

# Appendices

# Local Emergency Management Committee

# First Quarter Monday 8 August 2022



# **Minutes**

## Local Emergency Management Committee

## Fourth Quarter Wednesday 11 May 2022

### Local Emergency Management Committee – 11 May 2022

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#### **Notice of Meeting**

Minutes of the Local Emergency Management Committee meeting held at the Lesser Hall - 1915 Pinjarra Road, Pinjarra (Between the Civic Centre and the Library) on Wednesday 11 May 2022. The Chairperson Mr. S Kirkham declared the meeting open the time being 10:00am.

#### 1. ATTENDANCES

#### Members

S Kirkham	LEMC Chairperson   Councillor, Shire of Murray
M Walmsley	LEMC Chairperson   Shire President, Shire of Waroona
R Marlborough (Pro	bxy) Manager Governance, Shire of Murray
R Wilson	CBFCO, Shire of Murray
K Oborn	Director Infrastructure & Development Services, Shire of Waroona
S Macdonald	WCRC Manager, Shire of Waroona
M Howes	LEMC Deputy Chairperson   OIC, WAPOL Pinjarra
G Cresswell	Emergency Services Superintendent, Alcoa
M Schorer (Proxy)	Senior District Emergency Services Officer (South Metro), DoC
Q La Rosa	DEMA, DFES
C Hunter	Station Manager, St John Ambulance Pinjarra
C Louis	Principal, Pinjarra Primary School
C Thompson	Community Representative, Shire of Murray

#### **Ex-Officio**

C Goff RESSO, Shire of Murray & Waroona C Shenton AWARE Project Officer, Shire of Murray B Finlay District Officer Wellington – Fire Services, DFES K Gill Manager Emergency Preparedness Disaster Response, Department of Health S Collins Operations Manager, Water Corporation

Guest

M Goodlet M Morris

#### 2. ABSENT

#### Members

B Jordan (Apology) K Tarver (Apology) J Worthington (Apology) T Sillitto (Apology) L Hay (Apology) B Worthington (Apology) B Beales J Humphreys W Goodhill P Dwyer K Jones D Wilson S James N Dew MALC Manager, Shire of Murray OIC, WAPOL Waroona OIC, WAPOL Dwellingup Senior District Emergency Services Officer, DoC CEO, Bedingfeld Park Inc Aged Care Facility Community Respresentative, Shire of Waroona CBFCO, Shire of Waroona Health and Safety Manager, Alcoa Emergency Response Supervisor, Alcoa Unit Manager, Murray SES Brigade Captain, Pinjarra VFRS Representative, St John Ambulance Waroona Representative, Quambie Park Community Respresentative, Shire of Waroona

CEO, Shire of Waroona

Manager, Belswan Lifestyle Estate

#### **Ex-Officio**

J Gilliland (Apology)Manager Emergency Preparedness Agriculture and Food, DPIRD A Lewis (Apology) Project Engineer, Harvey Water D Cormack (Apology) Maintenance Supervisor, Fulton Hogan J Rawlins (Apology) Field Operations Team Leader, Western Power T Simpson Local Welfare Coordinator, DoC N Elrick District Officer – Natural Hazards, DFES J Carter District Officer – Emergency Management, DFES K Laurendi Senior Ranger Lane Poole Reserve, DBCA

#### 3. CONFIRMATION OF MINUTES OF MEETING

3.1 Confirmation of Minutes of Local Emergency Management Committee Meeting – **refer to Appendix 1** – 9 February 2022

Committee Recommendation

LEMC22/002

Moved: M Howes

That the minutes of the Shire of Murray & Waroona Local Emergency Management Committee Meeting held on 9 February 2022 be confirmed as a true and correct record.

#### **CARRIED UNANIMOUSLY 13:0**

The Shire of Murray Council received and noted the minutes of the Shire of Murray & Waroona Local Emergency Management Committee meeting held on 11 May 2022 at the 23 June 2022 Ordinary Council Meeting as per resolution OCM22/062.

The Shire of Waroona Council received and noted the minutes of the Shire of Murray & Waroona Local Emergency Management Committee meeting held on 11 May 2022 at the 28 June 2022 Ordinary Council Meeting as per resolution OCM22/06/64.

#### 3.2 Review of Meeting Action Register – refer to Appendix 2

The Shire of Murray & Waroona LEMC meeting action register was reviewed and updated. Refer to **Appendix 2**.

#### 4. BUSINESS ARISING

Nil.

#### 5. State EM Preparedness Procedure 7 – LEMC Requirements

#### 5.1 Every Meeting

#### 5.1.1 Confirmation of LEMC Contact Details – refer to Appendix 3

The updated LEMC Contact Register is attached in **Appendix 3**. All members were asked to ensure their contact information is up to date.

#### CESC – G Stevens

G Stevens has resigned as the CESC and is now an Area Officer at DFES. He is based at the Bushfire Centre of Excellence and is responsible for rolling out the new Australian Fire Danger Ratings System and supporting training.

#### DEMA – M Cross

M Cross has advised that she has decided not to return to work and instead retire from DFES.

R Marlborough on behalf of the LEMC membership thanked G Stevens and M Cross for all the work they have done within Emergency Management for Shire of Murray & Waroona and wished them all the best for the future.

A letter of appreciation will be sent to M Cross and G Stevens on behalf of the LEMC membership.

5.1.2 Review any Post-Incident Reports and/or Post-Exercise Reports

An After-Action Review (AAR) of Nambeelup Fire – Incident Number 559636 has been completed. There was an issue with communications due to the location but overall there was no negative feedback. Information was distributed to all Brigades.

5.1.3 Funding Nominations and Applications Progress

No local funding applications have been submitted for emergency management matters.

Recently applications were invited from eligible community groups, not-for-profit organisations and state and local government under the National Disaster Risk Reduction (NDRR) Grant Program (third round) for projects demonstrating state or sector wide significance. Grant applications closed Friday 6 May 2022.

Q La Rosa advised that the All West Australians Reducing Emergencies (AWARE) Program 2022-23 grant funding is now available. Applications close on Friday 10 June 2022.

## 5.1.4 Bush Fire Risk Management Planning / Treatment Strategies Progress – refer to Appendix 4 and Appendix 5

The Bushfire Risk Management Plans for the Shire of Murray and the Shire of Waroona have both been finalised and endorsed.

The Shire of Waroona completed bush fire treatment works on various land parcels in their district with funds sourced through the 2021/22 (Round 1) Mitigation Activity Fund (MAF) application process.

The Shires of Waroona and Murray have both submitted 2022/2023 Round 1 applications for MAF grant funds to undertake bush fire treatment works in their respective districts.

Copies of the current treatment schedules that accompanied the MAF applications are provided at **Appendix 4** (Shire of Murray) and **Appendix 5** (Shire of Waroona).

#### 5.1.5 Review of Local Emergency Management Arrangements – C Shenton

The draft joint Local Emergency Management Arrangements, including a Local Recovery Plan, Local Resource Recovery Manual, Animal Welfare Plan, Emergency Evacuation Plan and Communications Plan are in development and nearing completion.

A first draft of the documents has been reviewed by officers from the Department of Fire and Emergency Services and feedback received, has been considered. Shire of Waroona have also provided information.

The draft documents will be distributed via email for feedback from the LEMC membership. Once feedback is received the Plans will be finalised for presentation and consideration at next LEMC meeting. Following this, endorsement by both Councils will be sought.

New census information will be added once it is released. R Marlborough thanked C Shenton and S Walker for their hard work on the AWARE project.

5.1.6 Review Business Plan Strategies and Record Key Achievements – refer to **Appendix 6** 

A copy of the State Emergency Management Committee (SEMC) Strategic Plan 2021-2024 is attached in **Appendix 6**.

#### 5.2 Fourth Calendar Quarter

5.2.1 Finalise Local Government Exercise Schedule - WA Police

M Howes advised that planning for the exercise has been pushed back due to incidents and G Stevens being deployed. However, Police have met up to discuss and are working on improving limited communications.

R Wilson advised that DBCA organised a desktop evacuation exercise of Lane Poole Reserve which may be useful for planning another exercise. It was raised that an exercise should be held at Lake Navarino with potentially two exercises being held simultaneously (one at Lake Navarino and one at Lane Poole Reserve).

#### 6. GENERAL BUSINESS

6.1 EM Capability Summary Reports – refer to Appendix 7 and Appendix 8 – R Marlborough

The EM Capability Summary Supplement from the 2021 survey is attached in **Appendix 7** for the Shire of Murray and **Appendix 8** for the Shire of Waroona.

The Department of Fire and Emergency Services have released the 2022 Preparedness Capability Surveys for both the Shire of Waroona and Shire of Murray.

This online survey has been sent to about 170 organisations that make up the Western Australian emergency management sector. Survey submissions will form part of the evaluation criteria for grants such as AWARE and National Disaster Risk Reduction (NDRR).

This 2022 survey is to be completed by close of business on Wednesday 15 June 2022. Q La Rosa advised that new capability framework is currently being developed.

6.2 State Emergency Management Committee (SEMC) Communique – March 2022 – Appendix 9 - R Marlborough

The SEMC Communique – March 2022 is attached in **Appendix 9**.

6.3 SoM CESC - Appendix 10 - G Stevens

A report was submitted as per Appendix 10.

6.4 DFES DEMA - Appendix 11 - Q La Rosa

A report was submitted as per Appendix 11.

6.5 DoC Senior District Emergency Services Officer (South Metro) - Appendix 12 - M Schorer

A report was submitted as per **Appendix 12**.

6.6 DFES DO Wellington - Fire Services - Appendix 13 – B Finlay

A report was submitted as per Appendix 13.

#### 6.7 SoW CEO - M Goodlet

M Goodlet advised that Peter Thurkle is now the Shire of Waroona Community Emergency Services Officer. He is working two days a week being Wednesday and Thursday.

#### 6.8 St John Ambulance Station Manager - C Hunter

C Hunter stated that COVID has increased in Collie, Bunbury and Australind. St John Ambulance has now commenced Business Continuity Level 3 and have cancelled St John Representation at public events.

St John Ambulance are currently leasing the Pinjarra Heritage Railway Station building while their depot is being renovated.

#### 7. NEXT MEETING

The next Local Emergency Management Committee meeting will be held on Wednesday 3 August 2022 commencing at 10:00am. The meeting will be held at the Shire of Waroona Council Chambers at 52 Hesse Street, Waroona.

#### 8. CLOSE

There being no further business the Chairperson declared the meeting closed the time being 10:38am.

I confirm that these minutes were confirmed at the Local Emergency Management Committee (LEMC) meeting held on Monday 8 August 2022 as being a true and correct record of proceedings.

LEMC Chairperson

Date

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### Local Emergency Management Committee Meeting Action Register



Date Raised	Serial №	ltem №	Subject	Action	Responsible Officer	Completion Date / Status
27 November	November Appendix Risk Reference 35 – June 2016.		<b>04/05/16</b> Consultation with DFES to develop the plan. Meeting to be held in June 2016.	D/O Natural Hazards DFES	Deferred	
2013	2013 4	4	Flood/Flash flooding	02/08/17 Ongoing. Discuss further with Water Corp.	Unit Manager	
			Develop a Local Flood	07/02/18 Ongoing. Invite to the next LEMC meeting DFES.	Murray SES	
			Management Plan			
	11/11/20 R Porter advised that the ERM Risk Assessment Workshops will co all Hazards.					
				03/11/2021 SES to follow up.		
4 March 2020	04/20	5.1.2	LEMC membership is to review the Lake Navarino Emergency and Evacuation	<b>02/09/2020</b> – Camping at Lake Navarino is currently prohibited. DBCA are aware they are responsible for managing the land. DBCA are currently liaising with Linda and Craig from Lake Navarino in regards to the management structure.	LEMC Membership	In Progress
			Procedure, as found as Appendix 4, and provide feedback to	<b>02/12/2020</b> – RP advised that the procedure will be recirculated to the LEMC membership in early 2021 and feedback will be provided to Linda and Craig from Lake Navarino.		
			the LEMC Executive Officer.	<b>11/05/2021</b> – The Shire of Waroona and DBCA had a meeting at the start of May 2021 to discuss Lake Navarino. The majority of the land around Lake Navarino is unallocated crown land and the management of the land is questionable. DBCA advised they are not responsible for managing the land.		
				<b>04/08/2021</b> – The Shire of Waroona held a meeting in regards to the management/land responsibility plan for Lake Navarino with various agencies on Monday 26 July 2021. No one has taken ownership yet but hopefully DBCA take ownership. M Walmsley advised that there is no camping and Police/Rangers are helping to monitor the area.		
				09/02/2022 – M Walmsley advised that another meeting is scheduled next week.		

				<ul> <li>11/05/2022 – B Worthington was an apology at the meeting. M Goodlet spoke on his behalf and advised that B Worthington received a letter from Water Corp regarding the Scarp Road (to the south) escape route being permanently closed. Landowners previously had a key but the lock has now been changed. Residents are concerned.</li> <li>Lake Navarino is to be vested to DBCA. M Walmsley advised that there are no major issues there at the moment. The Shire is pushing for DBCA to formalise a camping/recreation area.</li> </ul>		
17 February 2021	01/21	6.6	Evacuation Workshop to be organised with Bedingfeld Aged Care Facility and Quambie Park.	<ul> <li>09/02/2022 – It was raised that this would be difficult to organise with the current COVID-19 situation but could be done as a desktop.</li> <li>11/05/2022 – R Marlborough advised that he will follow up and ask Sharon James (Quambie Park) and Leanne Hay (Bedingfeld Aged Care) to attend the August LEMC meeting to discuss further.</li> </ul>	Bedingfeld Aged Care Facility, Quambie Park and LEMC membership	Not Started
3 November 2021	03/21	6.6	J Worthington to follow up with K Laurendi and organise a Bushfire Exercise at Lane Poole Reserve.	<ul> <li>09/02/2022 – This is currently being organised however meetings have been pushed back recently due to incidents occurring in the area.</li> <li>11/05/2022 – M Howes advised that planning for the exercise has been pushed back due to incidents and G Stevens being deployed. However, Police have met up to discuss evacuation points and limited communications.</li> </ul>	WAPOL / K Laurendi	In Progress
				R Wilson advised that DBCA organised a desktop evacuation exercise of Lane Poole Reserve which may be useful for planning another exercise. It was raised that an exercise should be held at Lake Navarino with potentially two exercises being held simultaneously (one at Lake Navarino and one at Lane Poole Reserve).		



# Shire of Murray & Waroona

# Local Emergency Management Committee

# **Terms of Reference**



## Local Emergency Management Committee

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#### Terms of Reference

#### 1. Title

The name of the Committee shall be the Shire of Murray & Waroona Local Emergency Management Committee and hereafter referred to as ("**LEMC**").

#### 2. Mission Statement

The LEMC is committed to working with residents, hazard management/support agencies, and stakeholders to develop and maintain local arrangements that support the community during an emergency.

#### 3. Purpose

A LEMC is established under s.38 of the *Emergency Management Act 2005* to develop and maintain effective emergency management arrangements for the local district. Section 39 of the *Emergency Management Act 2005* specifies that the role of the Committee is to:

- advise and assist the local government in ensuring that local emergency management arrangements are established for its district.
- liaise with public authorities and other persons in the development, review and testing of local emergency management arrangements; and
- carry out other emergency management activities as directed by the State Emergency Management Committee or prescribed by the regulations.

Under s.38(4) of the *Emergency Management Act 2005* the constitution and procedures of Local Emergency Management Committees are set by State Emergency Management Committee (SEMC). These terms of reference are consistent with the State Emergency Management Procedures in this regard.

#### 4. Scope

The LEMC is for the planning and preparation for emergency management incidents and to meet the requirements of relevant legislation, policy statements and other emergency management related standards within the Shires of Murray and Waroona local government districts.

#### 5. LEMC Membership Roles and Responsibilities

In addition to the normal roles assigned to office bearers of a committee, the following roles are specific to the needs of the LEMC:

#### 5.1 Chairperson

The LEMC Chairperson shall be a shared role between the respective Shire of Murray and Waroona Council representatives on a rotational basis, for a period of two (2) years in line with local government elections.

The Chairpersons shall ensure that their respective Council is kept fully informed of emergency management discussions and/or decisions from the LEMC meetings.

In the absence of the Chairpersons, the Deputy Chairpersons shall preside over the meeting. In the absence of both the Chairpersons and the Deputy Chairpersons, a Presiding Officer may be elected by the voting members present at the meeting.

#### 5.2 Local Emergency Coordinator/s

The Local Emergency Coordinators shall be the respective Officers in Charge of the Pinjarra and Waroona Police Stations. The role of the Local Emergency Coordinator is:

- to provide advice and support to the local emergency management committee for the district in the development and maintenance of emergency management arrangements for the district,
- to assist hazard management agencies in the provision of a coordinated response during an emergency within their respective district,
- to carry out other emergency management activities in accordance with the directions of the State Emergency Coordinator.

The Local Emergency Coordinator assumes the role of the LEMC Deputy Chairperson in the absence of the Chairpersons. The Deputy Chairperson should deputise for the Chairpersons as required and chair any Sub-Committees or Working Groups.

The Deputy Chairpersons are responsible for informing the Chairpersons as to the salient points raised and/or agreed decisions at the meeting.

#### 5.3 Executive Officer

The Shire of Murray Coordinator Ranger and Emergency Management is the LEMC Executive Officer role to coordinate the business of the committee and provide administrative support. The role of the Executive Officer is:

- to prepare and distribute meeting agenda's, minutes and appendices, as required,
- to distribute correspondence to the committee that pertain to emergency management matters,
- to document and update actions items and Business Plan strategy outcomes and present to the committee each quarter,
- to coordinate the development and submission of committee documents in accordance with legislative and policy requirements, including an Annual Preparedness Report, Annual Business Plan and maintenance of LEMA's,
- to provide advice to the Chairperson and LEMC membership as required,
- to facilitate communication between the LEMC and Executive Officer of the District Emergency Management Committee (DEMC) - South Metro, and
- attend meetings of DEMC as required.

#### 5.4 Committee Members

Members of the LEMC are expected to actively participate in scheduled meetings and provide any technical advice as relevant to their role and/or representation of their agency. Committee members shall:

- attend all scheduled meetings and if necessary nominate a proxy,
- · assist with the development of the Annual Business Plan,
- · provide support to and participate in LEMC exercises,
- ensure tasks and actions assigned to members are progressing toward completion,
- be genuinely interested in the initiative and the outcomes being pursued.

Members of the LEMC are required to fully complete the "Member Report" as seen at **Appendix A** prior to each meeting.

#### 5.5 Membership

The LEMC membership shall comprise of:

#### Voting Members

#### External Representatives

- Alcoa Australia Representative
- Bedingfeld Park Aged Care Representative
- Child Protection and Family Services Senior District Emergency Services Officer
- Department of Fire and Emergency Services Regional Office Representative
- Murray State Emergency Service Unit Manager
- Pinjarra Volunteer Fire and Rescue Brigade Captain
- Waroona Volunteer Fire and Emergency Services Brigade Captain
- St John Ambulance Representative
- Network of Schools Representative
- WA Police OIC Pinjarra Police Station | Local Emergency Coordinator
- WA Police OIC Dwellingup Police Station
- WA Police OIC Waroona Police Station | Local Emergency Coordinator
- Quambie Park Representative

#### Shire Representatives

- Shire of Murray Councillor Chairperson
- Shire of Waroona Councillor Chairperson
- Shire of Murray Local Recovery Coordinator or Deputy Local Recovery Coordinator
- Shire of Waroona Local Recovery Coordinator or Deputy Local Recovery Coordinator
- Shire of Murray Coordinator Ranger and Emergency Management
- Shire of Murray Community Emergency Services Coordinator
- Shire of Waroona Community Emergency Support Officer
- Shire of Murray Chief Bush Fire Control Officer
- Shire of Waroona Chief Bush Fire Control Officer

- Shire of Murray Manager Murray Aquatic and Leisure Centre
- Shire of Waroona Manager Waroona Community Resource Centre
- Shire of Waroona Community Representative x 2
- Shire of Murray Community Representative

#### Ex-Officio Members

- Shire of Murray Chief Executive Officer
- Shire of Waroona Chief Executive Officer
- Shire of Murray Ranger and Emergency Services Support Officer
- Department of Communities Local Welfare Coordinator
- Department of Fire and Emergency Services District Emergency Management Advisor – Metropolitan
- Department of Health Representative
- Department of Biodiversity, Conservation and Attractions
- Department of Primary Industries and Regional Development Representative
- Harvey Water Representative
- Main Roads WA Representative
- Water Corporation Representative
- Western Power Representative

Additional members may be invited as determined by the LEMC, to offer specialist advice on a range of matters pertaining to emergency management.

#### 6. General

#### 6.1 Agenda Items

All agenda items must be forwarded to the Executive Officer fourteen (14) days prior to the next scheduled meeting.

The agenda, with attached meeting papers will be distributed at least five (5) days prior to the next scheduled meeting.

#### 6.2 Minutes & Meeting Papers

Meetings are to be conducted in accordance with the Shire of Murray Meeting Procedures Local Law 2015 and the Shire of Waroona Meeting Procedures Local Law 2019.

The Executive Officer shall be responsible for keeping detailed minutes of all business tabled at meetings. Full copies of the minutes, including attachments, shall be provided to all LEMC members no later than thirty (30) working days following each meeting.

The minutes of each meeting are to be submitted to the next ordinary Council meeting of each local government for conformation in accordance with Section 5.22(2) of the *Local Government Act 1995*.

The minutes will be monitored and maintained by the Executive Officer as a complete record as required under provisions of the *Archives Act* 1983.

#### 6.3 Meeting Schedule

The LEMC shall meet at the Shire of Murray and Waroona administration buildings on a rotational basis, on the first Wednesday of every February, May, August and November.

The meeting held in August is deemed to be the first quarter meeting.

#### 6.4 Proxies to Meetings

Members can nominate a proxy to attend on their behalf. Proxies must be fully briefed prior to the meeting. The nominated proxy shall have the same voting rights at the attended meeting as the voting member they are replacing.

The nominated proxy may participate in discussion and provide relevant comments/feedback on behalf of the member they are representing.

#### 6.5 Other Attendees

Meeting attendance is by invitation only however invitations can be extended to internal Shire representatives, external organisations and service providers to guide and advise on specific topics as identified and agreed to by the Committee.

Councillors, who are not part of the Committee are invited to observe meetings, however they are not entitled to participate in the meeting and in the event of a vote, do not have **a vote**.

#### 6.6 Quorum Requirements

Quorum for a meeting is conditional on a representative or proxy from a minimum number of committee members as an authorised meeting for the recommendations or resolutions to be valid.

The quorum for the committee shall be at least 50% of its voting membership in accordance with Section 5.19 of the *Local Government Act 1995*.

#### 6.7 Decision making

Decisions of the Committee shall be in accordance with the Section 5.20 of the *Local Government Act 1995*.

At all meetings each voting member present is entitled to one vote and in the case of a tied vote the Presiding Chairperson has a casting vote in accordance with Section 5.21(3) of the *Local Government Act* 1995.

The Chair may take part in a discussion on any matter before the committee in accordance with Clause 4.7 of the *Shire of Murray Meeting Procedures Local Law* 2015 and the *Shire of Waroona Meeting Procedures Local Law* 2019.

#### 6.8 Powers of the LEMC

The LEMC has no delegated powers under Section 5.16 of the *Local Government Act* 1995 and only provides recommendations to the respective Council/s.

#### 6.9 Code of Conduct

Committee members will be expected to conduct themselves in a manner that supports a positive culture and outcomes for the group including:

- providing an apology in advance if attendance is not possible.
- seeking to obtain and represent the views of the broader community and / or the specific organisation / group represented.
- disseminating authorised information with the community in an unbiased manner.
- acting in good faith, with honesty, integrity and fairness at all times.
- respecting the ideas and beliefs of all members and endeavouring to create a positive working environment.
- notifying the Shire of any potential conflict of interest that may arise with respect to participation in this group.
- agreeing not to disseminate confidential information that is discussed at the meeting as advised by the Chair.
- agreeing not to make any media comment on behalf of the LEMC in relation to the work of the Committee unless approved by Council.

All Committee members must adhere to the provisions of the *Local Government Act* 1995 related to the disclosure of interests as if the Committee was a Committee of Council.

External members of the Committee must also adhere to the provisions of Regulation 3 and Regulations 6, 7, 8, 9, 10, and 11 of the *Local Government (Rules of Conduct) Regulations 2007* as if they were a Councillor attending a Committee of Council.

Failure to adhere to the provisions related to conduct and interest may result in Council removing the member from the Committee. The CEO is responsible for determining appropriate actions relating to dispute resolution.

#### 6.10 Amendments

The Terms of Reference shall be reviewed biennially from the date of approval or as otherwise required from time to time to meet the operational needs of the Committee and to retain currency.

#### **Amendment Record**

Nº	Date	Amendment Details	Resolution Number
1	17 February 2021	Original Document – Adopted.	Committee Recommendation LEMC21/003.
			SoM OCM21/058 - 22 April 2021.
			SoW OCM21/04/038 - 27 April 2021.
2	8 August 2022	Amended Document	Committee Recommendation LEMC22/005.

This Terms of Reference has been prepared and endorsed by the Shire of Murray & Waroona Local Emergency Management Committee on 8 August 2022 and will be ongoing until amended or terminated by agreement of the majority of all the group members.

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#### Signed

Local Emergency Management Committee - Chairperson Shire of Murray Councillor

Local Emergency Management Committee - Chairperson Shire of Waroona Councillor

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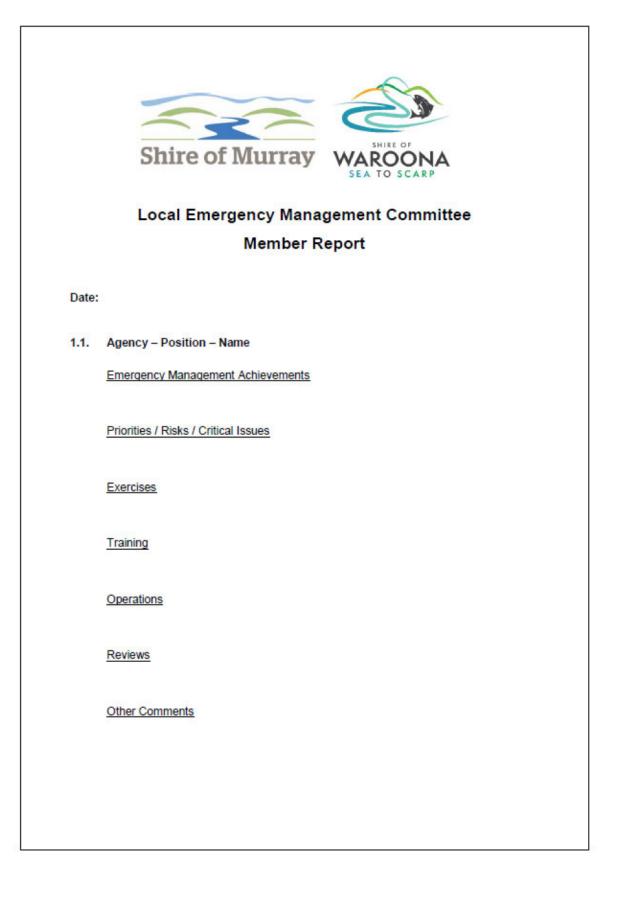
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Dean Unsworth, Shire of Murray Chief Executive Officer

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Mark Goodlet, Shire of Waroona Chief Executive Officer

#### Appendix A

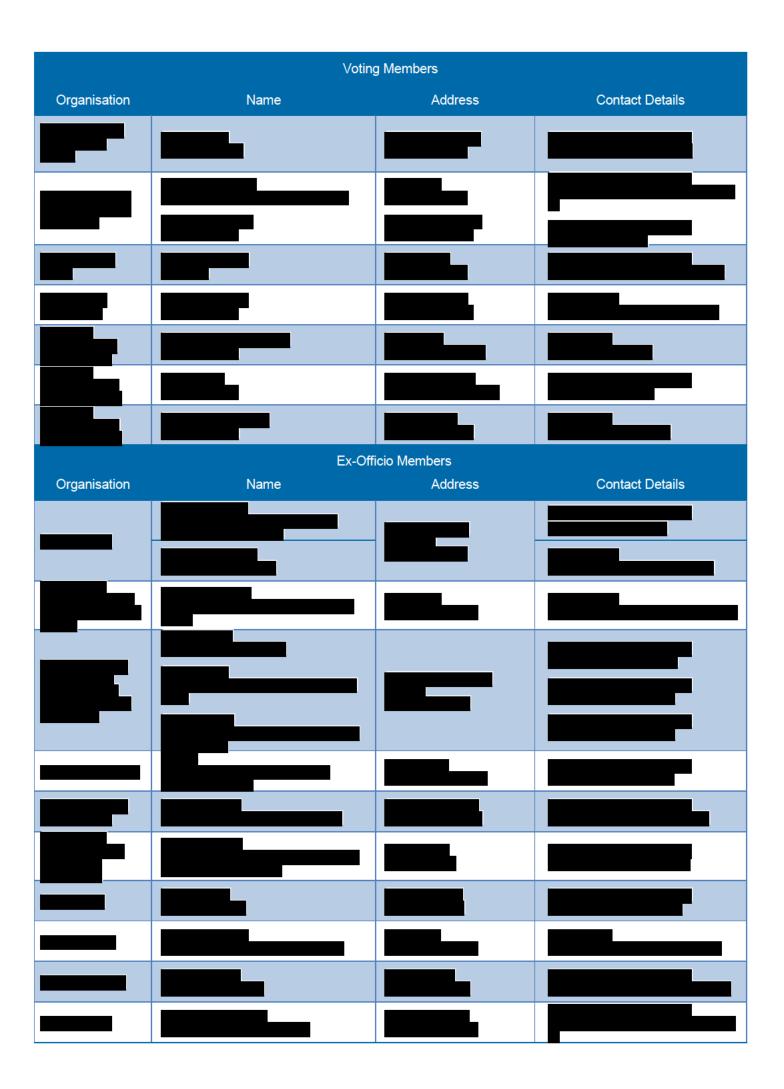




LEMC Membership Contact List (As at 1 August 2022)



Voting Members								
Organisation	Name	Address	Contact Details					





# Local Emergency Management Committee Business Plan 2022-2024

SEMC Strategic Plan	LEMC Action	Responsible	Status	C
Goal: Collaborative Leaders	ship			
Objective: Stronger relationships enable informed decision-making and local	• Periodic review of the Local Emergency Management Committee (LEMC) membership to ensure membership is effective from a local government perspective and is otherwise contemporary and reflects the demographics of the community, including diversity in the social, environmental, economic and vulnerable elements in the community in accordance with State Emergency Management (EM) Procedure 7.	Executive Officer	Achieved/ Ongoing	Terms of Reference review membership to be presented to Biennial reviews planned.
leadership.	LEMC members attend regular emergency management training and professional development opportunities, where possible.	LEMC Membership	Ongoing	LEMC membership are invited t
	<ul> <li>LEMC corresponds with DEMC on emerging and current issues in emergency management.</li> </ul>	Executive Officer	Ongoing	It is part of the Executive Office matters.
Objective: Continuous improvement championed by engaged and collaborative leaders.	<ul> <li>LEMC executive officer attend regular DEMC meetings, exercises and forums.</li> </ul>	Executive Officer	Ongoing	It is part of the Executive Office and forums.
	Develop Post Incident Reports in the event of an incident or emergency for the LEMC for review and provide to District Emergency Management Committee (DEMC) for noting.	Executive Officer	Ongoing	The Executive Officer is responsioned and the second secon
Goal: Effective Governance				
<b>Objective:</b> Information about <b>hazards, risks and impacts</b> is accessible, trusted and applied by decision makers,	<ul> <li>A local risk assessment is completed, with a risk register incorporated in the Local Emergency Management Arrangements (LEMA) in accordance with State EM Procedure 8.</li> </ul>	Executive Officer	Completed	Prior to the joint LEMC being undertook a risk analysis utilis 31000:2009 "Risk Management the emergencies that are likely Risks identified were included November 2013 (D17/18669) at joint LEMA.
the sector and community.	<ul> <li>Local risk treatments are identified and reported to the DEMC.</li> </ul>	Executive Officer	Not Started	Once a review is completed the DEMC.
Objective: Changing risk, capability and preparedness	<ul> <li>A local risk assessment is updated when new and emerging risks are detected within the community.</li> </ul>	Executive Officer	To be scheduled	A comprehensive risk analy Management module will be und State grant funding being ident prior to 2025.
are measured and reported across the State.	• LEMC executive officer or member contributes and completes the Annual Preparedness Survey to determine local capability and provide annual reporting information.	Executive Officer	Completed	2022 Annual Preparedness soutcomes when released will be
Objective: Contemporary and evidence-based emergency management framework with	• LEMA are established, maintained and reviewed in accordance with State EM Procedure 7.	AWARE Project Officer	Achieved	Project nearly completed. Comp presented to the LEMC meeting the LEMA suite of documents.
well-defined roles and responsibilities and policy maintained by rigorous oversight.	<ul> <li>Local Emergency Management Committee (LEMC) Chair is appointed from local government in accordance with State EM Procedure 7.</li> </ul>	LEMC	Achieved	The LEMC Chairperson is sha Murray and Waroona Council term of two years, this aligns appointment process is schedul



#### Comments

w which includes a review of the LEMC to the August 2022 meeting for consideration.

d to attend regular EM training as it arises.

ficer role to liaise with DEMC regarding EM

cer role to attend DEMC meetings, exercises

onsible for developing post incident reports as

ing established, the Shire of Murray LEMC tillising ERM models based on AS/NZS ISO ent – Principles and Guidelines" to determine ly to occur within its district.

ed in the ERM Report – Treat Risk – 27 ) and have subsequently been included in the

the Executive Officer will provide a report to

alysis review using the Emergency Risk undertaken within the districts pending suitable entified. With the aim to undertake the review

Surveys completed and lodged. Survey be circulated to the LEMC.

mmittee Recommendation LEMC22/004 to be ting held on 8 August 2022, seeking to adopt

shared role between the respective Shire of bil representatives on a rotational basis for a is with local government elections. The next duled for November 2023.



# Local Emergency Management Committee Business Plan 2022-2024

SEMC Strategic Plan	LEMC Action	Responsible	Status	(
<b>O</b> bjective: Contemporery	LEMC meetings business is administered in accordance with State EM Procedure 7.	Executive Officer	Ongoing	LEMC meetings held in accorda
Objective: Contemporary and evidence-based emergency management framework with well-defined	• LEMC contact details are validated quarterly and resource register are validated annually as a minimum.	Executive Officer	Ongoing	LEMC Contact list amended as
roles and responsibilities and policy maintained by rigorous oversight.	<ul> <li>A Memorandum of Understanding (MOU) for EM district assistance is considered.</li> </ul>	Executive Officer	Achieved	Local Government Emergency I City of Mandurah, City of Rockir and Shire of Serpentine Jarraho MOU due to expire on 1 Decem terminated or parties withdraw.
Goal: Capable Sector				terminated of parties withdraw.
	LEMC members participate in district or state level multi-agency exercises     where possible.	LEMC Membership	Ongoing	LEMC membership are invited level multi-agency exercises wh
Objective: Capability to respond to risks and vulnerabilities across the state is strengthened.	• Capability data is reported annually for the State Emergency Management Committee (SEMC) state emergency management capability survey.	Executive Officer	Ongoing	Executive Officer completes sur sent to the LEMC membership.
	<ul> <li>Investigate emergency management funding opportunities to improve resilience in communities.</li> </ul>	Executive Officer	Ongoing	Executive Officer identifies fund
Objective: Public communications systems and technologies are optimised for risk and context.	<ul> <li>Local communication strategies are incorporated in the LEMA where appropriate.</li> </ul>	Executive Officer	Ongoing	Communications Plan draft curr
<b>Objective:</b> The emergency	• The LEMC exercises annually in accordance with State EM Policy 4.8.3 and the Western Australia Managing Exercises Guideline.	LEMC Membership	Ongoing	Lane Poole Reserve Bushfire 2022. Waroona Dam and Surrounding Desktop Exercise to be organise
management sector exercises and learns to continually improve.	• Exercise schedules to be submitted to the DEMC prior to the start of the financial year in accordance with State EM Policy 4.10.	Executive Officer	Not Started	Executive Officer to follow up.
	• Develop a post-exercise report following all exercises in consultation with participants and submit to the DEMC as soon as practicable after the exercise.	Executive Officer	Not Started	Post exercise report will be o Bushfire Desktop Exercise th LEMC/DEMC.
<b>Objective:</b> Emergency management <b>knowledge</b> and <b>networks</b> are built across government, industry, and community.	LEMC members attend regular emergency management training and professional development opportunities where possible.	LEMC Membership	Ongoing	LEMC membership are invited t



Comments
lance with State EM Procedure 7.
s required and distributed quarterly.
Management MOU currently in place with ingham, Shire of Murray, Shire of Waroona indale.
mber 2025 unless mutually extended,
d to attend and participate in district or state here possible.
urvey annually, when distributed and a copy is
ding opportunities when they arise.
rrently in development.
e Desktop Exercise scheduled for 8 August
g Private Properties – Emergency Evacuation sed.
created following the Lane Poole Reserve that is planned and this will be sent to
to attend regular EM training as it arises.



# Local Emergency Management Committee Business Plan 2022-2024

SEMC Strategic Plan	LEMC Action	Responsible	Status	C
Goal: Resilient Community	1			
<b>Objective:</b> Increase collaboration and	• A local recovery plan is established, maintained and exercised as part of the LEMA in accordance with State EM Procedure 8.	AWARE Project Officer	Achieved	Local Recovery Plan included Recommendation LEMC22/004 to 8 August 2022, seeking to adopt t
coordination to support locally led recovery and resilience.	• A Local Recovery Coordinator is identified, trained and where possible experienced in accordance with State EM Procedure 8.	Local Recovery Coordinators	Ongoing	Local Recovery Coordinators in organised.
<b>Objective:</b> Community vulnerability is reduced	LEMC members participate in district or state level multi-agency exercises     where possible.	LEMC Membership	Ongoing	LEMC membership are invited to a multi-agency exercises where pos
through <b>risk reduction and</b> adaption.	<ul> <li>Capability data is reported annually for the SEMC state emergency management capability survey.</li> </ul>	Executive Officer	Ongoing	Executive Officer completes surverse sent to the LEMC membership.
Objective: More agencies and businesses have plans to maintain service delivery to the community.	• The local government business continuity plan is linked or referred to within the LEMA.	AWARE Project Officer	Achieved	Shire Business Continuity Plans in
Objective: Critical infrastructure is more	Critical infrastructure is captured in the LEMA where practical.	AWARE Project Officer	Achieved	Critical infrastructure layer on Intramaps.
resilient through risk reduction, mitigation, and innovation.	<ul> <li>Key community infrastructure representatives are included on the LEMC, where practical.</li> </ul>	Executive Officer	Achieved	Key community infrastructure repr

Project Name	Host Agency	Project Description	Status	Comments
Shire of Murray and Shire of Waroona Local Emergency Management Arrangements Review	SEMC	Develop a single comprehensive Local Emergency Management Arrangements for Shire of Murray and Shire of Waroona. Inclusive of a Local Recovery Plan, Local Recovery Resource Manual, Emergency Evacuation Plan and the Animal Welfare Plan.		Project nearly completed. Comm presented to the LEMC meeting adopt the LEMA suite of docume The Communications Plan is cu to DEMC for initial review. Once presented at a later LEMC meet formal adoption.

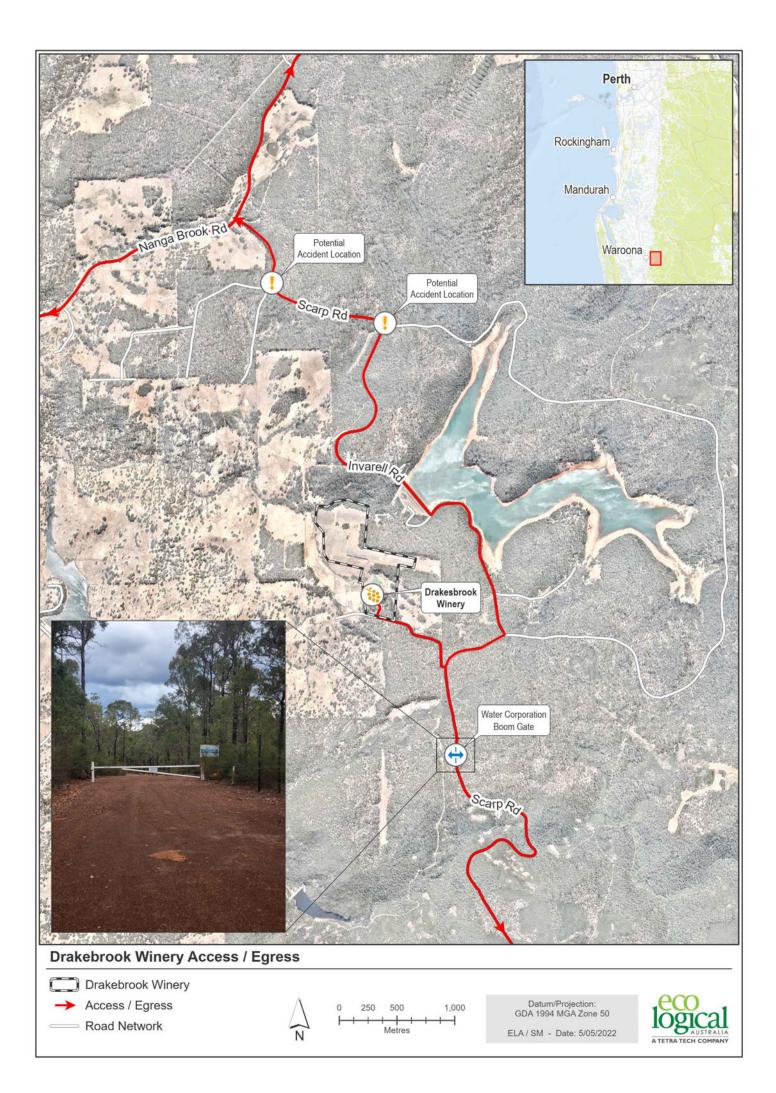




Comments		
I in LEMA suite of documents. Committee to be presented to the LEMC meeting held on t the LEMA suite of documents.		
identified for both Shires. Training to be		
o attend and participate in district or state level ossible.		
rvey annually, when distributed and a copy is		
s included in LEMA.		
n Shire of Murray and Shire of Waroona		
presentatives apart of LEMC membership.		

nmittee Recommendation LEMC22/004 to be ng held on Monday 8 August 2022, seeking to ments.

currently in draft. This plan has been provided ace feedback is received the final draft will be eting to progress the review process, prior to



## Samson Brook Redevelopment Scheme

Water Corporation

**Report and Recommendations** of the Environmental Protection Authority

> Environmental Protection Authority Perth, Western Australia Bulletin 1055 July 2002

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- 2. Recommended Environmental Conditions and Proponent's Consolidated Commitments
- 3. Issues raised during the community consultation programme and the proponent's responses

## 1. Introduction

This report provides the advice and recommendations of the Environmental Protection Authority (EPA) to the Minister for the Environment and Heritage on the environmental factors relevant to the proposal by the Water Corporation (WC) to construct a pipe head dam and related infrastructure on Samson Brook. The pipe head dam and related infrastructure will be used to divert stream flow from Samson Brook to the Integrated Water Supply System (IWSS). The IWSS supplies water to the Perth, Mandurah and the Goldfields and Agricultural Water Supply Scheme.

The WC advised the EPA of the proposal on 12 November 2001 and indicated it would seek an Environmental Protection Statement (EPS) level of assessment. Based on the preliminary information provided, the EPA considered that while the proposal had the potential to have an effect on the environment, the proposal could be readily managed to meet the EPA's environmental objectives. Consequently it was notified in *The West Australian* newspaper on Monday, 14 January 2002 that, subject to the preparation of a suitable EPS document, the EPA intended to set the level of assessment at EPS.

The proponent has prepared the EPS document (Welker, 2002), which accompanies this report. An electronic copy of the EPS is available for examination on the EPA's website: www.epa.wa.gov.au and hard copies at its office at: Department of Environmental Protection Library Information Centre, 141 St Georges Terrace, Perth.

The EPA considers that the proposal described in the EPS documentation can be managed in an acceptable manner subject to the recommended conditions, procedures and proponent's commitments to the proposal being made legally binding.

The EPA has therefore determined under Section 40 (1) of the *Environmental Protection Act* 1986 that the level of assessment for the proposal is EPS, and this report provides the EPA's advice and recommendations in accordance with Section 44 (1).

## 2. The proposal

The proposal is described in detail in Section 1 of the proponent's "Samson Brook Redevelopment Scheme, Environmental Protection Statement" document (Welker, 2002).

The Samson Brook Redevelopment Scheme is a key element of the WC's drought recovery plan. Redevelopment of this source will allow unallocated water resources in the Samson Catchment to be diverted for public water supply. The proposal being assessed is for the diversion of 8 Gigalitres a year (on average) (GL/yr), the construction of a pipe head dam and related infrastructure.

It is the EPA's understanding that the proposed pipe head dam and related infrastructure has the capacity to divert and treat additional water beyond the 8 GL/yr (on average), which the WC is seeking approval for. The actual volume of additional water available for future diversion at the pipe head dam will depend upon successful trading of water entitlements with the South West Irrigation Management Co-operative Ltd (SWIMCo) and the volume of water required to be released to maintain the ecological and social values of Samson Brook downstream of the pipe head dam.

The EPA notes at this stage however, that the WC is seeking an allocation of 8GL/yr (on average) from Water and Rivers Commission (WRC) and the WC's environmental assessment was based on diverting 8 GL/yr (on average) from Samson Brook.

The key components of this proposal are:

- a pipe head dam on Samson Brook;
- the diversion of 8 GL/yr (on average) from the Samson Brook to the IWSS;
- initially chlorination, buffering and fluoridation and then full treatment facilities in the long term;
- construction of temporary access roads from Scarp Road;
- a permanent access road from Weir Road to the proposed pipe head dam and treatment plant; and
- a 12.9 kilometre (km), 1.0 metre diameter pipeline from the proposed pipe head dam to the Stirling Trunk Main.

Figure 1 shows the location of Samson Brook redevelopment proposal

Figure 2 shows the location of pipeline route options and access routes

The main characteristics of the proposal are summarised in Table 1 below.

#### Table 1. Key characteristics of the proposal

Characteristic	Pipe head 150 m site
Diversion of water from Samson Brook	8 giga litres a year on average (diverted in accordance with the Operating Strategy as approved by the WRC).
Pipe head dam	
Wall height (metres)	20
Location (kilometres from South Western Highway)	Approximately 4.3.
Description	Concrete gravity dam.
Width of Spillway	60 metres wide.
Top water level (metres AHD)	147.5
Storage volume (million litres)	300
Offtake	Piped
Vegetation disturbance (hectares)	<ul> <li>Approximately 7 by inundation and construction of the pipe head.</li> <li>Approximately 7.3 of dieback free vegetation potentially impacted by construction.</li> <li>Approximately 600 metres of riparian vegetation will be inundated.</li> </ul>
Access roads	
Length (kilometres)	Temporary access road to pipe head: approx 2.6. Permanent access road to pipe head: approx 4.5. Permanent access road to water treatment facility: approx 1.6.
Width of disturbance (metres)	Temporary access track 7.
Vegetation disturbance (hectares)	Temporary access road 0.9, minimal disturbance by permanent access road.
Pipeline	
Length (kilometres)	12.9
Diameter (metres)	0.9 – 1.0
Capacity (million litres per day)	125
Route	Along permanent access track on Lot 6, through cleared agricultural land, crossing Samson Brook and South West Highway. Along James Rd, Fawcett Rd and then Buller Rd, crossing South West Railway on James Rd. (See Figure 1).
Width of disturbance (metres)	10 –25 approx. 10 in areas of native vegetation.
Vegetation disturbance (hectares)	Approximately 0.6 in forested areas on Lot 6. Approximately 0.65 to the west of South West Highway.
Water treatment plant	
Description	Chemical dosing plant – chlorination, fluoridation and stabilisation.
Area disturbed (hectares)	1.5
Vegetation disturbance	Cleared agricultural land.
Environmental Mitigation /Benefits	
Rehabilitation (hectares)	A total of 16.5, comprising:
	6 outside the riparian zone;
	• 1 of riparian and other vegetation;
	7.3 of dieback free vegetation potentially impacted by construction;
	<ul> <li>0.65 of vegetation impacted by pipeline construction; and</li> <li>1.5 contingency.</li> </ul>
Conservation Covenant	Introduction of a conservation covenant on part of the Samson Brook catchment on Lot 6 to protect ecological values.
Mature Trees Replacement of mature individual trees removed on the route with 2 juvenile trees of the same species.	
Fencing	Repairing, or where necessary replacing fencing around Lot 6.
Feral Animal Control	The implementation of a feral animal control program in co- operation with Department of Conservation and Land Management.
Nesting Boxes	Installation of cockatoo nesting boxes on Lot 6.
Recreation	Development of a Recreation and Tourism Master Plan for the Waroona area.

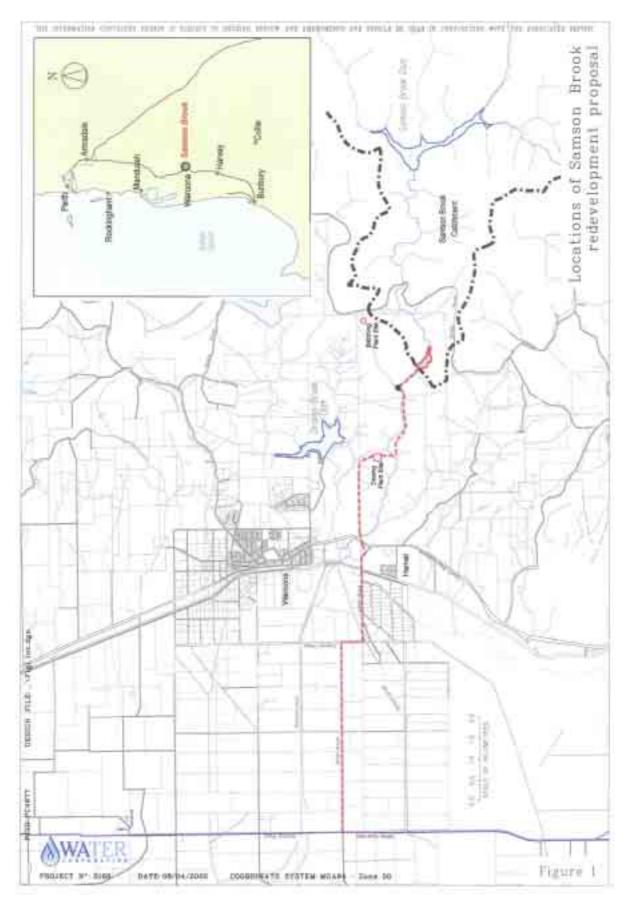


Figure 1: Location of Samson Brook Redevelopment Proposal

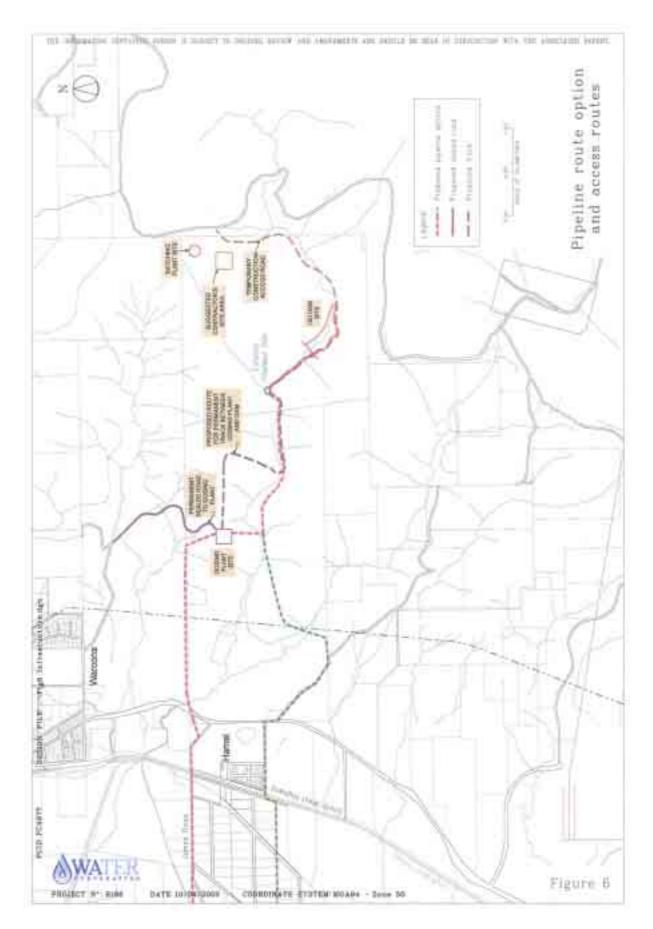


Figure 2: Location of pipeline route options and access routes

## 3. Consultation

During the preparation of the EPS, the proponent has undertaken consultation with government agencies and key stakeholders with a direct interest in the project. Consultation was also undertaken with the local community via meetings with affected landowners, community open evenings, mail outs, surveys and press releases made to the local paper inviting comment. The organisations consulted, the comments received and the proponent's responses to the comments are included in Section 2 and Appendix 3 of the EPS (Welker, 2002). Appendix 3 of this report contains a table summarising the issues raised during the proponent's responses to the issues raised.

The EPS described the following environmental outcomes as a result of the consultation programme:

- allowing the north eastern tributary of Samson Brook to remain unregulated, to provide a linkage between the forested upland catchments and the plain;
- committing to environmental mitigation measures in relation to the impact of the construction of the proposal on flora and fauna;
- participation in feral animal control programmes on Lot 6 in consultation with Department of Conservation and Land Management (CALM);
- proposing a pipe head dam location that removes the need for a pumping station (and subsequent greenhouse gas emissions) and avoids impacts on Christmas Trees which are sites of Aboriginal Heritage significance; and
- discussion with local landowners and Landcare groups and obtaining their agreement on the location of access tracks, the chemical dosing plant and the pipeline to minimise disruption to landuse and ecological values.

## 4. Relevant environmental factors

The summary of the environmental factors/issues identified by the proponent and their proposed management is outlined in the 'Summary of environmental issues, potential impacts and their management' in the EPS document (pages xi-xiv, Welker, 2002).

In the EPA's opinion the following are the environmental factors relevant to the proposal:

- a) Flora and vegetation clearing, inundation and disturbance to allow for the pipe head dam, pipeline construction and other associated activities; and
- b) Water courses and surface water quantity impoundment and diversion causing changes to the natural or existing water flow regimes.

#### 4.1 Flora and vegetation

The EPA's environmental objectives for this factor are to:

- i) protect Declared Rare and Priority Flora, consistent with the provisions of the *Wildlife Conservation Act 1950*; and
- ii) maintain the abundance, species diversity, geographic distribution and productivity of vegetation communities.

The proponent's assessment of the proposal's impacts on flora and vegetation is documented in section 7 of the EPS document (Welker, 2002).

Flora surveys undertaken within and adjacent to proposed areas of impact have not identified Declared Rare Flora (DRF) species gazetted under the *Wildlife Conservation Act (1950)* or priority flora species as defined by CALM. However, due to the timing of the flora surveys (December 2001 and January 2002), it is unlikely that spring flowering species were detectable at the time. Further flora survey work in the coming spring would ensure a wider coverage of the annual species. The commitment to undertake a spring survey is provided for in WC's commitment 1 (section 18 of the EPS) and this will be required to be fulfilled prior to construction occurring. Should species of DRF of priority flora be detected, WC has committed to prepare and implement a Flora Protection Plan to the requirements of CALM.

The construction of the pipe head dam, access tracks, pipeline and the inundation from the creation of a reservoir will result in the permanent loss of 8.3 hectares (ha) of native vegetation on Lot 6 which in itself has a total area of 400 ha. The proposal will also result in the temporary disturbance of up to 0.9 ha. This loss includes up to 600 metres of locally significant stream zone vegetation of Samson Brook and will in turn lead to a loss of terrestrial and aquatic fauna habitat.

The vegetation to be lost by this proposal has been examined against the EPA's Position Statement No.2 *Environmental Protection of Native Vegetation in Western Australia* (EPA, 2002) which outlines the EPA's expectations for proposals that involve a clearing component. It is the EPA's view that the proposal meets the elements detailed in Section 4.3, "*Clearing in other areas of Western Australia*". The EPA considers the proponent has been able to meet the elements by demonstrating through its environmental investigations that, the vegetation complex proposed to be affected by this proposal (Helena Complex) is well represented in secure conservation reserves. In addition, the Helena Complex will not be significantly affected by this proposal.

The impacts on flora and vegetation for this proposal are primarily determined by the extent of the proposal's 'footprint' from clearing, which the WC has minimised by confining construction activities to within the proposed inundation area and a cleared area in the northeastern corner of Lot 6. The risk of construction activities indirectly impacting on further areas of vegetation through the spread of dieback, weeds, fire ignition and excessive dust emissions will therefore require management. To minimise offsite impacts during construction, the WC intends to develop and implement environmental management plans to ensure the 'footprint' of the proposal is adhered to and that offsite impacts are minimised. The WC has given a commitment to implement environmental management measures through the development of a Construction Environmental Management System (CEMS) (commitment 1). The CEMS will be required to be satisfactorily completed prior to construction occurring.

The WC has proposed an environmental mitigation programme in relation to the vegetation and fauna habitats that will be impacted by the proposal. Details of the mitigation measures are described in section 7.5.4 of the EPS. The main elements of WC's mitigation programme consists of rehabilitating 16.5 ha of degraded areas on Lot 6, introducing a conservation covenant and repairing and installing fences to assist in controlling stock access. In summary, the mitigation programme provides for the ecological values of Lot 6 (which has an area in excess of that disturbed by the proposal) to be enhanced and secured by a conservation covenant and also provides for the ongoing management of the area.

Having particular regard for the:

- small area of vegetation to be lost (8.3 hectares);
- vegetation complex proposed to be impacted (Helena Complex) is well represented in secure conservation reserves;
- management measures proposed to minimise the risk of further losses of vegetation; and
- WC's proposed environmental mitigation programme,

it is the EPA's opinion that proposal can be managed to meet the EPA's objective for this factor.

### 4.2 Water courses and surface water quantity

The EPA's environmental objectives for this factor are to:

- i) maintain the integrity, functions and environmental values of water courses; and
- ii) maintain surface water quantity so that existing and potential uses including ecosystem maintenance, are provided.

Samson Brook is currently regulated by controlled releases from the existing Samson Dam. The release of irrigation water from Samson Dam in summer and autumn months has given rise to a modified seasonal flow regime in Samson Brook.

The proposed pipe head dam will 'capture' winter overflows from the existing Samson Dam and runoff from the catchment between the existing dam and the proposed pipe head dam. This proposal to divert 8 GL/yr (on average) of water from the proposed pipe head dam to the IWSS will substantially reduce the winter flow regime downstream. Mean annual stream flow below the proposed pipe head dam would be reduced from 16.9 GL/yr to 8.9 GL/yr.

Following the implementation of this proposal, Samson Brook below the pipe head dam will experience a reversed flow regime. Higher flows will occur during summer as it delivers irrigation water, and lower flows will occur in winter as the pipe head dam diverts water to the IWSS. Changes to flow regimes in this way have the potential to affect the aquatic ecology of Samson Brook.

The WRC in the Harvey Basin Surface Water Allocation Plan (WRC, 1998) examined, in some detail, the allocation of water within the Harvey Basin for consumptive and other uses. The WRC's objective for regulated tributaries of the Harvey River, including Samson Brook, is for streams to be quarantined from development until Environmental Water Requirements (EWRs) are determined and Environmental Water Provisions (EWPs) have been established for these streams.

The general approach to establishing EWPs within a water allocation context is provided for in WRC's Environmental Water Provisions Policy – Statewide Policy No. 5 (WRC, 2000). WC's intention to proceed with the Samson Brook Redevelopment proposal has triggered the process to determine EWRs and EWPs for Samson Brook consistent with the WRC's policy.

A study of the EWRs for Samson Brook is documented in Streamtec Report ST 02/02 (2002). EWRs were assessed for Samson Brook from the existing Samson Dam to its confluence with the Harvey River (Streamtec, 2002). The EWR study identified key ecological values of the river ecosystem for four sections or 'nodes' and determined their respective monthly water requirements to maintain those values. The monthly flows required for each node are summarised in Table 20 of Streamtec (2002).

The process for establishing EWPs, based in part on the findings of the Samson Brook EWR study, is documented in Appendix 1 of the EPS document (Welker, 2002a). A summary of the EWPs for the four nodes is provided in Table 10 of Appendix 1.

EWRs proposed by Streamtec (2002) for areas immediately upstream and downstream (nodes 1 and 2) of the proposed pipe head dam were translated directly into EWPs by the WRC (Welker, 2002) to maintain the existing ecological values of the brook in the forested upland reaches. The EWPs also includes provision of water for social water requirements (aesthetics, recreational, domestic water consumption and stock watering).

The lower reaches (nodes 3 and 4) are highly modified from the natural state. Node 4 is essentially an artificial drain running through cleared agricultural area for a substantial portion of its length and, therefore, has limited ecological values. Interim EWPs have been proposed for nodes 3 and 4 given the likelihood that water trading and/or changes to the current distribution methods may be introduced in the new future.

The EPA notes there are discrepancies between the interim EWPs and EWRs for nodes 3 and 4 for certain ecological values. The discrepancies are discussed in detail in sections 7 and 8 of Appendix 1 of the EPS. The discrepancies are mainly due to the highly modified (artificial drains) and degraded ecological condition of the lower reaches of the brook and the limited environmental and social benefits of providing substantial flows. However, with restoration these areas could be enhanced. In the absence of a restoration plan the ecological risks of not delivering the full EWRs for nodes 3 and 4 are considered to be low.

The EPA understands that any reduction in summer irrigation flows, associated with water trading and/or changes to the current distribution methods, will require additional EWP evaluation to be undertaken. This is particularly relevant for nodes 2, 3 and 4. Final EWPs would need to be considered in the context of proposed water trading and a restoration plan for the lower reaches. Final EWPs proposed by WC require the approval of the WRC.

The WRC has endorsed the EWP report (Appendix 1 of the EPS). Decisions on EWPs are given legal effect by the WRC through the issuing of a surface water licence under the *Rights in Water and Irrigation Act 1914 (RiWIA)*. The surface water licence would refer to an operating strategy which would specify any rules, conditions, or constraints applying to the use of the water sources. EWPs will be reflected as constraints in the operating strategy and the operating strategy becomes a condition of the water licence.

WC has committed to monitoring the physical, hydrological and biological variables downstream of the pipe head dam to verify any impacts on ecological values and provide feedback into the refinement of EWPs. The monitoring programme will be described in the operating strategy and will be a condition of WRC's allocation licence issued to WC.

Having particular regard for:

- WC's studies to identify the ecological values and EWRs of Samson Brook;
- WRC's water allocation planning process to establish the EWPs to maintain the identified ecological values;
- WRC's assessment and agreement on the proposed EWPs;
- the highly modified and degraded condition of nodes 3 and 4, where in the absence of a restoration plan, the ecological risk of not meeting the full EWRs is considered to be low;
- the proponent's proposed monitoring programme to verify the ecological impacts of the proposal on downstream aquatic ecology; and
- the ability of the WRC to approve and enforce the EWPs through a water licence under the *RiWIA* and refine the EWPs based on the results of WC's monitoring,

it is the EPA's opinion that the environmental values of Samson Brook will not be unduly compromised by this proposal.

# 5. Conclusions

Section 44 of the *Environmental Protection Act 1986* requires the EPA to report to the Minister for the Environment and Heritage on the environmental factors relevant to the proposal and on the conditions and procedures to which the proposal should be subject, if implemented. In addition, the EPA may make recommendations as it sees fit.

The vegetation that will be lost by this proposal has been examined against the EPA's Position Statement No.2 *Environmental Protection of Native Vegetation in Western Australia* which outlines the EPA's expectations for proposals that involve a clearing component. It is the EPA's view that the proposal meets the elements detailed in Section 4.3, "*Clearing in other areas of Western Australia*".

The EPA notes the relatively small area of vegetation to be lost (8.3 ha), and the demonstration in the EPS document that the vegetation complex proposed to be impacted (Helena Complex) is well represented in secure conservation reserves. In addition management plans have been proposed to minimise the risk of further losses and to ensure impacts are confined within the boundaries of the proposal. The WC's proposed environmental mitigation programme provides for the enhancement of the ecological values of the Lot 6, where the proposal will be constructed.

The environmental impacts of diverting 8 GL/yr (on average) from Samson Brook is considered to be acceptable taking into account the WRC's assessment of the EWPs and the ability of the WRC to enforce the EWPs through a water licence under the *RiWIA* and refine the EWPs based on the results of WC's monitoring.

With regard to the potential for the WC to secure additional water through water trading, the EPA is mindful of the provisions of the *RiWIA* and WRC's Environmental Water Provisions Policy (WRC, 2000) that can provide for the consideration of the ecological and social impacts of diverting more water in the future. Accordingly, the EPA has recommended a procedure (Appendix 2) and has provided advice in Section 6 as to how additional water beyond the 8 GL/yr (on average) may be considered. The EPA is satisfied that the abovementioned provides a process whereby the ecological and social acceptability of additional water is considered by WRC and, if required, the proposal to divert the additional water can be referred to the EPA.

## 6. Other advice

The new *RiWIA*, as substantially amended by the *Rights in Water and Irrigation Amendment Act 2000*, provides that entitlements to take water under a licence may be traded. The WRC's Statewide Policy Transferable Water Entitlements for Western Australia establishes a set of principles that guides the WRC in making decisions on applications to trade entitlements. This includes the setting of EWPs to cover the total diversion. All trades require the approval of the WRC. Where unacceptable ecological or social impacts are considered likely to occur as a result of a proposed trade, the WRC will either refuse the application or refer the matter to the EPA for separate assessment.

This proposal is for the diversion of 8 GL/yr (on average) from the Samson Brook to the IWSS. The EPA is aware of the WC's intention to negotiate with the SWIMCo to secure additional water. The water allocated to SWIMCo is currently released from the Samson Dam during the summer period for the purpose of irrigation supply. This flow enters the irrigation channels from Samson Brook downstream of the proposed pipe head dam.

Should a water trading scenario or modified distribution regime be introduced, additional EWP studies would be required to address the implications of reduced flows. The review of the EWPs, which considers social and ecological impacts, will be considered as part of the application for trade.

As there is limited information available regarding environmental and social impacts of taking additional water from Samson Brook during summer, the EPA is not in a position to endorse any water allocation volume above the 8 GL/yr (on average), at this time.

It is the EPA's understanding that the Samson Brook pipe head dam and related infrastructure has the capacity to divert and treat the additional water that WC is seeking to secure. Therefore, no changes would be required to that aspect of the proposal if additional diversion were achieved.

Where the WC negotiates access to the additional water and the WRC has prepared a revised EWP for Samson Brook, the further involvement of the EPA should be consistent with the WRC's EWP Policy and the procedures recommended in Appendix 2.

# 7. Recommendations

The EPA considers that the proponent has demonstrated, in the EPS document, that the proposal can be managed in an environmentally acceptable manner and provides the following recommendations to the Minister for the Environment and Heritage:

- 1. That the Minister notes that the proposal being assessed is for the Samson Brook Redevelopment Scheme, which includes the construction of pipe head dam and related infrastructure and the diversion of 8 GL/yr (on average) of water from Samson Brook to the IWSS.
- 2. That the Minister considers the report on the relevant environmental factors as set out in Section 4.
- 3. That the Minister notes that the EPA has concluded that it is unlikely that the EPA's objectives would be compromised provided there is satisfactory implementation by the proponent of the recommended conditions and proponent commitments as set out in Appendix 2.
- 4. That the Minister imposes the conditions and procedures recommended in Appendix 2 of this report.
- 5. That the Minister notes the Other Advice in Section 6 regarding the potential diversion of any additional water.

### **Appendix 1**

#### References

- EPA (2000) Environmental Protection of Native Vegetation in Western Australia: Clearing of native vegetation with particular reference to the agricultural area, Environmental Protection Authority Position Statement No. 2.
- Welker (2002) Samson Brook Redevelopment Scheme Environmental Protection Statement. Unpublished report prepared for Water Corporation, May 2002.
- Welker (2002a) Samson Brook Redevelopment Scheme Environmental Water Provisions. Unpublished report prepared for Water Corporation, May 2002.
- Streamtec (2002) *Ecological Water Requirements of Samson brook Dam to the Confluence with the Harvey River.* Unpublished Report for the Water Corporation, January 2002.
- Water & Rivers Commission (2000) Environmental Water Provisions Policy for Western Australia. Waters and Rivers Commission, Statewide Policy No. 5.

## Appendix 2

**Recommended Environmental Conditions** 

and Proponent's Commitments

### RECOMMENDED CONDITIONS AND PROCEDURES

### STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

#### SAMSON BROOK REDEVELOPMENT SCHEME EAST OF THE TOWN OF WAROONA

- **Proposal:** The construction and operation of a pipe-head dam, water treatment plant and 12 kilometre water pipeline from the pipe-head dam to the Stirling Trunk Main in order to utilise water from Samson Brook for the Integrated Water Supply System, as documented in schedule 1 of this statement.
- Proponent: Water Corporation
- **Proponent Address**: 629 Newcastle St, LEEDERVILLE WA 6007

Assessment Number: 1441

#### Report of the Environmental Protection Authority: Bulletin 1055

The proposal referred to above may be implemented subject to the following conditions and procedures:

#### Procedural conditions

#### **1** Implementation and Changes

- 1-1 The proponent shall implement the proposal as documented in schedule 1 of this statement subject to the conditions of this statement.
- 1-2 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, is substantial, the proponent shall refer the matter to the Environmental Protection Authority.
- 1-3 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment and Heritage determines, on advice of the Environmental Protection Authority, is not substantial, the proponent may implement those changes upon receipt of written advice.

### 2 **Proponent Commitments**

- 2-1 The proponent shall implement the environmental management commitments documented in schedule 2 of this statement.
- 2-2 The proponent shall implement subsequent environmental management commitments which the proponent makes as part of the fulfilment of the conditions in this statement.

### **3 Proponent Nomination and Contact Details**

- 3-1 The proponent for the time being nominated by the Minister for the Environment and Heritage under section 38(6) or (7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal until such time as the Minister for the Environment and Heritage has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal.
- 3-2 If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent and provide a letter with a copy of this statement endorsed by the proposed replacement proponent that the proposal will be carried out in accordance with this statement. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided.
- 3-3 The nominated proponent shall notify the Department of Environmental Protection of any change of contact name and address within 60 days of such change.

### 4 Commencement and Time Limit of Approval

4-1 The proponent shall provide evidence to the Minister for the Environment and Heritage within five years of the date of this statement that the proposal has been substantially commenced or the approval granted in this statement shall lapse and be void.

Note: The Minister for the Environment and Heritage will determine any dispute as to whether the proposal has been substantially commenced.

4-2 The proponent shall make application for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement to the Minister for the Environment and Heritage, prior to the expiration of the five-year period referred to in condition 4-1.

The application shall demonstrate that:

- the environmental factors of the proposal have not changed significantly;
- new, significant, environmental issues have not arisen; and
- all relevant government authorities have been consulted.
- Note: The Minister for the Environment and Heritage may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.

#### Environmental conditions

### 5 Compliance Audit and Performance Review

- 5-1 The proponent shall prepare an audit program in consultation with and submit compliance reports to the Department of Environmental Protection which address:
  - the implementation of the proposal as defined in schedule 1 of this statement;
  - evidence of compliance with the conditions and commitments; and
  - the performance of the environmental management plans and programs.

Note: Under sections 48(1) and 47(2) of the Environmental Protection Act 1986, the Chief Executive Officer of the Department of Environmental Protection is empowered to audit the compliance of the proponent with the statement and should the compliance documentation, including directly receive environmental management plans, related to the conditions, procedures and commitments contained in this statement. Usually, the Department of Environmental Protection prepares an audit table which can be utilised by the proponent, if required, to prepare an audit program to ensure that the proposal is implemented as required. The Chief Executive Officer is responsible for the preparation of written advice to the proponent, which is signed off by either the Minister or, under an endorsed condition clearance process, a delegate within the Environmental Protection Authority or the Department of Environmental Protection that the requirements have been met.

- 5-2 The proponent shall submit a performance review report every five years after the start of operations phase to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority, which addresses:
  - the major environmental issues associated with the project; the targets for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those targets;
  - the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable;
  - significant improvements gained in environmental management, including the use of external peer reviews;
  - stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and
  - the proposed environmental targets over the next five years, including improvements in technology and management processes.

### Procedures

- 1 Where a condition states "to the requirements of the Minister for the Environment and Heritage on advice of the Environmental Protection Authority", the Chief Executive Officer of the Department of Environmental Protection will obtain that advice for the preparation of written advice to the proponent.
- 2 The Environmental Protection Authority may seek advice from other agencies, as required, in order to provide its advice to the Chief Executive Officer of the Department of Environmental Protection.
- 3 The Water and Rivers Commission will ensure that the proponent releases sufficient water to meet the Environmental Water Provisions of Samson Brook through the licence required to divert water from Samson Brook.
- 4 Additional water beyond the 8 Gigalitres of water per year (on average) referred to in schedule 1, may be transferred to the Integrated Water Supply Scheme subject to the following:
  - undertaking further Environmental Water Provision studies of Samson Brook beyond the pipe-head dam;
  - demonstrating the environmental acceptability of transferring additional water;
  - meeting the requirements of the Water and Rivers Commission; and
  - advice from the Environmental Protection Authority to the Minister for the Environment and Heritage.

#### Notes

1 The Minister for the Environment and Heritage will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environmental Protection over the fulfilment of the requirements of the conditions.

### Schedule 1

### The Proposal (Assessment No. 1441)

The proposal is to construct and operate a new pipe-head dam, water treatment plant and a 12.9 kilometre water pipeline from the pipe head dam to the Stirling Trunk Main in order to utilise water from Samson Brook for the Integrated Water Supply System, as specified in the key proposal characteristics table below.

The location of the Samson Brook Redevelopment Scheme is shown in Figure 1 (attached).

The key characteristics of the proposal are summarised in Table 1 below.

### Table 1: Summary of key proposal characteristics

### Key characteristics of the proposal

Characteristic	Pipe head 150 m site		
Diversion of water from Samson Brook	8 giga litres a year on average (diverted in accordance with the Operating Strategy as approved by the Water and Rivers Commission).		
	Variable, subject to meeting the requirements of Procedure 4.		
Pipe head dam			
Wall height (metres)	20		
Location (kilometres from South Western	Approximately 4.3.		
Highway)			
Description	Concrete gravity dam.		
Width of Spillway	60 metres wide.		
Top water level (metres AHD)	147.5		
Storage volume (million litres)	300		
Offtake	Piped		
Vegetation disturbance (hectares)	Approximately 7 by inundation and construction of the pipe head. Approximately 7.3 of dieback-free vegetation potentially impacted by construction.		
Access roads	Approximately 600 metres of riparian vegetation will be inundated.		
Length (kilometres)	Temporary access road to pipe head: approx 2.6.		
	Permanent access road to pipe head: approx 2.6.		
	Permanent access road to pipe head, approx 4.5. Permanent access road to water treatment facility: approx 1.6.		
Width of disturbance (metres)	Temporary access track 7.		
Vegetation disturbance (hectares)	Temporary access road 0.9, minimal disturbance by permanent		
	access road.		
Pipeline			
Length (kilometres)	12.9		
Diameter (metres)	0.9 – 1.0		
Capacity (million litres per day)	125		
Route	Along permanent access track on Lot 6, through cleared agricultural land, crossing Samson Brook and South West Highway. Along James Rd, Fawcett Rd and then Buller Rd, crossing South West Railway on James Rd. (See Figure 1).		
Width of disturbance (metres)	10 –25 approx. 10 in areas of native vegetation.		
Vegetation disturbance (hectares)	Approximately 0.6 in forested areas on Lot 6.		
	Approximately 0.65 to the west of South West Highway.		
Water treatment plant			
Description	Chemical dosing plant – chlorination, fluoridation and stabilisation.		
Area disturbed (hectares)	1.5		
Vegetation disturbance	Cleared agricultural land.		
Environmental Mitigation /Benefits			
Rehabilitation (hectares)	A total of 16.5, comprising:		
	6 outside the riparian zone;		
	• 1 of riparian and other vegetation;		
	7.3 of dieback-free vegetation potentially impacted by construction;		
	<ul> <li>0.65 of vegetation impacted by pipeline construction; and</li> <li>1.5 contingency.</li> </ul>		
Conservation Covenant	Introduction of a conservation covenant on part of the Samson Brook catchment on Lot 6 to protect ecological values.		
Mature Trees	Replacement of mature individual trees removed on the pipeline route with 2 juvenile trees of the same species.		
Fencing	Repairing, or where necessary replacing fencing around Lot 6.		
Feral Animal Control	The implementation of a feral animal control program in co- operation with Department of Conservation and Land Management.		
Nesting Boxes	Installation of cockatoo nesting boxes on Lot 6.		
Recreation	Development of a Recreation and Tourism Master Plan for the Waroona area.		

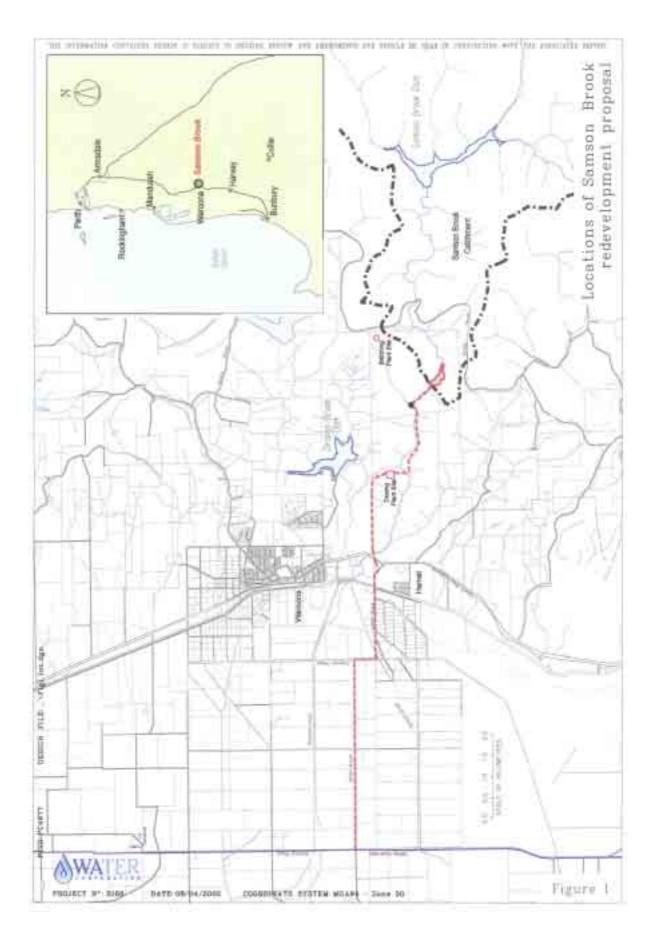


Figure 1: Location of Samson Brook Redevelopment Scheme

Schedule 2

# **Proponent's Environmental Management Commitments**

28 May 2002

# SAMSON BROOK REDEVELOPMENT SCHEME

(Assessment No. 1441)

Water Corporation

# Table 1:Environmental Management Commitments – Samson Brook<br/>Redevelopment Scheme (Assessment No. 1441)

No	Торіс	Action	Objective	Timing	Advice
1       Construction Environmental Management       Prepare a Construction Environmental Management         Programme       Programme which addresses the following:         Image: Programme       Flora, weed and dieback management;         Image: Programme       Declared Rare and Priority Flora species Survey;         Image: Programme       Declared Rare and Priority Flora Protection (if required);         Image: Programme       Faunal Management;         Image: Programme       Declared Rare and Priority Flora Protection (if required);         Image: Programme       Faunal Management;         Image: Programme       Declared Rare and Priority Flora Protection (if required);         Image: Programme       Faunal Management;         Image: Programme       Declared Rare and Priority Flora Protection (if required);         Image: Programme       Faunal Management;         Image: Programme       Dust Management;         Image: Programme       Noise and Vibration Management including monitoring of blast noise from pipeline and dam construction;         Image: Programme       Construction of coffer dams above and below the construction site;         Image: Protection of Aboriginal Heritage Sites (see commitment 5)       Traffic Management; and			To minimise the potential for environmental impacts resulting from construction	Prior to construction	Shire of Waroona WRC CALM
2	CEMP	Implement the measures in the CEMP	Achieve the objectives of Commitment 1	During the construction of the pipehead dam and the pipeline	Shire of Waroona WRC CALM
3	Environmental Mitigation Programme (EMP)	<ul> <li>Prepare an Environmental Mitigation Programme which addresses the following:</li> <li>Lodgement of a conservation covenant on catchment of Samson Brook within Lot 6;</li> <li>Rehabilitation of an equivalent area impacted by inundation, potential dieback infection and construction access track;</li> <li>Rehabilitation of riparian vegetation on Lot 6;</li> <li>Rehabilitation of an equivalent area as cleared during the construction of the pipeline;</li> <li>Development of rehabilitation completion criteria;</li> <li>Monitoring against agreed completion criteria;</li> <li>Assist in the removal of weed tree species and transplant grass trees as necessary;</li> <li>Compensate for the removal of mature trees during pipeline construction by planting two juvenile trees for each mature tree removed;</li> <li>Repair, and if required replace, fencing around Lot 6;</li> <li>Erection of cockatoo nesting boxes on Lot 6; and</li> <li>Involvement in CALM feral animal control program.</li> </ul>	Mitigate the permanent environmental impacts of the Redevelopment	Prior to construction	CALM Harvey Restoration Trust Harvey Land Conservation District Committee Landowners
4	EMP	Implement the measures in the EMP	Achieve the objectives of Commitment 3	During and after the construction period as required	CALM Harvey Restoration Trust Harvey Land Conservation District Committee Landowners
5	Aboriginal Heritage Site Management Plan (AHSMP)	<ul> <li>Prepare an Aboriginal Heritage Site Management Plan which includes the following measures:</li> <li>A detailed Aboriginal heritage survey over the Samson Brook redevelopment area;</li> <li>Significant Site Management Plan if sites of importance are located in consultation with the local Aboriginal community; and</li> <li>Consultation with the local Aboriginal community.</li> </ul>	To protect Aboriginal Heritage Sites and address heritage issues	Prior to construction	Department of Indigenous Affairs Local Aboriginal Groups
6	AHSMP	Implement the measures in the ASHMP	Achieve the objectives of Commitment 5	Before and during the construction period	Department of Indigenous Affairs Local Aboriginal Groups

Appendix 3

Issues raised during the community consultation programme and the proponent's responses

# ISSUES RAISED DURING COMMUNITY CONSULTATION AND PROPONENT RESPONSES

Stakeholder	Issue raised	Response
General Waroona community	Water for future needs in the local community.	The Water and Rivers Commission is responsible for the sustainable allocation of the State's water resources. As part of the allocation process, the Commission takes into consideration environmental water provisions, local needs and future development needs in the area.
		At the community open evening on the 22 <sup>nd</sup> January 2002, representatives from WRC and SWI made presentations on allocation issues from a regulatory and irrigators perspective.
	Waroona is paying for the inefficient use of water in Perth.	The Water Corporation has a program aimed at increasing the efficiency of water use in metropolitan homes and long term targets for reduced per capita consumption. The city is growing; therefore it follows that it will need more water, even if water use efficiency is improved.
	Alternative sources:	
	Kimberley	It is not a cost-effective solution to providing water – it would cost between \$10 and \$15 billion or \$5 per kL.
	Murray River	The water from the Murray is not good quality potable water.
	Woodman Point	The water that is disposed to sea at Woodman Point is treated wastewater, which is unsuitable for potable supply. The Corporation is, however, pursuing projects relating to the industrial use of this water. Reuse of treated wastewater (for compatible uses) is strongly supported by the Corporation. In the South West Region, these uses include irrigation of golf courses and woodlots.
	Pipeline – reinstatement of land.	Full rehabilitation of disturbed areas and landowners can subsequently use the land for above surface activity.
	Pipeline - Landcare measures during construction.	There will be ongoing consultation with landowners and landcare groups.
	Redevelopment of Samson alone won't solve the problems in Perth, especially if the drought continues.	Redevelopment of Samson is only one aspect of the Water Corporation's drought response strategy.

Stakeholder	Issue raised	Response
	Trout fishing and marroning after redevelopment.	Fishing and marroning will be prohibited in the area upstream of the new pipe head dam. Mitigation measures have been suggested in the Water Source Protection Plan for Samson Brook catchment.
		Trout fishing downstream of the proposed pipe head dam will not be impacted by the Water Source Protection Plan. Access to the brook in this vicinity will be subject to landowner consent (as per the current situation).
	Munda Biddi mountain bike trail – Waroona Loop.	The trail will still be constructed, but provisions should be made so that there is no access to the water.
	Public access to the wall of the main Samson Dam for recreation.	Access to the wall of the main dam will not be permitted. The presence of people in the vicinity of the reservoir presents a water quality risk due to the absence of public toilet facilities.
	Protection of the Waroona Town Water Supply during construction of the proposed pipe head dam & associated works.	The off take for the Waroona and Hamel Town Water Supply will be relocated. A temporary cofferdam will be established upstream of the construction site.
	People with "local knowledge" working on proposal.	Regional staff from government agencies are involved. Local businesses can potentially become involved in the developmental stages.
	Local membership of Stakeholder Liaison Group	The membership of this group was necessarily wide, and included 7 local representatives (Mr Kevin O'Connor, Cr Kris Annane/Cr Hull, Mr Vernon Pitter, Ms Sharon Piscioneri, Mr Joe Walley, Mr Doug Perrett, Ms Kim Wilson).
	Water quality and analysis	The Water Corporation is required to carry out water quality monitoring as a part of their operating licence. Additionally, SWIMCo is in its second year of an intensive water quality monitoring program and Alcoa also have a water quality monitoring program in the catchment.
	Radioactive emissions from Alcoa getting into water supply.	Water Corporation monitoring results indicate that radioactive elements and heavy metals in the water at Samson Brook are well below drinking water guideline values and do not represent a hazard to public health.
	Alcoa's rehabilitation practices. Newly planted forest uses more water than mature forest.	This issue has been referred to the Mine Management Planning Liaison Group for discussion at their next meeting (scheduled for October 2002).
		Attendees of the May community evening were offered the opportunity to attend a tour of Alcoa's Willowdale mining and rehabilitation operation in the Samson Brook catchment.
	Dam type.	The dam will be a concrete gravity dam.

Stakeholder	Issue raised	Response
	Damage to the newly restored Buller Road.	There would be three pipeline crossings only, so three scars left by the pipeline.
	Dust from heavy vehicle movements along Buller & James Rd during pipeline construction.	Dust is not anticipated to be a problem along these roads. They are sealed roads and there is thus very little potential for dust generation due to heavy vehicle movements. The Corporation will work closely with landowners, and will take necessary measures to ensure that dust is managed appropriately. If required, water tankers will be brought in to water the roads.
	Noisy scrub birds.	The fauna survey of the property where the dam will be located stated that the site is not suitable habitat for the Noisy Scrub-bird because there is not enough dense vegetation (Hart Simpson & Associates, 2001).
	Noisy scrub birds – impact of blasting	It is not expected that any blasting at the site will impact on the Noisy scrub bird. Most native birds can adapt to an increase in noise. Alcoa's mining operations, which include blasting, have been carried out in proximity to Noisy Scrub Bird release sites, with the birds persisting in the area (Hart, R and Dunks. A. 2002, pers. comm. 27 June).
EPA	Dam site with FSL at 180 m AHD is above Seymour Falls.	This site was not investigated further
Alcoa World Alumina, Australia	Applications for water allocation by industry or agriculture are unlikely to be successful if they are against the people's water supply.	Water is allocated by the Water and Rivers Commission – the Water Corporation does not make these decisions.
	Alcoa has Surface Water Licenses for the Wagerup Refinery in the Samson Brook South Drain	The Water and Rivers Commission have advised that the majority of the Wagerup refinery allocation is sourced from Black Tom Brook and the unnamed tributary immediately north of this and therefore is not impacted by the Samson Brook Redevelopment Proposal.
		Alcoa's allocation from the Samson South Drain expires prior to implementation of the Samson Brook Redevelopment Proposal, and Alcoa have advised that this allocation is not at issue here.
	Alcoa's Surface Water Operating Strategy documents the need to maintain flows down Samson North Drain to meet EWRs for the section of the Samson North drain below Alcoa's property to the Harvey River.	EWRs for the Samson North Drain, developed by Streamtec 2001, have been taken into consideration in the development of EWPs between the Samson Dam and the Harvey River. The EWRs that were identified in 2001, and are referred to in Alcoa's Surface Water Operating Strategy, will be replaced by the EWPs in this document.
Conservation Council of WA	Conservation Covenant for Lot 6.	The Water Corporation will address this after the land transfer is finalised.

Stakeholder	Issue raised	Response
	Fauna access around inundation area. Riparian corridor for bandicoot migration.	Although no definite evidence was found that the Southern Brown Bandicoot is still present along Samson Brook, it may well still occur nearby and could be present at times in small numbers.
		The strip of dense vegetation along the brook is very narrow and is not continuous. It never exceeds 20 m and probably averages only 5 m. In total the habitat quality is only moderate.
	Orchids were not flowering during December flora survey.	Noted. An additional flora survey will be taken prior to construction.
	Revegetation demonstration area along McKnoe and Drakes Brook for dairy farmers.	Raised as part of the Environmental Water Provisions Desired Future State process. There is potential for the Harvey River Restoration Trust funds to be used in this area.
	Impact on vegetation of dam further upstream.	This impact would be both from the pipeline construction, dam construction site and access roads, and have been taken into consideration when reaching the preferred dam site option.
Crossing the Boundaries	Money spent for a week's worth of water for Perth – cultural change in water use needed.	The Water Corporation has a program aimed at increasing the efficiency of water use in metropolitan homes already. Developing water sources does cost a lot of money.
	Mitigation: fencing Samson Brook to protect vegetation.	Raised as part of the Environmental Water Provisions Desired Future State process. There is potential for the Harvey River Restoration Trust funds to be used in this area.
	Environmental impacts of pipeline and dam should be considered equally.	They have both been considered and will be addressed.
	Pipeline route and disturbance of vegetation.	Design of route has minimised vegetation disturbance. Disturbed areas will be rehabilitated.
		Water Corporation walked the route of the pipeline along Buller Road with Crossing the Boundaries (on behalf landcare community) to identify route of least impact to roadside vegetation. Mitigation package includes translocating grass trees impacted by pipeline construction.
	Scarp Road closure.	Scarp Road will not be closed. Measures will be taken to prevent contamination of Samson Brook by activity along Scarp Road.
	Jarrah forest recreational value.	Recreation in Samson Brook catchment will be prohibited (except along the Munda Biddi Trail), but there are no plans to develop Drakes Brook Dam or Waroona Dam for supply. Scarp Road will remain open and provides for a scenic drive.

Stakeholder	Issue raised	Response
	Tapping into new supply by landowners.	The Corporation held a meeting of landowners potentially impacted by the pipeline route on 17 <sup>th</sup> December 2001. Indicative costs for connection to a poly pipe water supply were provided to meeting attendees, and the forum was used to gauge the level of interest amongst landowners in connecting to such a water supply.
		Whilst the Corporation has not yet reached a final determination on this issue, it is likely that a poly pipe (water supply) will be provided along the James Rd section of the pipeline route.
		It was noted that a year-round supply could not be guaranteed, even if a poly pipe were to be provided.
	Community unfamiliar with EPS process.	There has been regular community consultation to familiarise the community with the EPS process.
Shire of Waroona	Quality of road reinstatement along Buller Road.	The pipeline alignment minimises road disturbance such that only three crossings are necessary.
	<ul><li>Mitigation measures:</li><li>Tourism Recreation Plan for Waroona.</li><li>Survey and gazette Scarp Road.</li></ul>	The Corporation has considered the potential mitigation measures raised during the consultation process and has committed to the development of a recreation plan for the Waroona/Drakes brook system.
	Effect of SWIMCo's piped irrigation system on ecology.	Addressed via compliance requirement for the Environmental Water Provisions.
	The Samson Brook Redevelopment Scheme is just a bandaid.	The Samson Brook scheme is not designed to be a bandaid, but a component of the integrated supply system. Previously, development was timetabled for 2007, although this has been brought forward, as one part of the drought response program.
Health Department of WA	Flow rates and holding times of reservoir.	Will be addressed in the Water Corporation Operating Strategy.
	Barriers to pollution in the system.	Will be addressed in the Water Corporation Operating Strategy.
Recfishwest	Secondary treatment in the future.	Allowance has been made for a water treatment plant in the design.

Stakeholder	Issue raised	Response	
	Mitigation measures at Harvey are not being implemented. Concern that this will happen at Samson.	<ul> <li>The Corporation has committed to contribute to the development of a recreation plan, which will identify opportunities for enhancement of recreational facilities outside of the Samson Brook catchment area. Funding and responsibilities for implementation of enhanced recreation facilities will be formalised in a "Memorandum of Understanding" between the Shire of Waroona and the Water Corporation.</li> <li>The Corporation's project manager has been involved in the stakeholder consultation process for:</li> <li>Environmental impact assessment;</li> <li>Determination of Environmental Water Provisions; and</li> <li>Water Source Protection Planning.</li> <li>This has ensured that the project team is familiar with the issues &amp; concerns associated with each process, the mitigation measures agreed, and the Corporation's responsibility to deliver mitigation measures.</li> </ul>	
Aboriginal community	Safeguard rivers for future generations.	Determination of the Environmental Water Provisions for the system ensures that the ecological, social and economic values are addressed.	
Stakeholder Liaison Group	Unnatural flows down Samson Brook.	Flows during summer would be mitigation flows to compensate for the sedimented pools.	
	Upstream and downstream fish populations.	These populations are genetically distinct.	
SWIC	Waroona Dam - other groups (not only SWI) should be recognised as beneficiaries of dam safety works	Relates to dam safety remedial works and these negotiations are considered separately.	
Department of Fisheries, Recfishwest and the WA Trout and Freshwater Fishing Association	Concern that the Water Corporation is gradually encroaching on all of their fishing resources.	Consultation of offset package.	
	<ul> <li>Loss of recreational fishing and marroning amenity. Offsets:</li> <li>Destocking marron in drinking water supply dams.</li> <li>Limit trout and marron season to the time when the least demand is placed on Samson Dam for drinking water supply.</li> <li>Fish grid on spillway at Drakes Brook Weir to prevent fish going over the spillway.</li> <li>Fund the cost of stocking trout in available dams in Waroona/Harvey area.</li> <li>Construct habitat enhancement at Waroona Dam.</li> </ul>	These issues have been acknowledged in the Water Source Protection Plan for Samson Brook catchment. Suggestions for offsets have been made in this WSPP. The Water Corporation is waiting for fish grid designs from the Fisheries Department. This will be considered in the context of dam safety.	

Stakeholder	Issue raised	Response
	Risk of contamination from fishing vs Alcoa's mining activity.	Alcoa has an undertaking with the State Government to protect water resources in all of the catchment areas in which it operates, or has operated. Therefore, mining in this catchment is a managed risk.
General Waroona Community/ Shire of Waroona.	Spraying of weeds on the dam property.	The Declared plants have been identified and should it be that the Water Corporation include the Corvaia property in the redevelopment, we will ensure that management of Gomphocarpus fruticosus and Solanum linnaenum is carried out according to the provisions of the Agriculture and Related Resources Protection Act
	Concern that allocation for irrigation will be lost.	The Water Corporation's proposal does not impact on SWIC's licensed allocation. The project will create opportunities for water allocations licences to be traded. The water allocation and trading process is managed by the Water and Rivers Commission, and any trading of licences is a consultative process where both parties must agree.
	Supply to Waroona change as a result of redevelopment.	The offtake will move to the new pipe head dam location. The amount of water allocated to the Waroona Town Water Supply Scheme will remain unchanged. The water will receive the same treatment at the same location as the Perth water.
	Same level of water restrictions for Waroona as Perth when Samson goes on line.	A capacity sharing model (like that used for Harris) will be used, where water is reserved for local needs. The town be subject to water restrictions only if Waroona water use approaches or exceeds its allocation.
General Waroona Community/ Crossing the Boundaries	Repair of Waroona Dam.	This is in the process of being repaired. It was drained because an investigation of lower parts of the dam was required. It is scheduled to be repaired in October 2002. Community impacts will be assessed and offsets will be developed.
	Waroona community respects Samson Brook and acts to ensure the water quality. Contamination by non community members. Apparent inconsistency in permitted catchment uses between country water supply catchments and metropolitan water supply catchments.	Currently the catchment is gazetted under the Country Areas Water Supply Act, 1914, which prohibits pollution, but does not specifically exclude fishing from the catchment. Fishing and marroning activities do pose a risk to water quality, and are prohibited under the Metropolitan Water Supply, Sewerage and Drainage Act, 1947.
Conservation Council of WA/ Crossing the Boundaries	Loss of significant vegetation on McClure Road by pipeline disturbance.	The preferred route is to the north, so there will be no disturbance to this vegetation.

Stakeholder	Issue raised	Response
Crossing the Boundaries/ Recfishwest.	New Pipe head dam would intercept fallen leaves, therefore carbon transport downstream. The north-eastern tributary is important to downstream ecology and should not be captured by the dam.	The importance of carbon transport is recognised. To allow this to still occur to some extent, the dam will be situated upstream of the north-eastern tributary.
	Fishladders.	There is no need for a fishladder at the new pipe head dam. This is because the upstream and downstream fish populations are genetically distinct as obstacles in Samson Brook prevent fish migration.
Alcoa World Alumina, Australia/ Health Department of WA	The impact of this development on the Peel Harvey Estuary is not covered in the EWR.	The impact is discussed in the Environmental Protection Statement. Flows into the Peel Harvey will not be altered from the pre-European flow regime. Additionally, whilst diversion of this "hills water" reduces the volume of high quality water flowing through to the Peel-Harvey Estuary, reduction of flow through the drainage channels of the Swan Coastal Plain increases the opportunity for on-site metabolism of nutrients sourced from agricultural land- uses.
Alcoa World Alumina, Australia/ Shire of Waroona	Resource will become inaccessible for future development.	Other resources such as Drakes Brook and Waroona Dams are not planned for water supply, so will still be accessible.

### Department of Fire and Emergency Services Report for the Shire of Murray/Waroona Local Emergency Management Committee

### Monday 8<sup>th</sup> August 2022

#### **STORM SEASON 2022**

Thanks to all the volunteers who assisted during the storm event during the week of 1<sup>st</sup> August 2022. There were 35 Requests for Assistance (RFA) in the DFES Southwest Region, most of which were for minor damage.

### EXERCISES

DFES held two local regional exercises in the past month, being a bushfire exercise in West Dardanup and a flood exercise in Collie and along the Collie River. Both exercises included local government and agency involvement in the operational aspects of the exercise and during Incident Support Group meetings which were held for both exercises. The South West District Emergency Management Advisor provided agency representatives with training on the ISG meetings as part of the exercise.

The State bushfire exercise is planned to be held at the Bushfire Centre of Excellence over the week of 12<sup>th</sup> September with the four State preformed bushfire teams participating during that week.

### WA FIRE AND EMERGENCY SERVICES CONFERENCE 2022

The 11th annual WA Fire and Emergency Services (WAFES) Conference will be held on Friday 9<sup>th</sup> and Saturday 10<sup>th</sup> September 2022 at Crown Perth. The WAFES Awards gala dinner will again round out the program on Saturday evening.

### AUSTRALIAN FIRE DANGER RATING SYSTEM (AFDRS)

The Australian Fire Danger Rating System (AFDRS) will go live on Thursday 1<sup>st</sup> September 2022 and has been developed using the latest science to be more accurate and relevant to where you live. The AFDRS will have four levels (instead of six) – Moderate, High, Extreme and Catastrophic – bringing national consistency to the public display of ratings.

You will start seeing the new Fire Danger Ratings online and in your local community from 1<sup>st</sup> September 2022 through an extensive community engagement and education campaign.

#### **CLIMATE OUTLOOK**

BOM have released their latest climate outlook for August to October 2022 (issued 28<sup>th</sup> July) which is available at http://www.bom.gov.au/climate/outlooks/#/overview/summary.

• August to October rainfall is likely to be above median for most of Australia, but below median for western Tasmania and an area of south-western WA.

- August to October maximum temperatures are likely to be above median for the tropics, parts of the west and far south-east, but below median for parts of the east and southern interior encompassing most of South Australia.
- Minimum temperatures for August to October are likely to be above median nationwide.
- The negative Indian Ocean Dipole event, warmer than average waters around northern Australia, and a neutral to cool phase of the El Niño–Southern Oscillation are likely to be influencing this outlook.

### John Carter & Brett Finlay District Officers DFES South West region



## LOCAL EMERGENCY MANAGEMENT COMMITTEE REPORT – SHIRE OF MURRAY/WAROONA

Agency: Department of Communities (DC)

Date: 08.08.22

Incident Support Group Activation (ISG): NIL

Date	Type of Incident	Location of Incident	Resources & Agencies Involved	Comments/Outcomes

<u>LE</u>	MC/Agency Update
ALL	HAZARDS
1.	<ul> <li>Department of Communities (Communities) Emergency Services – All Hazards has continued to be very busy</li> <li>In the first quarter DC had multiple activations across the state with flooding, several cyclones in Kimberley and Pilbara regions and multiple and concurrent bushfires throughout the Great Southern, Southwest, Wheatbelt and Goldfields along with a number in the metro area – at one stage all SDESO'/ERT and Equipment Trailers had been deployed to the regions with the department also activating its Surge Workforce. Recently all three of SDESO's were deployed to the Kimberley's to undertake regional and remote COVID tasking over March and April (local staff had been inundated with welfare requests) – we were providing personal support and undertaking hardships assessments including triaging; food shops/click &amp; collect ordering &amp; personal requisites; delivering; sourcing and placing people into accommodation; providing people with alternative funding and supports options etc.</li> <li>One of the biggest challenges was the significant overcrowding and homelessness issues and unless there was a critical clinical/medical reason many had to remain in situ &amp; when we did place them into accommodation many of the cohorts would abscond anyway as they didn't have access to</li> </ul>
	<ul> <li>SDESO's were then based at Fremantle in accordance with the Business Continuity Plan where 90% of staff were redirected to provide Regional/Remote response and using the SDESO's on the ground knowledge of issues providing support to staff who were in the Call Centres and entering the historical data gathered during our deployments onto our computer system SHARPiE.</li> <li>All Hazards have continued to provide BAU when a community requires evacuation centres and providing ongoing outreach and recovery activities for Wooroloo Bushfire &amp; Cyclone Seroja.</li> </ul>
2.	Communities received an interjurisdictional request for support to New South Wales (NSW) in their recovery effort for their significant flooding events earlier in the year. Two teams of 5 people were deployed for a two-week tour. The two tour dates were the 8 <sup>h</sup> May 2022 to the 21 <sup>st</sup> May 2022 and the 22 <sup>nd</sup> May 2022 to 4 <sup>th</sup> June 2022.
3.	The DC Local Emergency Welfare Plan for the Peel region, which includes Shire of Murray/Waroona is a fluid document – a full review is currently underway, and the updated version will be forwarded for comment in the coming weeks

- 4. Due to the current COVID situation Evacuation Centre Training has been modified and will be conducted with reduced numbers or in larger rooms. The next session will be offered in Kwinana on 17 August 2022
- 5. Over the last 6 12 months Communities has been working at increasing its emergency equipment in metropolitan and regional areas to assist with our emergency response requirements
  - Purchased an additional 3 emergency welfare response trailers for metropolitan area.
  - Currently moving towards transition our emergency services fleet vehicles to your typical emergency response vehicles, which will allow a greater response capability
  - The trailers and the vehicles will assist Communities to provide a quick response and establish the welfare centre in an expedited manner.
- 6. COVID 19 Evacuation Centre Guidelines current copy sent to Local Governments/LEMC's in January 2022. should evacuation centres need to be opened in the current climate an additional question has been added to the screening questions to be asked. We need to be particularly aware of members of the community who may present at evacuation centres and may answer yes to any of the questions, be in quarantine, self-isolating or in lock down.

Report prepared by Terry Sillitto Senior District Emergency Services Officer Department of Communities

08 August 2022

### SHIRE OF MURRAY-WAROONA LOCAL EMERGNCY MANAGEMENT COMMITTEE DISTRICT EMERGENCY MANAGEMENT ADVISOR REPORT 8 AUGUST 2022

### STATE NEWS

### STATE CONSULTATION REQUESTS

There are several plans that are scheduled for consultation in the second half of this year:

- State Hazard Plan Severe Weather
- State Emergency Management Roles and Responsibilities Review
- Funding in Emergencies Arrangements

To give feedback on the above plans, visit the <u>State Emergency Management Consultation</u> page, find the relevant consultation tile and select 'Get Involved'.

### DISTRICT NEWS

# 2022 METROPOLITAN DISTRICT EMERGENCY MANAGEMENT COMMITTEES (DEMC)

The next round of District Emergency Management Committee (DEMC) meetings and district exercise are scheduled for:

- Tuesday 18 October South DEMC (East and South DEMC)
- Thursday 20 October North DEMC (Central and North)

The DEMC meetings will be Chaired by the metropolitan WA Police Force Commanders. The theme of the meeting will be Climate Change. Agencies and local government will be required to provide a strategic update on what your agency or local government is doing to support the 2020 Western Australian Climate Change Policy.

The discussion exercise will take place after the meeting and address core capabilities of the State Emergency Management Capability Framework and explore preparedness for the hazard of severe weather (cyclone).

### DISTRICT EMERGENCY MANAGEMENT COMMITTEE MEMBERS HANDBOOK

A DEMC Members Handbook has been developed by the DEMC Executive Officers (also the DFES District Emergency Management Advisor's) as an attachment to the State Emergency Management Procedure 3.6 *District Emergency Management.* This handbook is an important reference for members of the District Emergency Management Committee. The DEMC Members Handbook has been tabled at each District Emergency Management Committee in the State prior to being submitted to SEMC for approval. SEMC approval will be sought at the 4 August 2022 meeting.





### LOCAL EMERGENCY MANAGEMENT ARRANGEMENTS (LEMA) REVIEW

In late 2019 SEMC approved a sector-led review of Local Emergency Management Arrangements (LEMA) requirements and responsibilities. SEMC and the WA Local Government Association (WALGA) have engaged Project Leads who will work together with key stakeholders to identify issues with LEMA and investigate and develop options for streamlining the process. The LEMA review aims to:

- develop fit for purpose and adaptive local level emergency arrangements
- streamline LEMA processes
- encourage currency

The review consists of the following key activities:

- consultation and engagement with key stakeholders to obtain feedback on LEMA
- prepare a draft consultation and recommendations report, based on feedback.
- pilot projects or exercises to test new LEMA approaches.
- produce a LEMA Improvement Plan including an implementation plan.

As the LEMA review is not due until mid-2023, if your Local Government's LEMA is scheduled for review before this date, it is recommended to proceed as planned so your obligations under the EM Act are maintained.

Feedback and questions can be sent to LEMAreview@dfes.wa.gov.au.

### 2022 SEMC MEETING SCHEDULE

• 13 October 2022

• 1 December 2022

Complied by: District Emergency Management Advisor Metropolitan Operations Department of Fire and Emergency Services

