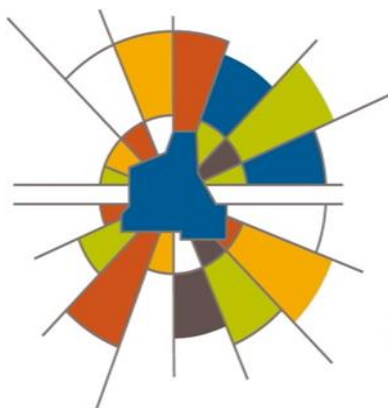
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1. APPROVES the review of the 2023/24 Annual Budget (Budget Review 2) as at 29 February 2024;
2. AUTHORISES the recommended budget amendments, as detailed in Attachment 14.3A; and
3. PROVIDES a copy of the 2023/24 Annual Budget Review and determination to the Department of Local Government, Sport and Cultural Industries, in accordance with Regulation 33A of the Local Government (Financial Management) Regulations 1996.

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil



SHIRE OF
MERREDIN
 INNOVATING THE WHEATBELT

Shire of Merredin

Budget Review

For The Period Ending

29/02/2024

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SHIRE OF MERREDIN
Statement of Financial Activity Ending 29 February 2024

Description	Note	2023/2024		2023/2024
		Current Budget	YTD Actual	Forecast
OPERATING ACTIVITIES				
Net current assets at start of financial year - surplus/(deficit)	2(b)(i)	3,934,246	3,934,246.00	3,934,246
Revenue from operating activities				
Rates		5,298,000	5,298,034.17	5,298,000
Operating grants, subsidies and contributions	11	922,100	824,004.37	1,745,000
Fees and charges		843,950	859,773.23	892,300
Interest earnings		323,700	309,357.20	404,528
Other revenue		279,600	193,880.38	356,300
Profit on disposal of assets	6	113,800	0.00	84,500
		\$7,781,150	\$7,485,049.35	\$8,780,628
Expenditure from operating activities				
Employee costs		(4,963,260)	(2,913,679.01)	(4,512,430)
Materials and contracts		(3,717,590)	(1,846,812.67)	(4,171,070)
Utility charges		(520,350)	(292,523.40)	(507,750)
Depreciation on non-current assets		(5,876,500)	(3,436,149.65)	(5,903,700)
Interest expenses		(134,600)	(13,386.39)	(101,000)
Insurance expenses		(271,260)	(255,928.98)	(262,410)
Other expenditure		(262,200)	(153,683.05)	(325,800)
Loss on disposal of assets	6	(11,700)	0.00	(11,700)
		(\$15,757,460)	(\$8,912,163.15)	(\$15,795,860)
Non-cash amounts excluded from operating activities	2(b)	5,774,400	3,436,149.65	5,830,900
Amount attributable to operating activities		(\$2,201,910)	\$2,009,036	(\$1,184,332)
Investing Activities				
Non-operating Grants,Subsidies and Contributions	10	12,096,098	2,622,396.78	10,644,698
Proceeds from Disposal of Assets	8	205,900	0.00	146,000
Self Supporting Loans	5	36,800	18,192.48	36,800
Amount attributable to Investing Activities		\$12,338,798	\$2,640,589.26	\$10,827,498
Less: CAPITAL WORKS PROGRAMME				
Buildings		(244,600)	(54,602.96)	(392,600)
Plant and equipment		(735,600)	(339,875.43)	(1,312,100)
Infrastructure - Roads		(5,836,700)	(2,224,700.34)	(4,284,300)
Infrastructure - Footpaths		(67,800)	0.00	(67,800)
Infrastructure - Drainage		(70,000)	0.00	(85,000)
Infrastructure - Parks & Gardens		(8,941,528)	(96,463.51)	(8,966,528)
Infrastructure - Other		(434,500)	(142,233.45)	(399,000)
	7	(\$16,330,728)	(\$2,857,875.69)	(\$15,507,328)
Financing Activities				
Proceeds From New Debentures	11	1,480,000	1,480,000.00	1,480,000
Reserves from reserves	12	1,339,200	290,300.00	1,254,600
Repayments of Debentures	11	(154,900)	(80,819.70)	(99,100)
Transfers to Reserves	12	(395,900)	(339,956.04)	(700,428)
Amount attributable to financing activities		\$2,268,400	\$1,349,524.26	\$1,935,072
Closing funding surplus/(deficit)		8,806	7,075,520	5,156

SHIRE OF MERREDIN
Statement of Comprehensive Income
For The Period Ending 29 February 2024

Description	Note	2023/2024		2023/2024
		Current Budget	YTD Actual	Forecast
OPERATING REVENUE				
General Purpose Funding		5,835,820	5,732,520.70	5,915,848
Governance		14,000	12,079.34	14,000
Law, Order & Public Safety		109,260	83,938.97	804,160
Health		11,150	10,718.39	11,000
Education & Welfare		27,800	16,100.89	25,800
Housing		45,000	51,750.34	55,000
Community Amenities		641,900	669,419.19	767,300
Recreation & Culture		107,900	73,698.52	103,600
Transport		639,200	607,630.98	773,300
Economic Services		136,720	74,933.15	130,520
Other Property & Services		98,600	152,258.88	165,100
<i>Total Operating Revenue</i>		\$7,667,350	\$7,485,049.35	\$8,765,628
Less: OPERATING EXPENDITURE (Excluding Borrowing Costs Expenses)				
General Purpose Funding		(246,000)	(62,969.83)	(246,600)
Governance		(966,100)	(424,684.39)	(953,200)
Law, Order & Public Safety		(594,900)	(359,121.63)	(603,700)
Health		(298,500)	(172,476.95)	(160,600)
Education & Welfare		(142,100)	(85,757.96)	(134,900)
Housing		(443,400)	(247,103.23)	(442,200)
Community Amenities		(1,810,500)	(1,051,937.32)	(1,885,800)
Recreation & Culture		(4,560,460)	(2,703,266.18)	(4,407,260)
Transport		(5,365,200)	(2,952,015.52)	(5,405,200)
Economic Services		(974,900)	(580,240.43)	(1,007,200)
Other Property & Services		(209,100)	(259,203.32)	(258,600)
<i>Total Operating Expenditure</i>		(\$15,611,160)	(\$8,898,776.76)	(15,505,260)
Less: BORROWING COSTS EXPENSES				
Education & Welfare		(21,000)	(13,386.39)	(21,000)
Recreation & Culture		(113,600)	0.00	(113,600)
<i>Total Borrowing Costs Expense</i>		11 (\$134,600)	(\$13,386.39)	(134,600)
Plus: GRANTS/CONTRIBUTIONS FOR THE DEVELOPMENT OF ASSETS				
Community Amenities		82,700	79,523.18	79,500
Recreation & Culture		6,318,598	0.00	6,318,598
Transport		5,694,800	2,542,873.60	4,246,600
<i>Total Grants/Contributions</i>		10 \$12,096,098	\$2,622,396.78	10,644,698
Plus: PROFIT/(LOSS) ON DISPOSAL OF ASSETS				
Education & Welfare		\$0	\$0	0
Transport		\$102,100	\$0	72,800
<i>Total Profit/(Loss) on Disposal</i>		8 \$102,100	\$0	72,800
NET PROFIT/(LOSS) RESULT	3	\$4,119,788	\$1,195,282.98	\$3,629,466
Other Comprehensive Income		\$0	0.00	0
TOTAL COMPREHENSIVE INCOME		\$4,119,788	\$1,195,282.98	3,629,466

SHIRE OF MERREDIN
Statement of Comprehensive Income
For The Period Ending 29 February 2024

Description	2023/2024		2023/2024
	Budget	YTD Actual	Forecast
OPERATING REVENUE			
Rates	5,298,000	5,298,034.17	5,298,000
Operating grants, Subsidies and Contributions	923,100	824,004.37	1,745,000
Fees and Charges	842,950	859,773.23	892,300
Interest	323,700	309,357.20	404,528
Other Revenue/Income	279,600	193,880.38	356,300
<i>Total Operating Revenue</i>	\$7,667,350	\$7,485,049.35	\$8,696,128
Less: OPERATING EXPENDITURE			
Employee Costs	(4,963,260)	(2,913,679.01)	(4,512,430)
Materials And Contracts	(3,717,590)	(1,846,812.67)	(4,171,070)
Depreciation On Non Current Assets	(5,876,500)	(3,436,149.65)	(5,903,700)
Insurance Expenses	(271,260)	(255,928.98)	(262,410)
Interest Expenses	(134,600)	(13,386.39)	(101,000)
Utilities (Gas, Electricity, Water Etc)	(520,350)	(292,523.40)	(507,750)
Other Expenditure	(262,200)	(153,683.05)	(325,800)
<i>Total Operating Expenditure</i>	(\$15,745,760)	(\$8,912,163.15)	(\$15,784,160)
Non-operating grants, subsidies and contributions	12,096,098	2,622,396.78	10,644,698
Gain On Asset Disposals	113,800	0.00	84,500
Loss On Asset Disposal	(11,700)	0.00	(11,700)
	\$12,198,198	\$2,622,396.78	\$10,717,498
NET PROFIT/(LOSS) RESULT	\$4,119,788	\$1,195,282.98	\$3,629,466
Other Comprehensive Income	\$0	\$0.00	\$0.00
TOTAL COMPREHENSIVE INCOME	\$4,119,788	\$1,195,282.98	\$3,629,466

OPERATING EXPENDITURE / REVENUE SUMMARY

29 February 2024

Function/Sub Function	2023/2024 Current Budget	2023/2024 Actuals	2023/2024 EOY Forecast	2023/2024 Difference
3 General Purpose Funding				
<u>Income</u>				
Rates	5,430,000	5,369,916.01	5,428,500	(1,500)
Other General Purpose Funding	405,820	362,604.69	487,348	81,528
	<u>5,835,820</u>	<u>5,732,520.70</u>	<u>5,915,848</u>	<u>80,028</u>
<u>Expenditure</u>				
Rates	244,900	62,916.52	246,100	(1,200)
Other General Purpose Funding	1,100	53.31	500	600
	<u>246,000</u>	<u>62,969.83</u>	<u>246,600</u>	<u>(600)</u>
4 Governance				
<u>Income</u>				
Other Governance	14,000	12,079.34	14,000	-
	<u>14,000</u>	<u>12,079.34</u>	<u>14,000</u>	<u>-</u>
<u>Expenditure</u>				
Members of Council	301,200	150,715.70	289,700	11,500
Other Governance	664,900	273,968.69	663,500	1,400
	<u>966,100</u>	<u>424,684.39</u>	<u>953,200</u>	<u>12,900</u>
5 Law, Order & Public Safety				
<u>Income</u>				
Fire Prevention	2,000	3,972.16	4,000	2,000
Animal Control	9,100	7,687.06	8,100	(1,000)
Law, Order & Public Safety	-	-	0	-
Emergency Services - BFB	71,360	52,179.00	619,560	548,200
Emergency Services - SES	26,800	20,100.75	172,500	145,700
	<u>109,260</u>	<u>83,938.97</u>	<u>804,160</u>	<u>694,900</u>
<u>Expenditure</u>				
Fire Prevention	133,300	82,588.17	134,600	(1,300)
Animal Control	235,500	139,716.15	237,700	(2,200)
Law, Order & Public Safety	119,800	65,621.67	121,000	(1,200)
Emergency Services - BFB	79,500	64,683.35	80,200	(700)
Emergency Services - SES	26,800	6,512.29	30,200	(3,400)
	<u>594,900</u>	<u>359,121.63</u>	<u>603,700</u>	<u>(8,800)</u>
7 Health and Regulatory Services				
<u>Income</u>				
Preventive Services - Admin	11,150	10,718.39	11,000	(150)
Preventive Services - Pest	-	-	0	-
	<u>11,150</u>	<u>10,718.39</u>	<u>11,000</u>	<u>(150)</u>
<u>Expenditure</u>				
Health Inspection & Admin	267,500	170,281.84	273,900	(6,400)
Pest Control Programs	30,000	2,195.11	30,000	-
Preventive Services	1,000	-	1,000	-
	<u>298,500</u>	<u>172,476.95</u>	<u>304,900</u>	<u>(6,400)</u>
8 Education and Welfare				
<u>Income</u>				
Other Education	-	-	0	-
Aged and Disabled	10,800	5,600.89	10,800	-
Other Welfare	17,000	10,500.00	15,000	(2,000)
	<u>27,800</u>	<u>16,100.89</u>	<u>25,800</u>	<u>(2,000)</u>
<u>Expenditure</u>				
Other Education	51,000	26,861.00	51,000	-
Aged and Disabled	56,900	36,921.71	56,900	-
Other Welfare	55,200	35,361.64	48,000	7,200
	<u>163,100</u>	<u>99,144.35</u>	<u>155,900</u>	<u>7,200</u>
9 Housing				
<u>Income</u>				
Other Housing	28,000	30,910.84	33,000	5,000
Community Housing	17,000	20,839.50	22,000	5,000
	<u>45,000</u>	<u>51,750.34</u>	<u>55,000</u>	<u>10,000</u>
<u>Expenditure</u>				

	Other Housing	431,400	236,357.41	425,700	5,700
	Community Housing	12,000	10,745.82	16,500	(4,500)
		443,400	247,103.23	442,200	1,200
10	Community Amenities				
	Income				
	Sanitation	695,200	673,061.81	682,800	(12,400)
	Urban Stormwater Drainage	-	-	0	-
	Protection of the Environment	7,000	3,843.18	3,800	(3,200)
	Town Planning and Regional Development	10,000	63,932.05	70,300	60,300
	Other Community Amenities	12,400	8,105.33	10,400	(2,000)
		724,600	748,942.37	767,300	42,700
	Expenditure				
	Sanitation	1,199,200	769,625.68	1,236,900	(37,700)
	Urban Stormwater Drainage	68,600	4,225.31	68,600	-
	Protection of the Environment	100,900	48,928.48	102,700	(1,800)
	Town Planning and Regional Development	173,900	117,932.23	212,900	(39,000)
	Other Community Amenities	267,900	111,225.62	264,700	3,200
		1,810,500	1,051,937.32	1,885,800	(75,300)
11	Recreation And Culture				
	Income				
	Public Halls and Civic Centres	25,800	19,523.35	22,000	(3,800)
	Swimming Areas / Beaches	35,000	33,719.84	33,800	(1,200)
	Other Sport and Recreation	6,324,598	3,121.43	6,323,398	(1,200)
	Television and Broadcasting	-	-	0	-
	Libraries	1,000	976.29	1,200	200
	Heritage	20,000	-	20,000	-
	Other Culture	20,100	16,357.61	21,800	1,700
		6,426,498	73,698.52	6,422,198	(4,300)
	Expenditure				
	Public Halls and Civic Centres	250,850	127,975.42	253,200	(2,350)
	Swimming Areas / Beaches	477,200	278,922.24	429,600	47,600
	Other Sport and Recreation	2,708,850	1,605,648.73	2,594,800	114,050
	Television and Broadcasting	200	171.17	200	-
	Libraries	431,400	238,877.12	433,800	(2,400)
	Heritage	122,860	79,245.41	126,860	(4,000)
	Other Culture	682,700	372,426.09	682,400	300
		4,674,060	2,703,266.18	4,520,860	153,200
12	Transport				
	Income				
	Construction Sts/Rds/Bridges/Depots	5,505,700	2,513,069.60	4,057,500	(1,448,200)
	Maintenance Sts/Rds/Bridges/Depots	563,200	556,082.77	697,300	134,100
	Road Plant Purchases	113,800	-	84,500	(29,300)
	Traffic Control (Vehicle Licensing)	76,000	51,548.21	76,000	-
	Water Transport Facilities	189,100	29,804.00	189,100	-
		6,447,800	3,150,504.58	5,104,400	(1,343,400)
	Expenditure				
	Construction Sts/Rds/Bridges/Depots	-	-	0	-
	Maintenance Sts/Rds/Bridges/Depots	5,131,200	2,883,127.48	5,170,600	(39,400)
	Road Plant Purchases	11,700	-	11,700	-
	Traffic Control (Vehicle Licensing)	105,000	67,298.84	105,600	(600)
	Water Transport Facilities	129,000	1,589.20	129,000	-
		5,376,900	2,952,015.52	5,416,900	(40,000)
13	Economic Services				
	Income				
	Tourism & Area Promotion	119,720	59,653.43	113,520	(6,200)
	Building Control	8,100	14,070.22	14,600	6,500
	Other Economic Services	8,900	1,209.50	2,400	(6,500)
		136,720	74,933.15	130,520	(6,200)

Expenditure					
	Tourism & Area Promotion	514,600	320,172.82	542,100	(27,500)
	Building Control	303,700	176,445.62	306,100	(2,400)
	Other Economic Services	156,600	83,621.99	159,000	(2,400)
		<u>974,900</u>	<u>580,240.43</u>	<u>1,007,200</u>	<u>(32,300)</u>
14 Other Works & Services					
Income					
	Private Works	13,200	10,893.91	13,200	-
	General Administration Overheads	25,300	23,794.65	25,300	-
	Public Works Overheads	100	-	100	-
	Plant Operating Costs	23,500	18,744.35	26,000	2,500
	Salaries and Wages	33,000	84,089.10	97,000	64,000
	Unclassified	-	11,292.08	10,000	10,000
	Stock	3,500	3,444.79	3,500	-
		<u>98,600</u>	<u>152,258.88</u>	<u>175,100</u>	<u>76,500</u>
Expenditure					
	Private Works	13,200	7,138.12	13,200	-
	General Administration Overheads	56,300	37,487.29	25,300	31,000
	Public Works Overheads	(3,800)	53,021.44	9,400	(13,200)
	Plant Operating Costs	110,400	73,424.60	103,700	6,700
	Salaries and Wages	33,000	82,826.16	97,000	(64,000)
	Unclassified	-	5,305.71	10,000	(10,000)
		<u>209,100</u>	<u>259,203.32</u>	<u>258,600</u>	<u>(49,500)</u>
Balance Bought Forward 22/23		\$3,934,246	3,934,246.00	\$3,934,246	\$0
Total Income		\$19,877,248	10,107,446.13	\$19,425,326	(\$451,922)
Total Expenditure		\$15,757,460	8,912,163.15	\$15,795,860	(\$38,400)
Operating - Surplus / (Deficit)		\$8,054,034	5,129,528.98	\$7,563,712	(\$490,322)
Capital Expenditure		\$16,330,728	2,857,875.69	\$15,507,328	(\$823,400)
		(\$8,276,694)	2,271,653.29	(\$7,943,616)	\$333,078
	Self Supporting Loan	36,800	18,192.48	36,800	\$0
	Add Back Depreciation	5,876,500	3,436,149.65	5,903,700	\$27,200
	Less Profit on Sale	(113,800)	-	(84,500)	\$29,300
	Add Back Loss on Sale	11,700	-	11,700	\$0
	Less Transfers to Reserves	(395,900)	(339,956.04)	(700,428)	(\$304,528)
	Add Transfers ex Reserves	1,339,200	290,300.00	1,254,600	(\$84,600)
	Less Loan Repayments	(154,900)	(80,819.70)	(99,100)	\$55,800
	Add Sale of Assets	205,900	-	146,000	(\$59,900)
	Proceeds for new debentures	1,480,000	1,480,000.00	1,480,000	\$0
Net Variances - Surplus / (Deficit)		\$8,806	7,075,519.68	\$5,156	(\$3,650)

Capital Transactions 2023/2024		2023/2024	2023/2024	2023/2024	2023/2024	2023/2024	
		Current Budget	Actual	Committed Funds	Total Funds Spent	Forecast	
Function 3 - Expenditure							
Other Governance							
4030381	INVEST - Interest Employee Entitlement Reserve	5,400	5,954.02	-	5,954.02	6,900	RI
4030383	INVEST - Interest/ Transfer Plant Replacement Reserve	9,200	11,513.31	-	11,513.31	100,600	RI
4030384	INVEST - Interest Building Reserve	31,700	17,736.36	-	17,736.36	40,300	RI
4030385	INVEST - Interest Land and Development Reserve	22,900	25,275.84	-	25,275.84	29,200	RI
4030386	INVEST - Interest ICT Reserve	4,700	4,639.73	-	4,639.73	6,000	RI
4030387	INVEST - Interest Disaster Relief Fund Reserve	3,500	3,971.59	-	3,971.59	4,400	RI
4030389	INVEST - Interest Cummings Street Units Reserve	900	1,033.62	-	1,033.62	1,100	RI
4030390	INVEST - Interest Waste Management Reserve	5,400	6,017.18	-	6,017.18	6,900	RI
4030391	INVEST - Interest Unspent Grants Reserve	2,900	5,919.59	-	5,919.59	3,700	RI
4030393	INVEST - Interest/ Transfer Recreation Facilities Reserve	13,300	14,632.39	-	14,632.39	66,900	RI
4030394	INVEST - Interest Apex Park Redevelopment Reserve	1,600	4,807.77	-	4,807.77	3,528	RI
4030395	INVEST - Interest/ Transfer Merredin-Narembeen Road	294,400	238,454.64	-	238,454.64	430,900	RI
	Total Governance	395,900	339,956.04	-	339,956.04	700,428	
Function 4 - Expenditure							
Other Governance							
4040130	MEMBERS - Plant & Equipment (Capital)	-	-	-	-	-	P&E
	Total Governance	-	-	-	-	-	
Function 5 - Expenditure							
Law Order and Public Safety							
4050530	ESL BFB - Plant & Equipment (Capital)	-	-	-	-	548,200	P&E
4050630	ESL SES - Plant & Equipment (Capital)	-	-	-	-	145,700	P&E
	Total	-	-	-	-	693,900	
Function 8 - Expenditure							
Education and Welfare							
4080210	OTHER ED - Building (Capital)	-	-	-	-	-	BS
4080482	SENIORS - Loan Principal Repayments	99,100	80,819.70	-	80,819.70	99,100	L
	Total Education and Welfare	99,100	80,819.70	-	80,819.70	99,100	
Function 9 - Expenditure							
Housing							
4090210	OTH HOUSE - Building (Capital)	58,800	13,356.00	-	13,356.00	58,100	BNS
4090211	OTH HOUSE - Land (Capital)	-	-	-	-	-	BNS
	Total Housing	58,800	13,356.00	-	13,356.00	58,100	
Function 10 - Expenditure							
Community Amenities							
4100110	SAN - Building (Capital)	15,000	-	-	-	15,000	BS
4100130	SAN - Plant & Equipment (Capital) Mun	20,000	-	-	-	40,000	BS
4100180	SAN - Infrastructure Other (Capital)	105,000	35,475.06	2,992.30	38,467.36	105,000	WS
4100590	ENVIRON - Infrastructure Other (Capital)	14,500	8,940.00	-	8,940.00	9,000	WS
4100770	COM AMEN - Infrastructure Other (Capital)	-	-	-	-	-	WS
	Total Community Amenities	154,500	44,415.06	2,992.30	47,407.36	169,000	
Function 11 - Expenditure							
Recreation and Culture							
4110110	HALLS - Building (Capital)	8,000	12,575.08	-	12,575.08	12,600	BS
4110290	SWIM AREAS - Infrastructure(Capital)	35,000	-	-	-	5,000	WS
4110210	SWIM AREAS - Building (Capital)	-	11,900.00	-	11,900.00	62,000	BS
4110230	SWIM AREAS - Plant & Equipment (Capital)	-	11,736.40	-	11,736.40	12,000	P&E
4110310	REC - Other Rec Facilities Building (Capital)	44,400	11,224.58	-	11,224.58	87,500	BS
4110320	REC - Other Rec Facilities Plant & Equipment (Capital)	5,600	5,547.30	-	5,547.30	12,500	BS
4110330	REC - Plant and Equipment (Capital)	-	-	-	-	-	P&E
4110370	REC - Infrastructure Parks & Gardens (Capital)	8,941,528	96,463.51	7,420,024.11	7,516,487.62	8,966,528	PG
4110380	REC - Loan repayments	55,800	-	-	-	-	L
4110510	LIBRARY - Library Building (Capital)	21,000	-	-	-	21,000	BS
4110530	LIBRARY - Plant & Equipment (Capital)	-	-	-	-	-	P&E
4110610	HERITAGE - Infrastructure Other (Capital)	40,000	-	1,500.00	1,500.00	40,000	BS
4110730	OTHER CUL - Plant & Equipment (Capital)	6,100	6,200.00	-	6,200.00	6,200	P&E
4110710	OTHER CUL - Building (Capital)	43,900	-	1,363.64	1,363.64	43,900	BS
	Total	9,201,328	155,646.87	7,422,888	7,578,535	9,269,228	
Function 12 - Expenditure							
Transport							
4120110	ROADC - Building (Capital) Mun	13,500	-	-	-	7,000	RD
4120140	ROADC - Roads Built Up Area - Council Funded	35,000	-	-	-	35,000	RD
4120141	ROADC - Roads Outside BUA - Sealed - Council Funded	4,293,700	2,078,592.00	73,121.82	2,151,713.82	2,769,300	RD
4120144	ROADC - Roads Built Up Area - Roads to Recovery	94,500	-	-	-	94,500	RD
4120145	ROADC - Roads Outside BUA - Sealed - Roads to Recovery	502,700	44,307.00	35,000.00	79,307.00	502,700	RD
4120146	ROADC - Roads Outside BUA - Sealed - Roads to Recovery	202,300	10,338.34	-	10,338.34	202,300	RD
4120147	ROADC - Roads Outside BUA - Sealed - Roads to Recovery	-	-	-	-	-	RD
4120149	ROADC - Roads Outside BUA - Sealed - Regional Road Group	268,900	91,463.00	59,090.91	150,553.91	268,900	RD
4120150	ROADC - Roads Outside BUA - Gravel - Regional Road Group	404,600	-	81,818.18	81,818.18	404,600	RD

4120165	ROADC - Drainage Built Up Area (Capital)	70,000	-	-	-	50,000	DR
4120168	ROADC - Kerbing (Capital)	35,000	-	-	-	35,000	DR
4120170	ROADC - Footpaths and Cycleways (Capital)	67,800	-	6,000.00	6,000.00	67,800	FP
4120330	PLANT - Plant & Equipment (Capital)	703,900	321,939.03	61,653.35	383,592.38	600,000	P&E
4120790	WATER - Infrastructure Other (Capital)	280,000	97,818.39	8,396.51	106,214.90	280,000	WS
Total Transport		6,971,900	2,644,457.76	325,080.77	2,969,538.53	5,317,100.00	
Function 13 - Expenditure							
Economic Services							
4130890	OTH ECON - Infrastructure (Capital)	-	-	-	-	-	WS
Total Economic Services		-	-	-	-	-	
Function 14 - Expenditure							
Other Property and Services							
4140710	UNCLASS - Buildings (Capital)	-	-	-	-	-	BS
Total Other Property & Services		-	-	-	-	-	
Total Capital Expenditure		16,881,528	3,278,651.43	7,750,960.82	11,029,612.25	16,306,856	
Capital Income							
Function 3							
5030383	INVEST - Transfer from Plant Replacement Reserve	188,200	188,200.00	-	188,200.00	188,200	TR
5030384	INVEST - Transfer from Building Reserve	530,000	70,400.00	-	70,400.00	530,000	TR
5030386	INVEST - Transfer from ICT Reserve	40,100	31,700.00	-	31,700.00	31,700	TR
5030389	INVEST - Transfer from Cumming Street Units	-	-	-	-	-	TR
5030390	INVEST - Transfer from Waste Management Reserve	5,000	-	-	-	5,000	TR
5030394	INVEST - Transfer from Apex Park Redevelopment Reserve	308,000	-	-	-	308,000	TR
5030395	INVEST - Transfer from Merredin/Narambeen Road	267,900	-	-	-	191,700	TR
		1,339,200	290,300.00	-	290,300.00	1,254,600	
Function 8							
5080458	SENIORS - Self Supporting Loan Principal Received	36,800	18,192.48	-	18,192.48	36,800	SS
		36,800	18,192.48	-	18,192.48	36,800	
Function 11							
5110355	REC - New Loan Borrowings	1,480,000	1,480,000.00	-	1,480,000.00	1,480,000	LR
		1,480,000	1,480,000.00	-	1,480,000.00	1,480,000	
Total Capital Income		2,856,000	1,788,492.48	-	1,788,492.48	2,771,400	

Capital Expenditure - Detail Budget Review						
For The Period Ending 29th February 2024						
Account	Description	2023/2024 Budget	2023/2024 Actuals	2023/2024 Committed Funds	2023/2024 Total Funds Spent	2023/2024 Forecast
Capital Expenditure						
4040130	MEMBERS - Plant & Equipment (Capital)	-	-	-	-	-
4080210	OTHER ED - Building (Capital)	-	-	-	-	-
4050530	ESL BFB - Plant & Equipment (Capital)	-	-	-	-	548,200
4050630	ESL SES - Plant & Equipment (Capital)	-	-	-	-	145,700
4090210	OTH HOUSE - Building (Capital)	-	-	-	-	-
BC030	House 16 Dobson Way - Building (Capital)	-	-	-	-	-
BC032	House 9 Cummings Crescent - Building (Capital)	12,300	9,590.00	-	9,590.00	12,300
BC033	House 13 Cummings Crescent - Building (Capital)	17,000	-	-	-	17,000
BC034	House 17 Cummings Crescent - Building (Capital)	-	-	-	-	-
BC035	House 4 Cohn Street - Building (Capital)	4,500	3,766.00	-	3,766.00	3,800
BC036	House 10 Cohn Street - Building (Capital)	-	-	-	-	-
BC042	House 44 Jackson Way - Building (Capital)	25,000	-	-	-	25,000
4090211	OTH HOUSE - LAND (Capital)	-	-	-	-	-
4100110	SAN - Building (Capital)	-	-	-	-	-
LC041	Merredin Landfill - CCTV	15,000	-	-	-	15,000
4100130	SAN - Plant & Equipment (Capital)	-	-	-	-	-
LC022	Merredin Landfill - Generator Purchase	20,000	-	-	-	40,000
4100180	SAN - Infrastructure Other (Capital)	-	-	-	-	-
LC002	E-Waste Recycling & Re-Use Facility	105,000	35,475.06	-	35,475.06	105,000
4100590	ENVIRON - Infrastructure Other (Capital)	-	-	-	-	-
EC001	EV Chargers	14,500	8,940.00	-	8,940.00	9,000
4100770	COM AMEN - Infrastructure P&G (Capital)	-	-	-	-	-
CC001	Merredin Cemetery Fencing	-	-	-	-	-
4110110	HALLS - Building (Capital)	-	-	-	-	-
BC005	Old Administration Building - Building (Capital)	-	-	-	-	-
BC006	Womens Rest Centre Building - Building (Capital)	8,000	12,575.08	-	12,575.08	12,600
4110310	REC - Other Rec Facilities Building (Capital)	-	-	-	-	-
BC085	MRCLC (Capital)	44,400	5,677.28	9,000.00	14,677.28	87,500
4110320	REC - Other Rec Facilities Plant & Equipment (Capital)	5,600	5,547.30	-	5,547.30	12,500
4110290	SWIM AREAS - Infrastructure (Capital)	-	-	-	-	-
SC041	Pool Bowl	5,000	-	-	-	5,000
4110210	SWIM AREAS - Building (Capital)	-	-	-	-	-
SC042	Pool - Septic System	15,000	11,900.00	-	11,900.00	12,000
NEW	Swimming Pool (Capital)	-	-	-	-	50,000
4110230	SWIM AREAS - Plant & Equipment (Capital)	-	-	-	-	-
SC043	Pool - Filtration System	15,000	11,736.40	-	11,736.40	12,000
4110330	REC - Plant & Equipment (Capital)	-	-	-	-	-
4110370	REC - Infrastructure Parks & Gardens (Capital)	-	-	7,420,024.11	-	-
PC001	Apex Park Revitalisation	4,386,185	52,240.05	-	52,240.05	4,386,185
PC036	Cbd Redevelopment - Visitor Centre Relocation	370,000	416.00	-	416.00	370,000
PC037	CBD - Municipal Contribution	194,000	-	-	-	189,000
PC007	Cbd Redevelopment - Town Centre	3,381,343	43,807.46	-	43,807.46	3,381,343
PC030	Independent Water Supply	-	-	-	-	30,000
PC041	Water Tower Refurbishments	580,000	-	-	-	580,000
PC042	Playground Shades	-	-	-	-	-
PC043	Replace Softfall - MRCLC Playground	30,000	-	-	-	30,000
4110510	LIBRARY - Building (Capital)	-	-	-	-	-
BC004	North Merredin Library - Building (Capital)	21,000	-	12,300	12,300.00	21,000
4110530	LIBRARY - Plant & Equipment (Capital)	-	-	-	-	-
4110610	HERITAGE - Building (Capital)	-	-	1,500.00	-	-
HC041	Railway Museum - Precinct	40,000	-	-	-	40,000
4110710	OTHER CUL - Building (Capital)	-	-	1,363.64	-	-
BC002	Cummin Theatre - Building (Capital)	43,900	-	-	-	43,900
4110730	OTHER CUL - Plant & Equipment (Capital)	6,100	6,200.00	-	-	6,200
4120110	ROADC - Building (Capital)	13,500	-	-	-	7,000
4120140	ROADC - Roads Built Up Area - Council Funded	-	-	-	-	-
RC401	Line Marking Program	35,000	-	-	-	35,000
4120141	ROADC - Roads Outside BUA - Sealed - Council Funded	-	-	73,121.82	-	-
RC239	Merredin-Naremben Road (Capital)	4,293,700	1,794,496.11	-	1,794,496.11	2,469,300
RC239C	Merredin-Naremben Road (Capital) 9.18 - 9.18	-	284,095.89	-	284,095.89	300,000
4120145	ROADC - Roads Outside BUA - Sealed - Roads to Recovery	-	-	-	-	-
R2R000	To Be Allocated	94,500	-	-	-	44,500
R2R001	Chandler Merredin Road (R2R)	27,300	-	-	-	27,300
R2R003	Bullshead Road (R2R)	53,400	44,307.00	-	44,307.00	53,400
R2R012	Nokanning West Road (R2R)	35,200	-	-	-	35,200
R2R013	Nukarni East Road (R2R)	72,600	-	-	-	72,600
R2R014	Nukarni West Road (R2R)	56,100	-	-	-	56,100
R2R017	Fewster Rd (R2R)	104,600	-	-	-	104,600
R2R063	Korbelka Road (R2R)	99,400	-	-	-	99,400
R2R072	Crooks Road (R2R)	54,100	-	-	-	54,100
R2R090	Goldfields Road (R2R)	202,300	10,338.34	-	10,338.34	202,300
R2R179	Bower Street (R2R)	-	-	-	-	50,000
4120149	ROADC - Roads Outside BUA - Sealed - Regional Road Group	-	-	-	-	-
RRG001	Chandler-Merredin - Resurfacing (RRG)	54,200	-	-	-	54,200
RRG003	Bullshead Road (RRG)	106,600	88,613.00	-	88,613.00	106,600

RRG072	Crooks Road (RRG)	108,100	2,850.00	-	2,850.00	108,100
4120150	ROADC - Roads Outside BUA - Gravel - Regional Road Group			81,818.18		
RRG090	Goldfields Road (RRG)	404,600	-	-	-	404,600
4120165	ROADC - Drainage Built Up Area (Capital)			-		
DC000	Drainage Replacement (Budgeting Only)	70,000	-	-	-	50,000
DC142	French Avenue - Drainage Capital	-	-	-	-	-
4120168	ROADC - Drainage Built Up Area (Capital)			-		
KC000	Kerbing Replacement (Budgeting Only)	35,000	-	-	-	35,000
4120170	ROADC - Footpaths and Cycleways (Capital)			6,000.00		
FC000	Footpath Construction General (Budgeting Only)	67,800	-	-	-	67,800
4120330	PLANT - Plant & Equipment (Capital)	703,900	321,939.03	61,653.35	383,592.38	600,000
4120790	WATER - Infrastructure other (Capital)			8,396.51		
WC002	Watersmart Farms - Desalination Project	100,000	63,578.89	-	63,578.89	100,000
WC003	MRWN Upgrade	180,000	34,239.50	-	34,239.50	180,000
	Total Expenditure	16,330,728	2,852,328.39	7,675,177.61	2,929,081.74	15,507,328

<u>Reserve Funds</u>	2023/24 Budget \$	2023/24 Estimated YTD \$	2023/24 Forecast \$
Employee Entitlement			
<i>Opening Balance</i>	377,063	377,062.99	377,063
Interest Earned During Year	5,400	5,954.02	6,900
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	0	0.00	0
<i>Closing Balance</i>	\$382,463	\$383,017.01	\$383,963
Plant Replacement			
<i>Opening Balance</i>	729,127	729,126.90	729,127
Interest Earned During Year	9,200	11,513.31	11,700
Transfer From Municipal Fund	0	0.00	88,900
Transfer To Municipal Fund	188,200	188,200.00	188,200
<i>Closing Balance</i>	\$550,127	\$552,440.21	\$641,527
Building			
<i>Opening Balance</i>	1,123,227	1,123,226.89	1,123,227
Interest Earned During Year	31,700	17,736.36	40,300
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	530,000	70,400.00	530,000
<i>Closing Balance</i>	\$624,927	\$1,070,563.25	\$633,527
Land and Development			
<i>Opening Balance</i>	1,600,696	1,600,695.79	1,600,696
Interest Earned During Year	22,900	25,275.84	29,200
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	0	0.00	0
<i>Closing Balance</i>	\$1,623,596	\$1,625,971.63	\$1,629,896
APEX Park Development			
<i>Opening Balance</i>	304,472	304,471.78	304,472
Interest Earned During Year	1,600	4,807.77	3,528
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	253,000	0.00	308,000
<i>Closing Balance</i>	\$53,072	\$309,279.55	(\$0)
ITC			
<i>Opening Balance</i>	293,830	293,829.54	293,830
Interest Earned During Year	4,700	4,639.73	6,000
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	40,100	31,700.00	31,700
<i>Closing Balance</i>	\$258,430	\$266,769.27	\$268,130
Disaster Relief Fund			
<i>Opening Balance</i>	251,516	251,516.16	251,516
Interest Earned During Year	3,500	3,971.59	4,400
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	0	0.00	0
<i>Closing Balance</i>	\$255,016	255,487.75	\$255,916
Cummings Street Units			
<i>Opening Balance</i>	61,255	46,410.05	46,410
Interest Earned During Year	900	1,033.62	1,100
Transfer From Municipal Fund	0	0.00	0
Transfer To Municipal Fund	0	0.00	0
<i>Closing Balance</i>	\$62,155	\$47,443.67	\$47,510
Recreation Facilities			
<i>Opening Balance</i>	911,064	926,656.03	926,656
Interest Earned During Year	13,300	14,632.39	16,900
Transfer From Municipal Fund	0	0.00	50,000
Transfer To Municipal Fund	0	0.00	0
<i>Closing Balance</i>	\$924,364	\$941,288.42	\$993,556

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Reserve Funds		2023/24 Budget \$	2023/24 Estimated YTD \$	2023/24 Budget \$
Waste Management				
	<i>Opening Balance</i>	374,651	381,063.04	381,063
	Interest Earned During Year	5,400	6,017.18	6,900
	Transfer From Municipal Fund	0	0.00	0
	Transfer To Municipal Fund	5,000	0.00	5,000
	<i>Closing Balance</i>	\$375,051	\$387,080.22	\$382,963
Unspent Capital Works				
	<i>Opening Balance</i>	374,882	374,882.29	374,882
	Interest Earned During Year	2,900	5,919.59	3,700
	Transfer From Municipal Fund	0	0.00	0
	Transfer To Municipal Fund	0	0.00	0
	<i>Closing Balance</i>	\$377,782	\$380,801.88	\$378,582
Merredin-Narembeen Road				
	<i>Opening Balance</i>	487,039	566,931.11	566,931
	Interest Earned During Year	8,500	238,454.64	10,900
	Transfer From Municipal Fund	0	0.00	420,000
	Transfer To Municipal Fund	245,800	0.00	191,700
		\$249,739	\$805,386	\$806,131
Totals - All Reserves				
	<i>Opening Balance</i>	6,888,822.00	6,975,872.57	6,975,872.57
	Interest Earned During Year	110,000.00	339,956.04	141,528.00
	Transfer From Municipal Fund	0.00	0.00	558,900.00
	Transfer To Municipal Fund	1,262,100.00	290,300.00	1,254,600.00
	<i>Closing Balance</i>	\$5,736,722	\$7,025,528.61	\$6,421,701

Prog	SP	Type	Responsible Officer	COA	Job	Description	Original Budget	Previous Budget Amendments	Current Budget	February Proposed Budget Amendments	Proposed Forecast	YTD Actual
FUNCTION 3												
03	0301	2	Exec Manager Corporate Services	2030112		RATES - Valuation Expenses	\$50,000.00	\$0.00	\$50,000.00	0.00	\$50,000.00	\$567.36
03	0301	2	Exec Manager Corporate Services	2030114		RATES - Debt Collection Expenses	\$60,000.00	\$0.00	\$60,000.00	0.00	\$60,000.00	\$5,013.50
03	0301	2	Exec Manager Corporate Services	2030118		RATES - Rates Write Off	\$80,000.00	\$0.00	\$80,000.00	0.00	\$80,000.00	\$26,097.01
03	0301	2	Exec Manager Corporate Services	2030185		RATES - Legal Expenses (not recoverable)	\$3,000.00	\$0.00	\$3,000.00	0.00	\$3,000.00	\$0.00
03	0301	2	Exec Manager Corporate Services	2030199		RATES - Administration Allocated	\$51,900.00	\$0.00	\$51,900.00	1,200.00	\$53,100.00	\$31,238.65
Operating Expenditure Total							\$244,900.00	\$0.00	\$244,900.00	1,200.00	\$246,100.00	\$62,916.52
03	0301	3	Exec Manager Corporate Services	3030120		RATES - Instalment Admin Fee Received	-\$35,500.00	\$0.00	-\$35,500.00	1,500.00	-\$34,000.00	-\$33,696.73
03	0301	3	Exec Manager Corporate Services	3030121		RATES - Account Enquiry Charges	-\$500.00	\$0.00	-\$500.00	0.00	-\$500.00	\$0.00
03	0301	3	Exec Manager Corporate Services	3030122		RATES - Reimbursement of Debt Collection Costs	-\$60,000.00	\$0.00	-\$60,000.00	0.00	-\$60,000.00	-\$4,433.50
03	0301	3	Exec Manager Corporate Services	3030130		RATES - Rates Levied - Synergy	-\$5,215,600.00	-\$3,200.00	-\$5,218,800.00	0.00	-\$5,218,800.00	-\$5,218,842.81
03	0301	3	Exec Manager Corporate Services	3030140		RATES - Ex-Gratia Rates (CBH, etc.)	-\$77,300.00	-\$1,900.00	-\$79,200.00	0.00	-\$79,200.00	-\$79,191.36
03	0301	3	Exec Manager Corporate Services	3030145		RATES - Penalty Interest Received	-\$32,000.00	\$0.00	-\$32,000.00	0.00	-\$32,000.00	-\$30,907.98
03	0301	3	Exec Manager Corporate Services	3030147		RATES - Pensioner Deferred Interest Received	-\$4,000.00	\$0.00	-\$4,000.00	0.00	-\$4,000.00	-\$2,843.63
Operating Income Total							-\$5,424,900.00	-\$5,100.00	-\$5,430,000.00	1,500.00	-\$5,428,500.00	-\$5,369,916.01
Rates Total							-\$5,180,000.00	-\$5,100.00	-\$5,185,100.00	2,700.00	-\$5,182,400.00	-\$5,306,999.49
03	0302	2	Exec Manager Corporate Services	2030211		GEN PUR - Bank Fees & Charges	\$1,100.00	\$0.00	\$1,100.00	-600.00	\$500.00	\$53.33
Operating Expenditure Total							\$1,100.00	\$0.00	\$1,100.00	-600.00	\$500.00	\$53.33
03	0302	3	Exec Manager Corporate Services	3030210		GEN PUR - Financial Assistance Grant - General	\$0.00	-\$82,900.00	-\$82,900.00	0.00	-\$82,900.00	-\$82,906.00
03	0302	3	Exec Manager Corporate Services	3030211		GEN PUR - Financial Assistance Grant - Roads	\$0.00	-\$52,920.00	-\$52,920.00	0.00	-\$52,920.00	-\$18,965.75
03	0302	3	Exec Manager Corporate Services	3030245		GEN PUR - Interest Earned - Reserve Funds	-\$110,000.00	-\$80,000.00	-\$190,000.00	-31,528.00	-\$221,528.00	-\$156,162.89
03	0302	3	Exec Manager Corporate Services	3030246		GEN PUR - Interest Earned - Municipal Funds	-\$50,000.00	-\$30,000.00	-\$80,000.00	-50,000.00	-\$130,000.00	-\$104,570.05
Operating Income Total							-\$160,000.00	-\$245,820.00	-\$405,820.00	-81,528.00	-\$487,348.00	-\$362,604.69
Other General Purpose Funding Total							-\$158,900.00	-\$245,820.00	-\$404,720.00	-82,128.00	-\$486,848.00	-\$362,551.36
03	0303	4	Exec Manager Corporate Services	4030381		INVEST - Transfer to Employee Entitlement Reserve	\$5,400.00	\$0.00	\$5,400.00	1,500.00	\$6,900.00	\$5,954.02
03	0303	4	Exec Manager Corporate Services	4030383		INVEST - Transfer to Plant Replacement Reserve	\$9,200.00	\$0.00	\$9,200.00	91,400.00	\$100,600.00	\$11,513.31
03	0303	4	Exec Manager Corporate Services	4030384		INVEST - Transfer to Building Reserve	\$31,700.00	\$0.00	\$31,700.00	8,600.00	\$40,300.00	\$17,736.36
03	0303	4	Exec Manager Corporate Services	4030385		INVEST - Transfer to Land and Development Reserve	\$22,900.00	\$0.00	\$22,900.00	6,300.00	\$29,200.00	\$25,275.84
03	0303	4	Exec Manager Corporate Services	4030386		INVEST - Transfer to ICT Reserve	\$4,700.00	\$0.00	\$4,700.00	1,300.00	\$6,000.00	\$4,639.73
03	0303	4	Exec Manager Corporate Services	4030387		INVEST - Transfer to Disaster Relief Fund Reserve	\$3,500.00	\$0.00	\$3,500.00	900.00	\$4,400.00	\$3,971.59
03	0303	4	Exec Manager Corporate Services	4030389		INVEST - Transfer to Cummings Street Units Reserve	\$900.00	\$0.00	\$900.00	200.00	\$1,100.00	\$1,033.62
03	0303	4	Exec Manager Corporate Services	4030390		INVEST - Transfer to Waste Management Reserve	\$5,400.00	\$0.00	\$5,400.00	1,500.00	\$6,900.00	\$6,017.18
03	0303	4	Exec Manager Corporate Services	4030391		INVEST - Transfer to Unspent Grants Reserve	\$2,900.00	\$0.00	\$2,900.00	800.00	\$3,700.00	\$5,919.59
03	0303	4	Exec Manager Corporate Services	4030393		INVEST - Transfer to Recreation Facilities Reserve	\$13,300.00	\$0.00	\$13,300.00	53,600.00	\$66,900.00	\$14,632.39
03	0303	4	Exec Manager Corporate Services	4030394		INVEST - Transfer to Apex Park Redevelopment Reserve	\$1,600.00	\$0.00	\$1,600.00	1,928.00	\$3,528.00	\$4,807.77
03	0303	4	Exec Manager Corporate Services	4030395		INVEST - Transfer to Merredin-Naremben Road	\$8,500.00	\$285,900.00	\$294,400.00	136,500.00	\$430,900.00	\$238,454.64
Capital Expenditure Total							\$110,000.00	\$285,900.00	\$395,900.00	304,528.00	\$700,428.00	\$339,956.04
03	0303	5	Exec Manager Corporate Services	5030383		INVEST - Transfer from Plant Replacement Reserve	-\$188,200.00	\$0.00	-\$188,200.00	0.00	-\$188,200.00	-\$188,200.00
03	0303	5	Exec Manager Corporate Services	5030384		INVEST - Transfer from Building Reserve	-\$450,000.00	-\$80,000.00	-\$530,000.00	0.00	-\$530,000.00	-\$70,400.00
03	0303	5	Exec Manager Corporate Services	5030386		INVEST - Transfer from ICT Reserve	-\$40,100.00	\$0.00	-\$40,100.00	8,400.00	-\$31,700.00	-\$31,700.00
03	0303	5	Exec Manager Corporate Services	5030389		INVEST - Transfer from Cummings Street Units Reserve	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
03	0303	5	Exec Manager Corporate Services	5030390		INVEST - Transfer from Waste Management Reserve	-\$5,000.00	\$0.00	-\$5,000.00	0.00	-\$5,000.00	\$0.00
03	0303	5	Exec Manager Corporate Services	5030394		INVEST - Transfer from Apex Park Redevelopment Reserve	-\$253,000.00	-\$55,000.00	-\$308,000.00	0.00	-\$308,000.00	\$0.00
03	0303	5	Exec Manager Corporate Services	5030395		INVEST - Transfer from Merredin/Naremben Road Reserv	-\$245,800.00	-\$22,100.00	-\$267,900.00	76,200.00	-\$191,700.00	\$0.00
Capital Income Total							-\$1,182,100.00	-\$157,100.00	-\$1,339,200.00	84,600.00	-\$1,254,600.00	\$0.00
Reserve Transfers Total							-\$1,072,100.00	\$128,800.00	-\$943,300.00	389,128.00	-\$554,172.00	\$49,656.04
General Purpose Funding Total							-\$6,411,000.00	-\$122,120.00	-\$6,533,120.00	309,700.00	-\$6,223,420.00	-\$5,619,894.81
FUNCTION 4												
04	0401	2	Chief Executive Officer	2040104		MEMBERS - Training & Development	\$45,000.00	\$0.00	\$45,000.00	0.00	\$45,000.00	\$17,759.30
04	0401	2	Chief Executive Officer	2040109		MEMBERS - Members Travel and Accommodation	\$20,000.00	\$0.00	\$20,000.00	0.00	\$20,000.00	\$4,660.94

04	0401	2	Chief Executive Officer	2040111	MEMBERS - Mayors/Presidents Allowance	\$13,600.00	\$0.00	\$13,600.00	0.00	\$13,600.00	\$6,805.00
04	0401	2	Chief Executive Officer	2040112	MEMBERS - Deputy Mayors/Presidents Allowance	\$3,400.00	\$0.00	\$3,400.00	0.00	\$3,400.00	\$1,700.00
04	0401	2	Chief Executive Officer	2040113	MEMBERS - Members Sitting Fees	\$65,400.00	\$0.00	\$65,400.00	0.00	\$65,400.00	\$30,966.94
04	0401	2	Chief Executive Officer	2040114	MEMBERS - Communications Allowance	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$1,296.00
04	0401	2	Chief Executive Officer	2040116	MEMBERS - Election Expenses	\$24,500.00	\$22,000.00	\$46,500.00	-11,500.00	\$35,000.00	\$21,328.15
04	0401	2	Chief Executive Officer	2040141	MEMBERS - Subscriptions & Publications	\$85,000.00	\$0.00	\$85,000.00	0.00	\$85,000.00	\$64,526.28
04	0401	2	Exec Manager Corporate Services	2040186	MEMBERS - Expensed Minor Asset Purchases	\$8,000.00	\$0.00	\$8,000.00	0.00	\$8,000.00	\$0.00
04	0401	2	Chief Executive Officer	2040187	MEMBERS - Other Expenses	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$1,673.09
04	0401	2	Exec Manager Corporate Services	2040188	MEMBERS - Chambers Operating Expenses	\$800.00	\$0.00	\$800.00	0.00	\$800.00	\$0.00
04	0401	2	Exec Manager Development Services	2040189	MEMBERS - Chambers Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
04	0401	2	Chief Executive Officer	2040190	MEMBERS - Minute Binding/Record keeping	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$0.00
Operating Expenditure Total						\$279,200.00	\$22,000.00	\$301,200.00	-11,500.00	\$289,700.00	\$150,715.70
04	0401	2	Exec Manager Corporate Services	4040130	MEMBERS - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Capital Expenditure Total						\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Members Of Council Total						\$279,200.00	\$22,000.00	\$301,200.00	-11,500.00	\$289,700.00	\$150,715.70
04	0402	2	Chief Executive Officer	2040211	OTH GOV - Civic Functions, Refreshments & Receptions	\$23,000.00	\$0.00	\$23,000.00	0.00	\$23,000.00	\$7,899.61
04	0402	2	Exec Manager Corporate Services	2040215	OTH GOV - Printing and Stationery	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
04	0402	2	Exec Manager Corporate Services	2040223	OTH GOV - LGIS Risk Expenditure	\$15,200.00	\$0.00	\$15,200.00	0.00	\$15,200.00	\$7,589.81
04	0402	2	Chief Executive Officer	2040251	OTH GOV - Consultancy - Strategic	\$172,297.00	-\$19,997.00	\$152,300.00	-12,000.00	\$140,300.00	\$8,280.00
04	0402	2	Exec Manager Corporate Services	2040265	OTH GOV - Maintenance/Operations	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
04	0402	2	Exec Manager Corporate Services	2040286	OTH GOV - Expensed Minor Asset Purchases	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$290.00
04	0402	2	Exec Manager Corporate Services	2040299	OTH GOV - Administration Allocated	\$414,900.00	\$49,500.00	\$464,400.00	10,600.00	\$475,000.00	\$249,909.27
Operating Expenditure Total						\$635,397.00	\$29,503.00	\$664,900.00	-1,400.00	\$663,500.00	\$273,968.69
04	0402	3	Chief Executive Officer	3040235	OTH GOV - Other Income	-\$14,000.00	\$0.00	-\$14,000.00	0.00	-\$14,000.00	-\$12,079.34
Operating Income Total						-\$14,000.00	\$0.00	-\$14,000.00	0.00	-\$14,000.00	-\$12,079.34
Other Governance Total						\$621,397.00	\$29,503.00	\$650,900.00	-1,400.00	\$649,500.00	\$261,889.35
Governance Total						\$900,597.00	\$51,503.00	\$952,100.00	-12,900.00	\$939,200.00	\$412,605.05
FUNCTION 5											
05	0501	2	Exec Manager Strategy & Commu.	2050165	FIRE - Maintenance/Operations	\$1,500.00	\$0.00	\$1,500.00	0.00	\$1,500.00	\$408.88
05	0501	2	Exec Manager Strategy & Commu.	2050185	FIRE - Legal Expenses	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$918.50
05	0501	2	Exec Manager Engineering Services	2050187	FIRE - Other Expenditure					\$0.00	
05	0501	2	Exec Manager Engineering Services	2050187	W0081 Fire Breaks	\$4,000.00	\$0.00	\$4,000.00	1,300.00	\$5,300.00	\$5,256.91
05	0501	2	Exec Manager Engineering Services	2050187	W0082 Fire Fightings	\$3,500.00	\$0.00	\$3,500.00	1,000.00	\$4,500.00	\$4,264.95
05	0501	2	Exec Manager Development Services	2050189	FIRE - Building Maintenance						
05	0501	2	Exec Manager Development Services	2050189	BM070 Bush Fire Sheds Hines Hill - Building Maintenance	\$1,700.00	\$0.00	\$1,700.00	-1,700.00	\$0.00	\$0.00
05	0501	2	Exec Manager Development Services	2050189	BM071 Bush Fire Sheds Muntadgin - Building Maintenance	\$1,700.00	\$0.00	\$1,700.00	-1,700.00	\$0.00	\$0.00
05	0501	2	Exec Manager Strategy & Commu.	2050102	FIRE - Honorarium	\$0.00	\$0.00	\$1,500.00	0.00	\$1,500.00	\$0.00
05	0501	2	Exec Manager Strategy & Commu.	2050120	FIRE - Communication Expenses	\$0.00	\$0.00	\$400.00	100.00	\$500.00	\$0.00
05	0501	2	Exec Manager Corporate Services	2050130	FIRE - Insurance Expenses	\$0.00	\$0.00	\$1,600.00	-100.00	\$1,500.00	\$0.00
05	0501	2	Exec Manager Corporate Services	2050192	FIRE - Depreciation	\$11,200.00	\$0.00	\$11,200.00	0.00	\$11,200.00	\$7,416.32
05	0501	2	Exec Manager Corporate Services	2050199	FIRE - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total						\$129,800.00	\$0.00	\$133,300.00	1,300.00	\$134,600.00	\$80,742.87
05	0501	3	Exec Manager Strategy & Commu.	3050135	FIRE - Other Income	-\$2,500.00	\$500.00	-\$2,000.00	-2,000.00	-\$4,000.00	-\$3,972.16
Operating Income Total						-\$2,500.00	\$500.00	-\$2,000.00	-2,000.00	-\$4,000.00	-\$3,972.16
Fire Prevention Total						\$127,300.00	\$500.00	\$131,300.00	-700.00	\$130,600.00	\$76,770.71
05	0502	2	Exec Manager Corporate Services	2050200	ANIMAL - Employee Costs	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
05	0502	2	Exec Manager Engineering Services	2050210	ANIMAL - Motor Vehicle Expenses	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
05	0502	2	Exec Manager Development Services	2050212	ANIMAL - Animal Destruction	\$600.00	\$0.00	\$600.00	0.00	\$600.00	\$50.00
05	0502	2	Exec Manager Development Services	2050216	ANIMAL - Contract Ranger Services	\$120,000.00	\$0.00	\$120,000.00	0.00	\$120,000.00	\$71,321.25
05	0502	2	Exec Manager Development Services	2050220	ANIMAL - Communication Expenses	\$800.00	\$0.00	\$800.00	-300.00	\$500.00	\$276.24
05	0502	2	Exec Manager Development Services	2050285	ANIMAL - Legal Expenses	\$500.00	\$0.00	\$500.00	100.00	\$600.00	\$531.99
05	0502	2	Exec Manager Development Services	2050286	ANIMAL - Expensed Minor Asset Purchases	\$1,300.00	\$0.00	\$1,300.00	0.00	\$1,300.00	\$0.00
05	0502	2	Exec Manager Development Services	2050287	ANIMAL - Other Expenditure	\$2,400.00	\$0.00	\$2,400.00	0.00	\$2,400.00	\$1,861.34
05	0502	2	Exec Manager Development Services	2050288	ANIMAL - Animal Pound Operations	\$1,000.00	\$500.00	\$1,500.00	0.00	\$1,500.00	\$870.18

05	0502	2	Exec Manager Development Services	2050289	ANIMAL - Animal Pound Maintenance	\$1,000.00	-\$400.00	\$600.00	0.00	\$600.00	\$283.41
05	0502	2	Exec Manager Corporate Services	2050292	ANIMAL - Depreciation	\$3,100.00	\$0.00	\$3,100.00	0.00	\$3,100.00	\$2,044.43
05	0502	2	Exec Manager Corporate Services	2050299	ANIMAL - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total						\$235,400.00	\$100.00	\$235,500.00	2,200.00	\$237,700.00	\$139,716.15
05	0502	3	Exec Manager Development Services	3050220	ANIMAL - Pound Fees	-\$1,500.00	\$0.00	-\$1,500.00	0.00	-\$1,500.00	-\$1,349.10
05	0502	3	Exec Manager Development Services	3050221	ANIMAL - Animal Registration Fees	-\$6,500.00	\$0.00	-\$6,500.00	1,500.00	-\$5,000.00	-\$4,931.25
05	0502	3	Exec Manager Development Services	3050234	ANIMAL - Other Fees & Charges	-\$200.00	\$0.00	-\$200.00	0.00	-\$200.00	-\$50.91
05	0502	3	Exec Manager Development Services	3050240	ANIMAL - Fines and Penalties	-\$500.00	-\$400.00	-\$900.00	-500.00	-\$1,400.00	-\$1,355.80
Operating Income Total						-\$8,700.00	-\$400.00	-\$9,100.00	1,000.00	-\$8,100.00	-\$7,687.06
Animal Control Total						\$226,700.00	-\$300.00	\$226,400.00	3,200.00	\$229,600.00	\$132,029.09
05	0503	2	Exec Manager Corporate Services	2050300	OLOPS - Employee Costs	\$51,400.00	\$0.00	\$51,400.00	0.00	\$51,400.00	\$30,832.31
05	0503	2	Exec Manager Corporate Services	2050311	OLOPS - CCTV Maintenance	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$0.00
05	0503	2	Exec Manager Corporate Services	2050330	OLOPS - Insurance Expenses	\$1,100.00	\$0.00	\$1,100.00	0.00	\$1,100.00	\$0.00
05	0503	2	Exec Manager Corporate Services	2050352	OLOPS - Consultants	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$0.00
05	0503	2	Exec Manager Corporate Services	2050392	OLOPS - Depreciation	\$5,400.00	\$0.00	\$5,400.00	0.00	\$5,400.00	\$3,550.71
05	0503	2	Exec Manager Corporate Services	2050399	OLOPS - Administration Allocated	\$51,900.00	\$0.00	\$51,900.00	1,200.00	\$53,100.00	\$31,238.65
Operating Expenditure Total						\$119,800.00	\$0.00	\$119,800.00	1,200.00	\$121,000.00	\$65,621.67
05	0503	3	Exec Manager Corporate Services	3050310	OLOPS - Grants	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Operating Income Total						\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Other Law, Order & Public Safety Total						\$119,800.00	\$0.00	\$119,800.00	1,200.00	\$121,000.00	\$65,621.67
05	0505	2	Exec Manager Strategy & Commu.	2050507	ESL BFB - Clothing & Accessories	\$8,000.00	\$6,000.00	\$14,000.00	2,500.00	\$16,500.00	\$12,797.28
05	0505	2	Exec Manager Strategy & Commu.	2050530	ESL BFB - Insurance Expenses	\$22,000.00	\$2,000.00	\$24,000.00	0.00	\$24,000.00	\$23,602.45
05	0505	2	Exec Manager Strategy & Commu.	2050565	ESL BFB - Maintenance Plant & Equipment	\$7,000.00	-\$3,500.00	\$3,500.00	0.00	\$3,500.00	\$2,051.37
05	0505	2	Exec Manager Strategy & Commu.	2050566	ESL BFB - Maintenance Vehicles/Trailers/Boats	\$20,000.00	\$0.00	\$20,000.00	-5,000.00	\$15,000.00	\$12,474.78
05	0505	2	Exec Manager Strategy & Commu.	2050569	ESL BFB - Plant & Equipment \$1,200 to \$5,000 per item	\$4,200.00	\$400.00	\$4,600.00	3,300.00	\$7,900.00	\$4,590.00
05	0505	2	Exec Manager Strategy & Commu.	2050586	ESL BFB - Plant & Equipment < \$1,200 per item	\$3,000.00	\$4,900.00	\$7,900.00	-3,300.00	\$4,600.00	\$5,591.96
05	0505	2	Exec Manager Strategy & Commu.	2050587	ESL BFB - Other Goods and Services	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$891.02
05	0505	2	Exec Manager Strategy & Commu.	2050588	ESL BFB - Utilities, Rates & Taxes	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$1,674.11
05	0505	2	Exec Manager Strategy & Commu.	2050589	ESL BFB - Maintenance Land & Buildings	\$500.00	\$500.00	\$1,000.00	3,200.00	\$4,200.00	\$1,010.38
Operating Expenditure Total						\$69,200.00	\$10,300.00	\$79,500.00	700.00	\$80,200.00	\$64,683.35
05	0505	3	Exec Manager Strategy & Commu.	3050502	ESL BFB - Admin Fee/Commissions	-\$4,000.00	\$0.00	-\$4,000.00	0.00	-\$4,000.00	-\$4,000.00
05	0505	3	Exec Manager Strategy & Commu.	3050510	ESL BFB - Operating Grant	-\$69,200.00	\$1,840.00	-\$67,360.00	0.00	-\$67,360.00	-\$48,179.00
Operating Income Total						-\$73,200.00	\$1,840.00	-\$71,360.00	-548,200.00	-\$619,560.00	-\$52,179.00
05	0505	3	Exec Manager Strategy & Commu.	3050515	ESL BFB - Capital Grant	\$0.00	\$0.00	\$0.00	-548,200.00	-\$548,200.00	\$0.00
Capital Income Total						\$62,300.00	\$0.00	\$62,300.00	-548,200.00	-\$485,900.00	\$0.00
08	0804	4	Exec Manager Strategy & Commu.	4050630	ESL BFB - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	548,200.00	\$548,200.00	\$0.00
Capital Expenditure Total						\$0.00	\$0.00	\$0.00	548,200.00	\$548,200.00	\$0.00
05	0506	2	Exec Manager Strategy & Commu.	2050686	ESL SES - Plant & Equipment < \$1,200 per item	\$1,100.00	\$0.00	\$1,100.00	11,700.00	\$12,800.00	\$0.00
05	0506	2	Exec Manager Strategy & Commu.	2050669	ESL SES - Plant & Equipment \$1,200 to \$5,000 per item	\$0.00	\$12,800.00	\$12,800.00	-11,700.00	\$1,100.00	\$0.00
05	0506	2	Exec Manager Strategy & Commu.	2050687	ESL SES - Other Goods and Services	\$1,200.00	\$0.00	\$1,200.00	3,400.00	\$4,600.00	\$1,018.95
05	0506	2	Exec Manager Strategy & Commu.	2050688	ESL SES - Utilities, Rates & Taxes	\$4,500.00	\$0.00	\$4,500.00	0.00	\$4,500.00	\$2,139.35
05	0506	2	Exec Manager Strategy & Commu.	2050689	ESL SES - Maintenance Land & Buildings	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Operating Expenditure Total						\$13,800.00	\$12,800.00	\$25,800.00	3,400.00	\$29,200.00	\$5,575.34
05	0506	3	Exec Manager Community & Strat.	3050610	ESL SES - Operating Grant	-\$14,000.00	-\$12,800.00	-\$26,800.00	0.00	-\$26,800.00	-\$20,100.75
Operating Income Total						-\$14,000.00	-\$12,800.00	-\$26,800.00	-145,700.00	-\$172,500.00	-\$20,100.75
05	0506	3	Exec Manager Community & Strat.	3050615	ESL SES - Capital Grant	\$0.00	\$0.00	\$0.00	-145,700.00	-\$145,700.00	\$0.00
Capital Income Total						\$62,300.00	\$0.00	\$62,300.00	-145,700.00	-\$83,400.00	\$0.00
08	0804	4	Exec Manager Strategy & Commu.	4050630	ESL SES - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	145,700.00	\$145,700.00	\$0.00
Capital Expenditure Total						\$0.00	\$0.00	\$0.00	145,700.00	\$145,700.00	\$0.00
07	0704	2	Exec Manager Development Services	2070410	HEALTH - Motor Vehicle Expenses	\$11,000.00	\$0.00	\$11,000.00	4,000.00	\$15,000.00	\$10,086.67
07	0704	2	Exec Manager Development Services	2070412	HEALTH - Analytical Expenses	\$1,500.00	\$0.00	\$1,500.00	0.00	\$1,500.00	\$1,053.11
07	0704	2	Exec Manager Development Services	2070413	HEALTH - Control Expenses	\$4,000.00	\$1,000.00	\$5,000.00	0.00	\$5,000.00	\$2,993.74
07	0704	2	Exec Manager Development Services	2070485	HEALTH - Legal Expenses	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
07	0704	2	Exec Manager Development Services	2070487	HEALTH - Other Expenses	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00

07	0704	2	Exec Manager Corporate Services	2070492		HEALTH - Depreciation	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
07	0704	2	Exec Manager Corporate Services	2070499		HEALTH - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total							\$122,200.00	\$1,000.00	\$123,200.00	6,400.00	\$129,600.00	\$76,610.83
07	0704	3	Exec Manager Development Services	3070420		HEALTH - Health Regulatory Fees & Charges	-\$1,500.00	-\$150.00	-\$1,650.00	-350.00	-\$2,000.00	-\$2,036.39
07	0704	3	Exec Manager Development Services	3070421		HEALTH - Health Regulatory Licenses	-\$9,500.00	\$0.00	-\$9,500.00	500.00	-\$9,000.00	-\$8,682.00
Operating Income Total							-\$11,000.00	-\$150.00	-\$11,150.00	150.00	-\$11,000.00	-\$10,718.39
Preventative Services - Inspection/Admin Total							\$111,200.00	\$850.00	\$112,050.00	6,550.00	\$118,600.00	\$65,892.44
07	0705	2	Exec Manager Development Services	2070553		PEST - Pest Control Programs	\$30,000.00	\$0.00	\$30,000.00	0.00	\$30,000.00	\$2,195.11
Operating Expenditure Total							\$30,000.00	\$0.00	\$30,000.00	0.00	\$30,000.00	\$2,195.11
Preventative Services - Pest Control Total							\$30,000.00	\$0.00	\$30,000.00	0.00	\$30,000.00	\$2,195.11
07	0706	2	Exec Manager Development Services	2070687		PREV OTH - Other Expense	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
Operating Expenditure Total							\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
Preventative Services - Other Total							\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
Health Total							\$142,200.00	\$850.00	\$143,050.00	6,550.00	\$149,600.00	\$68,087.55
FUNCTION 8												
08	0802	2	Exec Manager Strategy & Commu.	2080253		OTHER ED - Scholarships and Awards						
08	0802	2	Exec Manager Strategy & Commu.	2080253	W0120	Eric Hind Scholarship	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$1,000.00
08	0802	2	Exec Manager Strategy & Commu.	2080253	W0121	Art Acquisition Award	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$1,000.00
08	0802	2	Exec Manager Strategy & Commu.	2080287		OTHER ED - Other Expenses					\$0.00	
08	0802	2	Exec Manager Strategy & Commu.	2080287	W0263	Madcaps	\$6,000.00	\$0.00	\$6,000.00	0.00	\$6,000.00	\$6,000.00
08	0802	2	Exec Manager Strategy & Commu.	2080287	W0264	Merredin Chaplain (Merredin College)	\$3,000.00	\$0.00	\$3,000.00	0.00	\$3,000.00	\$0.00
08	0802	2	Exec Manager Strategy & Commu.	2080287	W0265	Lutheran Church	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
08	0802	2	Exec Manager Strategy & Commu.	2080290		OTHER ED - Donations to Community Groups					\$0.00	\$0.00
08	0802	2	Exec Manager Strategy & Commu.	2080290	W0300	Community Grants	\$23,100.00	\$0.00	\$23,100.00	0.00	\$23,100.00	\$13,631.00
08	0802	2	Exec Manager Strategy & Commu.	2080290	W0301	Merredin Show	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$0.00
08	0802	2	Exec Manager Strategy & Commu.	2080290	W0302	Merredin CRC	\$6,400.00	\$0.00	\$6,400.00	0.00	\$6,400.00	\$5,000.00
08	0802	2	Exec Manager Strategy & Commu.	2080290	W0303	School Award Donation	\$500.00	\$0.00	\$500.00	0.00	\$500.00	\$230.00
08	0802	2	Exec Manager Corporate Services	2080292		OTHER ED - Depreciation	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Operating Expenditure Total							\$51,000.00	\$0.00	\$51,000.00	0.00	\$51,000.00	\$26,861.00
08	0802	4	Exec Manager Development Services	4080210		OTHER ED - Building (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Other Education Total							\$51,000.00	\$0.00	\$51,000.00	0.00	\$51,000.00	\$26,861.00
08	0804	2	Exec Manager Corporate Services	2080470		SENIORS - Loan Interest Repayments						\$15,009.17
08	0804	2	Exec Manager Corporate Services	2080470	LI215	Interest Loan 215	\$11,800.00	\$0.00	\$11,800.00	0.00	\$11,800.00	\$0.00
08	0804	2	Exec Manager Corporate Services	2080470	LI217	Interest Loan 217	\$9,200.00	\$0.00	\$9,200.00	0.00	\$9,200.00	\$0.00
08	0804	2	Exec Manager Corporate Services	2080492		SENIORS - Depreciation	\$35,900.00	\$0.00	\$35,900.00	0.00	\$35,900.00	\$21,912.54
Operating Expenditure Total							\$56,900.00	\$0.00	\$56,900.00	0.00	\$56,900.00	\$36,921.71
08	0804	3	Exec Manager Corporate Services	3080401		SENIORS - Reimbursements	-\$10,800.00	\$0.00	-\$10,800.00	0.00	-\$10,800.00	-\$5,600.89
Operating Income Total							-\$10,800.00	\$0.00	-\$10,800.00	0.00	-\$10,800.00	-\$5,600.89
08	0804	4	Exec Manager Corporate Services	4080482		SENIORS - Loan Principal Repayments						\$80,819.70
08	0804	4	Exec Manager Corporate Services	4080482	LP215	Principal Loan 215	\$36,800.00	\$0.00	\$36,800.00	0.00	\$36,800.00	\$0.00
08	0804	4	Exec Manager Corporate Services	4080482	LP217	Principal Loan 217	\$62,300.00	\$0.00	\$62,300.00	0.00	\$62,300.00	\$0.00
Capital Expenditure Total							\$99,100.00	\$0.00	\$99,100.00	0.00	\$99,100.00	\$80,819.70
08	0804	5	Exec Manager Corporate Services	5080458		SENIORS - Self Supporting Loan Principal Received	-\$36,800.00	\$0.00	-\$36,800.00	0.00	-\$36,800.00	-\$18,192.48
Capital Income Total							-\$36,800.00	\$0.00	-\$36,800.00	0.00	-\$36,800.00	-\$18,192.48
Aged & Disabled - Senior Citizens Centres Total							\$108,400.00	\$0.00	\$108,400.00	0.00	\$108,400.00	\$93,948.04
08	0807	2	Exec Manager Strategy & Commu.	2080712		WELFARE - Youth Events and Programs						
08	0807	2	Exec Manager Strategy & Commu.	2080712	W0140	Merredin Youth Activities	\$1,800.00	\$0.00	\$1,800.00	-1,800.00	\$0.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080712	W0147	Naidoc Week	\$3,000.00	-\$1,000.00	\$2,000.00	-2,000.00	\$0.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080712	W0147A	Naidoc Week - Grant Funded	\$0.00	\$1,000.00	\$1,000.00	0.00	\$1,000.00	\$963.64
08	0807	2	Exec Manager Strategy & Commu.	2080714		WELFARE - Community Services					\$0.00	
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD101	Community Development Events	\$700.00	\$0.00	\$700.00	0.00	\$700.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD103	Anzac Day	\$1,400.00	\$0.00	\$1,400.00	2,100.00	\$3,500.00	\$39.25
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD103A	Anzac Day - Grant Funded	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD104	Australia Day	\$800.00	\$0.00	\$800.00	0.00	\$800.00	\$849.03

08	0807	2	Exec Manager Strategy & Commu.	2080714	CD104A	Australia Day - Grant Funded	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$8,283.13
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD106	Christmas / Gala Night	\$22,000.00	\$0.00	\$22,000.00	2,500.00	\$24,500.00	\$24,279.74
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD106A	Christmas / Gala Night - Grant Funded	\$5,000.00	-\$2,500.00	\$2,500.00	-2,500.00	\$0.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD109	Cd Equipment Replacement	\$2,000.00	\$0.00	\$2,000.00	-1,000.00	\$1,000.00	\$24.09
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD116	International Food Festival	\$2,000.00	\$0.00	\$2,000.00	-2,000.00	\$0.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD116A	International Food Festival - Grant Funded	\$2,000.00	\$0.00	\$2,000.00	-2,000.00	\$0.00	\$0.00
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD123	Early Years Program	\$500.00	\$0.00	\$500.00	0.00	\$500.00	\$103.42
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD126	Remembrance Day & Long Tan Day	\$1,500.00	\$0.00	\$1,500.00	-500.00	\$1,000.00	\$819.34
08	0807	2	Exec Manager Strategy & Commu.	2080714	CD136	Merredin Show	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$0.00
Operating Expenditure Total							\$57,700.00	-\$2,500.00	\$55,200.00	-7,200.00	\$48,000.00	\$35,361.64
08	0807	3	Exec Manager Strategy & Commu.	3080710		WELFARE - Youth Grants						
08	0807	3	Exec Manager Strategy & Commu.	3080710	CY1147	Naidoc Week	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
08	0807	3	Exec Manager Strategy & Commu.	3080711		WELFARE - Community Development Grants						
08	0807	3	Exec Manager Strategy & Commu.	3080711	CDI103	Anzac Day - Grant Funding	-\$2,500.00	\$0.00	-\$2,500.00	0.00	-\$2,500.00	\$0.00
08	0807	3	Exec Manager Strategy & Commu.	3080711	CDI104	Australia Day - Grant Funding	-\$10,000.00	\$0.00	-\$10,000.00	0.00	-\$10,000.00	-\$8,000.00
08	0807	3	Exec Manager Strategy & Commu.	3080711	CDI106	Christmas / Gala Night - Grant Funding	-\$5,000.00	\$2,500.00	-\$2,500.00	0.00	-\$2,500.00	-\$2,500.00
08	0807	3	Exec Manager Strategy & Commu.	3080711	CDI116	International Food Festival - Grant Funding	-\$2,000.00	\$0.00	-\$2,000.00	2,000.00	\$0.00	\$0.00
Operating Income Total							-\$19,500.00	\$2,500.00	-\$17,000.00	2,000.00	-\$15,000.00	-\$10,500.00
Other Welfare Total							\$38,200.00	\$0.00	\$38,200.00	-5,200.00	\$33,000.00	\$24,861.64
Education & Welfare Total							\$197,600.00	\$0.00	\$197,600.00	-5,200.00	\$192,400.00	\$145,670.68
FUNCTION 9												
09	0902	2	Exec Manager Corporate Services	2090288		OTH HOUSE - Building Operations						
09	0902	2	Exec Manager Corporate Services	2090288	BO030	House 16 Dobson Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	0.00	\$5,100.00	\$3,466.43
09	0902	2	Exec Manager Corporate Services	2090288	BO031	House 5 Dobson Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-400.00	\$4,700.00	\$3,079.81
09	0902	2	Exec Manager Corporate Services	2090288	BO032	House 9 Cummings Crescent - Building Operations	\$5,100.00	\$0.00	\$5,100.00	1,400.00	\$6,500.00	\$4,379.45
09	0902	2	Exec Manager Corporate Services	2090288	BO033	House 13 Cummings Crescent - Building Operations	\$5,100.00	\$0.00	\$5,100.00	0.00	\$5,100.00	\$3,831.45
09	0902	2	Exec Manager Corporate Services	2090288	BO034	House 17 Cummings Crescent - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-900.00	\$4,200.00	\$2,004.63
09	0902	2	Exec Manager Corporate Services	2090288	BO035	House 4 Cohn Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-500.00	\$4,600.00	\$3,015.15
09	0902	2	Exec Manager Corporate Services	2090288	BO036	House 10 Cohn Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-2,500.00	\$2,600.00	\$1,538.63
09	0902	2	Exec Manager Corporate Services	2090288	BO037	House 69A Coronation Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-2,100.00	\$3,000.00	\$1,815.24
09	0902	2	Exec Manager Corporate Services	2090288	BO038	House 69B Coronation Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-2,100.00	\$3,000.00	\$1,905.40
09	0902	2	Exec Manager Corporate Services	2090288	BO039	House 15A Carrington Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-2,100.00	\$3,000.00	\$1,827.53
09	0902	2	Exec Manager Corporate Services	2090288	BO040	House 15B Carrington Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-1,100.00	\$4,000.00	\$2,551.32
09	0902	2	Exec Manager Corporate Services	2090288	BO041	House 7 King Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-400.00	\$4,700.00	\$3,136.91
09	0902	2	Exec Manager Corporate Services	2090288	BO042	House 44 Jackson Way - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-2,500.00	\$2,600.00	\$1,592.22
09	0902	2	Exec Manager Corporate Services	2090288	BO043	House 51 French Street - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-2,000.00	\$3,100.00	\$1,730.49
09	0902	2	Exec Manager Corporate Services	2090288	BO044	House 56 Kitchener Road - Building Operations	\$5,100.00	\$0.00	\$5,100.00	-1,400.00	\$3,700.00	\$2,523.39
09	0902	2	Exec Manager Corporate Services	2090288	BO050	Cummings Unit # 1 - Building Operations	\$3,400.00	\$0.00	\$3,400.00	-1,400.00	\$2,000.00	\$1,042.75
09	0902	2	Exec Manager Corporate Services	2090288	BO051	Cummings Unit # 2 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,042.75
09	0902	2	Exec Manager Corporate Services	2090288	BO052	Cummings Unit # 3 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,042.75
09	0902	2	Exec Manager Corporate Services	2090288	BO053	Cummings Unit # 4 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,042.75
09	0902	2	Exec Manager Corporate Services	2090288	BO054	Cummings Unit # 5 - Building Operations	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,042.75
09	0902	2	Exec Manager Corporate Services	2090288	BO055	Cummings Units Common Area - Building Operations	\$2,000.00	\$0.00	\$2,000.00	1,500.00	\$3,500.00	\$2,379.99
09	0902	2		2090289		OTH HOUSE - Building Maintenance					\$0.00	
09	0902	2	Exec Manager Development Services	2090289	BM030	House 16 Dobson Way - Building Maintenance	\$4,000.00	\$0.00	\$4,000.00	7,000.00	\$11,000.00	\$2,033.55
09	0902	2	Exec Manager Development Services	2090289	BM031	House 5 Dobson Way - Building Maintenance	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$839.18
09	0902	2	Exec Manager Development Services	2090289	BM032	House 9 Cummings Crescent - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	-1,000.00	\$4,000.00	\$689.13
09	0902	2	Exec Manager Development Services	2090289	BM033	House 13 Cummings Crescent - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	-1,000.00	\$4,000.00	\$669.50
09	0902	2	Exec Manager Development Services	2090289	BM034	House 17 Cummings Crescent - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	-1,000.00	\$4,000.00	\$50.05
09	0902	2	Exec Manager Development Services	2090289	BM035	House 4 Cohn Street - Building Maintenance	\$6,000.00	\$2,000.00	\$8,000.00	-4,000.00	\$4,000.00	\$877.73
09	0902	2	Exec Manager Development Services	2090289	BM036	House 10 Cohn Street - Building Maintenance	\$6,800.00	-\$3,800.00	\$3,000.00	0.00	\$3,000.00	\$0.00
09	0902	2	Exec Manager Development Services	2090289	BM037	House 69A Coronation Street - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$220.81
09	0902	2	Exec Manager Development Services	2090289	BM038	House 69B Coronation Street - Building Maintenance	\$3,000.00	\$0.00	\$3,000.00	0.00	\$3,000.00	\$0.00
09	0902	2	Exec Manager Development Services	2090289	BM039	House 15A Carrington Way - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$719.36

09	0902	2	Exec Manager Development Services	2090289	BM040	House 15B Carrington Way - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$0.00
09	0902	2	Exec Manager Development Services	2090289	BM041	House 7 King Street - Building Maintenance	\$2,800.00	\$0.00	\$2,800.00	5,400.00	\$8,200.00	\$6,305.39
09	0902	2	Exec Manager Development Services	2090289	BM042	House 44 Jackson Way - Building Maintenance	\$12,000.00	-\$6,000.00	\$6,000.00	0.00	\$6,000.00	\$0.00
09	0902	2	Exec Manager Development Services	2090289	BM043	House 51 French Street - Building Maintenance	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$0.00
09	0902	2	Exec Manager Development Services	2090289	BM044	House 56 Kitchener Road - Building Maintenance	\$6,000.00	\$0.00	\$6,000.00	1,000.00	\$7,000.00	\$4,176.87
09	0902	2	Exec Manager Development Services	2090289	W0245	Housing Maintenance	\$7,700.00	\$0.00	\$7,700.00	2,000.00	\$9,700.00	\$0.00
09	0902	2	Exec Manager Corporate Services	2090292		OTH HOUSE - Depreciation	\$165,800.00	\$0.00	\$165,800.00	0.00	\$165,800.00	\$111,306.74
09	0902	2	Exec Manager Corporate Services	2090299		OTH HOUSE - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total							\$439,200.00	-\$7,800.00	\$431,400.00	-5,700.00	\$425,700.00	\$236,357.41
09	0902	3	Exec Manager Corporate Services	3090201		OTH HOUSE - Shire Housing Rental Reimbursements	-\$30,000.00	\$2,000.00	-\$28,000.00	-5,000.00	-\$33,000.00	-\$30,910.84
09	0902	3	Exec Manager Corporate Services	3090235		OTH HOUSE - Other Income	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Operating Income Total							-\$30,000.00	\$2,000.00	-\$28,000.00	-5,000.00	-\$33,000.00	-\$30,910.84
09	0902	4	Exec Manager Development Services	4090210		OTH HOUSE - Building (Capital)						
09	0902	4	Exec Manager Development Services	4090210	BC030	House 16 Dobson Way - Building (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
09	0902	4	Exec Manager Development Services	4090210	BC032	House 9 Cummings Crescent - Building (Capital)	\$12,300.00	\$0.00	\$12,300.00	0.00	\$12,300.00	\$9,590.00
09	0902	4	Exec Manager Development Services	4090210	BC033	House 13 Cummings Crescent - Building (Capital)	\$0.00	\$17,000.00	\$17,000.00	0.00	\$17,000.00	\$0.00
09	0902	4	Exec Manager Development Services	4090210	BC035	House 4 Cohn Street - Building (Capital)	\$4,500.00	\$0.00	\$4,500.00	-700.00	\$3,800.00	\$3,766.00
09	0902	4	Exec Manager Development Services	4090210	BC036	House 10 Cohn Street - Building (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
09	0902	4	Exec Manager Development Services	4090210	BC042	House 44 Jackson Way - Building (Capital)	\$22,000.00	\$3,000.00	\$25,000.00	0.00	\$25,000.00	\$0.00
09	0902	4	Exec Manager Development Services	4090210	BC048	Future Housing	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
09	0902	4	Exec Manager Development Services	4090211		OTH HOUSING - Land (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Capital Expenditure Total							\$38,800.00	\$20,000.00	\$58,800.00	-700.00	\$58,100.00	\$13,356.00
Other Housing Total							\$448,000.00	\$14,200.00	\$462,200.00	-11,400.00	\$450,800.00	\$218,802.57
09	0903	2	Exec Manager Development Services	2090389		COM HOUSE - Building Maintenance						
09	0903	2	Exec Manager Development Services	2090389	BM050	Cummings Unit # 1 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	-500.00	\$1,500.00	\$363.24
09	0903	2	Exec Manager Development Services	2090389	BM051	Cummings Unit # 2 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	-500.00	\$1,500.00	\$613.20
09	0903	2	Exec Manager Development Services	2090389	BM052	Cummings Unit # 3 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,456.33
09	0903	2	Exec Manager Development Services	2090389	BM053	Cummings Unit # 4 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	-500.00	\$1,500.00	\$0.00
09	0903	2	Exec Manager Development Services	2090389	BM054	Cummings Unit # 5 - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,263.00
09	0903	2	Exec Manager Development Services	2090389	BM055	Cummings Units Common Area - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	6,000.00	\$8,000.00	\$7,050.05
Operating Expenditure Total							\$12,000.00	\$0.00	\$12,000.00	4,500.00	\$16,500.00	\$10,745.82
09	0903	3	Exec Manager Corporate Services	3090301		COM HOUSE - Cummings Rental Reimbursements	-\$15,000.00	-\$2,000.00	-\$17,000.00	-5,000.00	-\$22,000.00	-\$20,839.50
Operating Income Total							-\$15,000.00	-\$2,000.00	-\$17,000.00	-5,000.00	-\$22,000.00	-\$20,839.50
Community Housing Total							-\$3,000.00	-\$2,000.00	-\$5,000.00	-500.00	-\$5,500.00	-\$10,093.68
Housing Total							\$445,000.00	\$12,200.00	\$457,200.00	-11,900.00	\$445,300.00	\$208,708.89
FUNCTION 10												
10	1001	2	Exec Manager Development Services	2100111		SAN - Waste Collection	\$391,600.00	\$0.00	\$391,600.00	3,400.00	\$395,000.00	\$262,281.22
10	1001	2	Exec Manager Development Services	2100113		SAN - Waste Recycling	\$110,500.00	\$5,000.00	\$115,500.00	0.00	\$115,500.00	\$74,618.28
10	1001	2	Exec Manager Engineering Services	2100117		SAN - General Tip Maintenance				0.00	\$0.00	
10	1001	2	Exec Manager Engineering Services	2100117	W0075	Merredin Landfill Site	\$405,900.00	\$60,000.00	\$465,900.00	0.00	\$465,900.00	\$310,904.49
10	1001	2	Exec Manager Engineering Services	2100117	W0076	Muntagin Landfill Site	\$3,000.00	\$0.00	\$3,000.00	0.00	\$3,000.00	\$1,000.00
10	1001	2	Exec Manager Development Services	2100187		SAN - Other Expenses	\$63,200.00	\$0.00	\$63,200.00	0.00	\$63,200.00	\$0.00
10	1001	2	Exec Manager Engineering Services	2100188		SAN - Building Operations	\$2,600.00	\$0.00	\$2,600.00	2,500.00	\$5,100.00	\$90.00
10	1001	2	Exec Manager Corporate Services	2100192		SAN - Depreciation	\$1,800.00	\$0.00	\$1,800.00	28,200.00	\$30,000.00	\$27,015.71
10	1001	2	Exec Manager Corporate Services	2100199		SAN - Administration Allocated	\$155,600.00	\$0.00	\$155,600.00	3,600.00	\$159,200.00	\$93,715.98
Operating Expenditure Total							\$1,134,200.00	\$65,000.00	\$1,199,200.00	37,700.00	\$1,236,900.00	\$769,625.68
10	1001	3	Exec Manager Corporate Services	3100100		SAN - Contributions & Donations	-\$97,800.00	\$0.00	-\$97,800.00	300.00	-\$97,500.00	-\$97,538.00
10	1001	3	Exec Manager Corporate Services	3100110		SAN - Grants	-\$75,700.00	\$0.00	-\$75,700.00	0.00	-\$75,700.00	-\$75,680.00
10	1001	3	Exec Manager Corporate Services	3100120		SAN - Domestic Refuse Collection Charges	-\$341,000.00	-\$10,700.00	-\$351,700.00	900.00	-\$350,800.00	-\$350,877.84
10	1001	3	Exec Manager Corporate Services	3100125		SAN - Domestic Recycling Service	-\$110,100.00	-\$9,900.00	-\$120,000.00	-3,800.00	-\$123,800.00	-\$123,747.90
10	1001	3	Exec Manager Engineering Services	3100135		SAN - Other Income	-\$85,000.00	\$35,000.00	-\$50,000.00	15,000.00	-\$35,000.00	-\$25,218.07
Operating Income Total							-\$709,600.00	\$14,400.00	-\$695,200.00	12,400.00	-\$682,800.00	-\$673,061.81
10	1001	4	Exec Manager Engineering Services	4100110		SAN - Building (Capital)						
10	1001	4	Exec Manager Engineering Services	4100110	LC041	Merredin Landfill - Tip Shop	\$15,000.00	\$0.00	\$15,000.00	0.00	\$15,000.00	\$0.00

10	1001	4	Exec Manager Engineering Services	4100130		SAN - Plant & Equipment (Capital)						\$0.00	\$0.00
10	1001	4	Exec Manager Engineering Services	4100130	LC022	Merredin Landfill - Generator Purchase	\$20,000.00	\$0.00	\$20,000.00	20,000.00		\$40,000.00	\$0.00
10	1001	4	Exec Manager Engineering Services	4100180		SAN - Infrastructure Other (Capital)						\$0.00	\$0.00
10	1001	4	Exec Manager Engineering Services	4100180	LC002	E-Waste Recycling & Re-Use Facility	\$105,000.00	\$0.00	\$105,000.00	0.00		\$105,000.00	\$35,475.06
10	1001	4	Exec Manager Engineering Services	4100190		ENVIRON - Infrastructure Other (Capital)						\$0.00	\$0.00
10	1001	4	Exec Manager Engineering Services	4100190	EC001	EV Chargers	\$14,500.00	\$0.00	\$14,500.00	-5,500.00		\$9,000.00	\$8,940.00
Capital Expenditure Total							\$154,500.00	\$0.00	\$154,500.00	14,500.00		\$15,000.00	\$0.00
Sanitation - General Total							\$439,600.00	\$79,400.00	\$519,000.00	50,100.00		\$569,100.00	\$96,563.87
10	1004	2	Exec Manager Engineering Services	2100411		STORM - Stormwater Drainage Maintenance	\$68,600.00	\$0.00	\$68,600.00	0.00		\$68,600.00	\$4,225.31
Operating Expenditure Total							\$68,600.00	\$0.00	\$68,600.00	0.00		\$68,600.00	\$4,225.31
Urban Stormwater Drainage Total							\$68,600.00	\$0.00	\$68,600.00	0.00		\$68,600.00	\$4,225.31
10	1005	2	Exec Manager Engineering Services	2100550		ENVIRON - Contract Services	\$0.00	\$0.00	\$0.00	0.00		\$0.00	\$0.00
10	1005	2	Exec Manager Engineering Services	2100587		ENVIRON - Other Expenses							
10	1005	2	Exec Manager Engineering Services	2100587	W0101	Ep General	\$6,000.00	\$0.00	\$6,000.00	0.00		\$6,000.00	\$1,910.49
10	1005	2	Exec Manager Engineering Services	2100587	W0102	Ep Gravel Pit Rehabilitation	\$15,000.00	\$0.00	\$15,000.00	0.00		\$15,000.00	\$0.00
10	1005	2	Exec Manager Engineering Services	2100587	W0109	Electric Vehicle Expenses	\$0.00	\$400.00	\$400.00	0.00		\$400.00	\$160.00
10	1005	2	Exec Manager Engineering Services	2100587	W0115	Ep Skeleton Weed	\$1,700.00	\$0.00	\$1,700.00	0.00		\$1,700.00	\$0.00
10	1005	2	Exec Manager Corporate Services	2100599		ENVIRON - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	1,800.00		\$79,600.00	\$46,857.99
Operating Expenditure Total							\$100,500.00	\$400.00	\$100,900.00	1,800.00		\$102,700.00	\$48,928.48
10	1001	3	Exec Manager Engineering Services	3100510		ENVIRON - Grants	-\$7,000.00	\$0.00	-\$7,000.00	3,200.00		-\$3,800.00	-\$3,843.18
Operating Income Total							-\$7,000.00	\$0.00	-\$7,000.00	3,200.00		-\$3,800.00	\$43,174.81
Protection Of The Environment Total							\$100,500.00	\$400.00	\$100,900.00	1,800.00		\$102,700.00	\$48,928.48
10	1006	2	Exec Manager Corporate Services	2100600		PLAN - Employee Costs	\$31,900.00	\$0.00	\$31,900.00	400.00		\$32,300.00	\$21,847.77
10	1006	2	Exec Manager Engineering Services	2100610		PLAN - Motor Vehicle Expenses	\$3,300.00	\$0.00	\$3,300.00	1,200.00		\$4,500.00	\$3,742.15
10	1006	2	Exec Manager Development Services	2100652		PLAN - Consultants	\$30,000.00	\$0.00	\$30,000.00	35,000.00		\$65,000.00	\$29,865.00
10	1006	2	Exec Manager Development Services	2100687		PLAN - Other Expenses	\$5,000.00	\$0.00	\$5,000.00	0.00		\$5,000.00	\$0.00
10	1006	2	Exec Manager Corporate Services	2100699		PLAN - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00		\$106,100.00	\$62,477.31
Operating Expenditure Total							\$173,900.00	\$0.00	\$173,900.00	39,000.00		\$212,900.00	\$117,932.23
10	1006	3	Exec Manager Development Services	3100620		PLAN - Planning Application Fees	-\$10,000.00	\$0.00	-\$10,000.00	-60,000.00		-\$70,000.00	-\$63,659.32
10	1006	3	Exec Manager Development Services	3100635		PLAN - Other Income	\$0.00	\$0.00	\$0.00	-300.00		-\$300.00	-\$272.73
Operating Income Total							-\$10,000.00	\$0.00	-\$10,000.00	-60,300.00		-\$70,300.00	-\$63,932.05
Town Planning & Regional Development Total							\$163,900.00	\$0.00	\$163,900.00	-21,300.00		\$142,600.00	\$54,000.18
10	1007	2	Exec Manager Engineering Services	2100711		COM AMEN - Cemetery Burials	\$17,800.00	\$0.00	\$17,800.00	0.00		\$17,800.00	\$6,077.40
10	1007	2	Exec Manager Development Services	2100788		COM AMEN - Public Conveniences Operations							
10	1007	2	Exec Manager Development Services	2100788	BO060	Public Cons Barrack Street - Building Operations	\$20,000.00	\$0.00	\$20,000.00	0.00		\$20,000.00	\$17,502.72
10	1007	2	Exec Manager Development Services	2100788	BO061	Public Cons Apex Park - Building Operations	\$16,000.00	\$0.00	\$16,000.00	0.00		\$16,000.00	\$14,831.70
10	1007	2	Exec Manager Development Services	2100789		COM AMEN - Public Conveniences Maintenance	\$0.00	\$0.00	\$0.00	0.00		\$0.00	\$0.00
10	1007	2	Exec Manager Development Services	2100789	BM060	Public Cons Barrack Street - Building Maintenance	\$11,000.00	\$0.00	\$11,000.00	0.00		\$11,000.00	\$7,116.52
10	1007	2	Exec Manager Development Services	2100789	BM061	Public Cons Apex Park - Building Maintenance	\$6,000.00	\$0.00	\$6,000.00	-5,000.00		\$1,000.00	\$560.55
10	1007	2	Exec Manager Corporate Services	2100792		COM AMEN - Depreciation	\$119,300.00	\$0.00	\$119,300.00	0.00		\$119,300.00	\$18,278.74
10	1007	2	Exec Manager Corporate Services	2100799		COM AMEN - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	1,800.00		\$79,600.00	\$46,857.99
Operating Expenditure Total							\$267,900.00	\$0.00	\$267,900.00	-3,200.00		\$264,700.00	\$111,225.62
10	1007	3	Exec Manager Corporate Services	3100720		COM AMEN - Cemetery Fees (Burial)	-\$20,600.00	\$0.00	-\$20,600.00	2,000.00		-\$18,600.00	-\$17,688.33
10	1007	3	Exec Manager Corporate Services	3100722		COM AMEN - Cemetery Fees (Monuments)	-\$100.00	\$0.00	-\$100.00	0.00		-\$100.00	-\$417.00
Operating Income Total							-\$20,700.00	\$0.00	-\$20,700.00	2,000.00		-\$18,700.00	-\$18,105.33
10	1007	4	Exec Manager Engineering Services	4100770		COM AMEN - Infrastructure Parks & Ovals (Capital)							
10	1007	4	Exec Manager Engineering Services	4100770	CC001	Merredin Cemetery Fencing	\$0.00	\$0.00	\$0.00	0.00		\$0.00	\$0.00
Capital Expenditure Total							\$0.00	\$0.00	\$0.00	0.00		\$0.00	\$0.00
Other Community Amenities Total							\$247,200.00	\$0.00	\$255,500.00	-1,200.00		\$254,300.00	\$103,120.29
Community Amenities Total							\$1,152,300.00	\$79,800.00	\$1,240,400.00	47,100.00		\$1,283,700.00	\$347,410.01
FUNCTION 11													
11	1101	2	Exec Manager Strategy & Commu.	2110187		HALLS - Other Expenses							
11	1101	2	Exec Manager Strategy & Commu.	2110187	W0100	Art Collection Mtce	\$1,500.00	\$0.00	\$1,500.00	0.00		\$1,500.00	\$0.00
11	1101	2	Exec Manager Corporate Services	2110188		HALLS - Town Halls and Public Bldg Operations							

11	1101	2	Exec Manager Corporate Services	2110188	BO005	Old Administration Building - Building Operations	\$13,200.00	\$0.00	\$13,200.00	0.00	\$13,200.00	\$5,499.24
11	1101	2	Exec Manager Corporate Services	2110188	BO006	Old Town Hall - Building Operations	\$1,200.00	\$0.00	\$1,200.00	0.00	\$1,200.00	\$809.64
11	1101	2	Exec Manager Corporate Services	2110188	BO007	Old Town Hall - Building Operations	\$2,500.00	\$100.00	\$2,600.00	0.00	\$2,600.00	\$2,318.93
11	1101	2	Exec Manager Corporate Services	2110188	BO008	Army Cadets Building - Building Operations	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$646.03
11	1101	2	Exec Manager Corporate Services	2110188	BO009	Senior Citizens Centres - Building Operations	\$2,800.00	\$0.00	\$2,800.00	200.00	\$3,000.00	\$2,617.89
11	1101	2	Exec Manager Corporate Services	2110188	BO011	Senior Citizens Centres - Building Operations	\$200.00	\$400.00	\$600.00	0.00	\$600.00	\$424.50
11	1101	2	Exec Manager Corporate Services	2110188	BO012	Senior Citizens Centres - Building Operations	\$1,500.00	-\$100.00	\$1,400.00	0.00	\$1,400.00	\$1,355.67
11	1101	2	Exec Manager Corporate Services	2110188	BO013	Throssel Street (Playgroup) - Building Operations	\$700.00	\$0.00	\$700.00	0.00	\$700.00	\$385.29
11	1101	2	Exec Manager Corporate Services	2110188	BO083	Nmpc Room 9 Community Room, (Old School Library) - Bu	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$0.00
11	1101	2	Exec Manager Corporate Services	2110188	BO084	Nmpc Rpaygroup - Building Operations	\$700.00	\$150.00	\$850.00	50.00	\$900.00	\$650.00
11	1101	2	Exec Manager Corporate Services	2110189	BO085	Lutheran Church	\$800.00	\$0.00	\$800.00	-200.00	\$600.00	\$290.72
11	1101	2	Exec Manager Development Services	2110189		HALLS - Town Halls and Public Bldg Maintenance				0.00		
11	1101	2	Exec Manager Development Services	2110189	BM005	Old Administration Building - Building Maintenance	\$7,000.00	\$0.00	\$7,000.00	0.00	\$7,000.00	\$287.86
11	1101	2	Exec Manager Development Services	2110189	BM006	Womens Rest Centre - Building Maintenance	\$5,400.00	\$0.00	\$5,400.00	0.00	\$5,400.00	\$147.86
11	1101	2	Exec Manager Development Services	2110189	BM007	Old Town Hall - Building Maintenance	\$8,000.00	\$0.00	\$8,000.00	0.00	\$8,000.00	\$1,099.26
11	1101	2	Exec Manager Development Services	2110189	BM008	Army Cadets Building - Building Maintenance	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$147.86
11	1101	2	Exec Manager Development Services	2110189	BM009	Senior Citizens Centres - Building Maintenance	\$6,000.00	\$0.00	\$6,000.00	0.00	\$6,000.00	\$171.87
11	1101	2	Exec Manager Development Services	2110189	BM010	Muntadgin Hall - Building Maintenance	\$10,000.00	\$0.00	\$10,000.00	-2,000.00	\$8,000.00	\$147.86
11	1101	2	Exec Manager Development Services	2110189	BM011	One Night Shelter - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$104.55
11	1101	2	Exec Manager Development Services	2110189	BM012	Fine Arts Society (Old Lib Building) - Building Maintenance	\$4,000.00	\$1,000.00	\$5,000.00	2,500.00	\$7,500.00	\$6,277.21
11	1101	2	Exec Manager Development Services	2110189	BM015	Burracoppin Hall - Building Maintenance	\$4,000.00	\$0.00	\$4,000.00	0.00	\$4,000.00	\$147.86
11	1101	2	Exec Manager Development Services	2110189	BM079	Halls Redevelopment - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
11	1101	2	Exec Manager Development Services	2110189	BM080	Nmpc Room 6 Archives - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
11	1101	2	Exec Manager Development Services	2110189	BM081	Nmps Room 7 Meeting Room - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
11	1101	2	Exec Manager Development Services	2110189	BM082	Nmps Room 8 Wildflower Society Room - Building Maintei	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
11	1101	2	Exec Manager Development Services	2110189	BM083	Nmps Room 9 Community Room, (Old School Library) - Bu	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
11	1101	2	Exec Manager Development Services	2110189	BM084	Nmps Playgroup - Building Maintenance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$1,065.62
11	1101	2	Exec Manager Development Services	2110189	BM085	Nmps Common Areas	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$147.86
11	1101	2	Exec Manager Development Services	2110190		HALLS - Asbestos management Plan Implementation	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$0.00
11	1101	2	Exec Manager Corporate Services	2110192		HALLS - Depreciation	\$84,000.00	\$0.00	\$84,000.00	0.00	\$84,000.00	\$56,373.85
11	1101	2	Exec Manager Corporate Services	2110199		HALLS - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	1,800.00	\$79,600.00	\$46,857.99
Operating Expenditure Total							\$249,300.00	\$1,550.00	\$250,850.00	2,350.00	\$253,200.00	\$127,975.42
11	1101	3	Exec Manager Strategy & Commu.	3110110		HALLS - Grants	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1101	3	Exec Manager Corporate Services	3110121		HALLS - Local Hall Hire	-\$3,500.00	\$0.00	-\$3,500.00	-1,000.00	-\$4,500.00	-\$4,287.92
11	1101	3	Exec Manager Corporate Services	3110122		HALLS - Lease/Rental Income	-\$1,300.00	\$0.00	-\$1,300.00	800.00	-\$500.00	\$0.00
11	1101	3	Exec Manager Corporate Services	3110135		HALLS - Other Income	-\$21,000.00	\$0.00	-\$21,000.00	4,000.00	-\$17,000.00	-\$15,235.43
Operating Income Total							-\$25,800.00	\$0.00	-\$25,800.00	3,800.00	-\$22,000.00	-\$19,523.35
11	1101	4	Exec Manager Development Services	4110110		HALLS - Building (Capital)						
11	1101	4	Exec Manager Development Services	4110110	BC006	Old Administration Building - Building (Capital)	\$8,000.00	\$0.00	\$8,000.00	-4,600.00	\$3,400.00	\$12,575.08
Capital Expenditure Total							\$8,000.00	\$0.00	\$8,000.00	-4,600.00	\$3,400.00	\$12,575.08
Public Halls And Civic Centres Total							\$231,500.00	\$1,550.00	\$233,050.00	1,550.00	\$234,600.00	\$121,027.15
11	1102	2	Exec Manager Corporate Services	2110200		SWIM AREAS - Employee Costs	\$154,900.00	\$49,500.00	\$204,400.00	-50,000.00	\$154,400.00	\$130,924.75
11	1102	2	Exec Manager Corporate Services	2110201		SWIM AREAS - Unrecognised Staff Liabilities	\$18,000.00	\$1,500.00	\$19,500.00	0.00	\$19,500.00	\$19,435.87
11	1102	2	Exec Manager Strategy & Commu.	2110203		SWIM AREAS - Uniforms	\$400.00	\$0.00	\$400.00	0.00	\$400.00	\$394.50
11	1102	2	Exec Manager Strategy & Commu.	2110204		SWIM AREAS - Training & Conferences	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$650.82
11	1102	2	Exec Manager Corporate Services	2110288		SWIM AREAS - Building Operations				0.00		
11	1102	2	Exec Manager Corporate Services	2110288	BO020	Swimming Pool - Building Operations	\$50,000.00	\$0.00	\$50,000.00	0.00	\$50,000.00	\$40,503.95
11	1102	2	Exec Manager Development Services	2110289		SWIM AREAS - Building Maintenance				0.00		
11	1102	2	Exec Manager Development Services	2110289	BM020	Swimming Pool - Building Maintenance	\$20,000.00	\$0.00	\$20,000.00	0.00	\$20,000.00	\$6,723.16
11	1102	2	Exec Manager Corporate Services	2110292		SWIM AREAS - Depreciation	\$77,200.00	\$0.00	\$77,200.00	0.00	\$77,200.00	\$17,811.88
11	1102	2	Exec Manager Corporate Services	2110299		SWIM AREAS - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total							\$426,200.00	\$51,000.00	\$477,200.00	-47,600.00	\$429,600.00	\$278,922.24
11	1102	3	Exec Manager Community & Strat.	3110220		SWIM AREAS - Admissions	-\$35,000.00	\$0.00	-\$35,000.00	1,200.00	-\$33,800.00	-\$33,719.84
Operating Income Total							-\$35,000.00	\$0.00	-\$35,000.00	1,200.00	-\$33,800.00	-\$33,719.84

11	1102	4	Exec Manager Development Services	4110290		SWIM AREAS - Infrastructure Other (Capital)															
11	1102	4	Exec Manager Development Services	4110290	SC041	Pool Bowl	\$20,000.00	\$0.00	\$5,000.00		0.00	\$5,000.00	\$0.00								
11	1102	4	Exec Manager Development Services	4110210		SWIM AREAS - Building (Capital)															
11	1102	4	Exec Manager Development Services	4110210	SC042	Pool - Septic System	\$0.00	\$0.00	\$15,000.00		-3,000.00	\$12,000.00	\$11,900.00								
11	1102	4	Exec Manager Development Services	4110210	NEW	Swimming Pool (Capital)	\$0.00	\$0.00	\$50,000.00		0.00	\$50,000.00	\$0.00								
11	1102	4	Exec Manager Development Services	4110330		SWIM AREAS - Plant & Equipment (Capital)															
11	1102	4	Exec Manager Development Services	4110330	SC043	Pool - Filtration System	\$0.00	\$0.00	\$15,000.00		-3,000.00	\$12,000.00	\$11,736.40								
Capital Expenditure Total							\$20,000.00	\$0.00	\$85,000.00		0.00	\$5,000.00	\$0.00								
Swimming Areas And Beaches Total							\$411,200.00	\$51,000.00	\$447,200.00		-46,400.00	\$400,800.00	\$245,202.40								
11	1103	2	Exec Manager Corporate Services	2110300		REC - Employee Costs	\$0.00	\$302,230.00	\$302,230.00		-50,000.00	\$252,230.00	\$54,441.59								
11	1103	2	Exec Manager Strategy & Commu.	2110304		REC - Training & Conferences	\$0.00	\$2,000.00	\$2,000.00		0.00	\$2,000.00	\$1,991.00								
11	1103	2	Exec Manager Corporate Services	2110330		REC - Insurance Expenses	\$48,400.00	\$6,000.00	\$54,400.00		0.00	\$54,400.00	\$54,365.61								
11	1103	2	Exec Manager Strategy & Commu.	2110352		REC - Management Contract MRCLC	\$98,400.00	\$0.00	\$98,400.00		0.00	\$98,400.00	\$65,564.00								
11	1103	2	Exec Manager Strategy & Commu.	2110353		REC - MRCLC	\$450,000.00	-\$317,230.00	\$132,770.00		0.00	\$132,770.00	\$13,793.76								
11	1103	2	Exec Manager Strategy & Commu.	2110354		REC - MRCLC Initial Maintenance and Repairs	\$0.00	\$105,000.00	\$105,000.00		-10,000.00	\$95,000.00	\$70,419.55								
11	1103	2	Exec Manager Strategy & Commu.	2110355		REC - MRCLC - Building Operations	\$0.00	\$23,000.00	\$23,000.00		4,000.00	\$27,000.00	\$11,306.36								
11	1103	2	Exec Manager Strategy & Commu.	2110356		REC - MRCLC - Building Maintenance	\$0.00	\$21,500.00	\$21,500.00		0.00	\$21,500.00	\$3,295.81								
11	1103	2	Exec Manager Engineering Services	2110365		REC - Parks & Gardens Maintenance/Operations					0.00										
11	1103	2	Exec Manager Engineering Services	2110365	W0001	Apex Park	\$41,800.00	-\$2,000.00	\$39,800.00		1,000.00	\$40,800.00	\$40,144.73								
11	1103	2	Exec Manager Engineering Services	2110365	W0002	Roy Little Park	\$117,100.00	-\$4,500.00	\$112,600.00		-32,600.00	\$80,000.00	\$57,844.90								
11	1103	2	Exec Manager Engineering Services	2110365	W0003	Great Eastern Highway Gardens	\$79,100.00	\$0.00	\$79,100.00		0.00	\$79,100.00	\$44,097.96								
11	1103	2	Exec Manager Engineering Services	2110365	W0004	Lenihan Park	\$4,400.00	\$2,500.00	\$6,900.00		2,100.00	\$9,000.00	\$8,092.05								
11	1103	2	Exec Manager Engineering Services	2110365	W0005	Upper French Ave Park	\$11,000.00	\$0.00	\$11,000.00		0.00	\$11,000.00	\$8,304.18								
11	1103	2	Exec Manager Engineering Services	2110365	W0006	Mary Street Park	\$5,100.00	\$0.00	\$5,100.00		0.00	\$5,100.00	\$2,625.06								
11	1103	2	Exec Manager Engineering Services	2110365	W0007	Barrack Street Park	\$59,400.00	-\$1,000.00	\$58,400.00		3,600.00	\$62,000.00	\$56,142.40								
11	1103	2	Exec Manager Engineering Services	2110365	W0008	Railway Dam	\$800.00	\$1,000.00	\$1,800.00		3,200.00	\$5,000.00	\$3,221.31								
11	1103	2	Exec Manager Engineering Services	2110366	W0009	Merritville Dam	\$0.00	\$0.00	\$0.00		500.00	\$500.00	\$116.55								
11	1103	2	Exec Manager Engineering Services	2110365	W0010	Memorial Park Gardens	\$10,200.00	\$0.00	\$10,200.00		0.00	\$10,200.00	\$7,538.63								
11	1103	2	Exec Manager Engineering Services	2110365	W0011	Fifth Street Gardens	\$500.00	\$0.00	\$500.00		2,500.00	\$3,000.00	\$2,575.81								
11	1103	2	Exec Manager Engineering Services	2110365	W0012	Lower French Avenue Gardens	\$12,350.00	\$0.00	\$12,350.00		0.00	\$12,350.00	\$9,887.77								
11	1103	2	Exec Manager Engineering Services	2110365	W0013	Admin Centre Gardens	\$40,950.00	\$0.00	\$40,950.00		0.00	\$40,950.00	\$36,948.74								
11	1103	2	Exec Manager Engineering Services	2110365	W0014	Old Administration Buildings Gardens	\$13,050.00	-\$2,000.00	\$11,050.00		0.00	\$11,050.00	\$2,771.07								
11	1103	2	Exec Manager Engineering Services	2110365	W0015	Library Gardens	\$5,900.00	\$0.00	\$5,900.00		0.00	\$5,900.00	\$4,102.49								
11	1103	2	Exec Manager Engineering Services	2110365	W0016	Gamenya Avenue Gardens	\$1,100.00	\$1,000.00	\$2,100.00		900.00	\$3,000.00	\$2,060.83								
11	1103	2	Exec Manager Engineering Services	2110365	W0017	Burracoppin Townsite	\$15,000.00	\$3,000.00	\$18,000.00		15,900.00	\$33,900.00	\$32,433.90								
11	1103	2	Exec Manager Engineering Services	2110365	W0018	Muntagin Townsite	\$8,100.00	\$0.00	\$8,100.00		0.00	\$8,100.00	\$0.00								
11	1103	2	Exec Manager Engineering Services	2110365	W0019	Hines Hill Townsite	\$4,200.00	\$0.00	\$4,200.00		0.00	\$4,200.00	\$543.56								
11	1103	2	Exec Manager Engineering Services	2110365	W0020	South Avenue Gardens	\$6,600.00	\$0.00	\$6,600.00		0.00	\$6,600.00	\$4,095.15								
11	1103	2	Exec Manager Engineering Services	2110365	W0021	Railway Oval	\$2,600.00	\$0.00	\$2,600.00		0.00	\$2,600.00	\$432.00								
11	1103	2	Exec Manager Engineering Services	2110365	W0022	Bates Street Carpark Gardens	\$1,950.00	\$0.00	\$1,950.00		0.00	\$1,950.00	\$1,572.19								
11	1103	2	Exec Manager Engineering Services	2110365	W0023	Pioneer Park Gardens	\$26,500.00	\$0.00	\$26,500.00		0.00	\$26,500.00	\$26,021.82								
11	1103	2	Exec Manager Engineering Services	2110365	W0024	Railway Museum Gardens	\$8,900.00	\$0.00	\$8,900.00		0.00	\$8,900.00	\$5,305.94								
11	1103	2	Exec Manager Engineering Services	2110365	W0025	Merredin Peak	\$14,900.00	\$0.00	\$14,900.00		0.00	\$14,900.00	\$6,801.10								
11	1103	2	Exec Manager Engineering Services	2110365	W0026	Dog Park	\$9,400.00	\$0.00	\$9,400.00		0.00	\$9,400.00	\$4,291.10								
11	1103	2	Exec Manager Engineering Services	2110365	W0030	Independent Water Supply	\$98,350.00	\$0.00	\$98,350.00		-29,750.00	\$68,600.00	\$63,053.99								
11	1103	2	Exec Manager Engineering Services	2110365	W0031	Swimming Pool Gardens	\$8,500.00	\$0.00	\$8,500.00		0.00	\$8,500.00	\$4,499.46								
11	1103	2	Exec Manager Engineering Services	2110365	W0032	Pioneer Cemetery Gardens	\$1,900.00	\$0.00	\$1,900.00		0.00	\$1,900.00	\$1,680.30								
11	1103	2	Exec Manager Engineering Services	2110365	W0033	Cemetery Gardens	\$80,400.00	\$0.00	\$80,400.00		0.00	\$80,400.00	\$68,141.67								
11	1103	2	Exec Manager Engineering Services	2110365	W0034	Parks & Gardens Minor Tools	\$7,500.00	\$0.00	\$7,500.00		0.00	\$7,500.00	\$6,658.52								
11	1103	2	Exec Manager Engineering Services	2110365	W0035	Other Parks & Gardens	\$4,800.00	\$0.00	\$4,800.00		0.00	\$4,800.00	\$4,629.58								
11	1103	2	Exec Manager Engineering Services	2110365	W0036	Bates Street (Adjacent To Dog Park)	\$150.00	\$350.00	\$500.00		500.00	\$1,000.00	\$755.44								
11	1103	2	Exec Manager Engineering Services	2110366		REC - Town Oval Maintenance/Operations	\$0.00	\$0.00	\$0.00		0.00	\$0.00	\$0.00								
11	1103	2	Exec Manager Engineering Services	2110366	W0027	Merredin Rec Centre Oval	\$72,000.00	\$0.00	\$72,000.00		-10,000.00	\$62,000.00	\$43,008.88								
11	1103	2	Exec Manager Engineering Services	2110366	W0028	Merredin Rec Centre Oval	\$13,000.00	\$0.00	\$13,000.00		21,000.00	\$34,000.00	\$28,048.56								

11	1103	2	Exec Manager Engineering Services	2110366	W0029	Merredin Rec Others	\$62,000.00	\$0.00	\$62,000.00	-5,000.00	\$57,000.00	\$36,173.32
11	1103	2	Exec Manager Corporate Services	2110370		REC - Loan Interest Repayments	\$33,600.00	\$0.00	\$33,600.00	-33,600.00	\$0.00	\$0.00
11	1103	2	Exec Manager Strategy & Commu.	2110387		REC - Other Expenses						
11	1103	2	Exec Manager Strategy & Commu.	2110387	W0160	Operating Expenses	\$21,500.00	\$0.00	\$21,500.00	-2,000.00	\$19,500.00	\$13,119.30
11	1103	2	Exec Manager Strategy & Commu.	2110388	W0090	Merredin Recreation Facilities Building Op.	\$10,000.00	-\$9,500.00	\$500.00	-500.00	\$0.00	\$0.00
11	1103	2	Exec Manager Development Services	2110389		REC - Other Rec Facilities Building Maintenance	\$42,000.00	-\$20,000.00	\$22,000.00	3,000.00	\$25,000.00	\$18,402.89
11	1103	2	Exec Manager Corporate Services	2110392		REC - Depreciation	\$912,200.00	\$0.00	\$912,200.00	0.00	\$912,200.00	\$633,089.25
11	1103	2	Exec Manager Corporate Services	2110399		REC - Administration Allocated	\$51,900.00	\$0.00	\$51,900.00	1,200.00	\$53,100.00	\$31,238.65
11	1103	2	Exec Manager Corporate Services	2110401		Liquidity Loan - Interest	\$0.00	\$80,000.00	\$80,000.00	0.00	\$80,000.00	\$0.00
Operating Expenditure Total							\$2,517,500.00	\$191,350.00	\$2,708,850.00	-114,050.00	\$2,594,800.00	\$1,605,648.73
11	1103	3	Exec Manager Corporate Services	3110310		REC - Grants	\$0.00	-\$2,100,061.00	-\$2,100,061.00	0.00	-\$2,100,061.00	\$0.00
11	1103	3	Exec Manager Corporate Services	3110313		REC - Grants - LRCl	-\$1,721,200.00	-\$402,867.00	-\$2,124,067.00	0.00	-\$2,124,067.00	\$0.00
11	1103	3	Exec Manager Corporate Services	3110314		REC - Grants - BBRF	-\$1,520,400.00	\$0.00	-\$1,520,400.00	0.00	-\$1,520,400.00	\$0.00
11	1103	3	Exec Manager Corporate Services	3110315		REC - Other Capital Contributions	-\$336,400.00	-\$237,670.00	-\$574,070.00	0.00	-\$574,070.00	\$0.00
11	1103	3	Exec Manager Strategy & Commu.	3110335		REC - Other Income	\$0.00	-\$6,000.00	-\$6,000.00	1,200.00	-\$4,800.00	-\$3,121.43
Operating Income Total							-\$3,578,000.00	-\$2,746,598.00	-\$6,324,598.00	1,200.00	-\$6,323,398.00	-\$3,121.43
11	1103	4	Exec Manager Development Services	4110310		REC - Other Rec Facilities Building (Capital)	\$0.00	-\$15,000.00	\$0.00	87,500.00	\$87,500.00	\$0.00
11	1103	4	Exec Manager Development Services	NEW		REC - Other Rec Facilities Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	12,500.00	\$12,500.00	\$0.00
11	1103	4	Exec Manager Development Services	4110330		REC - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1103	4	Exec Manager Engineering Services	4110370		REC - Infrastructure Parks & Gardens (Capital)						
11	1103	4	Exec Manager Engineering Services	4110370	PC001	Apex Park Revitalisation	\$2,021,200.00	\$2,364,985.00	\$4,386,185.00	0.00	\$4,386,185.00	\$52,240.05
11	1103	4	Exec Manager Engineering Services	4110370	PC036	Cbd Redevelopment - Visitor Centre Relocation	\$450,000.00	-\$80,000.00	\$370,000.00	0.00	\$370,000.00	\$416.00
11	1103	4	Exec Manager Engineering Services	4110370	PC007	Cbd Redevelopment	\$3,050,400.00	\$330,943.00	\$3,381,343.00	0.00	\$3,381,343.00	\$43,807.46
11	1103	4	Exec Manager Engineering Services	4110370	PC030	Independent Water Supply	\$0.00	\$0.00	\$0.00	30,000.00	\$30,000.00	\$0.00
11	1103	4	Exec Manager Engineering Services	4110370	PC041	Water Tower Refurbishments	\$351,100.00	\$228,900.00	\$580,000.00	0.00	\$580,000.00	\$0.00
11	1103	4	Exec Manager Engineering Services	4110370	PC042	Playground Shades	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1103	4	Exec Manager Engineering Services	4110370	PC043	Replace Softfall - MRCLC Playground	\$30,000.00	\$0.00	\$30,000.00	0.00	\$30,000.00	\$0.00
11	1103	4	Exec Manager Corporate Services	4110380		REC - Loan Principal Repayments	\$55,800.00	\$0.00	\$55,800.00	0.00	\$55,800.00	\$0.00
Capital Expenditure Total							\$5,958,500.00	\$2,829,828.00	\$8,803,328.00	130,000.00	\$8,933,328.00	\$96,463.51
11	1103	5	Exec Manager Corporate Services	5110355		REC - New Loan Borrowings	-\$1,480,000.00	\$0.00	-\$1,480,000.00	0.00	-\$1,480,000.00	-\$1,480,000.00
Capital Income Total							-\$1,480,000.00	\$0.00	-\$1,480,000.00	0.00	-\$1,480,000.00	-\$1,480,000.00
Other Recreation And Sport Total							\$3,418,000.00	\$274,580.00	\$3,707,580.00	17,150.00	\$3,724,730.00	\$218,990.81
11	1104	2	Exec Manager Development Services	2110465		TV RADIO - Re-Broadcasting Maintenance/Operations	\$200.00	\$0.00	\$200.00	0.00	\$200.00	\$171.17
Operating Expenditure Total							\$200.00	\$0.00	\$200.00	0.00	\$200.00	\$171.17
Other TV RadioTotal							\$200.00	\$0.00	\$200.00	0.00	\$200.00	\$171.17
11	1105	2	Exec Manager Corporate Services	2110500		LIBRARY - Employee Costs	\$173,400.00	\$0.00	\$173,400.00	0.00	\$173,400.00	\$96,423.49
11	1105	2	Exec Manager Strategy & Commu.	2110512		LIBRARY - Book Purchases	\$1,500.00	\$0.00	\$1,500.00	1,000.00	\$2,500.00	\$1,145.45
11	1105	2	Exec Manager Strategy & Commu.	2110513		LIBRARY - Lost Books	\$500.00	\$0.00	\$500.00	0.00	\$500.00	\$0.00
11	1105	2	Exec Manager Strategy & Commu.	2110514		LIBRARY - Local History	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$0.00
11	1105	2	Exec Manager Strategy & Commu.	2110521		LIBRARY - Information Technology	\$17,500.00	\$0.00	\$17,500.00	-1,000.00	\$16,500.00	\$0.00
11	1105	2	Exec Manager Strategy & Commu.	2110586		LIBRARY - Expensed Minor Asset Purchases	\$5,300.00	\$0.00	\$5,300.00	0.00	\$5,300.00	\$0.00
11	1105	2	Exec Manager Strategy & Commu.	2110587		LIBRARY - Other Expenses	\$14,000.00	\$0.00	\$14,000.00	0.00	\$14,000.00	\$3,396.28
11	1105	2	Exec Manager Corporate Services	2110588		LIBRARY - Library Building Operations						
11	1105	2	Exec Manager Corporate Services	2110588	BO004	North Merredin Library - Building Operations	\$21,500.00	\$0.00	\$21,500.00	0.00	\$21,500.00	\$17,441.58
11	1105	2	Exec Manager Development Services	2110589		LIBRARY - Library Building Maintenance						
11	1105	2	Exec Manager Development Services	2110589	BM004	North Merredin Library - Building Maintenance	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$3,804.00
11	1105	2	Exec Manager Corporate Services	2110592		LIBRARY - Depreciation	\$81,500.00	\$0.00	\$81,500.00	0.00	\$81,500.00	\$54,189.01
11	1105	2	Exec Manager Corporate Services	2110599		LIBRARY - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total							\$431,400.00	\$0.00	\$431,400.00	2,400.00	\$433,800.00	\$238,877.12
11	1105	3	Exec Manager Strategy & Commu.	3110511		LIBRARY - Other Grants	\$0.00	\$0.00	\$0.00	-200.00	-\$200.00	-\$170.54
11	1105	3	Exec Manager Strategy & Commu.	3110520		LIBRARY - Fees & Charges	-\$1,000.00	\$0.00	-\$1,000.00	0.00	-\$1,000.00	-\$805.75
					MLI01	Merredin Library - School Holiday Program	-\$1,000.00	\$0.00	-\$1,000.00	0.00	-\$1,000.00	\$0.00
Operating Income Total							-\$1,000.00	\$0.00	-\$1,000.00	-200.00	-\$1,200.00	-\$976.29
11	1105	4	Exec Manager Development Services	4110510		LIBRARY - Library Building (Capital)						

11	1105	4	Exec Manager Development Services	4110510	BC004	North Merredin Library - Building (Capital)	\$21,000.00	\$0.00	\$21,000.00	0.00	\$21,000.00	\$0.00
11	1105	4	Exec Manager Strategy & Commu.	4110530		LIBRARY - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Capital Expenditure Total							\$21,000.00	\$0.00	\$21,000.00	0.00	\$21,000.00	\$0.00
Libraries Total							\$450,400.00	\$0.00	\$450,400.00	2,200.00	\$452,600.00	\$237,900.83
11	1106	2	Exec Manager Development Services	2110689		HERITAGE - Building Maintenance						
11	1106	2	Exec Manager Development Services	2110689	W0040	Military Museum Building Mtce	\$4,700.00	\$0.00	\$4,700.00	0.00	\$4,700.00	\$1,986.91
11	1106	2	Exec Manager Development Services	2110689	W0048	Railway Museum Building Mtce	\$5,800.00	\$2,000.00	\$7,800.00	0.00	\$7,800.00	\$6,535.92
11	1106	2	Exec Manager Corporate Services	2110689	W0049	Insurance	\$2,400.00	\$4,260.00	\$6,660.00	0.00	\$6,660.00	\$6,653.86
11	1106	2	Exec Manager Development Services	2110689	W0050	Heritage Trail Maintenance	\$0.00	\$0.00	\$0.00	1,600.00	\$1,600.00	\$1,591.41
11	1106	2	Exec Manager Corporate Services	2110699		HERITAGE - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total							\$116,600.00	\$6,260.00	\$122,860.00	4,000.00	\$126,860.00	\$79,245.41
11	1106	3	Exec Manager Strategy & Commu.	3110610		HERITAGE - Grants	-\$20,000.00	\$0.00	-\$20,000.00	0.00	-\$20,000.00	\$0.00
Operating Income Total							-\$20,000.00	\$0.00	-\$20,000.00	0.00	-\$20,000.00	\$0.00
11	1106	4	Exec Manager Development Services	4110610		HERITAGE - Building (Capital)						
11	1106	4	Exec Manager Development Services	4110610	HC041	Railway Museum - Precinct	\$30,000.00	\$10,000.00	\$40,000.00	0.00	\$40,000.00	\$0.00
Capital Expenditure Total							\$30,000.00	\$10,000.00	\$40,000.00	0.00	\$40,000.00	\$0.00
Heritage Total							\$126,600.00	\$16,260.00	\$142,860.00	4,000.00	\$146,860.00	\$79,245.41
11	1107	2	Exec Manager Corporate Services	2110700		OTH CUL - Employee Costs	\$182,500.00	\$0.00	\$182,500.00	0.00	\$182,500.00	\$94,897.53
11	1107	2	Exec Manager Strategy & Commu.	2110743		OTH CUL - Other Festival Events				0.00		
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT029	Comedy Gold	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT078	Morning Melodies	\$4,000.00	\$0.00	\$4,000.00	0.00	\$4,000.00	\$2,963.64
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT122	Hotel California - The Eagles Experience	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT128	The Stories Of Swing	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT128A	Stories Of Swing - Grant Funded	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT129	Stardust & The Mission	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT129A	Stardust & The Mission - Grant Funded	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT130	Merredin Country Music Weekend	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT131	Tony Galati - The Musical	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT131A	Tony Galati - The Musical - Grant Funded	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT132	Finucane & Smith	\$5,300.00	\$0.00	\$5,300.00	0.00	\$5,300.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT132A	Finucane & Smith - Grant Funded	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT134	David Scheel	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$2,000.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT134A	David Scheel - Grant Funded	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT139	Alphabet of Awesome Science	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT140	Alex and Evie and the Forever Falling Rain	\$0.00	\$0.00	\$0.00	3,000.00	\$3,000.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110745	CT141	Kalyakoorl, Ngalak Warangka	\$4,500.00	\$0.00	\$4,500.00	-2,000.00	\$2,500.00	\$2,500.00
11	1107	2	Exec Manager Strategy & Commu.	2110745	CT143	Alex and Evie and the Forever Falling Rain	\$3,000.00	\$0.00	\$3,000.00	-3,000.00	\$0.00	\$3,000.00
11	1107	2	Exec Manager Strategy & Commu.	2110745	CT146	Little Red	\$4,000.00	-\$4,000.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110743	CT178	Other Shows	\$27,200.00	\$0.00	\$27,200.00	0.00	\$27,200.00	\$9,200.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT138	The Wiggles	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT200	In The House Grant	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT201	Edward The Emu	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT202	Brass Monkeys	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT203	Grant Funded Wages	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110744	CT204	Morning Melodies	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110745		OTH CUL - Community & Culture Planning	\$12,900.00	-\$7,900.00	\$5,000.00	0.00	\$5,000.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110765		OTH CUL - Theatre Operations	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$729.34
11	1107	2	Exec Manager Strategy & Commu.	2110786		OTH CUL - Expensed Minor Asset Purchases	\$4,000.00	\$0.00	\$4,000.00	0.00	\$4,000.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110787		OTH CUL - Other Expenses						
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG01	General Operating Costs	\$13,000.00	\$0.00	\$13,000.00	0.00	\$13,000.00	\$2,060.98
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG03	Licenses And Memberships	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$1,580.64
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG04	Marketing & Promotion	\$4,500.00	\$0.00	\$4,500.00	0.00	\$4,500.00	\$1,233.09
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG06	Technical Maintenance	\$15,000.00	\$0.00	\$15,000.00	0.00	\$15,000.00	\$2,389.10

11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG07	Equipment Purchases	\$4,000.00	\$0.00	\$4,000.00	0.00	\$4,000.00	\$161.36
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG08	Equipment Purchases	\$9,500.00	-\$9,500.00	\$0.00	0.00	\$0.00	-\$1,000.00
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG09	Gardens Maintenance	\$3,000.00	\$0.00	\$3,000.00	0.00	\$3,000.00	\$171.82
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG11	External Hire Expenses	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	2	Exec Manager Strategy & Commu.	2110787	CTG13	Kitchener St Residency Expenses	\$6,000.00	\$0.00	\$6,000.00	0.00	\$6,000.00	\$1,026.17
11	1107	2	Exec Manager Strategy & Commu.	2110788		OTH CUL - Building Operations						
11	1107	2	Exec Manager Strategy & Commu.	2110788	BO002	Cummin Theatre - Building Operations	\$47,200.00	\$9,500.00	\$56,700.00	0.00	\$56,700.00	\$39,386.47
11	1107	2	Exec Manager Development Services	2110789		OTH CUL - Building Maintenance						
11	1107	2	Exec Manager Development Services	2110789	BM002	Cummin Theatre - Building Maintenance	\$39,000.00	\$0.00	\$39,000.00	0.00	\$39,000.00	\$11,127.74
11	1107	2	Exec Manager Corporate Services	2110792	CTG132	OTH CUL - Depreciation	\$214,200.00	\$0.00	\$214,200.00	0.00	\$214,200.00	\$152,140.22
11	1107	2	Exec Manager Corporate Services	2110799		OTH CUL - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	1,700.00	\$79,500.00	\$46,857.99
Operating Expenditure Total							\$694,600.00	-\$11,900.00	\$682,700.00	-300.00	\$682,400.00	\$372,426.09
11	1107	3	Exec Manager Strategy & Commu.	3110710		OTH CUL - Grants - Theatre Shows						
11	1107	3	Exec Manager Strategy & Commu.	3110710	CTG029	Comedy Gold 2022 - Grant Funding	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110710	CTG128	The Stories Of Swing - Grant Funding	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110710	CTG129	Stardust + The Mission By The Space Company - Grant Fun	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110710	CTG131	Tony Galati The Musical - Grant Funding	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110710	CTG132	Finucane & Smith'S Travelling Dance Hall -- Grant Funding	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110710	CTG134	David Scheel - Grant Funding	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110711		OTH CUL - Other Contributions	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720		OTH CUL - Fees & Charges						
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI01	Theatre Hire	-\$20,000.00	\$6,000.00	-\$14,000.00	0.00	-\$14,000.00	-\$11,878.05
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI02	Mou Rep Club	-\$1,500.00	\$0.00	-\$1,500.00	0.00	-\$1,500.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI04	Ticket Sales	-\$3,500.00	\$2,000.00	-\$1,500.00	1,000.00	-\$500.00	-\$254.54
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI05	Ticket Sales Rep Club	-\$2,000.00	\$2,000.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI06	Inhouse Events	-\$100.00	\$0.00	-\$100.00	0.00	-\$100.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI07	Equipment Hire	-\$500.00	\$0.00	-\$500.00	-300.00	-\$800.00	-\$800.01
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI11	Bar Sales	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTGI14	Technical & Foh Staff	-\$4,500.00	\$2,000.00	-\$2,500.00	0.00	-\$2,500.00	-\$979.10
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI029	Comedy Gold 2022	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110721	CTI035	Celtic Illusion	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI078	Morning Melodies	\$0.00	\$0.00	\$0.00	-1,200.00	-\$1,200.00	-\$1,129.82
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI108	Stardust & The Mission	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110721	CTI122	Hotel California - The Eagles Experience	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI126	Stardust + The Mission (Regional Arts Victoria)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI128	The Stories Of Swing - Ticket Sales	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI131	Tony Galatie The Musical - Ticket Sales	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI134	David Scheel - Ticket Sales	\$0.00	\$0.00	\$0.00	-800.00	-\$800.00	-\$856.69
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI135	Roald Dahl And The Imagination Seekers	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI137	Rthe American Rock And Role Experience	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110721	CTI138	The Wiggles	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
11	1107	3	Exec Manager Strategy & Commu.	3110721	CTI141	Kalyakoorl Ngalak Warangka (Forever We Sing)	\$0.00	\$0.00	\$0.00	-300.00	-\$300.00	-\$306.13
11	1107	3	Exec Manager Strategy & Commu.	3110721	CTI151	Shannon Noll - That's What I'm Talking About	\$0.00	\$0.00	\$0.00	-100.00	-\$100.00	-\$126.00
11	1107	3	Exec Manager Strategy & Commu.	3110720	CTI201	Edward The Emu - (Ticket Sales)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Operating Income Total							-\$32,100.00	\$12,000.00	-\$20,100.00	-1,700.00	-\$21,800.00	-\$16,330.34
11	1107	4	Exec Manager Development Services	4110710		OTH CUL - Building (Capital)						
11	1107	4	Exec Manager Development Services	4110710	BC002	Cummin Theatre - Building (Capital)	\$50,000.00	-\$6,100.00	\$43,900.00	0.00	\$43,900.00	\$0.00
11	1107	4	Exec Manager Strategy & Commu.	NEW		OTHER CUL - Plant & Equipment (Capital)	\$0.00	\$0.00	\$0.00	-6,200.00	-\$6,200.00	6,200.00
Capital Expenditure Total							\$50,000.00	-\$6,100.00	\$43,900.00	-6,200.00	\$43,900.00	\$0.00
Other Culture Total							\$712,500.00	-\$6,000.00	\$706,500.00	-2,000.00	\$704,500.00	\$356,095.75
Recreation & Culture Total							\$5,350,400.00	\$337,390.00	\$5,767,790.00	-35,700.00	\$5,738,290.00	\$1,282,269.92
FUNCTION 12												
12	1201	3	Exec Manager Engineering Services	3120110		ROADC - Regional Road Group Grants (MRWA)	-\$673,600.00	\$0.00	-\$673,600.00	0.00	-\$673,600.00	-\$315,449.00
12	1201	3	Exec Manager Engineering Services	3120111		ROADC - Roads to Recovery Grant	-\$705,700.00	-\$93,500.00	-\$799,200.00	0.00	-\$799,200.00	-\$73,287.00

12	1201	3	Exec Manager Engineering Services	3120118	ROADC - Wheatbelt Secondary Freight Network (WSFN)	-\$3,443,700.00	-\$589,200.00	-\$4,032,900.00	1,448,200.00	-\$2,584,700.00	-\$2,124,333.60
Operating Income Total						-\$4,823,000.00	-\$682,700.00	-\$5,505,700.00	1,448,200.00	-\$4,057,500.00	-\$2,513,069.60
12	1201	4	Exec Manager Engineering Services	4120110	ROADC - Building (Capital)	\$13,500.00		\$13,500.00	-6,500.00	\$7,000.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120140	ROADC - Roads Built Up Area - Council Funded						
12	1201	4	Exec Manager Engineering Services	4120140	RC135 Barrack Street (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120140	RC401 Line Marking Program	\$35,000.00	\$0.00	\$35,000.00	0.00	\$35,000.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120140	RC402 Signage Replacement Program	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120141	ROADC - Roads Outside BUA - Sealed - Council Funded						
12	1201	4	Exec Manager Engineering Services	4120141	RC239 Merredin-Narembeen Road (Capital)	\$3,975,600.00	\$318,100.00	\$4,293,700.00	-1,824,400.00	\$2,469,300.00	\$1,794,496.11
12	1201	4	Exec Manager Engineering Services	4120141	RC239 Merredin-Narembeen Road (Capital) 9.18 - 9.18	\$0.00	\$0.00	\$300,000.00	300,000.00	\$300,000.00	284,095.89
12	1201	4	Exec Manager Engineering Services	4120145	ROADC - Roads Outside BUA - Sealed - Roads to Recovery						
12	1201	4	Exec Manager Engineering Services	4120145	R2R000 To Be Allocated	\$37,000.00	\$57,500.00	\$94,500.00	-50,000.00	\$44,500.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R001 Chandler Merredin Road (R2R)	\$0.00	\$27,300.00	\$27,300.00	0.00	\$27,300.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R003 Bullshead Road (R2R)	\$0.00	\$53,400.00	\$53,400.00	0.00	\$53,400.00	\$44,307.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R012 Nokanning West Road (R2R)	\$0.00	\$35,200.00	\$35,200.00	0.00	\$35,200.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R013 Nukarni East Road (R2R)	\$0.00	\$72,600.00	\$72,600.00	0.00	\$72,600.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R014 Nukarni West Road (R2R)	\$155,500.00	-\$99,400.00	\$56,100.00	0.00	\$56,100.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R017 Fewster Rd (R2R)	\$104,600.00	\$0.00	\$104,600.00	0.00	\$104,600.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R063 Korbelka Road (R2R)	\$0.00	\$99,400.00	\$99,400.00	0.00	\$99,400.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R072 Crooks Road (R2R)	\$0.00	\$54,100.00	\$54,100.00	0.00	\$54,100.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120145	R2R090 Goldfields Road (R2R)	\$0.00	\$202,300.00	\$202,300.00	0.00	\$202,300.00	\$7,469.97
12	1201	4	Exec Manager Engineering Services	4120145	R2R179 Bower Street (R2R)	\$0.00	\$0.00	\$0.00	50,000.00	\$50,000.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120149	ROADC - Roads Outside BUA - Sealed - Regional Road Group						
12	1201	4	Exec Manager Engineering Services	4120149	RRG001 Chandler-Merredin - Resurfacing (Rrg)	\$81,500.00	-\$27,300.00	\$54,200.00	0.00	\$54,200.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120149	RRG003 Bullshead Road (Rrg)	\$160,000.00	-\$53,400.00	\$106,600.00	0.00	\$106,600.00	\$88,613.00
12	1201	4	Exec Manager Engineering Services	4120147	R2R063 R2R Korbelka Rd - Resurfacing	\$0.00	\$99,400.00	\$99,400.00	0.00	\$99,400.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120149	RRG072 Crooks Road (Rrg)	\$282,200.00	-\$174,100.00	\$108,100.00	0.00	\$108,100.00	\$2,850.00
12	1201	4	Exec Manager Engineering Services	4120150	ROADC - Roads Outside BUA - Gravel - Regional Road Group						
12	1201	4	Exec Manager Engineering Services	4120150	RRG090 Goldfields Road (Rrg)	\$486,800.00	-\$82,200.00	\$404,600.00	0.00	\$404,600.00	\$24,289.46
12	1201	4	Exec Manager Engineering Services	4120165	ROADC - Drainage Built Up Area (Capital)						
12	1201	4	Exec Manager Engineering Services	4120165	DC000 Drainage Replacement (Budgeting Only)	\$70,000.00	\$0.00	\$70,000.00	0.00	\$70,000.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120168	ROADC - Kerbing (Capital)						
12	1201	4	Exec Manager Engineering Services	4120168	KC000 Kerbing Replacement (Budgeting Only)	\$50,000.00	-\$15,000.00	\$35,000.00	0.00	\$35,000.00	\$0.00
12	1201	4	Exec Manager Engineering Services	4120170	ROADC - Footpaths and Cycleways (Capital)						
12	1201	4	Exec Manager Engineering Services	4120170	FC000 Footpath Construction General (Budgeting Only)	\$110,800.00	-\$43,000.00	\$67,800.00	0.00	\$67,800.00	\$0.00
Capital Expenditure Total						\$5,562,500.00	\$524,900.00	\$6,387,400.00	-1,530,900.00	\$4,556,500.00	\$2,246,121.43
Construction - Streets, Roads, Bridges & Depots Total						\$739,500.00	-\$157,800.00	\$881,700.00	-82,700.00	\$499,000.00	-\$266,948.17
12	1202	2	Exec Manager Engineering Services	2120211	ROADM - Road Maintenance - Built Up Areas						
12	1202	2	Exec Manager Engineering Services	2120211	FM000 Footpath Maintenance General (Budgeting Only)	\$355,000.00	\$0.00	\$355,000.00	26,200.00	\$381,200.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	FM140 Coronation Street - Footpath Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	RM102 Gabo Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,094.43
12	1202	2	Exec Manager Engineering Services	2120211	RM104 Insignia Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,420.22
12	1202	2	Exec Manager Engineering Services	2120212	RM113 Dobson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,636.98
12	1202	2	Exec Manager Engineering Services	2120211	RM135 Barrack Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$19,328.77
12	1202	2	Exec Manager Engineering Services	2120211	RM136 Bates Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,754.33
12	1202	2	Exec Manager Engineering Services	2120211	RM137 Mitchell Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,251.38
12	1202	2	Exec Manager Engineering Services	2120211	RM138 Fifth Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,034.11
12	1202	2	Exec Manager Engineering Services	2120212	RM139 Queen Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,309.39
12	1202	2	Exec Manager Engineering Services	2120211	RM140 Coronation Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$14,561.69
12	1202	2	Exec Manager Engineering Services	2120211	RM141 Duff Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$6,503.38
12	1202	2	Exec Manager Engineering Services	2120211	RM142 French Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$747.98
12	1202	2	Exec Manager Engineering Services	2120211	RM144 Woolgar Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,245.92
12	1202	2	Exec Manager Engineering Services	2120211	RM145 King Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,929.46
12	1202	2	Exec Manager Engineering Services	2120211	RM146 George Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$898.42

12	1202	2	Exec Manager Engineering Services	2120211	RM147	Pollock Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,304.87
12	1202	2	Exec Manager Engineering Services	2120211	RM148	Caw Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,087.54
12	1202	2	Exec Manager Engineering Services	2120211	RM149	Endersbee Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,539.95
12	1202	2	Exec Manager Engineering Services	2120211	RM150	Kitchener Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$12,913.91
12	1202	2	Exec Manager Engineering Services	2120212	RM151	Growden Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,272.21
12	1202	2	Exec Manager Engineering Services	2120211	RM152	Cunningham Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,076.33
12	1202	2	Exec Manager Engineering Services	2120211	RM153	Throssell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,091.86
12	1202	2	Exec Manager Engineering Services	2120211	RM154	Mary Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,329.24
12	1202	2	Exec Manager Engineering Services	2120212	RM155	Hobbs Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120213	RM156	Hart Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM157	Haig Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.33
12	1202	2	Exec Manager Engineering Services	2120211	RM158	Golf Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$324.11
12	1202	2	Exec Manager Engineering Services	2120211	RM159	Allbeury Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,721.68
12	1202	2	Exec Manager Engineering Services	2120212	RM160	Craddock Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120213	RM161	Jellicoe Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$411.81
12	1202	2	Exec Manager Engineering Services	2120211	RM162	Morton Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM163	Farrar Parade - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,226.80
12	1202	2	Exec Manager Engineering Services	2120211	RM164	Jubilee Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM165	Hunter Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$250.56
12	1202	2	Exec Manager Engineering Services	2120211	RM166	Mill Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,946.13
12	1202	2	Exec Manager Engineering Services	2120211	RM167	Council Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM168	Kendall Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$199.17
12	1202	2	Exec Manager Engineering Services	2120211	RM169	Snell Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,450.56
12	1202	2	Exec Manager Engineering Services	2120211	RM171	Hay Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,714.35
12	1202	2	Exec Manager Engineering Services	2120211	RM172	Colin Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,231.89
12	1202	2	Exec Manager Engineering Services	2120211	RM173	Stephens Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$545.69
12	1202	2	Exec Manager Engineering Services	2120211	RM174	Alfred Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,367.79
12	1202	2	Exec Manager Engineering Services	2120211	RM175	Telfer Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$905.43
12	1202	2	Exec Manager Engineering Services	2120211	RM176	Cummings Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,099.55
12	1202	2	Exec Manager Engineering Services	2120212	RM177	Gilmore Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120213	RM178	Tomlinson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM179	Bower Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM180	Aspland Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,586.46
12	1202	2	Exec Manager Engineering Services	2120211	RM181	Muscat Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM182	Pereira Drive - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$309.49
12	1202	2	Exec Manager Engineering Services	2120211	RM183	Saleyard Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	RM184	Allenby Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$404.70
12	1202	2	Exec Manager Engineering Services	2120211	RM185	Lefroy Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120212	RM186	Ellis Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,600.16
12	1202	2	Exec Manager Engineering Services	2120211	RM188	Todd West Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,776.38
12	1202	2	Exec Manager Engineering Services	2120211	RM190	Macdonald Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,183.52
12	1202	2	Exec Manager Engineering Services	2120211	RM191	Haines Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120212	RM192	Solomon Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM193	Cohn Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,613.25
12	1202	2	Exec Manager Engineering Services	2120211	RM194	Priestley Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM195	Hill Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$309.49
12	1202	2	Exec Manager Engineering Services	2120211	RM196	Boyd Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM197	Jackson Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM198	Princess Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,601.69
12	1202	2	Exec Manager Engineering Services	2120211	RM199	Brewery Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM200	Benson Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM201	Watson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120212	RM202	Barr Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM203	Harling Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$656.21

12	1202	2	Exec Manager Engineering Services	2120211	RM204	Third Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$498.73
12	1202	2	Exec Manager Engineering Services	2120211	RM205	O'Connor Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$851.93
12	1202	2	Exec Manager Engineering Services	2120211	RM206	Limbourne Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$639.56
12	1202	2	Exec Manager Engineering Services	2120212	RM207	Edwards Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	RM212	Yorrell Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$936.84
12	1202	2	Exec Manager Engineering Services	2120211	RM213	Gamenya Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,661.62
12	1202	2	Exec Manager Engineering Services	2120211	RM214	Warne Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,589.13
12	1202	2	Exec Manager Engineering Services	2120211	RM215	Burracoppin Siding Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	RM217	Davies Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120212	RM218	Oats Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,867.60
12	1202	2	Exec Manager Engineering Services	2120211	RM220	Acacia Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM221	Cowan Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,181.25
12	1202	2	Exec Manager Engineering Services	2120211	RM222	Dolton Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$161.70
12	1202	2	Exec Manager Engineering Services	2120211	RM223	Cummings Crescent - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$975.84
12	1202	2	Exec Manager Engineering Services	2120211	RM224	Lewis Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM226	Mckenzie Crescent - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$814.96
12	1202	2	Exec Manager Engineering Services	2120211	RM227	Hearles Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120212	RM229	Hawker Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,835.69
12	1202	2	Exec Manager Engineering Services	2120213	RM232	Smith Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,290.99
12	1202	2	Exec Manager Engineering Services	2120211	RM233	Easton Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM235	Davies Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM240	Second Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,561.53
12	1202	2	Exec Manager Engineering Services	2120211	RM244	East Barrack St - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,589.36
12	1202	2	Exec Manager Engineering Services	2120211	RM245	Todd St - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,657.62
12	1202	2	Exec Manager Engineering Services	2120211	RM250	Whitfield Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$353.35
12	1202	2	Exec Manager Engineering Services	2120211	RM251	Cohn St Service Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM253	Carrington Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$229.74
12	1202	2	Exec Manager Engineering Services	2120212	RM261	Service Road - Duff Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	RM265	Lewis Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$929.93
12	1202	2	Exec Manager Engineering Services	2120211	RM266	Mckenzie Crescent - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120210	RM274	Service Road - Haig Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$432.31
12	1202	2	Exec Manager Engineering Services	2120211	RM275	Gerbert Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM276	Caridi Close - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$391.27
12	1202	2	Exec Manager Engineering Services	2120211	RM277	South Avenue - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$6,523.81
12	1202	2	Exec Manager Engineering Services	2120211	RM278	Chegwidden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,518.02
12	1202	2	Exec Manager Engineering Services	2120211	RM279	Railway Parade - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,804.58
12	1202	2	Exec Manager Engineering Services	2120211	RM290	Doyle Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120211	RM291	Coghill Street - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120211	RM292	Byrne Lane - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$473.77
12	1202	2	Exec Manager Engineering Services	2120211	RM293	Maiolo Way - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120212		ROADM - Road Maintenance - Sealed Outside BUA						
12	1202	2	Exec Manager Engineering Services	2120212	RM000	Roadm - Rd Maint - Sealed Outside (Budget Only)	\$175,500.00	\$0.00	\$175,500.00	0.00	\$175,500.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120212	RM001	Chandler Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$25,866.45
12	1202	2	Exec Manager Engineering Services	2120212	RM002	Hines Hill Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,467.09
12	1202	2	Exec Manager Engineering Services	2120212	RM003	Bullshead Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$6,709.79
12	1202	2	Exec Manager Engineering Services	2120212	RM004	Brissenden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$16,618.97
12	1202	2	Exec Manager Engineering Services	2120212	RM005	Burracoppin-Campion Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$16,977.64
12	1202	2	Exec Manager Engineering Services	2120212	RM006	Nangeenan North Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,885.52
12	1202	2	Exec Manager Engineering Services	2120212	RM008	Knungajin-Merredin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,857.82
12	1202	2	Exec Manager Engineering Services	2120212	RM009	Hines Hill North Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,109.37
12	1202	2	Exec Manager Engineering Services	2120212	RM010	Korbel West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120212	RM011	Totadgin Hall Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,655.71
12	1202	2	Exec Manager Engineering Services	2120212	RM054	Connell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,698.56
12	1202	2	Exec Manager Engineering Services	2120212	RM072	Crooks Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,979.69

12	1202	2	Exec Manager Engineering Services	2120212	RM128	Giles Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,698.61
12	1202	2	Exec Manager Engineering Services	2120212	RM129	Rutter Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,533.72
12	1202	2	Exec Manager Engineering Services	2120212	RM130	Giraud Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,698.56
12	1202	2	Exec Manager Engineering Services	2120212	RM131	Thiel Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,698.60
12	1202	2	Exec Manager Engineering Services	2120212	RM134	Hughes Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120212	RM238	Doodlakine-Bruce Rock Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$147.79
12	1202	2	Exec Manager Engineering Services	2120212	RM239	Merredin-Naremben Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$33,482.21
12	1202	2	Exec Manager Engineering Services	2120213		ROADM - Road Maintenance - Gravel Outside BUA						
12	1202	2	Exec Manager Engineering Services	2120213	RM007	Korbrelkulling Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$9,539.36
12	1202	2	Exec Manager Engineering Services	2120213	RM013	Nukarni East Road- Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$8,234.63
12	1202	2	Exec Manager Engineering Services	2120213	RM015	Burracoppin South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$29,209.67
12	1202	2	Exec Manager Engineering Services	2120213	RM016	Baandee South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$7,719.85
12	1202	2	Exec Manager Engineering Services	2120213	RM023	Pitt Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,114.81
12	1202	2	Exec Manager Engineering Services	2120213	RM026	Endersbee Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,102.84
12	1202	2	Exec Manager Engineering Services	2120213	RM031	Southcott Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,533.73
12	1202	2	Exec Manager Engineering Services	2120213	RM037	Goomarin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,939.34
12	1202	2	Exec Manager Engineering Services	2120213	RM042	Dunlop Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,497.77
12	1202	2	Exec Manager Engineering Services	2120213	RM045	Bicks Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,978.58
12	1202	2	Exec Manager Engineering Services	2120213	RM047	Barr Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,113.74
12	1202	2	Exec Manager Engineering Services	2120213	RM068	Collgar West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$737.20
12	1202	2	Exec Manager Engineering Services	2120213	RM069	Armstrong Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120213	RM090	Goldfields Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$15,244.55
12	1202	2	Exec Manager Engineering Services	2120213	RM092	Dunwell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$909.09
12	1202	2	Exec Manager Engineering Services	2120213	RM095	Coulahan Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,101.60
12	1202	2	Exec Manager Engineering Services	2120213	RM098	Liebeck Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.81
12	1202	2	Exec Manager Engineering Services	2120213	RM124	Hicks Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,360.51
12	1202	2	Exec Manager Engineering Services	2120213	RM208	Spur Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,382.20
12	1202	2	Exec Manager Engineering Services	2120213	RM246	Ellery Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,722.61
12	1202	2	Exec Manager Engineering Services	2120213	RM901	Roadm - Rd Maint - Gravel Outside (Budget Only)	\$205,000.00	\$0.00	\$205,000.00	0.00	\$205,000.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214		ROADM - Road Maintenance - Formed Outside BUA	\$450,000.00	-\$35,000.00	\$415,000.00	0.00	\$415,000.00	\$237,060.09
12	1202	2	Exec Manager Engineering Services	2120214	RM019	Neening Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM020	Pustkuchen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$27,985.81
12	1202	2	Exec Manager Engineering Services	2120214	RM021	Hines Hill-Korbel Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,920.51
12	1202	2	Exec Manager Engineering Services	2120214	RM022	Neening Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$12,045.32
12	1202	2	Exec Manager Engineering Services	2120214	RM025	Goodier Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,088.67
12	1202	2	Exec Manager Engineering Services	2120214	RM027	Spring Well Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$15,393.75
12	1202	2	Exec Manager Engineering Services	2120214	RM030	Pustkuchen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,101.58
12	1202	2	Exec Manager Engineering Services	2120214	RM032	Downsborough Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$10,782.43
12	1202	2	Exec Manager Engineering Services	2120214	RM033	Booran South Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$8,770.73
12	1202	2	Exec Manager Engineering Services	2120214	RM035	Hubeck Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$6,106.87
12	1202	2	Exec Manager Engineering Services	2120214	RM036	Korbel East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,533.72
12	1202	2	Exec Manager Engineering Services	2120214	RM038	Hardman Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,700.23
12	1202	2	Exec Manager Engineering Services	2120214	RM040	Tandegin East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,652.42
12	1202	2	Exec Manager Engineering Services	2120214	RM046	Currie Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,557.80
12	1202	2	Exec Manager Engineering Services	2120214	RM048	Burracoppin North West Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,783.52
12	1202	2	Exec Manager Engineering Services	2120214	RM050	Last Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,294.30
12	1202	2	Exec Manager Engineering Services	2120214	RM053	Osborne Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$519.63
12	1202	2	Exec Manager Engineering Services	2120214	RM058	Growden Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$2,926.29
12	1202	2	Exec Manager Engineering Services	2120214	RM060	Briant Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$10,573.78
12	1202	2	Exec Manager Engineering Services	2120214	RM062	Talgomine Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,101.58
12	1202	2	Exec Manager Engineering Services	2120214	RM064	Mcgellin Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$317.55
12	1202	2	Exec Manager Engineering Services	2120214	RM066	Crees Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,101.62
12	1202	2	Exec Manager Engineering Services	2120214	RM073	Fourtenn Mile Gate Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$6,246.49

12	1202	2	Exec Manager Engineering Services	2120214	RM075	Arnold Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,101.60
12	1202	2	Exec Manager Engineering Services	2120214	RM077	Peel Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,533.70
12	1202	2	Exec Manager Engineering Services	2120214	RM078	Feineler Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM081	Burke Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,799.64
12	1202	2	Exec Manager Engineering Services	2120214	RM082	Woodward Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,514.75
12	1202	2	Exec Manager Engineering Services	2120214	RM084	Booran North Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.80
12	1202	2	Exec Manager Engineering Services	2120214	RM085	Barnes Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,101.60
12	1202	2	Exec Manager Engineering Services	2120214	RM086	Cahill Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$3,067.45
12	1202	2	Exec Manager Engineering Services	2120214	RM087	Fitzpatrick Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM088	Snell Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,348.73
12	1202	2	Exec Manager Engineering Services	2120214	RM091	Bassula Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.81
12	1202	2	Exec Manager Engineering Services	2120214	RM094	Hines Hill Siding Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM096	Ulva Siding Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,533.70
12	1202	2	Exec Manager Engineering Services	2120214	RM099	Legge Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.77
12	1202	2	Exec Manager Engineering Services	2120214	RM100	Day Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.77
12	1202	2	Exec Manager Engineering Services	2120214	RM103	Dobson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$224.23
12	1202	2	Exec Manager Engineering Services	2120214	RM105	Fisher East Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM115	Tuppen Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM116	Koonadgin Sourth Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,550.81
12	1202	2	Exec Manager Engineering Services	2120214	RM211	Clement Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM236	Newport Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$1,454.47
12	1202	2	Exec Manager Engineering Services	2120214	RM243	Adamson Road - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120214	RM252	Goldfields Rd - West - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$4,997.64
12	1202	2	Exec Manager Engineering Services	2120214	RM258	Unknown Rd - Road Maintenance	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$5,474.17
12	1202	2	Exec Manager Engineering Services	2120232		ROADM - Crossover Council Contribution	\$0.00	\$0.00	\$0.00	1,700.00	\$1,700.00	\$0.00
12	1202	2	Exec Manager Engineering Services	2120234		ROADM - Street Lighting	\$191,400.00	\$0.00	\$191,400.00	0.00	\$191,400.00	\$120,372.24
12	1202	2	Exec Manager Engineering Services	2120235		ROADM - Traffic Signs/Equipment (Safety)	\$40,000.00	\$0.00	\$40,000.00	0.00	\$40,000.00	\$1,462.37
12	1202	2	Exec Manager Engineering Services	2120265		ROADM - Drainage Maintenance Built Up Areas						
12	1202	2	Exec Manager Engineering Services	2120265	DM000	Roadm - Drainage Maint Built Up Areas (Budget Only)	\$50,000.00	\$0.00	\$50,000.00	0.00	\$50,000.00	\$11,971.00
12	1202	2	Exec Manager Engineering Services	2120266		ROADM - Drainage Maintenance Outside Built Up Areas	\$0.00	\$0.00	\$0.00	1,500.00	\$1,500.00	\$1,445.00
12	1202	2	Exec Manager Engineering Services	2120286		ROADM - Workshop/Depot Expensed Equipment	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$270.65
12	1202	2	Exec Manager Engineering Services	2120287		ROADM - Other Expenses	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$188.94
12	1202	2	Exec Manager Engineering Services	2120288		ROADM - Depot Building Operations	\$11,700.00	\$0.00	\$11,700.00	0.00	\$11,700.00	\$3,755.29
12	1202	2	Exec Manager Engineering Services	2120289		ROADM - Depot Building Maintenance	\$31,500.00	\$0.00	\$31,500.00	10,000.00	\$41,500.00	\$29,610.73
12	1202	2	Exec Manager Corporate Services	2120292		ROADM - Depreciation	\$3,649,100.00	\$0.00	\$3,649,100.00	0.00	\$3,649,100.00	\$1,968,691.28
Operating Expenditure Total							\$5,166,200.00	-\$35,000.00	\$5,131,200.00	39,400.00	\$5,170,600.00	\$2,977,693.43
12	1202	3	Exec Manager Engineering Services	3120200		ROADM - Street Lighting Subsidy	-\$20,900.00	\$0.00	-\$20,900.00	0.00	-\$20,900.00	\$0.00
12	1202	3	Exec Manager Engineering Services	3120201		ROADM - Road Contribution Income	-\$285,900.00	\$0.00	-\$285,900.00	-134,100.00	-\$420,000.00	-\$299,745.77
12	1202	3	Exec Manager Engineering Services	3120210		ROADM - Direct Road Grant (MRWA)	-\$251,200.00	-\$5,200.00	-\$256,400.00	0.00	-\$256,400.00	-\$256,337.00
Operating Income Total							-\$558,000.00	-\$5,200.00	-\$563,200.00	-134,100.00	-\$697,300.00	-\$556,082.77
Maintenance - Streets, Roads, Bridges & Depots Total							\$4,608,200.00	-\$40,200.00	\$4,568,000.00	-94,700.00	\$4,473,300.00	\$2,421,610.66
12	1203	2	Exec Manager Corporate Services	2120391		PLANT - Loss on Disposal of Assets	\$11,700.00	\$0.00	\$11,700.00	0.00	\$11,700.00	\$0.00
Operating Expenditure Total							\$11,700.00	\$0.00	\$11,700.00	0.00	\$11,700.00	\$0.00
12	1203	3	Exec Manager Corporate Services	3120390		PLANT - Profit on Disposal of Assets	-\$113,800.00	\$0.00	-\$113,800.00	29,300.00	-\$84,500.00	\$0.00
12	1203	3	Exec Manager Corporate Services	5120350		PLANT - Proceeds on Disposal of Assets	-\$205,900.00	\$0.00	-\$205,900.00	59,900.00	-\$146,000.00	\$0.00
12	1203	3	Exec Manager Corporate Services	5120351		PLANT - Realisation on Disposal of Assets	\$205,900.00	\$0.00	\$205,900.00	-59,900.00	\$146,000.00	\$0.00
Operating Income Total							-\$113,800.00	\$0.00	-\$113,800.00	29,300.00	-\$84,500.00	\$0.00
12	1203	4	Exec Manager Engineering Services	4120330		PLANT - Plant & Equipment (Capital)	\$629,900.00	\$74,000.00	\$703,900.00	-103,900.00	\$600,000.00	\$321,939.03
Capital Expenditure Total							\$629,900.00	\$74,000.00	\$703,900.00	-103,900.00	\$600,000.00	\$321,939.03
Road Plant Purchases Total							\$527,800.00	\$74,000.00	\$601,800.00	-74,600.00	\$527,200.00	\$321,939.03
12	1205	2	Exec Manager Corporate Services	2120500		LICENSING - Employee Costs	\$79,100.00	\$0.00	\$79,100.00	0.00	\$79,100.00	\$51,679.52
12	1205	2	Exec Manager Corporate Services	2120599		LICENSING - Administration Allocated	\$25,900.00	\$0.00	\$25,900.00	600.00	\$26,500.00	\$15,619.32
Operating Expenditure Total							\$105,000.00	\$0.00	\$105,000.00	600.00	\$105,600.00	\$67,298.84
12	1205	3	Exec Manager Corporate Services	3120502		LICENSING - Transport Licensing Commission	-\$76,000.00	\$0.00	-\$76,000.00	0.00	-\$76,000.00	-\$51,548.21

Operating Income Total					-\$76,000.00	\$0.00	-\$76,000.00	0.00	-\$76,000.00	-\$51,548.21	
Traffic Control (Vehicle Licensing) Total					\$29,000.00	\$0.00	\$29,000.00	600.00	\$29,600.00	\$15,750.63	
12	1207	2	Exec Manager Engineering Services	2120752	WATER - Consultants	\$120,000.00	\$0.00	\$120,000.00	0.00	\$120,000.00	\$0.00
12	1207	2	Exec Manager Engineering Services	2120800	WATER - Projects	\$9,000.00	\$0.00	\$9,000.00	0.00	\$9,000.00	\$1,589.20
Operating Expenditure Total					\$120,000.00	\$0.00	\$129,000.00	0.00	\$129,000.00	\$0.00	
12	1207	3	Exec Manager Corporate Services	3120750	WATER - Community Water Supply Program - Grant 1	-\$89,100.00	\$0.00	-\$89,100.00	0.00	-\$89,100.00	-\$19,804.00
12	1207	3	Exec Manager Corporate Services	3120751	WATER - Community Water Supply Program - Grant 2.	-\$100,000.00	\$0.00	-\$100,000.00	0.00	-\$100,000.00	-\$10,000.00
Operating Income Total					-\$189,100.00	\$0.00	-\$189,100.00	0.00	-\$189,100.00	-\$29,804.00	
12	1207	4	Exec Manager Engineering Services	4120790	WC002 Watersmart Farms - Desalination Project	\$100,000.00	\$0.00	\$100,000.00	0.00	\$100,000.00	\$63,578.89
12	1207	4	Exec Manager Engineering Services	4120790	WC003 MRWN Upgrade	\$180,000.00	\$0.00	\$180,000.00	0.00	\$180,000.00	\$34,239.50
Capital Expenditure Total					\$100,000.00	\$0.00	\$280,000.00	0.00	\$100,000.00	\$63,578.89	
Water Transport Facilities Total					\$39,900.00	\$0.00	\$39,900.00	0.00	\$39,900.00	\$35,364.09	
Transport Total					\$5,944,400.00	-\$124,000.00	\$6,120,400.00	-251,400.00	\$5,569,000.00	\$2,527,716.24	
FUNCTION 13											
13	1302	2	Exec Manager Corporate Services	2130200	TOURISM - Employee Costs	\$218,000.00	\$0.00	\$218,000.00	30,000.00	\$248,000.00	\$175,317.33
13	1302	2	Exec Manager Strategy & Commu.	2130240	TOURISM - Public Relations & Area Promotion						
13	1302	2	Exec Manager Strategy & Commu.	2130240	W0179 Merredin Marketing	\$1,200.00	\$0.00	\$1,200.00	0.00	\$1,200.00	\$54.17
13	1302	2	Exec Manager Strategy & Commu.	2130240	W0180 Photograph Inventory	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130240	W0182 Strategic Marketing	\$8,000.00	\$0.00	\$8,000.00	0.00	\$8,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130240	W0183 Website Design	\$14,500.00	\$0.00	\$14,500.00	0.00	\$14,500.00	\$11,880.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	TOURISM - Other Expenses				0.00		
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0188 Phone, Postage & Freight	\$1,400.00	\$0.00	\$1,400.00	0.00	\$1,400.00	\$761.51
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0189 Office Expenses	\$3,200.00	\$0.00	\$3,200.00	0.00	\$3,200.00	\$1,364.60
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0190 It Expenses	\$3,000.00	\$0.00	\$3,000.00	0.00	\$3,000.00	\$725.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0191 Membership/Associations	\$2,500.00	\$0.00	\$2,500.00	0.00	\$2,500.00	\$1,863.82
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0192 Minor Furniture & Equipment	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0193 Insurance	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0195 Merchandise & Consignment	\$17,000.00	\$0.00	\$17,000.00	0.00	\$17,000.00	\$10,333.66
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0199 Transwa	\$30,500.00	\$0.00	\$30,500.00	0.00	\$30,500.00	\$18,057.33
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0209 Regional Marketing Initiatives & Advertising	\$3,500.00	\$0.00	\$3,500.00	0.00	\$3,500.00	\$2,605.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0210 Trade Shows	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0211 Pioneer Pathways	\$4,500.00	\$0.00	\$4,500.00	0.00	\$4,500.00	\$3,500.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0212 Eastern Wheatbelt Holiday Planner	\$35,000.00	\$0.00	\$35,000.00	0.00	\$35,000.00	\$2,137.50
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0213 Central Wheatbelt Map	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0214 Training Opportunities	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0216 Merredin Brochure	\$7,000.00	\$0.00	\$7,000.00	0.00	\$7,000.00	\$4,885.91
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0219 Signage & Marketing Equipment	\$3,500.00	\$0.00	\$3,500.00	0.00	\$3,500.00	\$624.00
13	1302	2	Exec Manager Strategy & Commu.	2130287	W0220 Hire Bike Mtce	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
13	1302	2	Exec Manager Corporate Services	2130288	TOURISM - Building Operations						
13	1302	2	Exec Manager Corporate Services	2130288	BO003 Visitors Centre - Building Operations	\$18,600.00	\$0.00	\$18,600.00	0.00	\$18,600.00	\$9,515.40
13	1302	2	Exec Manager Development Services	2130289	TOURISM - Building Maintenance						
13	1302	2	Exec Manager Development Services	2130289	BM003 Visitors Centre - Building Maintenance	\$3,600.00	\$1,000.00	\$4,600.00	0.00	\$4,600.00	\$2,151.05
13	1302	2	Exec Manager Corporate Services	2130290	TOUR - Visitors Centre Lease	\$0.00	\$0.00	\$10,000.00	-9,900.00	\$100.00	\$0.00
13	1302	2	Exec Manager Engineering Services	NEW	TOUR - Visitors Centre Relocation	\$0.00	\$0.00	\$0.00	5,000.00	\$5,000.00	\$0.00
13	1302	2	Exec Manager Strategy & Commu.	2130292	TOURISM - Depreciation	\$17,900.00	\$0.00	\$17,900.00	0.00	\$17,900.00	\$11,919.23
13	1302	2	Exec Manager Strategy & Commu.	2130299	TOURISM - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total					\$503,600.00	\$1,000.00	\$514,600.00	27,500.00	\$542,100.00	\$320,172.82	
13	1302	3	Exec Manager Strategy & Commu.	3130201	TOURISM - Reimbursements	-\$35,800.00	\$0.00	-\$35,800.00	3,300.00	-\$32,500.00	-\$21,766.74
13	1302	3	Exec Manager Strategy & Commu.	3130235	TOURISM - Other Income Relating to Tourism & Area Promotion				0.00		
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0250 Eastern Wheatbelt Holiday Planner	-\$35,000.00	\$0.00	-\$35,000.00	0.00	-\$35,000.00	\$0.00
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0251 Central Wheatbelt Map	-\$4,000.00	\$0.00	-\$4,000.00	0.00	-\$4,000.00	\$0.00
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0252 Merredin Brochures	-\$4,000.00	-\$2,220.00	-\$6,220.00	0.00	-\$6,220.00	-\$6,220.95
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0258 Regional Brochure Postage	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0270 Cwvc Annual Memberships	-\$16,900.00	\$0.00	-\$16,900.00	0.00	-\$16,900.00	-\$14,470.00


13	1302	3	Exec Manager Strategy & Commu.	3130235	W0271	Consignment Merchandise	-\$12,000.00	\$0.00	-\$12,000.00	3,000.00	-\$9,000.00	-\$7,969.92
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0273	Merchandise Income	-\$9,000.00	\$0.00	-\$9,000.00	0.00	-\$9,000.00	-\$8,291.82
13	1302	3	Exec Manager Strategy & Commu.	3130235	W0274	All Other Vc Income	-\$800.00	\$0.00	-\$800.00	-100.00	-\$900.00	-\$934.00
13	1302	3	Exec Manager Strategy & Commu.	3130835		OTHER ECON - Other Income		\$0.00	\$0.00	0.00	\$0.00	
13	1302	3	Exec Manager Strategy & Commu.	3130835	CDI034	Events Trailer Hire	-\$400.00	\$0.00	-\$400.00	0.00	-\$400.00	-\$163.65
Operating Income Total							-\$117,900.00	-\$2,220.00	-\$120,120.00	6,200.00	-\$113,920.00	-\$59,817.08
Tourism And Area Promotion Total							\$385,700.00	-\$1,220.00	\$394,480.00	33,700.00	\$428,180.00	\$260,355.74
13	1303	2	Exec Manager Corporate Services	2130300		BUILD - Employee Costs	\$179,300.00	\$0.00	\$179,300.00	0.00	\$179,300.00	\$104,183.81
13	1303	2	Exec Manager Development Services	2130309		BUILD - Travel & Accommodation	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$0.00
13	1303	2	Exec Manager Development Services	2130310		BUILD - Motor Vehicle Expenses	\$7,000.00	\$0.00	\$7,000.00	0.00	\$7,000.00	\$1,944.42
13	1303	2	Exec Manager Development Services	2130350		BUILD - Contract Building Services	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$5,950.00
13	1303	2	Exec Manager Development Services	2130385		BUILD - Legal Expenses	\$0.00	\$4,000.00	\$4,000.00		\$4,000.00	\$0.00
13	1303	2	Exec Manager Development Services	2130387		BUILD - Other Expenses	\$2,500.00	\$0.00	\$2,500.00	600.00	\$3,100.00	\$2,798.35
13	1303	2	Exec Manager Corporate Services	2130392		BUILD - Depreciation	\$22,100.00	\$0.00	\$22,100.00	0.00	\$22,100.00	\$14,653.32
13	1303	2	Exec Manager Corporate Services	2130399		BUILD - Administration Allocated	\$77,800.00	\$0.00	\$77,800.00	1,800.00	\$79,600.00	\$46,857.99
Operating Expenditure Total							\$299,700.00	\$4,000.00	\$303,700.00	2,400.00	\$306,100.00	\$176,387.89
13	1303	3	Exec Manager Development Services	3130302		BUILD - Commissions - BSL & CTF	-\$500.00	\$400.00	-\$100.00	-100.00	-\$200.00	-\$149.62
13	1303	3	Exec Manager Development Services	3130320		BUILD - Fees & Charges (Licences)	-\$7,500.00	\$0.00	-\$7,500.00	-6,400.00	-\$13,900.00	-\$13,920.60
13	1303	3	Exec Manager Development Services	3130335		BUILD - Other Income	-\$500.00	\$0.00	-\$500.00	0.00	-\$500.00	\$0.00
Operating Income Total							-\$8,500.00	\$400.00	-\$8,100.00	-6,500.00	-\$14,600.00	-\$14,070.22
Building Control Total							\$291,200.00	\$4,400.00	\$295,600.00	-4,100.00	\$291,500.00	\$162,317.67
13	1308	2	Exec Manager Corporate Services	2130800		OTH ECON - Employee Costs	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
13	1308	2	Exec Manager Engineering Services	2130810		OTH ECON - Motor Vehicle Expenses	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$0.00
13	1308	2	Exec Manager Development Services	2130820		OTH ECON - Communication Expenses	\$500.00	\$0.00	\$500.00	0.00	\$500.00	\$276.24
13	1308	2	Exec Manager Engineering Services	2130865		OTH ECON - Standpipe Maintenance/Operations						
13	1308	2	Exec Manager Engineering Services	2130865	W0262	Stand Pipes	\$50,400.00	\$0.00	\$50,400.00	0.00	\$50,400.00	\$20,868.44
13	1308	2	Exec Manager Strategy & Commu.	2130887		OTH ECON - Other Expenditure						
13	1308	2	Exec Manager Strategy & Commu.	2130887	CD001	Community Development Events	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
13	1308	2	Exec Manager Corporate Services	2130899		OTH ECON - Administration Allocated	\$103,700.00	\$0.00	\$103,700.00	2,400.00	\$106,100.00	\$62,477.31
Operating Expenditure Total							\$156,600.00	\$0.00	\$156,600.00	2,400.00	\$159,000.00	\$83,621.99
13	1308	3	Exec Manager Engineering Services	3130821		OTH ECON - Standpipe Income	-\$8,500.00	\$0.00	-\$8,500.00	6,500.00	-\$2,000.00	-\$1,045.85
Operating Income Total							-\$8,500.00	\$0.00	-\$8,500.00	6,500.00	-\$2,000.00	-\$1,045.85
13	1308	4	Exec Manager Corporate Services	4130890		OTH ECON - Infrastructure Other (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Capital Expenditure Total							\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Other Economic Services Total							\$148,100.00	\$0.00	\$148,100.00	8,900.00	\$157,000.00	\$82,576.14
Economic Services Total							\$825,000.00	\$3,180.00	\$838,180.00	38,500.00	\$876,680.00	\$505,249.55
FUNCTION 14												
14	1401	2	Exec Manager Engineering Services	2140187		PRIVATE - Other Expenses						
14	1401	2	Exec Manager Engineering Services	2140187	PW000	Private Works General (Budgeting Only)	\$13,200.00	\$0.00	\$13,200.00	0.00	\$13,200.00	\$4,735.71
Operating Expenditure Total							\$13,200.00	\$0.00	\$13,200.00	0.00	\$13,200.00	\$4,735.71
14	1401	3	Exec Manager Engineering Services	3140120		PRIVATE - Private Works Income	-\$13,200.00	\$0.00	-\$13,200.00	0.00	-\$13,200.00	-\$10,893.91
Operating Income Total							-\$13,200.00	\$0.00	-\$13,200.00	0.00	-\$13,200.00	-\$10,893.91
Private Works Total							\$0.00	\$0.00	\$0.00	0.00	\$0.00	-\$6,158.20
14	1402	2	Exec Manager Corporate Services	2140200		ADMIN - Employee Costs	\$1,672,100.00	\$45,000.00	\$1,717,100.00	0.00	\$1,717,100.00	\$971,363.84
14	1402	2	Exec Manager Corporate Services	2140203		ADMIN - Uniforms	\$8,000.00	\$0.00	\$8,000.00	0.00	\$8,000.00	\$2,764.28
14	1402	2	Exec Manager Corporate Services	2140204		ADMIN - Training & Development	\$65,000.00	\$0.00	\$65,000.00	0.00	\$65,000.00	\$29,074.71
14	1402	2	Exec Manager Corporate Services	2140206		ADMIN - Fringe Benefits Tax (FBT)	\$75,000.00	\$0.00	\$75,000.00	0.00	\$75,000.00	\$42,953.14
14	1402	2	Exec Manager Corporate Services	2140210		ADMIN - Motor Vehicle Expenses	\$38,000.00	\$0.00	\$38,000.00	0.00	\$38,000.00	\$26,275.93
14	1402	2	Exec Manager Corporate Services	2140215		ADMIN - Printing and Stationery	\$23,000.00	\$0.00	\$23,000.00	0.00	\$23,000.00	\$12,287.82
14	1402	2	Exec Manager Corporate Services	2140216		ADMIN - Postage and Freight	\$8,000.00	\$0.00	\$8,000.00	0.00	\$8,000.00	\$4,456.72
14	1402	2	Exec Manager Corporate Services	2140220		ADMIN - Communication Expenses	\$16,500.00	\$0.00	\$16,500.00	0.00	\$16,500.00	\$8,854.51
14	1402	2	Exec Manager Corporate Services	2140221		ADMIN - Information Technology						
14	1402	2	Exec Manager Corporate Services	2140221	W0060	Corporate Business System	\$65,000.00	\$0.00	\$65,000.00	12,000.00	\$77,000.00	\$53,547.48
14	1402	2	Exec Manager Corporate Services	2140221	W0061	3rd Party Mtce Agreements	\$70,000.00	\$10,000.00	\$80,000.00	0.00	\$80,000.00	\$60,195.00

14	1402	2	Exec Manager Corporate Services	2140221	W0062	Other Computer Software Expenses	\$90,100.00	\$0.00	\$90,100.00	-8,400.00	\$81,700.00	\$44,504.52
14	1402	2	Exec Manager Corporate Services	2140221	W0066	It Equipment	\$40,000.00	\$0.00	\$40,000.00	0.00	\$40,000.00	\$15,900.43
14	1402	2	Exec Manager Corporate Services	2140222		ADMIN - Security	\$1,000.00	\$0.00	\$1,000.00	0.00	\$1,000.00	\$225.00
14	1402	2	Exec Manager Corporate Services	2140223		ADMIN - Equipment and Furniture (Op)	\$10,000.00	\$0.00	\$10,000.00	0.00	\$10,000.00	\$0.00
14	1402	2	Exec Manager Corporate Services	2140225		ADMIN - WHS	\$10,000.00	\$2,500.00	\$12,500.00	0.00	\$12,500.00	\$939.46
14	1402	2	Exec Manager Corporate Services	2140226		ADMIN - Office Equipment Mtce	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$0.00
14	1402	2	Exec Manager Corporate Services	2140230		ADMIN - Insurance Expenses (Other than Bldg and W/Conn	\$93,000.00	\$0.00	\$93,000.00	-9,000.00	\$84,000.00	\$83,725.11
14	1402	2	Exec Manager Corporate Services	2140240		ADMIN - Advertising and Promotion	\$14,000.00	\$0.00	\$14,000.00	0.00	\$14,000.00	\$7,075.28
14	1402	2	Exec Manager Corporate Services	2140242		ADMIN - Long Service Leave	\$0.00	\$16,000.00	\$16,000.00	12,400.00	\$28,400.00	\$28,410.86
14	1402	2	Exec Manager Corporate Services	2140252		ADMIN - Consultants	\$33,000.00	\$25,000.00	\$58,000.00	10,000.00	\$68,000.00	\$24,332.00
14	1402	2	Exec Manager Development Services	2140265		ADMIN - Grounds Maintenance	\$15,300.00	\$0.00	\$15,300.00	0.00	\$15,300.00	\$10,150.42
14	1402	2	Exec Manager Corporate Services	2140282		ADMIN - Bad Debts Expense	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$166.50
14	1402	2	Exec Manager Corporate Services	2140284		ADMIN - Audit Fees	\$40,000.00	\$0.00	\$40,000.00	-10,000.00	\$30,000.00	\$29,340.00
14	1402	2	Exec Manager Corporate Services	2140285		ADMIN - Legal Expenses	\$15,000.00	\$0.00	\$15,000.00	20,000.00	\$35,000.00	\$25,115.73
14	1402	2	Exec Manager Corporate Services	2140286		ADMIN - Expensed Minor Asset Purchases	\$6,700.00	\$0.00	\$6,700.00	0.00	\$6,700.00	\$537.26
14	1402	2	Exec Manager Corporate Services	2140287		ADMIN - Other Expenses	\$30,000.00	\$0.00	\$30,000.00	0.00	\$30,000.00	\$19,697.15
14	1402	2	Exec Manager Corporate Services	2140288		ADMIN - Building Operations				1,800.00	\$1,800.00	
14	1402	2	Exec Manager Corporate Services	2140288	BO001	Administration Building - Building Operations	\$38,200.00	\$0.00	\$38,200.00		\$38,200.00	\$26,826.18
14	1402	2	Exec Manager Development Services	2140289		ADMIN - Building Maintenance						
14	1402	2	Exec Manager Development Services	2140289	BM001	Administration Building - Building Maintenance	\$12,000.00	\$0.00	\$12,000.00	2,000.00	\$14,000.00	\$9,913.64
14	1402	2	Exec Manager Corporate Services	2140292		ADMIN - Depreciation	\$104,400.00	\$0.00	\$104,400.00	-1,000.00	\$103,400.00	\$60,787.25
14	1402	2	Exec Manager Corporate Services	2140299		ADMIN - Administration Overheads Recovered	-\$2,593,100.00	-\$49,400.00	-\$2,642,500.00	-60,800.00	-\$2,703,300.00	-\$1,561,932.93
Operating Expenditure Total							\$7,200.00	\$49,100.00	\$56,300.00	-31,000.00	\$25,300.00	\$37,487.29
14	1402	3	Exec Manager Corporate Services	3140220		ADMIN - Fees & Charges	-\$8,500.00	\$7,000.00	-\$1,500.00	0.00	-\$1,500.00	\$0.00
14	1402	3	Exec Manager Corporate Services	3140230		ADMIN - LSL Recoup	\$0.00	-\$23,800.00	-\$23,800.00	0.00	-\$23,800.00	-\$23,794.65
Operating Income Total							-\$8,500.00	-\$16,800.00	-\$25,300.00	0.00	-\$25,300.00	-\$23,794.65
General Administration Overheads Total							-\$1,300.00	\$32,300.00	\$31,000.00	-31,000.00	\$0.00	\$13,692.64
14	1403	2	Exec Manager Corporate Services	2140300		PWO - Employee Costs	\$954,500.00	\$0.00	\$954,500.00	0.00	\$954,500.00	\$526,157.66
14	1403	2	Exec Manager Corporate Services	2140301		PWO - Unrecognised Staff Liabilities	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
14	1403	2	Exec Manager Corporate Services	2140304		PWO - Training & Development	\$40,000.00	\$0.00	\$40,000.00	37,000.00	\$77,000.00	\$66,737.30
14	1403	2	Exec Manager Engineering Services	2140305		PWO - Recruitment	\$1,200.00	\$800.00	\$2,000.00	0.00	\$2,000.00	\$1,546.60
14	1403	2	Exec Manager Engineering Services	2140306		PWO - Protective Clothing	\$0.00	\$1,000.00	\$1,000.00	0.00	\$1,000.00	\$0.00
14	1403	2	Exec Manager Engineering Services	2140310		PWO - Motor Vehicle Expenses	\$61,000.00	\$0.00	\$61,000.00	0.00	\$61,000.00	\$29,507.33
14	1403	2	Exec Manager Engineering Services	2140311		PWO - Consultancy	\$70,000.00	-\$30,000.00	\$40,000.00	0.00	\$40,000.00	\$24,467.40
14	1403	2	Exec Manager Engineering Services	2140315		PWO - Printing and Stationery	\$2,000.00	\$0.00	\$2,000.00	0.00	\$2,000.00	\$430.23
14	1403	2	Exec Manager Corporate Services	2140320		PWO - Communication Expenses	\$1,500.00	\$1,500.00	\$3,000.00	0.00	\$3,000.00	\$1,510.02
14	1403	2	Exec Manager Corporate Services	2140323		PWO - Sick Pay	\$44,000.00	\$0.00	\$44,000.00	0.00	\$44,000.00	\$18,717.57
14	1403	2	Exec Manager Corporate Services	2140324		PWO - Annual Leave	\$111,900.00	\$0.00	\$111,900.00	0.00	\$111,900.00	\$73,485.74
14	1403	2	Exec Manager Corporate Services	2140325		PWO - Public Holidays	\$50,000.00	\$0.00	\$50,000.00	-10,000.00	\$40,000.00	\$18,686.94
14	1403	2	Exec Manager Engineering Services	2140328		PWO - Supervision	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
14	1403	2	Exec Manager Engineering Services	2140330		PWO - WHS and Toolbox Meetings	\$28,000.00	\$5,000.00	\$33,000.00	3,000.00	\$36,000.00	\$28,012.67
14	1403	2	Exec Manager Engineering Services	2140341		PWO - Subscriptions & Memberships	\$15,000.00	\$5,000.00	\$20,000.00	0.00	\$20,000.00	\$13,732.50
14	1403	2	Exec Manager Engineering Services	2140365		PWO - Maintenance/Operations	\$4,300.00	\$0.00	\$4,300.00	0.00	\$4,300.00	\$40.82
14	1403	2	Exec Manager Engineering Services	2140386		PWO - Expensed Minor Asset Purchases	\$2,500.00	\$2,500.00	\$5,000.00	0.00	\$5,000.00	\$4,751.68
14	1403	2	Exec Manager Engineering Services	2140387		PWO - Other Expenses	\$8,500.00	\$0.00	\$8,500.00	0.00	\$8,500.00	\$4,547.04
14	1403	2	Exec Manager Corporate Services	2140392		PWO - Depreciation	\$0.00	\$0.00	\$0.00	9,400.00	\$9,400.00	\$0.00
14	1403	2	Exec Manager Corporate Services	2140393		PWO - LESS Allocated to Works (PWO's)	-\$1,799,000.00	\$0.00	-\$1,799,000.00	-26,200.00	-\$1,825,200.00	-\$1,009,219.42
14	1403	2	Exec Manager Corporate Services	2140399		PWO - Administration Allocated	\$415,000.00	\$0.00	\$415,000.00	0.00	\$415,000.00	\$249,909.36
Operating Expenditure Total							\$10,400.00	-\$14,200.00	-\$3,800.00	13,200.00	\$9,400.00	\$53,021.44
14	1403	3	Exec Manager Corporate Services	3140301		PWO - Other Reimbursements	-\$100.00	\$0.00	-\$100.00	0.00	-\$100.00	\$0.00
Operating Income Total							-\$100.00	\$0.00	-\$100.00	0.00	-\$100.00	\$0.00
Public Works Overheads Total							\$10,300.00	-\$14,200.00	-\$3,900.00	13,200.00	\$9,300.00	\$53,021.44
14	1404	2	Exec Manager Corporate Services	2140400		POC - Internal Plant Repairs - Wages & O/Head	\$106,800.00	\$0.00	\$106,800.00	-20,000.00	\$86,800.00	\$12,260.90
14	1404	2	Exec Manager Engineering Services	2140411		POC - External Parts & Repairs	\$283,200.00	\$0.00	\$283,200.00	15,000.00	\$298,200.00	\$130,890.88

14	1404	2	Exec Manager Engineering Services	2140412	POC - Fuels and Oils	\$200,000.00	\$0.00	\$200,000.00	0.00	\$200,000.00	\$143,317.55
14	1404	2	Exec Manager Engineering Services	2140413	POC - Tyres and Tubes	\$20,000.00	\$0.00	\$20,000.00	0.00	\$20,000.00	\$6,583.12
14	1404	2	Exec Manager Corporate Services	2140416	POC - Licences/Registrations	\$12,000.00	\$0.00	\$12,000.00	0.00	\$12,000.00	\$1,542.19
14	1404	2	Exec Manager Corporate Services	2140417	POC - Insurance Expenses	\$30,400.00	\$0.00	\$30,400.00	-1,700.00	\$28,700.00	\$28,742.13
14	1404	2	Exec Manager Engineering Services	2140418	POC - Expendable Tools / Consumables	\$5,000.00	\$0.00	\$5,000.00	0.00	\$5,000.00	\$3,554.12
14	1404	2	Exec Manager Corporate Services	2140492	POC - Depreciation	\$371,400.00	\$0.00	\$371,400.00	0.00	\$371,400.00	\$274,330.75
14	1404	2	Exec Manager Corporate Services	2140494	POC - LESS Plant Operation Costs Allocated to Works	-\$918,400.00	\$0.00	-\$918,400.00	0.00	-\$918,400.00	-\$527,797.04
Operating Expenditure Total						\$110,400.00	\$0.00	\$110,400.00	-6,700.00	\$103,700.00	\$73,424.60
14	1404	3	Exec Manager Corporate Services	3140410	POC - Fuel Tax Credits Grant Scheme	-\$23,500.00	\$0.00	-\$23,500.00	-2,500.00	-\$26,000.00	-\$18,744.35
Operating Income Total						-\$23,500.00	\$0.00	-\$23,500.00	-2,500.00	-\$26,000.00	-\$18,744.35
Plant Operating Costs Total						\$86,900.00	\$0.00	\$86,900.00	-9,200.00	\$77,700.00	\$54,680.25
14	1405	2	Exec Manager Corporate Services	2140500	SAL - Gross Salary and Wages	\$4,280,400.00	\$0.00	\$4,280,400.00	-3,810,400.00	\$470,000.00	\$0.00
14	1405	2	Exec Manager Corporate Services	2140501	SAL - LESS Salaries & Wages Allocated	-\$4,280,400.00	\$0.00	-\$4,280,400.00	3,810,400.00	-\$470,000.00	\$0.00
14	1405	2	Exec Manager Corporate Services	2140503	SAL - Workers Compensation Expense	\$6,000.00	\$0.00	\$6,000.00	34,000.00	\$40,000.00	\$41,068.25
14	1405	2	Exec Manager Corporate Services	2140505	SAL - Salary Sacrifice	\$27,000.00	\$0.00	\$27,000.00	0.00	\$27,000.00	\$16,864.36
14	1405	2	Exec Manager Corporate Services	2140506	SAL - Parental Leave Payment (Government)	\$0.00	\$0.00	\$0.00	30,000.00	\$30,000.00	\$24,893.55
Operating Expenditure Total						\$33,000.00	\$0.00	\$33,000.00	64,000.00	\$97,000.00	\$82,826.16
14	1405	3	Exec Manager Corporate Services	3140501	SAL - Reimbursement - Workers Compensation	-\$6,000.00	\$0.00	-\$6,000.00	-34,000.00	-\$40,000.00	-\$37,211.24
14	1405	3	Exec Manager Corporate Services	3140502	SAL - Reimbursement - Parental Leave	\$0.00	\$0.00	\$0.00	-30,000.00	-\$30,000.00	-\$30,013.50
14	1405	3	Exec Manager Corporate Services	3140503	SAL - Reimbursement - Salary Sacrifice	-\$27,000.00	\$0.00	-\$27,000.00	0.00	-\$27,000.00	-\$16,864.36
Operating Income Total						-\$33,000.00	\$0.00	-\$33,000.00	-64,000.00	-\$97,000.00	-\$84,089.10
Salaries And Wages Total						\$0.00	\$0.00	\$0.00	0.00	\$0.00	-\$1,262.94
14	1407	2	Exec Manager Corporate Services	2140760	UNCLASS - Unclassified Expenditure	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
14	1407	2	Exec Manager Corporate Services	2140760	W0238 Land And Building Operating Ceaca	\$0.00	\$0.00	\$0.00	10,000.00	\$10,000.00	\$0.00
14	1407	2	Exec Manager Corporate Services	2140761	UNCLASS - Insurance Expenditure	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Operating Expenditure Total						\$0.00	\$0.00	\$0.00	10,000.00	\$10,000.00	\$0.00
14	1407	3	Exec Manager Corporate Services	3140735	UNCLASS - Unclassified Income	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
14	1407	3	Exec Manager Corporate Services	3140736	UNCLASS - Insurance Income	\$0.00	\$0.00	\$0.00	-10,000.00	-\$10,000.00	-\$11,292.08
Operating Income Total						\$0.00	\$0.00	\$0.00	-10,000.00	-\$10,000.00	-\$11,292.08
14	1407	4	Exec Manager Corporate Services	4140710	UNCLASS - Buildings (Capital)	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
14	1407	4	Exec Manager Corporate Services	4140710	W0242 Purchase Of Land	\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
Capital Expenditure Total						\$0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00
14	1407	2	Exec Manager Corporate Services	3140960	STOCK - Profit on LHFR	\$0.00	-\$3,500.00	-\$3,500.00	0.00	-\$3,500.00	-\$3,444.79
Operating Income Total						\$0.00	\$0.00	\$0.00	0.00	-\$3,500.00	\$0.00
Unclassified Total						\$0.00	\$0.00	\$0.00	-10,000.00	-\$10,000.00	-\$22,584.16
Other Property & Services Total						\$87,400.00	-\$2,200.00	\$85,200.00	-37,000.00	\$48,200.00	\$64,149.59
Grand Total						\$9,551,597.00	-\$102,757.00	\$9,430,640.00	-757,750.00	\$8,438,490.00	\$88,054.73

15. Officer’s Reports – Administration

15.1 Status Report – March 2024

<h1>Administration</h1> 	
Responsible Officer:	CEO
Author:	Meg Wyatt, EA
Legislation:	<i>Local Government Act 1995</i>
File Reference:	Nil
Disclosure of Interest:	Nil
Attachments:	Attachment 15.1A – Status Report – March 2024

Purpose of Report



Executive Decision



Legislative Requirement

For Council to consider the updated Status Report for March 2024.

Background

The Status Report is a register of Council Resolutions that are allocated to the Shire of Merredin’s (the Shire) Executive Staff for actioning. When the Executive Staff have progressed or completed any action in relation to the Council Resolution, comments are provided until the process is completed or superseded by a further Council Resolution.

Comment

In the interest of increased transparency and communication with the community and Council, the Status Report is provided for information.

Policy Implications

Nil

Statutory Implications

Nil

Status Report as at March 2024

Date / CMRef / Officer	Subject	Status
21/11/2017 CMRef: 82079 EMCS	That application be made to the Minister for Local Government to have the land being Lot 71 Main Street, Burracoppin re-vested in the Crown in accordance with Sections 6.64 and 6.74 of the Local Government Act 1995.	<p>IN PROGRESS</p> <p>February 2023: EMCS has rung and emailed Minister Carey's office requesting information on the progress of the land re-vesting.</p> <p>July 2023: Minister Carey's office emailed to say that the query fell more appropriately within the portfolio responsibility of the Minister for Local Government and so had been forwarded on.</p> <p>September 2023: Minister Michael's office emailed outlining next steps required to be taken.</p> <p>March 2024: No further updates at this time</p>
20/08/2019 CMRef: 82410 EMDS	<p>That Council:</p> <p>1. Consents to the creation of a Water Corporation easement over portion of Lot 100 Colin Street (Part of Avon Location 2227) as shown in attachment 12.36A, for the purposes of installation, access to and maintenance of the proposed chlorination unit which will form part of the Shire of Merredin Recycled Water Scheme , subject to;a. All costs associated with the preparation and lodgement of relevant easement documentation being borne solely by the Water Corporation;b. All costs associated with the installation, operation and maintenance of the future chlorination unit being borne solely by the Water Corporation;. All costs associated with any improvements to the land subject to the easement relating to vehicular access to the chlorination unit being borne solely by the Water Corporation.2. Authorises the Shire President and Chief Executive Officer to affix the Common Seal of the Council and sign the Deed of Easement documentation on behalf of the Shire of Merredin Council.</p>	<p>IN PROGRESS</p> <p>Awaiting preparation of documentation by the Water Corporation for signing by the Shire President and CEO.</p> <p>The Shire has been advised the project is delayed and outside the 5-year construction window however Water Corp are continuing to conduct investigation works.</p> <p>February 2024: No further updates anticipated until end 2024.</p>
19/12/2019 CMRef: 82485	That Council commits to CEACA's progression of the VERSO report to review; I. Community Care Packages;	IN PROGRESS

CEO	<p>II. Transport; and III. Residential Aged Care And; That Council requests that CEACA committee requests that the VERSO plan be updated now that the units are in situ. Reason for Officers Recommendation: The reason for the change in wording of the Officer Recommendation is that council are not subjecting VERSO to update the report. Should the CEACA committee agree, any suitably qualified person/s could carry out the update of the report.</p>	<p>December 2022: Updates as per CEACA minutes circulated to Council.</p> <p>June 2023: Report not yet updated, however CEACA have proposed action on Item III Residential Aged Care. This is subject to a separate report in the June agenda.</p> <p>July 2023: CEACA have engaged a consultant to do a needs analysis and grant application.</p> <p>March 2024: No further updates at this time.</p>
21/07/2020 CMRef: 82578 EMES	<p>That, within the next twelve months, the Merredin Shire Council should purchase for the Shire fleet a battery-electric (BEV or EV) passenger vehicle. This vehicle should not be additional to the vehicle fleet but should replace one passenger vehicle sold after the usual retention period of 12 months.</p>	<p>IN-PROGRESS</p> <p>June 2023: Currently the Administration has been unable to identify a vehicle within the fleet to be replaced as an EV due to operational requirements. The Administration is working with Synergy and seeking other grant opportunities to have EV chargers in town in strategic locations, which once completed may make purchasing an EV a more viable option.</p> <p>July 2023: The Shire has applied for an EV charger grant to support day-time charging at the Shire Office, which will support the logistics, and potential future purchase of this vehicle.</p> <p>September 2023: Officers are including consideration for EV's in current procurement processes, and updates will be provided to Council as this progresses.</p>

		<p>October 2023: Quote received, and currently being analysed.</p> <p>March 2024: No further updates at this time.</p>
<p>15/09/2020 CMRef: 82605 EMCS</p>	<p>1. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$13,619.31: Assessment A6511 Type/Zoning Residential Period Outstanding 11/8/2014 to Current Amount Outstanding \$13,619.31 Last Payment 3/9/2015</p> <p>2. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$10,023.49: Assessment A6070 Type/Zoning General Farming/Urban Residential Period Outstanding 25/7/2016 to Current Amount Outstanding \$10,023.49 Last Payment 27/9/2015</p> <p>3. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$13,464.10: Assessment A9370 Type/Zoning Vacant Residential Period Outstanding 11/8/2014 to Current Amount Outstanding \$13,464.10 Last Payment 7/11/2013</p> <p>4. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$6,369.85: Assessment: A3325 Type/Zoning: Residential Period Outstanding: 27/7/2017 to Current Amount Outstanding: \$6,369.85 Last Payment: 13/4/2018</p>	<p>IN-PROGRESS</p> <p>April 2023: Land transfer documents completed and lodged for A9370 and A624. A445 settlement delayed further, expected late May early June.</p> <p>December 2023: Settlement has occurred for A445. A9370 & A624 are still in progress.</p> <p>January 2024: A9370 has been returned to the Shire.</p> <p>February 2024: An item relating to A9370 will be presented to Council at the February Ordinary Council Meeting.</p> <p>March 2024: A624 transfer delayed, but still progressing.</p>

	<p>5. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$11,008.81: Assessment: A1625 Type/Zoning: Vacant Residential Period Outstanding: 29/4/2015 to Current Amount Outstanding: \$11,008.81 Last Payment: 21/11/2014</p> <p>6. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$8,409.91: Assessment: A445 Type/Zoning: Residential Period Outstanding: 25/7/2016 to Current Amount Outstanding: \$8,409.91 Last Payment: 1/4/2019</p> <p>7. That, pursuant to Section 6.64(1)(b) of the Local Government Act 1995, Council proceed to sell the property listed hereunder which has rates in arrears for 3 or more years, and recover from the proceeds of sale the outstanding balance which totals \$17,957.31: Assessment A624 Type/Zoning Vacant Residential Period Outstanding 27/7/2011 to Current Amount Outstanding \$17,957.31 Last Payment 22/12/2017</p>	
<p>16/03/2021 CMRef: 82698 CEO</p>	<p>That Council instruct the Chief Executive Officer to;</p> <ol style="list-style-type: none"> 1. Obtain a valuation from a suitably qualified registered valuer for Lot 1498 Caridi Close, Merredin; 2. Engage local real estate agents to determine the availability and value of suitable executive housing within the Merredin townsite. 3. Report to Council preliminary estimates for the construction of a 4 bedroom, 2 bathroom executive home on an appropriate lot within the Merredin townsite; 4. Invite local real estate agents to submit quotations for the sale of six existing houses constructed earlier than the year 2000. The quotations are to include details of the agent's proposed marketing strategy to obtain maximum value. The addresses of the properties to remain confidential in the interim. (Note: this does not include the house currently utilised for housing "travelling players" which should be the subject of a separate report); 	<p>NOT COMMENCED</p> <p>Briefing provided to Council that all staff housing currently required and recommend this item is delayed, with further work completed in the 2022/23 year.</p> <p>July 2023: As housing is allocated to positions under recruitment / required – it is not recommended this item progress in the next six months due to</p>

	<p>5. Report further on the optimum number of houses that should be held in the portfolio including how many (if any) of the houses for sale should be replaced and the process for doing so; and</p> <p>6. Examine, as part of the asset management planning for the portfolio, the replacement program for the newer houses currently held and not included in the above recommendations.</p> <p>7. Review Policy 2.10 Council Staff Housing and report to Council.</p>	<p>operational constraints and business requirements for the existing stock.</p> <p>March 2024: No further updates at this time.</p>
<p>16/03/2021 CMRef: 82699 CEO</p>	<p>That Council;</p> <p>1. Notes the preparation and submission by Njaki Njaki Aboriginal Cultural Tours of the Hunts Dam Nature Based Campground Feasibility – Business Case – June 2019 demonstrating the potential viability of the proposal;</p> <p>2. Notes that the proposal represents strong alignment with the Strategic priorities and strategies for change of the Council set out in the newly adopted Strategic Community Plan;</p> <p>3. Confirms that the Business Case and Feasibility Study as submitted is satisfactory to meet the terms of the Council’s resolution 82038 of November 2017;</p> <p>4. Confirms that Council supports the relinquishment of the Management Order for Reserve 29700 to enable a performance based lease to be agreed between the State and Njaki Njaki Aboriginal Cultural Tours for the conduct of its tourism venture; and</p> <p>5. Proposes to the State Government that the lease include provisions for substantial progress on the implementation of the development within a five year period from execution of the lease.</p>	<p>IN PROGRESS</p> <p>Enquiries made with DPLH.</p> <p>July 2023: No updated information provided from DPLH</p> <p>March 2024: No further updates at this time.</p>
<p>28/06/2022 CMRef: 82951 EMS&C</p>	<p>That Council;</p> <p>1. ENDORSE the CEO or their delegate to enter into a partnership agreement with the Merredin Blue Light Unit for the provision of Blue Light events in Merredin.</p> <p>2. NOTES The partnership in (1) above, will be to waive the fees associated with the free use of Shire facilities and non-staff resources, when the Merredin Blue Light Unit are providing agreed youth programs in Merredin within their available resources and capacity.</p> <p>3. NOTES this partnership supports a maximum of 4 events per year or 5 events per year in the years where a large fundraising event is hosted; and</p> <p>4. AUTHORISES the CEO to determine the terms of the partnership in (1) above, including the length of the partnership, the Shire resources to be allocated, and how the Shire will be recognised through the partnership with the Merredin Blue Light Unit.</p>	<p>IN PROGRESS</p> <p>The Administration has sent the agreement to PCYC for signing.</p> <p>June 2023: The Administration has followed up with PCYC during April, and aims to have the agreement signed ASAP.</p> <p>March 2024: No further updates at this time.</p>

<p>26/07/2022 CMRef: 89268 EMCS</p>	<p>That Council;</p> <ol style="list-style-type: none"> 1. REQUEST that the Department of Communities purchase the Shire of Merredin's interest (both land and assets) in the Cummings Street Joint Venture project at current market value; and 2. ALLOCATE a total of \$2500 in the 2022-23 draft budget towards associated valuation and conveyance costs. 	<p>IN PROGRESS</p> <p>January 2024: Sale contracts were received at the end of December. EMCS has sent queries through to the Department regarding some terms and is awaiting response.</p> <p>February 2024: Communities responded on 14 February, and on 19 February 2024 EMCS and MCS met with representatives via Teams to discuss the agreement provided.</p> <p>March 2024: Required documentation to provide Communities along with signed contract is currently being developed.</p>
<p>28/02/2023 CMRef: 83101 EMES</p>	<p>That Council</p> <ol style="list-style-type: none"> 1. AUTHORISE the removal of one date palm located at Lot 1503 (45) Barrack Street, as identified within Attachment 13.1B – Location Map; and 2. NOTES photographic documentation of the date palm will occur prior to removal in line with the recommendation of the Shire of Merredin Municipal Heritage Inventory. 	<p>IN PROGRESS</p> <p>March 2023: The removal of the date palm will be completed in conjunction with the construction works for Merredin Town Centre.</p> <p>March 2024: No further updates at this time.</p>
<p>28/03/2023 CMRef: 83129 EMES/MP</p>	<p>That Council;</p> <ol style="list-style-type: none"> 1. APPROVE the Chief Executive Officer to accept variation requests VO01, VO03 and VO05 to contract RFT 01 2021/22 Detailed Design Services between the Shire of Merredin and Place Laboratory; 2. NOTE the acceptance of the above variation requests will increase the total contract value between the Shire of Merredin and Place Laboratory for RFT 01 2021/22 Detailed Design Services for Apex Park and Merredin Town Centre to the Proposed Amended Contract Value outlined within the report; 3. AUTHORISE the Chief Executive Officer, if necessary, to accept any further variations which do not result in the total contract value between the Shire of Merredin and Place Laboratory 	<p>IN PROGRESS</p> <p>April 2023: Variation request VO05 has been formalised and is awaiting formal acceptance.</p> <p>August 2023: Variation request VO05 was formally accepted in July 2023.</p> <p>September 2023:</p>

	<p>exceeding the Proposed Maximum Contract Value for RFT 01 2021/22 Detailed Design Services for Apex Park and Merredin Town Centre as outlined within this report; and</p> <p>4. NOTES that the maximum contract value outlined within Item 3, is within current budget provisions.</p>	<p>An additional minor variation request (VO06) associated with the installation of the Synergy EV Charging Station has been formally accepted.</p> <p>March 2024: No further updates at this time.</p>																				
<p>19/09/2023 CMRef: 83237 CEO</p>	<p>That Council;</p> <p>1. ADVISE the Department of Mines, Industry Regulation and Safety – Consumer Protection that the Shire of Merredin will not be varying its previously approved standard retail trading hours for the 2023/24 Christmas/New Year period; and</p> <p>2. NOTES the Shire of Merredin will consult with retailers in the current year to confirm current general trading hours remain suitable for the locality.</p>	<p>IN PROGRESS</p>																				
<p>19/09/2023 CMRef: 83238 CEO</p>	<p>That Council NOTE that the Council Bi-Annual Dinner Function, pursuant to Policy 1.13 will be held in the Tivoli Room at the Cummins Theatre on Tuesday, 28 November 2023.</p>	<p>COMPLETED</p>																				
<p>17/10/2023 CMRef: 83259 EMES</p>	<p>That Council;</p> <p>1. RECEIVES the Recommendation Report included as Attachment 16.1A – Confidential Recommendation Report RFQ 03 2023-24 Merredin – Narembeen Rd Culvert Extension SLK 9.18;</p> <p>2. Subject to funding confirmation from Wheatbelt Secondary Freight Network:</p> <p>a. APPROVES the recommendations as contained within Section 7 of the Confidential Report included as Attachment 16.1A – Confidential Recommendation Report RFQ 03 2023-24 Merredin – Narembeen Rd Culvert Extension SLK 9.18;</p> <p>b. ACCEPT the unbudgeted additional income of \$47,974, ex GST from Wheatbelt Secondary Freight Network;</p> <p>c. APPROVES the amendment to the 2023/24 Annual Budget as per the below table:</p> <table border="1"> <thead> <tr> <th>Account</th> <th>Description</th> <th>Current Budget</th> <th>Amendment</th> <th>Revised Budget</th> </tr> </thead> <tbody> <tr> <td>RC239</td> <td>Merredin-Narembeen Road (Capital)</td> <td>\$3,975,600</td> <td>+\$47,974</td> <td>\$4,023,574</td> </tr> <tr> <td>3120118</td> <td>ROADC – Wheatbelt Secondary Freight Network (WSFN)</td> <td>\$3,443,700</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>+\$47,974</td> <td>\$3,491,674</td> </tr> </tbody> </table> <p>d. AUTHORISE the Shire President and Chief Executive Officer to sign and apply the Shire of Merredin Common Seal to the Contract between the Shire of Merredin and Ringa Civil for RFQ 03 2023-24 Merredin – Narembeen Rd Culvert Extension SLK 9.18 up to a total value of \$281,500 ex GST; and</p> <p>e. AUTHORISES Item 2d above, SUBJECT TO confirmation from WSN of a new total project budget of \$300,000 consisting of \$280,000 WSN contribution and \$20,000 municipal contribution.</p>	Account	Description	Current Budget	Amendment	Revised Budget	RC239	Merredin-Narembeen Road (Capital)	\$3,975,600	+\$47,974	\$4,023,574	3120118	ROADC – Wheatbelt Secondary Freight Network (WSFN)	\$3,443,700						+\$47,974	\$3,491,674	<p>IN PROGRESS</p> <p>February 2024: Culvert extension works were completed as per project requirements.</p> <p>Final works, which include pavement strengthening and sealing, will be completed in the coming months.</p> <p>March 2024: No further updates at this time.</p>
Account	Description	Current Budget	Amendment	Revised Budget																		
RC239	Merredin-Narembeen Road (Capital)	\$3,975,600	+\$47,974	\$4,023,574																		
3120118	ROADC – Wheatbelt Secondary Freight Network (WSFN)	\$3,443,700																				
			+\$47,974	\$3,491,674																		
<p>11/12/2023</p>	<p>That Council:</p>	<p>IN PROGRESS</p>																				

<p>CMRef: 83291 EMDS</p>	<ol style="list-style-type: none"> 1. GIVES local public notice stating that the Shire of Merredin proposes to review its local laws under s3.16 of the Local Government Act 1995; 2. NOTES that a copy of the local laws may be inspected or obtained at the Shire of Merredin offices or from its website; 3. ADVISES that submissions about the local laws may be made to the Shire before a day to be specified in the notice, being a day that is not less than 6 weeks after the notice is given; and 4. NOTES that the results of the above advertising are to be presented to Council for consideration of any submissions received. 	<p>February 2024: Public Notice was advertised in the Phoenix.</p> <p>March 2024: No further updates at this time.</p>
<p>23/01/2024 CMRef: 83311 EMDS</p>	<p>That Council:</p> <ol style="list-style-type: none"> 1. GRANTS conditional development (planning) approval for works and use on Lot 503 Gabo Avenue, Merredin, incorporating: <ol style="list-style-type: none"> a. Installation of 3x Auger grids and Conveyor Loading Systems and necessary adjustments to existing pavements to suit drainage requirements and pavement tie-ins; b. Maintaining the position of northern drain (north of Open Bulk Heads) 09-14), requiring Open Bulk Heads to be shortened by 10.5m to accommodate new grids and by-pass; c. Shortening recent emergency storage Temporary Bulk Head 99 by 25m to accommodate altered traffic path for the Drive Over Grid in-loading trucks. Frame footings for affected frames to be re-done; d. Removal of recent emergency storage Temporary Bulk Head 98 and install access road for stacking to the grid (Open Bulk Head 09-10); e. Milling and asphalt sealing of Open Bulk Head 12-14 at existing levels; f. Upgrade to 1.8m frames to Open Bulk Head 12-14, including frame footings; g. Necessary drainage works to accommodate the stormwater runoff from the works, including open drains, culverts and drainage basins, as outlined in Attachment 12.1A, subject to; i. The development and implementation of a revised Storm Water Management Plan to the satisfaction of the Shire of Merredin; ii. The area forming part of the development approval shall not be used until such time as all recommendations in the revised Stormwater Management Plan have been implemented in full to the satisfaction of the Shire of Merredin. 2. AUTHORISES the Shire of Merredin Executive Manager Engineering Services to approve a revised Stormwater Management Plan that is considered to be satisfactory on behalf of Council; 3. ADVISES the applicant that if the development, the subject of this approval, is not substantially commenced within a period of 24 months from the date of the approval, the approval will lapse and be of no further effect. For the purposes of this condition, the term “substantially commenced” has the meaning given to it in the Planning and Development (Local Planning Schemes) Regulations 2015 as amended from time to time; and 	<p>IN PROGRESS</p> <p>February 2024: Conditional Development Approval has now been formally granted by the Shire of Merredin. Awaiting receipt of revised Stormwater Management Plan</p> <p>March 2024 Revised Stormwater Management Plan has now been received and is deemed to be suitable. Maintenance work on existing drainage channels is currently being implemented by CBH in accordance with the Revised Stormwater management Plan.</p>

	<p>4. ADVISES the applicant that if the applicant is aggrieved by this determination, there is a right of review by the State Administrative Tribunal in accordance with the Planning and Development Act 2005 Part 14. An application must be made within 28 days of the determination.</p>	
<p>23/01/2024 CMRef: 83312 EMDS</p>	<p>That Council:</p> <ol style="list-style-type: none"> 1. NOTES the receipt of the application for Development Approval for the proposed Battery Energy Storage System to be located on a portion of Lot 5 Robartson Road, Merredin; 2. ADVISES the Development Assessment Panel of the application for Development Approval by forwarding the lodged documentation; 3. ADVERTISES the application for Development Approval for a period of 21 days for public submissions, neighbours and agencies being advised of the advertising period. These agencies, amongst others, will include: <ol style="list-style-type: none"> a. Department of Fire and Emergency Services (DFES); b. Department of Water and Environmental Regulation (DWER); c. Environmental Protection Authority (EPA); d. Department of Biodiversity, Conservation and Attraction (DBCA); e. Western Power (WP); f. Civil Aviation Safety Authority (CASA); and 4. NOTES that all submissions received during the advertising period will be brought back to Council for its consideration prior to submitting its Responsible Authority Report to the Development Assessment Panel for its determination. <p>Footnotes</p> <ol style="list-style-type: none"> 1. The applicant is advised that Council will consider all submissions received during the advertising period, however it is likely to require at least the following conditions; <ul style="list-style-type: none"> • The submission and approval of a dedicated Construction Management Plan, including a transport impact assessment, details showing the proposed interim and longer-term facilities including building/structure setbacks, carparking facility, landscaping/ screening etc; • The submission and approval of a dedicated Drainage Management Plan; • The design and location of on-site effluent systems for the construction phase, as well as the longer term; • The removal of all construction infrastructure once the facility has been completed to the satisfaction of the local government; and • The approval of any crossovers required by the development; 2. The applicant is advised that granting of development approval does not constitute a building permit and that an application for relevant building permits must be submitted to the local government and be approved before any work requiring a building permit can commence on site; 3. The applicant is advised that effluent disposal facilities will require an application for the installation or construction of an apparatus for the treatment of sewage to be submitted to 	<p>IN PROGRESS</p> <p>February 2024: Development Application being advertised in the Saturdays West and will be brought back to Council following conclusion of the 21 day public submission period.</p> <p>March 2024: Submission period has been extended to 11 March 2024 at request from DFES. Responsible Authority Report will be brought back to Council for its consideration at the March meeting of Council.</p>

	<p>the local government, and be approved, before any work can commence on the installation of an onsite effluent disposal system; and</p> <p>4. The applicant is advised of the need for compliance with the local government annual Firebreak Notice.</p>	
<p>23/01/2024 CMRef: 83318 EMS&C</p>	<p>That Council;</p> <p>1. APPROVE an alternative process be undertaken for the purchase of stock to allow the operations of the Grandstand Bar and Restaurant to commence; and</p> <p>2. INSTRUCTS the Chief Executive Officer to have the Administration undertake a full review of the operations of the Grandstand Bar & Restaurant within twelve months.</p>	<p>IN PROGRESS</p>
<p>23/01/2024 CMRef: 83323 A/CEO</p>	<p>That Council:</p> <p>1. APPOINT the Candidate listed in the confidential Attachment 19.1A to act as the Independent Person on the Selection Panel for the recruitment of the Chief Executive Officer established at the Ordinary Council Meeting held on 11 December 2023;</p> <p>2. NOTES that should the appointed person be required to withdraw after the appointment is offered, a further recommendation will be made to Council;</p> <p>3. REMUNERATE the position as listed in the confidential Attachment 19.1A; and</p> <p>4. NOTE that the position will lapse on the date that a successful candidate accepts the position of Chief Executive Officer.</p>	<p>COMPLETED</p>
<p>23/01/2024 CMRef: 83324 EMES</p>	<p>That Council;</p> <p>1. AUTHORISE the Chief Executive Officer to finalise negotiations for the Funding Agreement and Variation of Licence L7465 between the Shire of Merredin and the Public Transport Authority of Western Australia, for the Merredin Water Tower Refurbishment; and</p> <p>2. AUTHORISE the Shire President and Chief Executive Officer to apply the Shire of Merredin Common Seal to the Funding Agreement and Variation of Licence L7465 between the Shire of Merredin and the Public Transport Authority of Western Australia, for the Merredin Water Tower Refurbishment.</p>	<p>IN PROGRESS</p> <p>February 2024 Common seal applied and contract sent to PTA for signing.</p> <p>March 2024: Contract signed by PTA.</p>
<p>13/02/2024 CMRef: 83328 CEO</p>	<p>That Council ADOPT Policy 2.34 – Appointment of an Acting or Temporary CEO, as presented in Attachment 11.1A.</p>	<p>COMPLETED</p> <p>Policy has been put in the Policy Manual and the updated Policy Manual has been put on the website.</p>
<p>13/02/2024 CMRef: 83330 CEO</p>	<p>That Council:</p> <p>1. APPOINT Mr John Merrick in the role of Temporary Chief Executive Officer of the Shire of Merredin effective from 27 February 2024 until Council have formally appointed a permanent Chief Executive Officer;</p> <p>2. Is satisfied that Mr John Merrick is suitably qualified to hold the position of Temporary Chief Executive Officer of the Shire of Merredin, and is satisfied with the contract of employment;</p> <p>4. APPROVES that Item 1 and 2 of this resolution remain confidential until contract negotiations are finalised; and</p>	<p>COMPLETED</p>

	5. APPROVES that Item 3 of this resolution remains confidential indefinitely.	
27/02/2024 CMRef: 83338 CEO	That Council ENDORSE the following recommendations from the Audit Committee Meeting of 27 February 2024 being; 1. Item 6.1: That Council: a. RECEIVES the 2023 Compliance Audit Return; b. ADOPTS the 2023 Compliance Audit Return for the period 1 January 2023 to 31 December 2023 as contained in Attachment 6.1A; and c. AUTHORISES the Shire President and Chief Executive Officer to sign the joint certification and submit the completed 2023 Compliance Audit Return, and any additional information explaining or quantifying the compliance audit, to the Department of Local Government, Sport and Cultural Industries by 31 March 2024; and 2. Item 6.2: That Council NOTES the Risk and Regulation Action Plan as tabled to the Audit Committee.	COMPLETED 2023 Compliance Audit Return has been submitted.
27/02/2024 CMRef: 83339 EMDS	That Council ADVISES the Western Australian Planning Commission that it has no objection to the proposed subdivision of Lot 340 Collgar South Road, Norpa, (WAPC Application No: 164482) resulting in the creation of two new lots, proposed Lot 1 (12.8ha) and proposed Lot 2 (43.99ha), as identified in Attachment 12.1A, subject to; <ul style="list-style-type: none"> • the proposed boundaries not encroaching upon any existing structures or onsite effluent disposal facilities; • all new lots being connected to a constructed road; and • compliance with WAPC State Planning Policy 3.7 – Planning in Bushfire Prone Areas. 	COMPLETED WAPC has now been formally advised on Councils position on the matter.
27/02/2024 CMRef: 83340 EMES	That Council ADOPT the revised Policy 3.23 - Asset Management Policy, as presented in Attachment 13.1B.	COMPLETED Policy has been put in the Policy Manual and the updated Policy Manual has been put on the website.
27/02/2024 CMRef: 83346 CEO	That Council; 1. ACKNOWLEDGES the closure of the pedestrian crossing immediately east of the Merredin Train Station as part of the construction of the new high-level platform at the station; 2. AUTHORISE the Chief Executive Officer to advise PTA and Arc Infrastructure of this acknowledgement; and 3. INSTRUCT the Chief Executive Officer to advertise the closure of the platform within the community as soon as closure dates are known.	IN PROGRESS March 2024, minutes excerpt provided to PTA.
27/02/2024 CMRef: 83348 EMCS	That Council; 1. ACCEPT the offer received for Assessment A9358, Lot 217, 19 Carrington Way, Merredin WA 6415 for a value of \$35,000; 2. AUTHORISE the Chief Executive Officer and the Shire President to execute a Contract of Sale and apply the Shire of Merredin Common Seal to the agreed contract; and	IN PROGRESS March 2024, EMCS has contacted person who made the offer and asked for a formal offer contract to be drawn up. Advised that delays

	3. INSTRUCT the CEO to transfer the profits received from the sale of the land into the Building Reserve Account GL 96733010.	have occurred and offer may not be forthcoming.
27/02/2024 CMRef: 83349 MP / EMES	That Council; 1. Receives the Confidential Recommendation Report of the Tender Panel for RFQ17 2023/24 Apex Park – Amenities Upgrade at Attachment 19.2A; 2. APPROVES the recommendations as contained within Section 6, Recommendations, of Attachment 19.2A – RFQ17 2023/24 Confidential Recommendation Report. 3. AUTHORISE the Shire President and Chief Executive Officer to apply the Shire of Merredin common seal to the Contract between the Shire of Merredin and Respondent 2 for RFQ17 2023/24 Apex Park – Amenities Upgrade as outlined in Attachment 19.2A – RFQ17 2023/24 Confidential Recommendation Report.	IN PROGRESS March 2024: Contract was awarded to Phase 3.
27/02/2024 CMRef: 83350 EMCS	That Council; 1. WRITE OFF the balance of rates and charges owing on Assessment A9370 totaling \$21,409.91 as at 13 February 2024; and 2. NOTE that the payment of the outstanding ESL will be made, if required.	COMPLETED March 2024: Write-off completed. Awaiting further advice regarding ESL payment.

16. Motions of which Previous Notice has been given

Nil

17. Questions by Members of which Due Notice has been given

Nil

18. Urgent Business Approved by the Person Presiding or by Decision

Nil

19. Matters Behind Closed Doors

In accordance with section 5.23 (2)(b)(c)(e)(ii)(iii), of the *Local Government Act 1995* Council will go Behind Closed Doors to discuss these matters.

Council Decision

Moved: Cr Van Der Merwe **Seconded:** Cr Anderson

83361 **That Council move Behind Closed Doors and that Standing Orders be suspended at 4:15pm.**

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil

Reason

That matters related to the personal affairs of any person, a contract entered into, or which may be entered into, by the local government and which relates to a matter to be discussed at the meeting, and a matter that if disclosed, would reveal information that has a commercial value to a person, or information about the business, professional, commercial or financial affairs of a person.

19.1 Award of Contract – RFQ05 2023-24 Sealing Works

Engineering Services



Responsible Officer:	Amer Tawfik, EMES
Author:	As above
Legislation:	<i>Local Government Act 1995</i>
File Reference:	Nil
Disclosure of Interest:	Nil
Attachments:	Attachment 19.1A – Confidential Recommendation Report RFQ05a 2023-24 Sealing Works

Voting Requirements

Simple Majority

Absolute Majority

Resolution

Moved: Cr McKenzie

Seconded:

Cr Van Der Merwe

That Council:

1. RECEIVES the Recommendation Report included as Attachment 19.1A – Confidential Recommendation Report RFQ05a 2023-24 Shire of Merredin – Bituminous Surfacing;
2. APPROVES the recommendations as contained within Section 7 of the Confidential Report included as Attachment 19.1A;
3. AUTHORISE the Shire President and Chief Executive Officer to sign and apply the Shire of Merredin Common Seal to the Contract between the Shire of Merredin and Fulton Hogan Industries Pty Ltd for RFQ05a 2023-24 Sealing Works up to a total value of \$722,601 ex GST; and
4. AUTHORISES the Chief Executive Officer to approve up to 10% Variations to this Contract, within the budget allocated under GL's RC239e, RC239f, RC239g, RRG001, R2R001, RRG090, R2R090, R2R013, R2R014, R2R017, and R2R063.

83362

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil

19.2 Appointment of Chief Executive Officer

Administration



Responsible Officer:	John Merrick, T/CEO
Author:	Meg Wyatt, EO
Legislation:	<i>Local Government Act 1995</i> <i>Local Government (Administration) Regulations 1996.</i>
File Reference:	Nil
Disclosure of Interest:	Nil
Attachments:	Attachment 19.2A – Confidential Summary Report Attachment 19.2B – CEO Employment Contract Template Attachment 19.2C – Draft CEO Contract Schedule

Voting Requirements



Simple Majority



Absolute Majority

Resolution

Moved: Cr McKenzie

Seconded:

Cr Anderson

That Council;

- 83363
1. **NOTES** the information as provided by Beilby Downing Teal in Confidential Attachment 19.2A;
 2. **AGREES** with the recommendation of the Selection Panel that Candidate E is considered to be the most suitably experienced and qualified applicant;
 3. **APPOINTS** Candidate E to the position of Chief Executive Officer at the Shire of Merredin subject to satisfactory completion of background checks;
 4. **APPROVES** the Chair of the Selection Panel making an offer of employment and progressing contract offer with the recommended candidate, Candidate E, within the Total Reward Package range agreed by Council and up to the amount of the Total Reward Package for SAT band 3 to the value of \$276,327; and
 5. **THANKS** all applicants who expressed an interest in the position of Chief Executive Officer at the Shire of Merredin.

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe
Against: Nil

Council Resolution

Moved: Cr Anderson

Seconded: Cr Billing

83364

That Council return from Behind Closed Doors at 4:33pm, resume Standing Orders and that the resolutions being passed in the confidential session be confirmed in open meeting.

CARRIED 8/0

For: Cr McKenzie, Cr Manning, Cr Anderson, Cr Billing, Cr Crook, Cr O'Neill, Cr Simmonds, Cr Van Der Merwe

Against: Nil

20. Closure

There being no further business, the President thanked those in attendance and declared the meeting closed at 4:34pm.

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