

EPBC 2022/09438

Morgan Whyalla Pipeline No. 1 Renewal - Stage 1, SA

Annual Compliance Report

1 November 2024 – 31 October 2025

Version: 1.0

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South Australia**

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Distribution

Role / Department / Organisation	Name
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SA Waters, WaterTalks Project Page Morgan Whyalla pipeline renewal SA Water	NA

Declaration of Accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Name	Role	Signature	Organisation	Date
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Glossary

The following glossary items are used in this document:

Term	Description
AAA	Approved Action Area
ACR	Annual Compliance Report
CEMP	Contractors Environmental Management Plan
EPBC	Environment Protection and Biodiversity Conservation
MBC	Mallee Bird Threatened Ecological Community
PEMP	Project Environmental Management Plan
ROW	A Right of Way (ROW) is the legal right to build or use a corridor of land, whilst the construction or building corridor is the specific area within the ROW where the concrete pipes are laid.
SA Water	South Australian Water Corporation
SEP	Site Environmental Plan
The Department	Department of Climate Change, Energy, the Environment and Water
TSMP	Threatened Species Management Plan Southern Whiteface, South-eastern Hooded Robin and Mallee Brid Community Management Plan (TSMP)

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1 Introduction

SA Water is proposing to renew sections of the Morgan Whyalla Pipeline No.1 (MWPL1), which runs from Morgan to Whyalla. This section of pipeline was built in the 1940s and is experiencing frequent maintenance issues.

The Approved Action involves the renewal of six sections of pipeline (Sections 16, 17, 18, 20, 21 and 22) alongside the existing pipeline which is then to be decommissioned. The sections of pipeline are in a line from approximately 12 km north-west of the town of Morgan (section 20) in the east, stretching to pipeline section 16 (approx. 100 km) in the west ceasing at the locality of Hanson, south of Burra (Figure 1).

The Action was determined by the Commonwealth Department of Climate Change, Energy, the Environment and Water (the Department (DCCEEW) to be a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act), as the project may have a significant impact on:

- *Aphelocephala leucopsis* (Southern Whiteface) – listed as Vulnerable EPBC Act
- *Melanodryas cucullata cucullata* (South-eastern Hooded Robin) – listed as Endangered EPBC Act
- Mallee Bird Community of the Murray-Darling Depression Threatened Ecological Community listed as Endangered EPBC Act.

1.1 Approved Action

EPBC Number	EPBC 2022/09438
Project Name	Morgan Whyalla Pipeline No.1 Renewal – Stage 1, SA
Approved Action	To construct six new sections of pipeline (16, 17, 18, 20, 21 and 22) alongside an existing pipeline to be decommissioned, located approximately 12 km north-west of the town of Morgan at section 20 in the east, stretching to pipeline section 16 (approx. 100km) in the west ceasing at the town of Hanson, South Australia
Project Location	Between Morgan and Hanson, SA
Reporting Period	1 November 2024 – 31 October 2025

1.2 Purpose

The purpose of this report is to document compliance with the conditions of the (EPBC Act Approval for the Morgan Whyalla Pipeline No.1 Renewal – Stage 1 Project. It has been prepared in accordance with Conditions 30–32, which require the development of a Compliance Report for each Annual Compliance Report (ACR) period.

This report covers the ACR period from 1 November 2024 – 31 October 2025. This is the first reporting period since the action commenced on 7 March 2025.

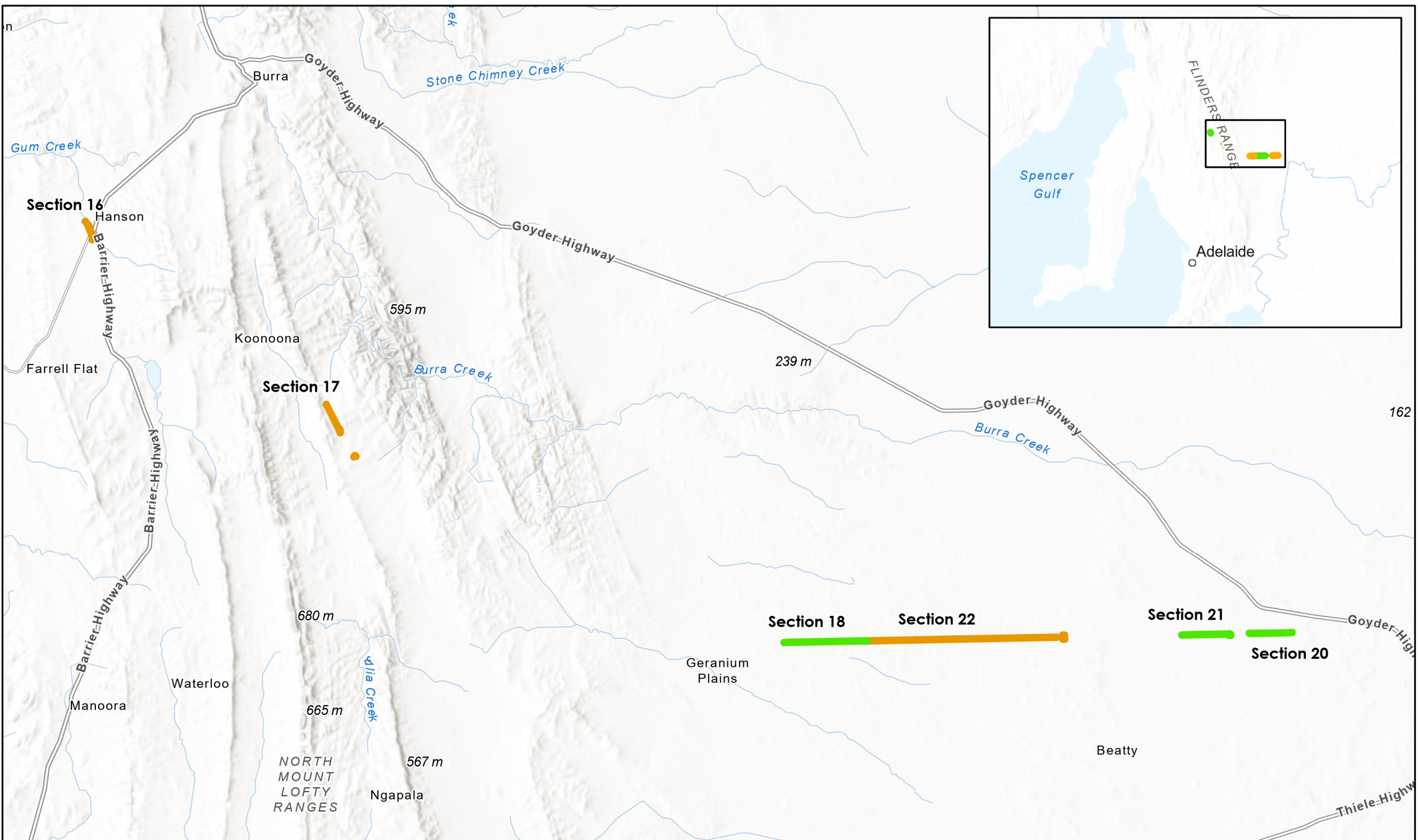


Figure 1. Morgan Whyalla Pipeline Refurbishment Phase 1 and 2 Construction Status

Construction Status

- █ Active
- █ On Hold

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Reporting Period 1 Nov24 - 31 Oct 25

0 2 4 6 8 10 km

N

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829 Date: 03/11/2025
Scale: 1:275,000

2 Description of Activities

The Approved Action has been divided into two distinct projects, reflecting the SAW regulatory process and the timing of associated budget release.

2.1 Stage 1 – Current Project

During the ACR period, permitted activities were undertaken across Sections 18, 20, and 21. Works progressed from enabling activities and vegetation clearance through to major construction. These sections form the focus of Stage 1, which is currently active and advancing in line with approved clearances and construction milestones. The following activities illustrate the progression of Stage 1 during the reporting period:

Enabling works

- Pre-clearance ecological surveys (habitat tree fauna checks and fauna removal) and weed surveys.
- Site establishment georeferenced surveys.
- Pre-clearance environmental controls – survey and flagging of the Right of Way (ROW).
- Hold-point release of pre-clearance controls.
- Pre-clearance weed control.
- Dilapidation and geotechnical assessments.
- Upgrades to site access.
- Site compound and concrete batch plant establishment.

Vegetation Clearance Activities

The following clear and grub activities occurred in section 18-21 prior to June 30:

- Marking and protection of habitat trees for retention.
- Mulching of groundcover.
- Tree removal.
- Habitat tree placement outside of the ROW.
- ROW temporary construction fencing and signage installation.
- Grading and proof rolling of cleared areas.

Table 1 provides an outline of clearance that has been completed during the ACR period for the construction ROW for active sections (18, 20 and 21).

Major construction

The following permitted activities were carried out in sections 20 and 21 from 1 July – 31 October:

- Excavation, reinforcement, and formwork for concrete chair bases and major structures, in-situ concrete pours, pre-cast chair placement (Figure 2), and fabrication of reinforcement cages to support the stability and integrity of anchor and thrust blocks.

2.2 Stage 2 – Future Project

Design for sections 16, 17, and 22 has been completed; however, clearance and construction activities have not yet commenced as these works are not currently being progressed. They are planned for delivery during future economic regulation periods. The construction contract for Stage 2 is anticipated to be awarded in 2028, subject to the release of additional budget allocations.

Table 1 Project clearances by section

Section	Total approved area for clearance (ha)	Total clearance (ha)	Total Southern Whiteface habitat cleared (ha) of 33.12 ha	Total South-Eastern Hooded Robin habitat cleared (ha) of 12.75 ha	Total MBC habitat cleared (ha) of 13.98 ha
18 - 22 m wide ROW	15.18	9.5	8.43	5.46	5.61
20 - 25m wide ROW	8.90	6.00	0.76	NA	NA
21 - 25m wide ROW	11.54	7.55	2.13	NA	NA
MWPL PS 2 Site Compound	3.33	2.08	NA	NA	NA
TOTAL CLEARANCE	38.95	25.13	11.32	5.46	5.61



Figure 2 placement of pipeline support chairs, section 20 & 21

3 EPBC Compliance

For the reporting period of the ACR, SA Water was compliant with all but two conditions of the Approval. The identified non-compliances are considered minor, with negligible potential to increase the risk of environmental harm.

Non-Compliant Conditions

- Condition 1 – The approval holder must not clear outside of the Action area (1a) and construct outside of the Action area (1b).
- Condition 3 – To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters.

3.1 Schedule of Plans

Pursuant to Condition 31, Table 2 outlines the plans that were active during the ACR period and specifies their intended purposes. The implementation of each plan is subject to audit through scheduled site inspections and formal plan reviews.

Table 2 Plans that were implemented during the ACR period

Plan	Plan date & Revision	Implementation Responsibility	Status	Description (Plan intent)
Threatened Species Management Plan (TSMP)	21 November 2024 (V4)	SA Water & Principal Contractor	EPBC Approved - Active	Outlines mitigation measures to minimise direct and indirect impacts to threatened species and habitats. Includes environmental objectives, performance criteria, monitoring, reporting, and corrective actions. The requirements of this plan have been implemented into the contractors CEMP.
Project Environmental Management Plan (PEMP)	14 April 2025 (V4)	SA Water	EPBC Approved - Active	Summarises environment and heritage risk assessment. Establishes management processes, controls, and activities to mitigate impacts from construction works. The requirements of this plan have been implemented into the contractors CEMP.
Contractors Environmental Management Plan (CEMP)	20 June 2025 (V2)	Principal Contractor	Project Management Plan - Active	A live document that details control measures required to ensure construction activities comply with EPBC approval and commitments made in the TSMP and PEMP.
Site Environmental Plan (SEP)	23 June 2025 (V4)	Principal Contractor	Project Management Plan - Active	A live document developed for individual construction outputs. Identifies environmental risks and aligns controls with legislative approvals and management plan commitments.

3.2 Project Compliance

The compliance status of the Project with the Conditions of Approval and the requirements of approved Management Plans (as relevant) are presented in Table 3.

As per the Annual Compliance Report Guidelines 2023, the following designations have been used to record findings in this report:

Compliant: 'Compliance' is achieved when all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions.

Non-compliant: A designation of 'non-compliance' should be given where the requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.

Not applicable: A designation of 'not applicable' should be given where the requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example, a condition which applies to an activity that has not yet commenced.

Table 3 Compliance with the conditions of approval

Condition #	Condition (Condition / sub-condition needs to be written in full)	Compliance status	Evidence
CLEARING LIMITS			
1	The approval holder must not:		
1a	The approval holder must not clear outside of the Action area.	Non-Compliant	Vegetation clearance outside of the AAA amounting to 0.2 hectares was identified on Monday 3 November by SA Water's GIS Analyst. The clearance non-conformance was performed by SA Water's Principal Contractor. The incident occurred on 17 March 2025 at Section 18 and on 19 March 2025 at Section 21. Further details are provided within Section 4.
1b	construct outside of the Action area.		
2	The approval holder must not clear more than:		
2a	33.12 hectares (ha) of Southern Whiteface habitat.	Compliant	A total of: <ul style="list-style-type: none"> • 11.32 ha of Southern Whiteface habitat, • 5.46 ha of South-eastern Hooded Robin habitat and • 5.61 ha of MBC habitat has been cleared (Table 1). Clearance boundaries were spatially defined and pegged on ground prior to clearance. The extent of vegetation clearance was captured via land survey and cross-checked by SA Water's spatial analyst (Refer to Appendix A for clearance areas).
2b	12.75 ha of South-eastern Hooded Robin habitat.		
2c	13.98 ha of Mallee Bird Community.		
2d	a 22 metre (m) width corridor of Mallee Bird Community in Section 18 and Section 22 of the Action area.	Compliant	Field survey hold point release and GIS overlays were used to confirm that the cleared linear corridor did not exceed the 22 m approved width. The spatial boundaries were clearly marked on the ground prior to works and validated post-clearance using high-resolution mapping. Periodic checks by SA Water's spatial analyst confirmed that the width of the corridor clearance was consistently maintained within the approved parameters.
3	To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters.	Non-Compliant	The extent of non-compliance of this condition aligns with the non-compliance of condition 1 – clearance outside of the AAA. Further details are provided within Section 4

			Although clearance outside the AAA within section 18 is likely to have impacted Southern Whiteface Habitat, the clearance is still compliant with condition 2a.
4	The approval holder must not clear vegetation in Sections 18, 20, 21 and 22 during the South-eastern Hooded Robin and Southern Whiteface breeding season other than in accordance with the 'Activities permitted' in Table 23 of the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan	Compliant	Clearance of sections 18, 20 and 21 occurred between 17 March – 2 May 2025. Permittable activities have continued in sections 20 and 21 during the breeding season, however works have ceased in section 18. This has been validated through monthly compliance site inspections and audits.
5	If the approval holder detects the presence, where likely to be affected by the Action, of any protected matter or the habitat of any protected matter not previously reported to the department as part of the referral of this Action or in accordance with this condition, the approval holder must:	Compliant	No additional protected matters or their habitat has been detected.
5a	notify the department in writing of the presence and likely extent of any protected matter or the habitat of any protected matter not previously reported to the department within 10 business days of detecting the presence of any protected matter or the habitat of any protected matter not previously reported to the department, and		
5b	not clear any area where the protected matter or the habitat of the protected matter is located unless:		
5b(i)	condition 2 provides for the clearing of that protected matter or habitat of that protected matter, and		
5b(ii)	clearing does not exceed the limit specified in condition 2 for that protected matter or habitat of that protected matter.	Compliant	Vegetation clearance has remained within the approved clearance extents specified for each protected matter and associated habitat under condition 2. During the ACR period the project has cleared 11.32 ha of Southern Whiteface, 5.46 ha of South-Eastern Hooded Robin & 5.61ha of MBC habitat (Table 1 & Appendix A). Site records and environmental inspection reports maintained by the Principal Contractor have demonstrated adherence to approved limits.
ACTION MANAGEMENT PLANS			
Project Environmental Management Plan			
6	The approval holder must implement the Project Environmental Management Plan prior to the commencement of the Action and continue to implement the Project Environmental Management Plan until the completion of the Action.	Compliant	SA Water has ensured that the requirements of the PEMP have been implemented prior to the commencement of the Action and continue to be applied throughout project delivery.

			These requirements are audited during regular compliance inspections.
7	By implementing the Project Environmental Management Plan, the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.	Compliant	The PEMP has been used to guide the implementation of the contractors' CEMP and SEP.
Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan			
8	The approval holder must implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan prior to the commencement of the Action and continue to implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan until the completion of the Action.	Compliant	The Plan has been implemented as required, with supporting training, documentation, and monitoring processes in place to prevent and mitigate harm to the Southern Whiteface, South-eastern Hooded Robin, and MBC. The plans requirements have been captured in the contractors' CEMP and SEP. SA Water conducts regular compliance checks against the commitment in the plan including site-based inspections, to verify the effective implementation of the Plan and associated mitigation measures. Inspection reports are maintained as evidence of ongoing compliance and continuous improvement in environmental management performance. Please refer to the following: <ul style="list-style-type: none">• Appendix B for Pre-clearance Habitat Assessment Report• Appendix C for Pre-clearance Weed Survey Report• Appendix D for Fauna Relocation Report• Appendix E for Pre-clearance hold-point release
9	By implementing the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.		
REVISION OF ACTION MANAGEMENT PLANS			
10	The approval holder may, at any time, apply to the Minister for a variation to an action management plan approved by the Minister or as subsequently revised in accordance with the following conditions, by submitting an application in accordance with the requirements of section 143A of the EPBC Act. If the Minister approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of any previous version of the action management plan.	Not Applicable	Nil

11	The approval holder may choose to revise an action management plan approved by the Minister under condition 6 and 8, or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the EPBC Act, if the taking of the Action in accordance with the RAMP would not be likely to have a new or increased impact.	Compliant	An update to the PEMP was endorsed by the Department 23 April 2025.
12	If the approval holder makes the choice under condition 11 to revise an action management plan without submitting it for approval, the approval holder must:	Compliant	An updated PEMP was provided to the Department via the Business Portal 28 March 2025, outlining the proposed changes and why these were considered minor in nature. The updates were approved 23 April 2025. The revised PEMP was implemented and published on SA Water's WaterTalks Project Page Morgan Whyalla pipeline renewal SA Water .
12a	Notify the department electronically that the approved action management plan has been revised and provide the department with:		
12a(i)	An electronic copy of the RAMP.		
12a(ii)	An electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP.		
12a(iii)	An explanation of the differences between the approved action management plan and the RAMP.		
12a(iv)	The reasons the approval holder considers that taking the Action in accordance with the RAMP would not be likely to have a new or increased impact.		
12a(v)	Written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being at least 20 business days after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the department.		
12b	Subject to condition 14 implement the RAMP from the RAMP implementation date.	Not Applicable	The changes do not relate to change likely to have a new or increased impact.
13	The approval holder may revoke its choice to implement a RAMP under condition 11 at any time by giving written notice to the department. If the approval holder revokes the choice under condition 11, the approval holder must implement the action management plan in force immediately prior to the revision undertaken under condition 11.	Not Applicable	Nil

14	If the Minister notifies the approval holder that the Minister is satisfied that the taking of the Action in accordance with the RAMP would be likely to have a new or increased impact, then:	Not Applicable	Nil
14a	Condition 11 does not apply, or ceases to apply, in relation to the RAMP.		
14b	The approval holder must implement the action management plan specified by the Minister in the notice.		
15	At the time of giving the notice under condition 14, the Minister may also notify that for a specified period of time, condition 11 does not apply for one or more specified action management plans.	Not Applicable	Nil
SUBMISSION AND PUBLICATION OF PLANS			
16	Wherever these conditions require the approval holder to submit any plan to the department, all such plans must be submitted to the department electronically.	Not Applicable	There are no additional plans that require approval.
17	Unless otherwise agreed to in writing by the Minister, the approval holder must publish each plan on the website within 15 business days of the date of this approval.	Compliant	Approved plans have been published on SA Waters WaterTalks Project Page Morgan Whyalla pipeline renewal SA Water .
18	The approval holder must keep all plans published on the website, in a format that is easily accessible and downloadable, from the first date which that plan must be published and until the expiry date of this approval. This requirement applies to all current and superseded versions of plans.		
19	The approval holder is required to exclude or redact sensitive biodiversity data from any version of a plan before that plan is published on the website or otherwise provided to a member of the public. If sensitive biodiversity data is excluded or redacted from a plan, the approval holder must notify the department in writing what exclusions and redactions have been made in the version published on the website.	Not Applicable	Published plans do not contain sensitive information.
MODIFICATIONS TO STATE OR TERRITORY APPROVAL			
20	The approval holder must notify the department in writing of any proposed change to the South Australian Native Vegetation Council approval that may relate to protected	Compliant	The Department was notified via the Business Portal, 18 December 2024 of a proposed change to the SA Native

	matters within 2 business days of formally proposing such a change and within 5 business days of becoming aware of any proposed change.		Vegetation Council Approval to align the state approval with the AAA.
21	The approval holder must notify the department in writing of any change to the South Australian Native Vegetation Council approval conditions that may relate to protected matters, within 5 business days of such a change to conditions coming into effect. Such notification must include a copy of the changed South Australian Native Vegetation Council approval conditions showing what changes have been made.	Compliant	The Department was notified via Business Portal, 20 January 2025 of the approved change to align the approval with the AAA.
COMMENCEMENT OF THE ACTION			
22	The approval holder must notify the department electronically of the date of commencement of the Action, within 5 business days following commencement of the Action.	Compliant	The Department was notified of the Action commencement date of 17 March 2025 via the Business Portal 18 March 2025 (ref: PC-001003).
23	The approval holder must not commence the Action later than 5 years after the date of this approval decision.	Compliant	As per condition 22.
24	The approval holder must notify the department electronically of the date of commencement of construction within 5 business days following construction .	Compliant	As per condition 22. Enabling works commenced at previously cleared areas when the action commenced.
COMPLIANCE RECORDS			
25	The approval holder must maintain accurate and complete compliance records and document the procedure for recording and storing compliance records.	Compliant	'The Capital Project Locker Document Management Guide' captures how project documents related to 'the Action' are administered, maintained and stored. This procedure is reviewed annually and updated by the Governance, Continual Improvement Team.
26	If the department makes a request in writing, the approval holder must provide electronic copies of compliance records to the department within the timeframe specified in the request.	Not applicable	No requests have been made to date.
27	The approval holder must ensure that any monitoring data , surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guidelines for biological survey and mapped data, Commonwealth of Australia 2018, or as otherwise specified by the Minister in writing.	Compliant	Administrative condition complied with.

28	The approval holder must ensure that any monitoring data, surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guide to providing maps and boundary data for EPBC Act projects, Commonwealth of Australia 2021, or as otherwise specified by the Minister in writing.	Compliant	<p>SA Water and its Principal Contractor have ensured that all spatial and monitoring data associated with this approval have been prepared and maintained in accordance with the <i>Guide to providing maps and boundary data for EPBC Act projects</i> (2021).</p> <p><u>Data management and mapping compliance:</u> Metadata for each dataset includes coordinate systems, datum references, and descriptions of methods in line with the 2021 Guide. Clearance boundaries, monitoring sites, and habitat management zones are mapped using ArcGIS consistent with the required Commonwealth standard for mapping.</p> <p><u>Quality Assurance and Review:</u> Spatial data and associated survey information is reviewed by SA Water's GIS Specialist to confirm accuracy and alignment with EPBC reporting requirements.</p> <p><u>Verification and evidence:</u> Compliance with mapping and data management requirements is verified during periodic internal audits and site inspections.</p>
29	The approval holder must submit all monitoring data, surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the department within 20 business days of the next anniversary of the date of this approval decision except where otherwise specified in a plan.		The ACR containing monitoring data will be provided to speciesmetadata@environment.gov.au as required by the Department's Guidelines for biological survey and mapped data (2018) as required by the Department's Guidelines for biological survey and mapped data (2018).
ANNUAL COMPLIANCE REPORTING			
30	The approval holder must prepare a compliance report for each Annual Compliance Report period (ACR period).	Compliant	The approval holder has prepared and submitted the ACR for the reporting period in accordance with the <i>Annual Compliance Report Guidelines (Commonwealth of Australia, 2023) - This Report</i> .
31	The approval holder must ensure each compliance report includes:	Compliant	<p>The report includes:</p> <ul style="list-style-type: none"> Accurate and complete details of compliance with each condition of approval and relevant management plan commitments as presented in this table and associated appendices.
31a	accurate and complete details of compliance and any non-compliance with:		
31a(i)	each condition attached to this approval decision, and		
31a(ii)	all commitments made in each plan,		

31b	a schedule of all plans in effect in relation to these conditions during the ACR period,		<ul style="list-style-type: none"> A schedule listing all plans in effect during the reporting period, including details of how each plan was implemented and monitored (Table 2) Accurate records of incidents noting that one incident occurred during the reporting period as detailed in section 4.
31c	accurate and complete details of how each plan was implemented during the ACR period, and		
31d	if any incident occurred, accurate and complete details of each incident.		
32	The approval holder must ensure each compliance report is completed to the satisfaction of the Minister and is consistent with the Annual Compliance Report Guidelines, Commonwealth of Australia 2023.	Compliant	This report
33	The approval holder must, within 20 business days following the end of each ACR period, in a format that is easily accessible and downloadable, publish on the website:	Not applicable	Given this is the first reporting period, the Department will be notified by email within five business days of the publication of this current report.
33a	each compliance report, and		
33b	a shapefile showing all clearing of protected matters, and their habitat, undertaken within the ACR period.		
34	The approval holder must:	Not applicable	<p>Sensitive biodiversity data have been appropriately managed in accordance with this condition.</p> <p>There is no sensitive biodiversity data in relation to this publication, therefore, the Department does not require notification of any redactions.</p>
34a	Exclude or redact sensitive biodiversity data from each compliance report and shapefile published on the website or otherwise provided to a member of the public.		
34b	If sensitive biodiversity data is excluded or redacted from a version of a compliance report published or otherwise provided to a member of the public, submit the full compliance report to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website or otherwise provided to a member of the public.		
34c	If sensitive biodiversity data is excluded or redacted from a version of a shapefile published or otherwise provided to a member of the public, submit the full shapefile to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website or otherwise provided to a member of the public.		
35	The approval holder must notify the department electronically, within 5 business days of each date of publication that the	Not applicable	This is the first reporting period. The ACR and associated special data will be published on SA Waters WaterTalks

	compliance report has been published on the website. In this notification, the approval holder must provide the department with the web address for where the compliance report and related shapefile are published on the website.		Project Page Morgan Whyalla pipeline renewal SA Water upon approval.
36	The approval holder must keep each compliance report and related shapefile published on the website from the first date which that compliance report must be published and until the expiry date of this approval.		
REPORTING NON-COMPLIANCE			
37	The approval holder must notify the department electronically, within 2 business days of becoming aware of any incident. The approval holder must specify in each notification:	Compliant	SA Water notified the Department within 2 business days of becoming aware of a minor incident that resulted in 0.2 ha of clearance occurring outside the EPBC AAA.
37a	any condition or commitment made in a plan which has not been, or may have not been, complied with,		
37b	a short description of the incident, and		
37c	the location (if applicable, including co-ordinates), date and time of the incident.		
38	The approval holder must provide to the department in writing, within 12 business days of becoming aware of an incident, the details of that incident. The approval holder must specify:	Compliant	SA Water sought an extension of an addition 2 weeks. The details of the incident were submitted to the Department on Wednesday 3 December addressing the requirements of Condition 38 following completion of internal reviews and a root cause analysis investigation.
38d	all corrective measures and investigations which the approval holder has already taken in respect of the incident,		
38e	the potential impacts of the incident,		
38f	the method and timing of any corrective measures that the approval holder proposes to undertake to address the incident, and		
38g	any variation of these conditions or revision of a plan that will be required to prevent recurrence of the incident and/or to address its consequences.	Compliant	SA Water is in the process of updating the PEMP. This will be submitted for review in January 2026.
INDEPENDENT AUDIT			
39	The approval holder must ensure that an independent audit of compliance with the conditions is conducted for every audit period.	Not applicable	This is the first ACR period. The first independent audit is due 2029.

40	The approval holder must submit details of the proposed independent auditor and their qualifications to the department within 10 business days following the end of each audit period.		
41	The approval holder must ensure the scope of each independent audit is sufficient to determine the compliance status for each condition of approval, and each commitment made in each plan.		
42	The approval holder must ensure the criteria for each independent audit and the undertaking of each independent audit are consistent with the Independent Audit and Audit Report Guidelines.		
43	The approval holder must submit an audit report to the department for written agreement from the department within 3 months following the end of each audit period, or as otherwise directed by the Minister in writing.		
44	The approval holder must ensure each audit report is completed to the satisfaction of the Minister and is consistent with the Independent Audit and Audit Report Guidelines.		
45	The approval holder must publish each audit report on the website, in a format that is easily accessible and downloadable, within 10 business days of the date the department agrees to that audit report in writing.		
46	The approval holder must notify the department within 5 business days of the date the audit report is published on the website. In this notification, the approval holder must provide the department with the web address for where the audit report is published on the website.		
47	The approval holder must keep each audit report published on the website from the first date which that audit report must be published and until the expiry date of this approval.		
COMPLETION OF THE ACTION			
48	Within 20 business days after the completion of the Action, and, in any event, at least 20 business days before this approval expires, the approval holder must notify the department electronically of the date of completion of the Action and	Not applicable	Nil

	provide completion data. The approval holder must submit any spatial data that comprises completion data as a shapefile.		
49	The approval holder must notify the department electronically 60 business days prior to the expiry date of this approval, that the approval is due to expire.	Not Applicable	Nil

4 Corrective Actions

4.1 Previous Non-compliance

There are no previous non-compliances.

4.2 Current Non-compliance

During the reporting period, there was one non-compliance with the following conditions of approval:

- Condition 1 – The approval holder must not clear outside of the Action area (1a) and construct outside of the Action area (1b); and
- Condition 3 – To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters.

This non-compliance was formally reported to the Department on Wednesday, 5 November 2025 through the EPBC Business Portal. A subsequent notification was provided on Wednesday, 3 December 2025. SA Water advised of the delay in submission of the detailed incident report due to SA Water's internal review process requirements.

Incident Details

- Date identified – Monday, 3 November 2025 by SA Water's GIS Analyst (Appendix F).
- Responsible party – SA Water and Principal Contractor
- Location and dates of occurrence:
 - Section 18 - 17 March 2025
 - Section 21 - 19 March 2025
- Extent of clearance – Approximately 0.2 hectares outside the AAA.

A root cause analysis was undertaken in accordance with Condition 38, and a corrective actions report (including actions to avoid recurrence) has been completed.

Corrective Action Plan Summary

A comprehensive plan has been developed to address contributing factors and prevent recurrence of non-compliance. Key measures include:

1. **Onsite Validation & Geospatial Control**
All CAD files for field surveying will include EPBC Action Area layers. After pegging, Environmental Representatives from both the Principal Contractor and SA Water will verify boundaries before clearances.
2. **Change Management & Design Integration**
Any onsite changes affecting access, laydown areas, or boundaries must be formally submitted for SA Water review and approval before implementation. Change management requirements will be embedded in the Contractor's Environment Management Plan and reinforced through training.
3. **Enhanced Auditing & Inspections**
SA Water's environmental team will conduct regular inspections and audits to confirm compliance with EPBC approval conditions.
4. **Plan Revisions to Prevent Recurrence**
 - a. Automatic stop-work and review if deviations from approved Action Areas occur
 - b. Mandatory boundary verification and updated GIS shapefiles

- c. Reinforced pre-clearance survey requirements
- d. Physical marking of boundaries prior to clearing

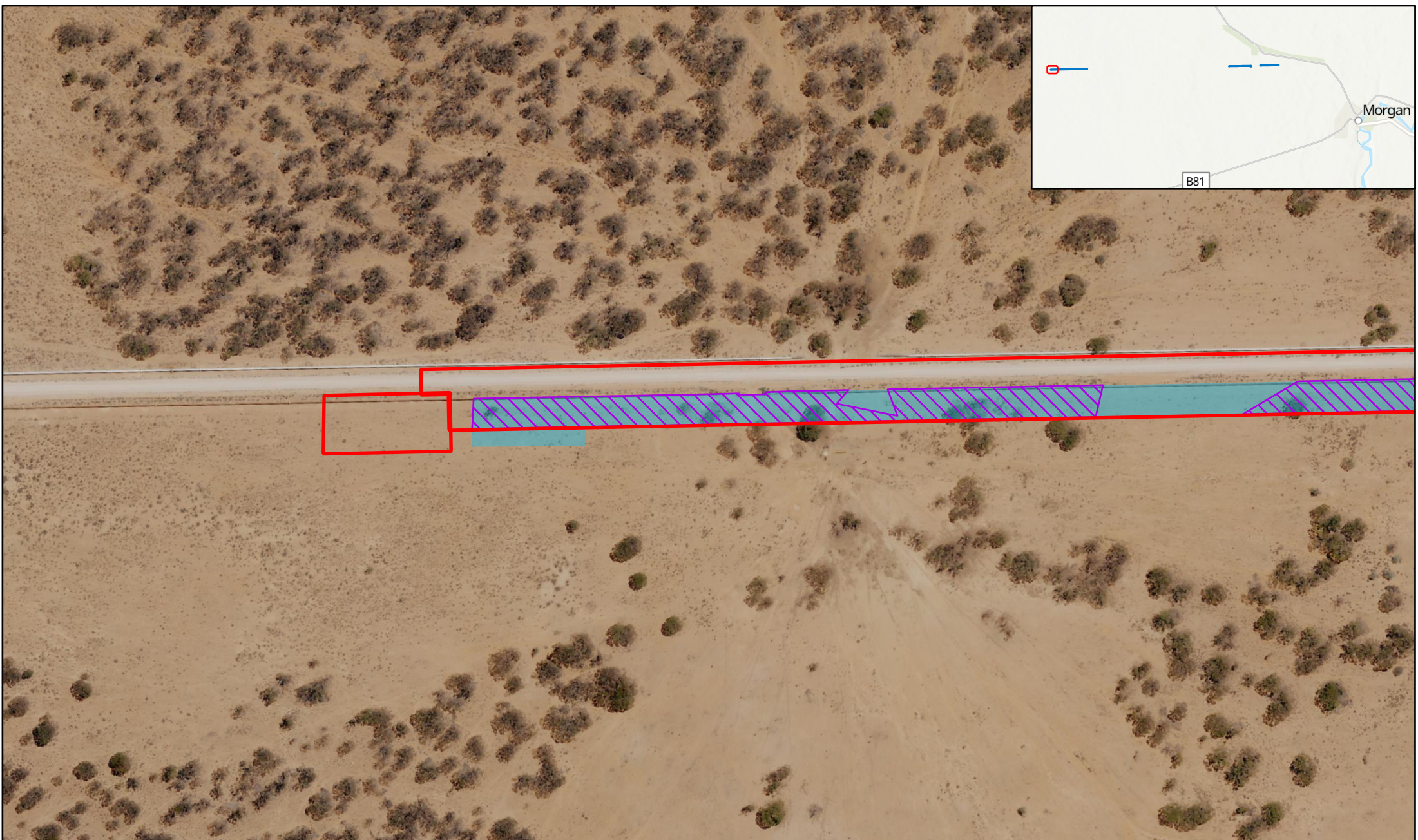
Both the PEMP and the Contractor's CEMP will reflect these strengthened controls.

5 References

The following table identifies the documents and/or articles that are referenced in this document:

Title/URL	Version	Date
Department of Climate Change, Energy, the Environment and Water 2023, Annual Compliance Report Guidelines, Canberra. CC BY 4.0	2023	2023

A Approved Action Area Clearance



MWPL 1 Renewal Section 18 Cleared Area

(Map 1 of 6)

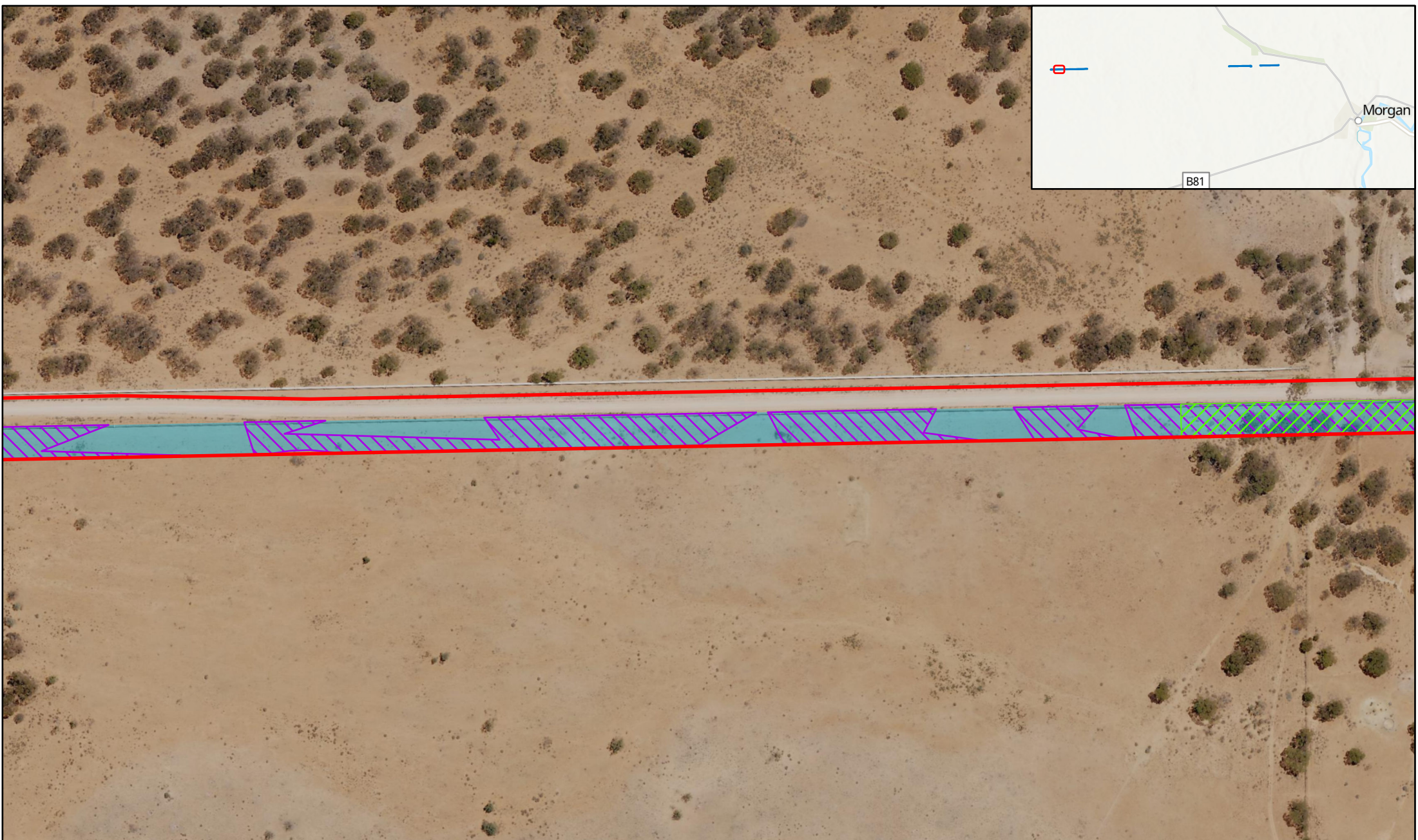
-  Approved Action Area Section 18 (15.18ha)
-  Cleared Area (S18 - 9.5 ha)
-  Southern Whiteface Habitat Cleared (S18 - 8.35 ha)



0 40 80 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,000





MWPL 1 Renewal Section 18 Cleared Area

(Map 2 of 6)

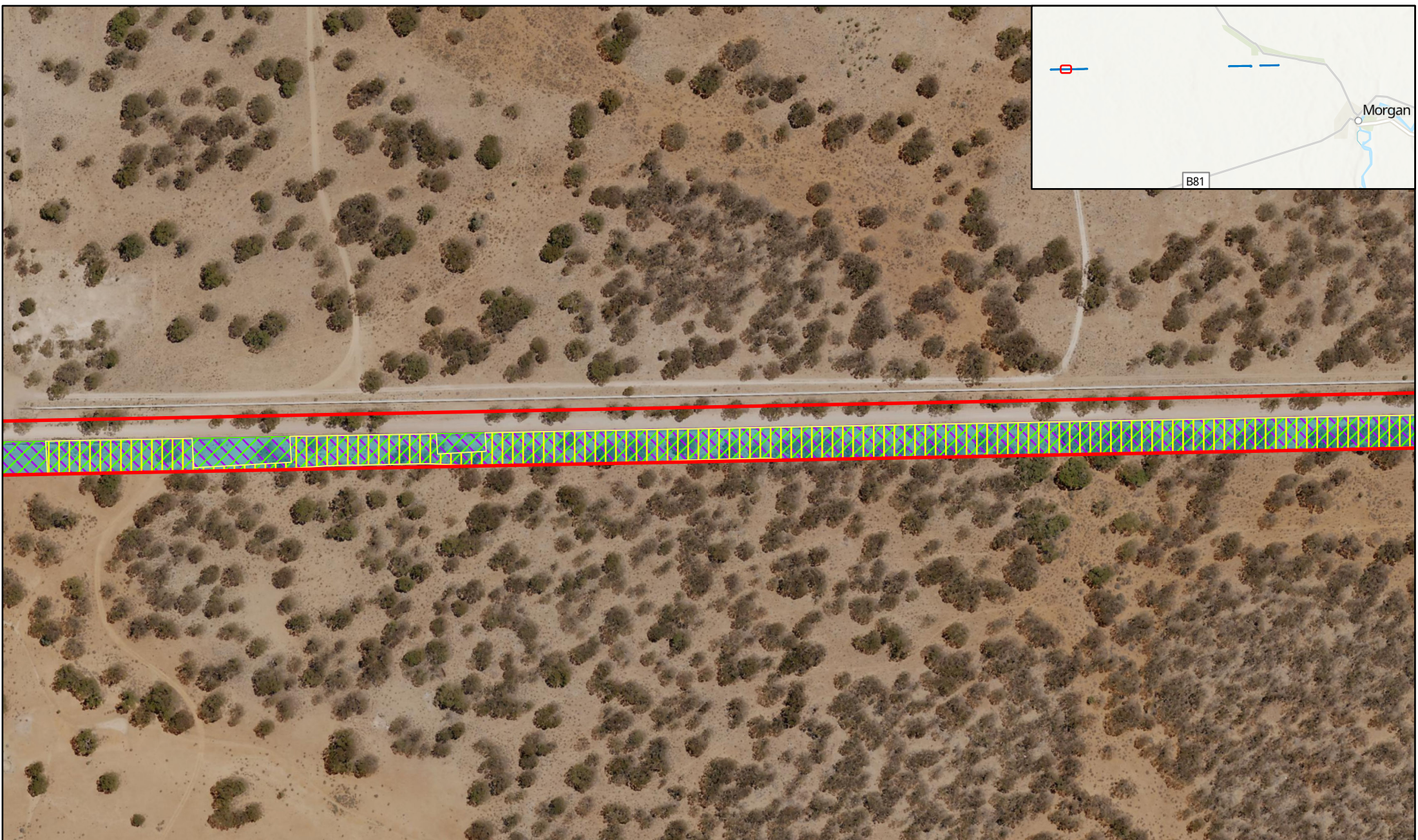
-  Approved Action
Area Section 18
(15.18ha)
-  Mallee Bird Habitat
Cleared (S18 - 5.61
ha)
-  Southern Whiteface
Habitat Cleared (S18 -
8.35 ha)
-  Cleared Area (S18 -
9.5 ha)



04080 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,000





MWPL 1 Renewal Section 18 Cleared Area

(Map 3 of 6)



Approved Action
Area Section 18
(15.18ha)



Hooded Robin
Habitat Cleared (S18 -
5.46 ha)



Mallee Bird Habitat
Cleared (S18 - 5.61
ha)



Southern Whiteface
Habitat Cleared (S18 -
8.35 ha)



Cleared Area (S18 -
9.5 ha)

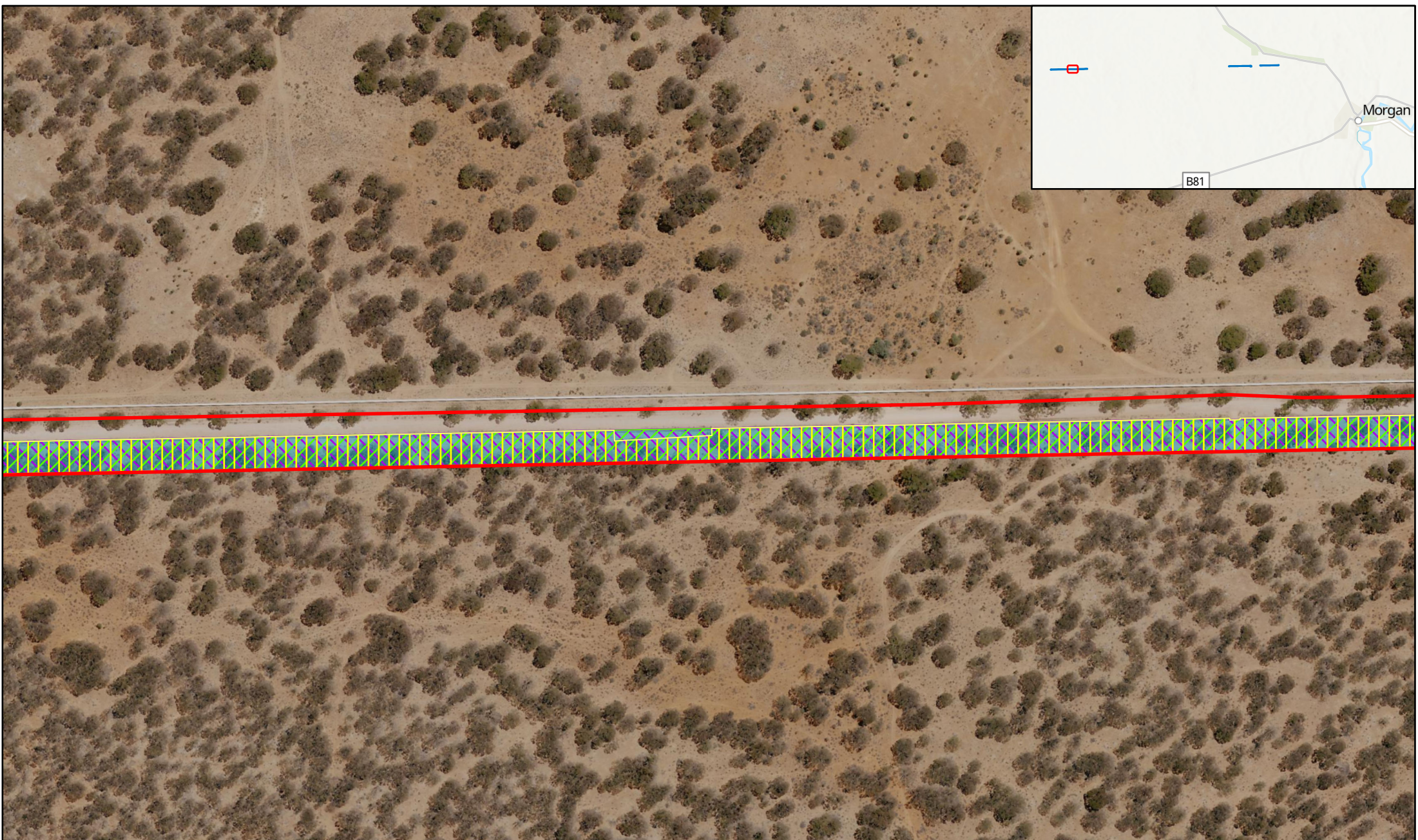


N

0 40 80 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,000





MWPL 1 Renewal Section 18 Cleared Area

Approved Action Area Section 18 (15.18ha)

Hooded Robin Habitat Cleared (S18 - 5.46 ha)

Mallee Bird Habitat Cleared (S18 - 5.61 ha)

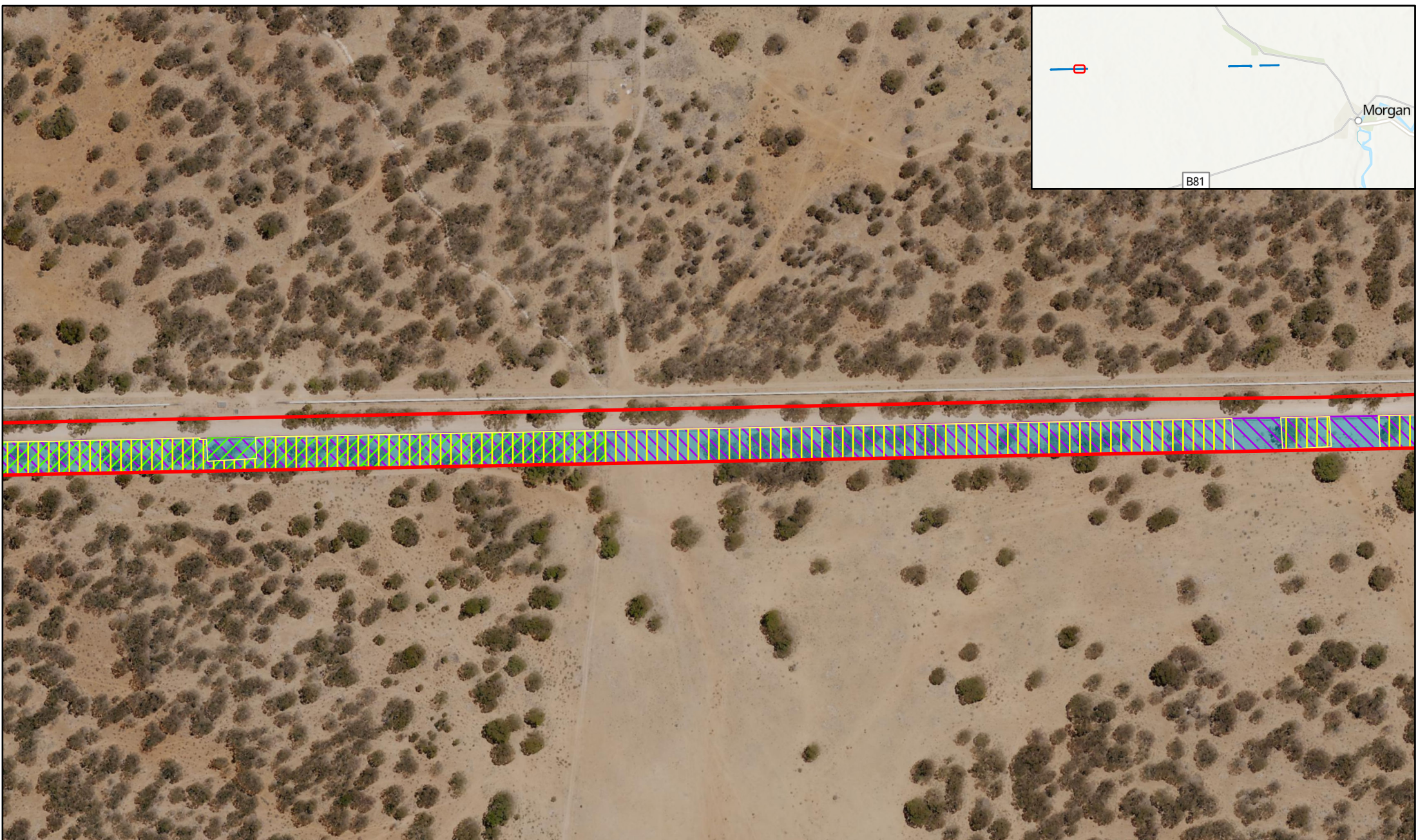
Southern Whiteface Habitat Cleared (S18 - 8.35 ha)

Cleared Area (S18 - 9.5 ha)

(Map 4 of 6)

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,000

N



MWPL 1 Renewal Section 18 Cleared Area

(Map 5 of 6)



Approved Action
Area Section 18
(15.18ha)



Cleared Area (S18 -
9.5 ha)



Hooded Robin
Habitat Cleared (S18 -
5.46 ha)



Mallee Bird Habitat
Cleared (S18 - 5.61
ha)

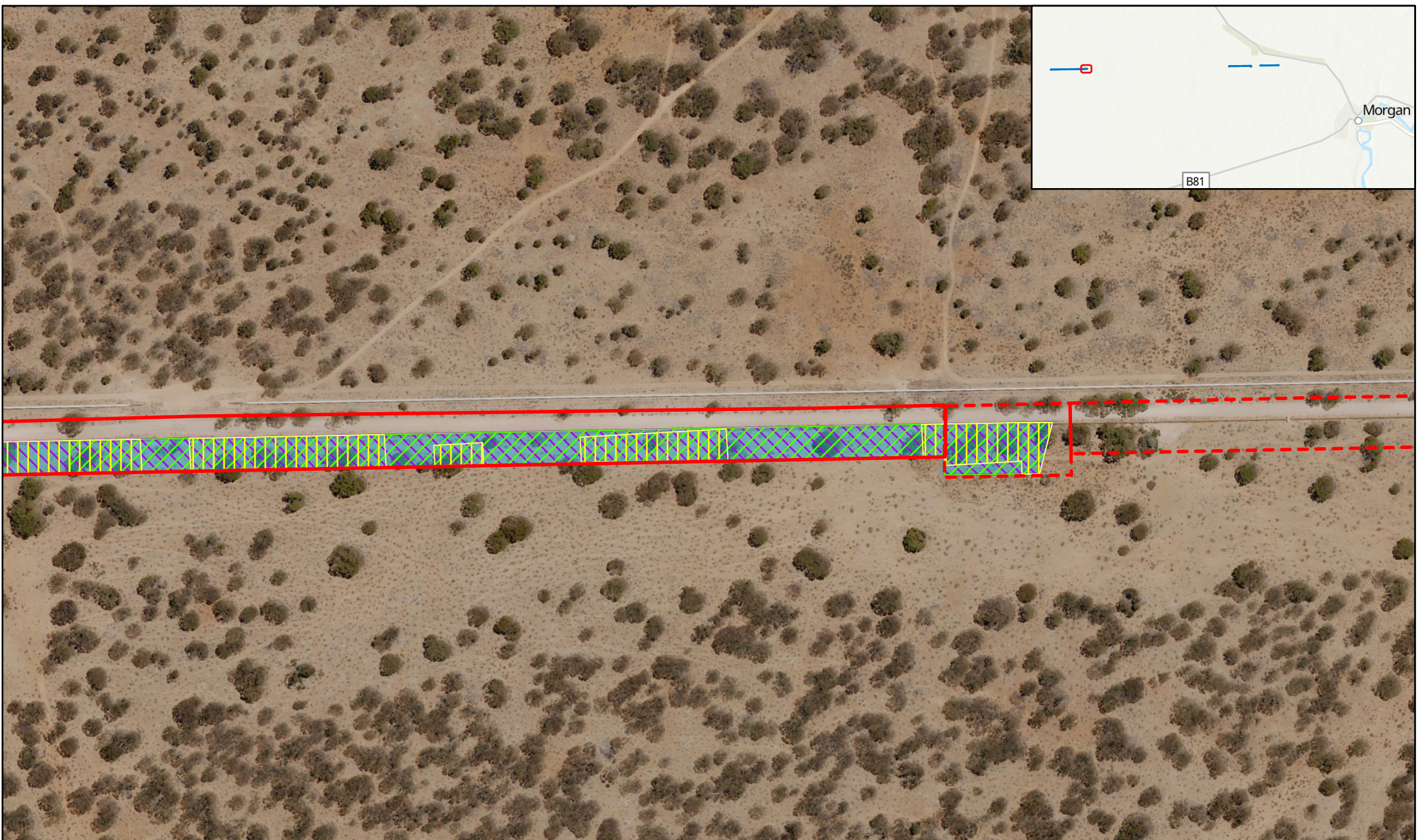


Southern Whiteface
Habitat Cleared (S18 -
8.35 ha)



Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,000





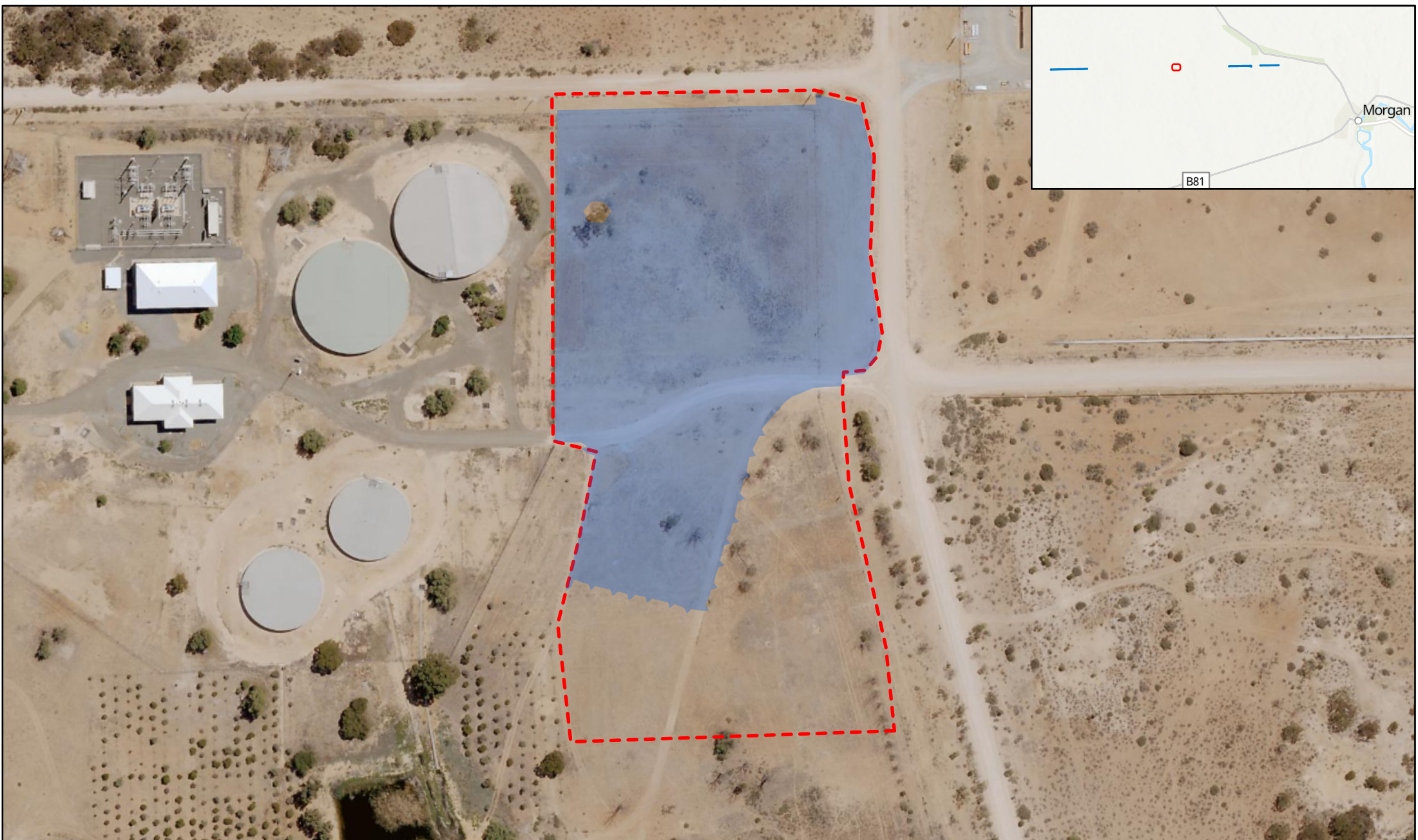
MWPL 1 Renewal Section 18 Cleared Area

(Map 6 of 6)

- | | | | |
|---|--|---|--|
| Approved Action Area Section 18 (15.18ha) | Cleared Area (S18 - 9.5 ha) | Mallee Bird Habitat Cleared (S18 - 5.61 ha) | Southern Whiteface Habitat Cleared (S18 - 8.35 ha) |
| Approved Action Area Section 22 | Hooded Robin Habitat Cleared (S18 - 5.46 ha) | | |

0 40 80 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,000



MWPL 1 Renewal Pump Station 2 Compound Cleared Area

(Map 1 of 1)

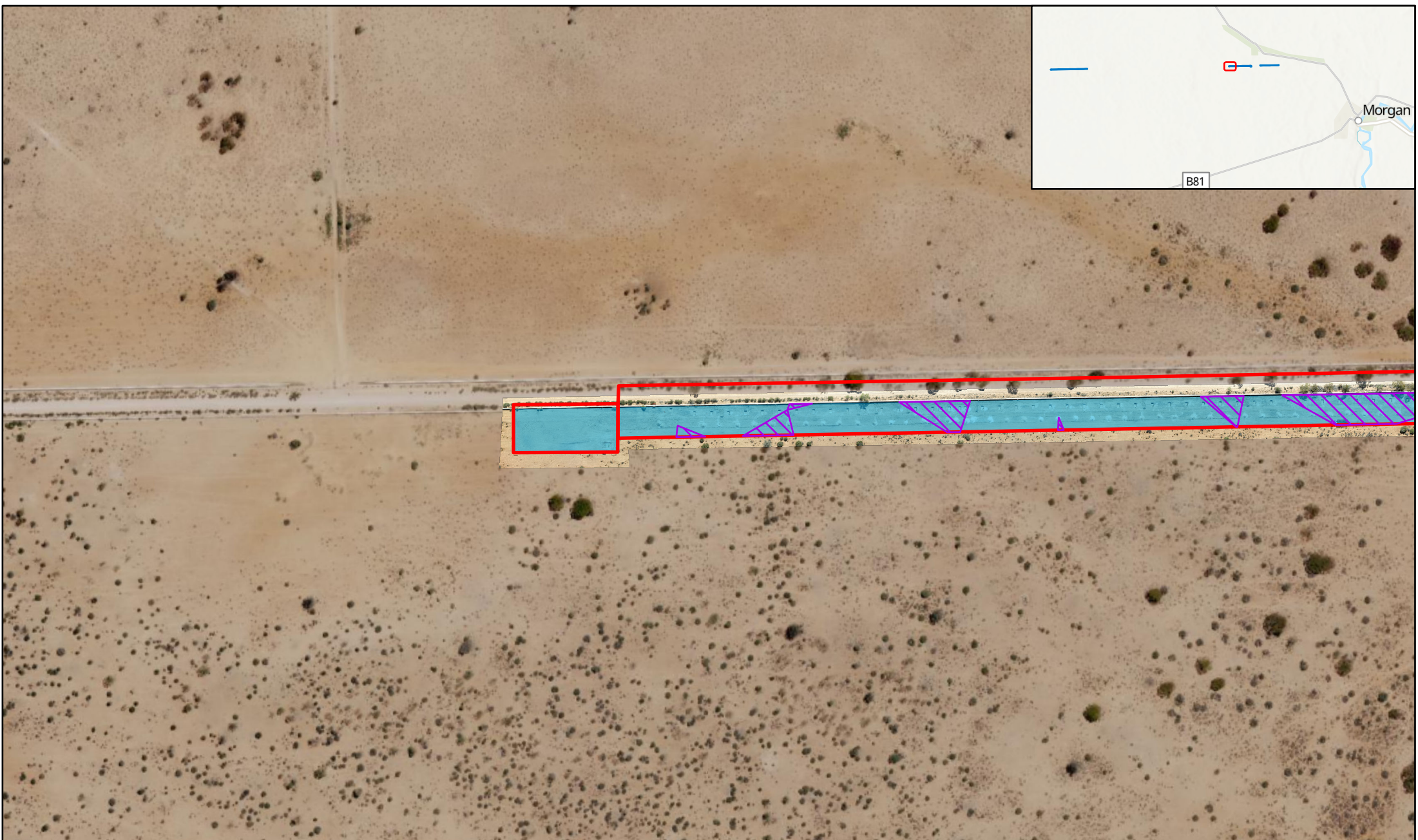
-  Approved Action Area (3.33 ha)
-  Compound Cleared Area (2.08 ha)



0 30 60 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:2,000





MWPL 1 Renewal Section 21 Cleared Area

(Map 1 of 4)

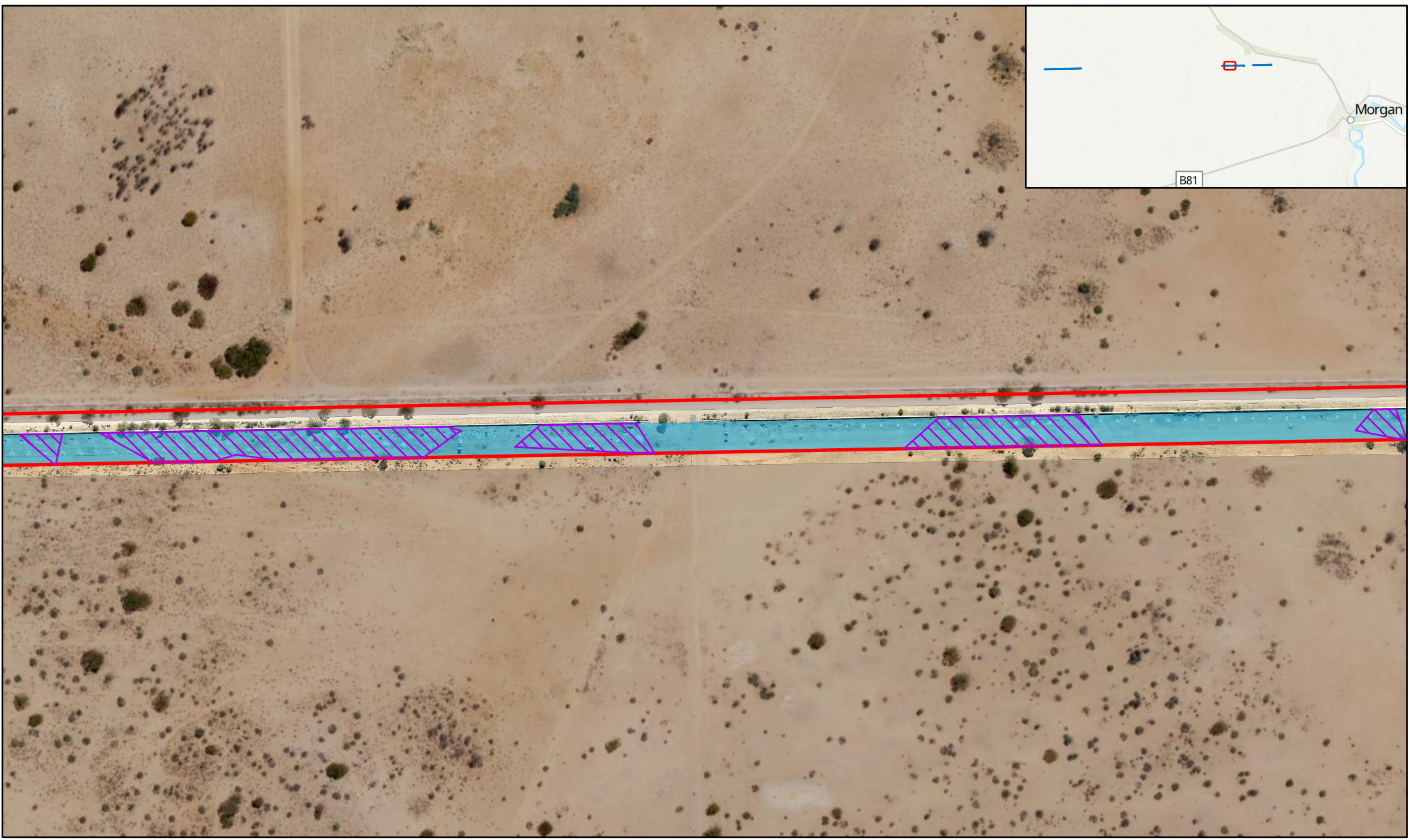
-  Cleared Area S21
(7.55 ha)
-  Approved Action
Area (11.54 ha)
-  Southern Whiteface
Habitat Cleared (2.13
ha)



050100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500





MWPL 1 Renewal Section 21 Cleared Area (Map 2 of 4)

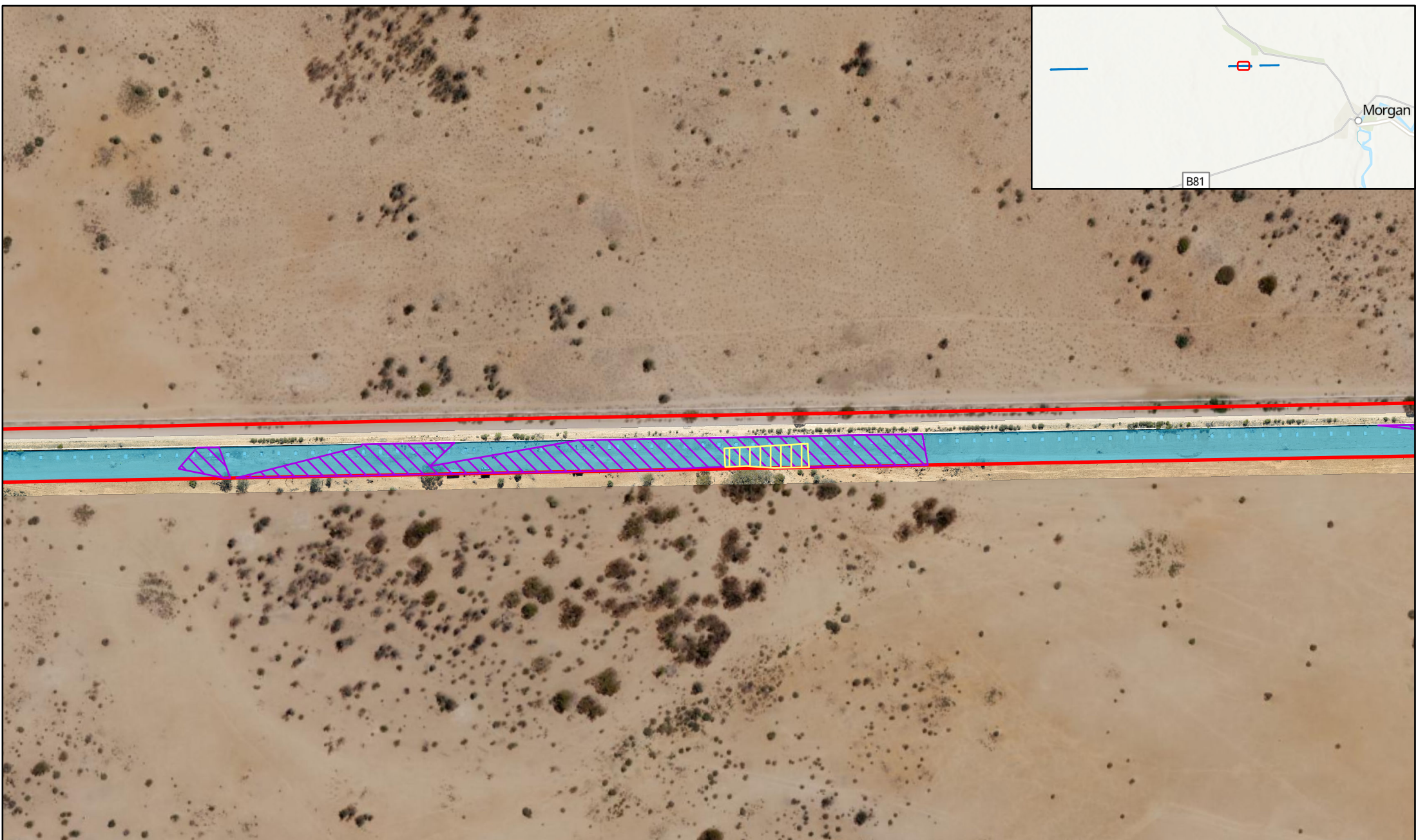
-  Cleared Area S21
(7.55 ha)
-  Approved Action
Area (11.54 ha)
-  Southern Whiteface
Habitat Cleared (2.13
ha)



0 50 100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500





MWPL 1 Renewal Section 21 Cleared Area

(Map 3 of 4)

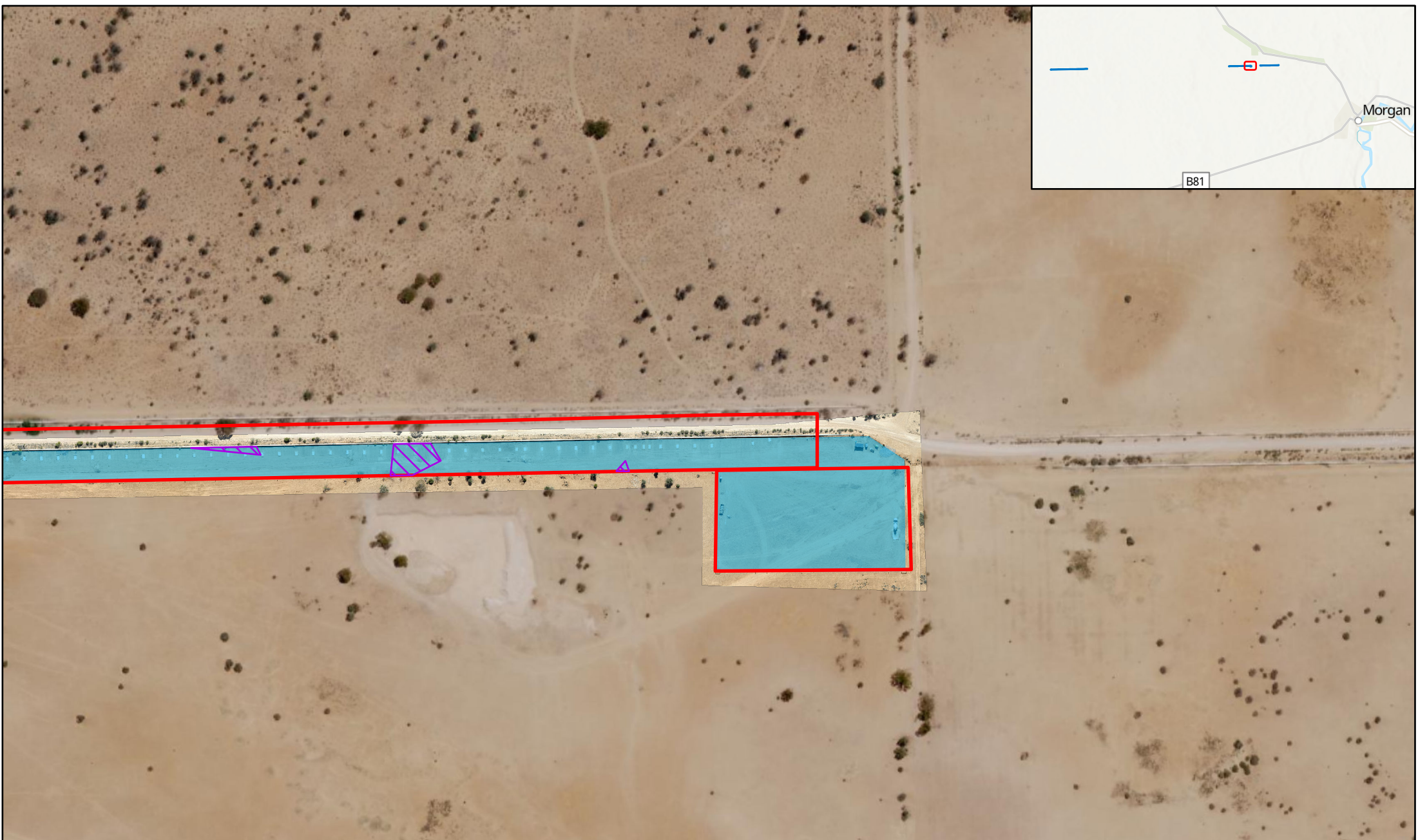
-  Cleared Area S21
(7.55 ha)
-  Approved Action
Area (11.54 ha)
-  Southern Whiteface
Habitat Cleared (2.13
ha)
-  Hooded Robin
Habitat Cleared (0.09
ha)



0 50 100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500





MWPL 1 Renewal Section 21 Cleared Area

(Map 4 of 4)

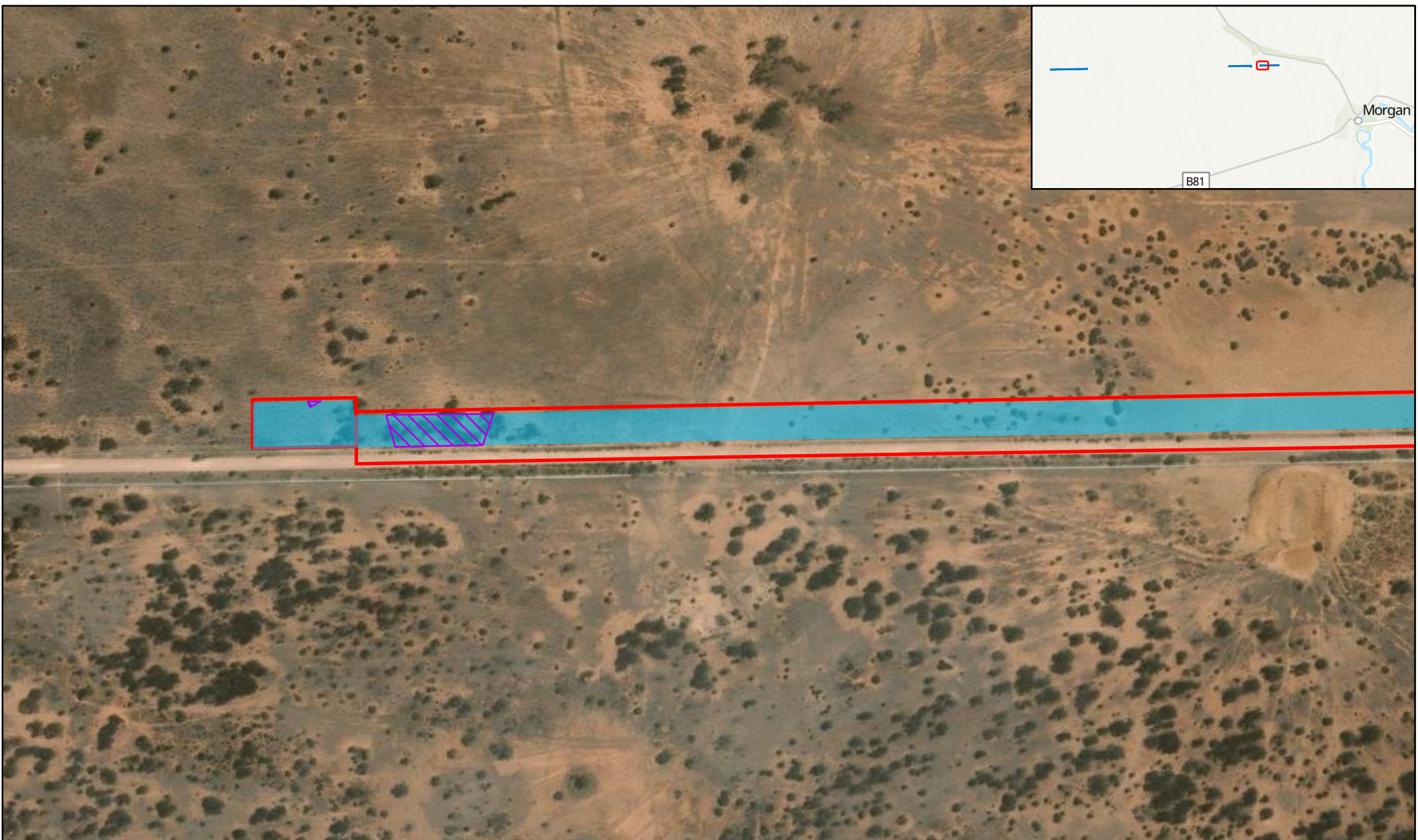
-  Cleared Area S21
(7.55 ha)
-  Approved Action
Area (11.54 ha)
-  Southern Whiteface
Habitat Cleared (2.13
ha)



0 50 100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500





MWPL 1 Renewal Section 20 Cleared Area

(Map 1 of 3)

 Cleared Area S20
(6.00 ha)

 Approved Action
Area (8.90 ha)

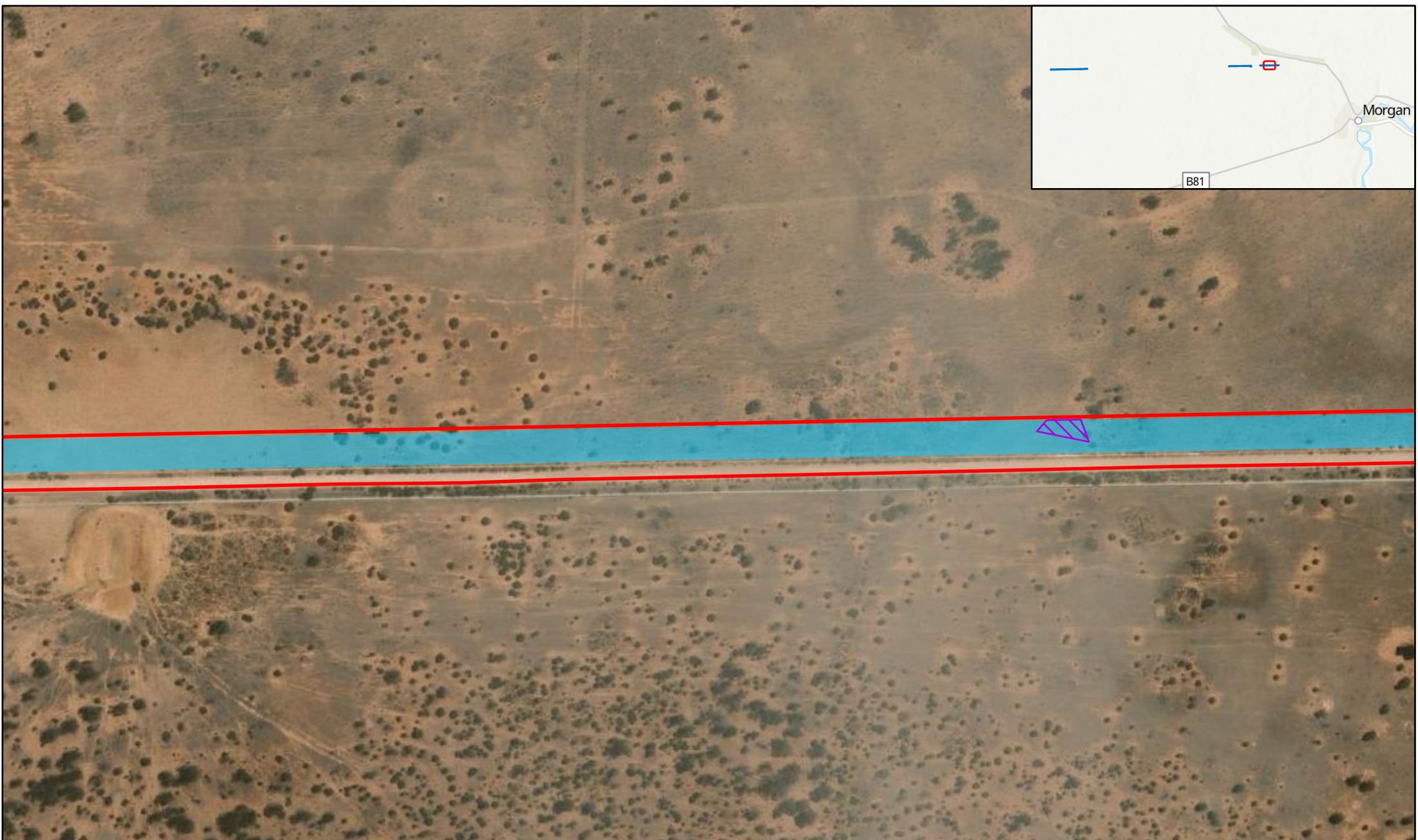
 Southern Whiteface
Habitat Cleared (0.76
ha)



050100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500





MWPL 1 Renewal Section 20 Cleared Area

(Map 2 of 3)

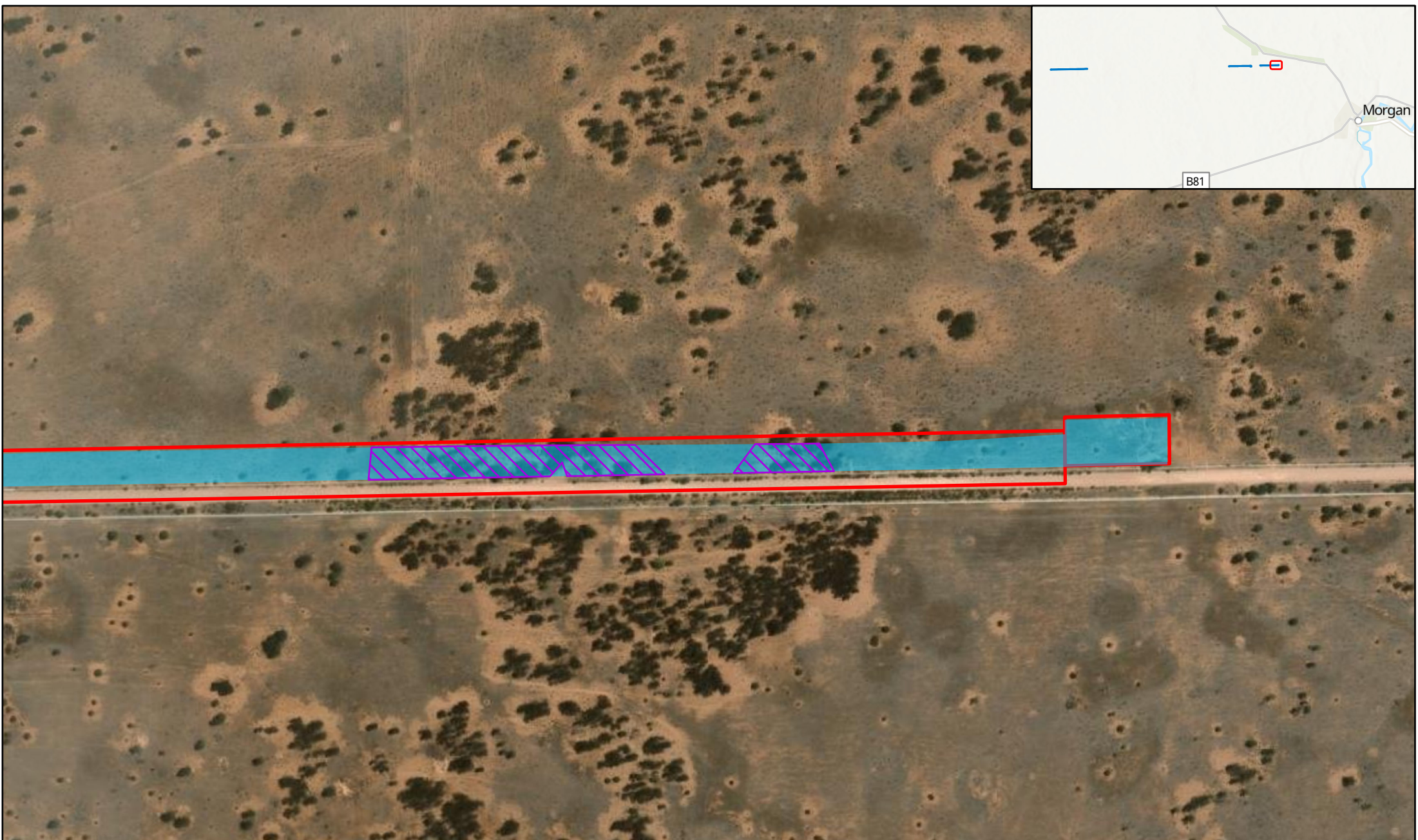
-  Cleared Area S20
(6.00 ha)
-  Approved Action
Area (8.90 ha)
-  Southern Whiteface
Habitat Cleared (0.76
ha)



0 50 100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500





MWPL 1 Renewal Section 20 Cleared Area

(Map 3 of 3)

-  Cleared Area S20
(6.00 ha)
-  Approved Action
Area (8.90 ha)
-  Southern Whiteface
Habitat Cleared (0.76
ha)

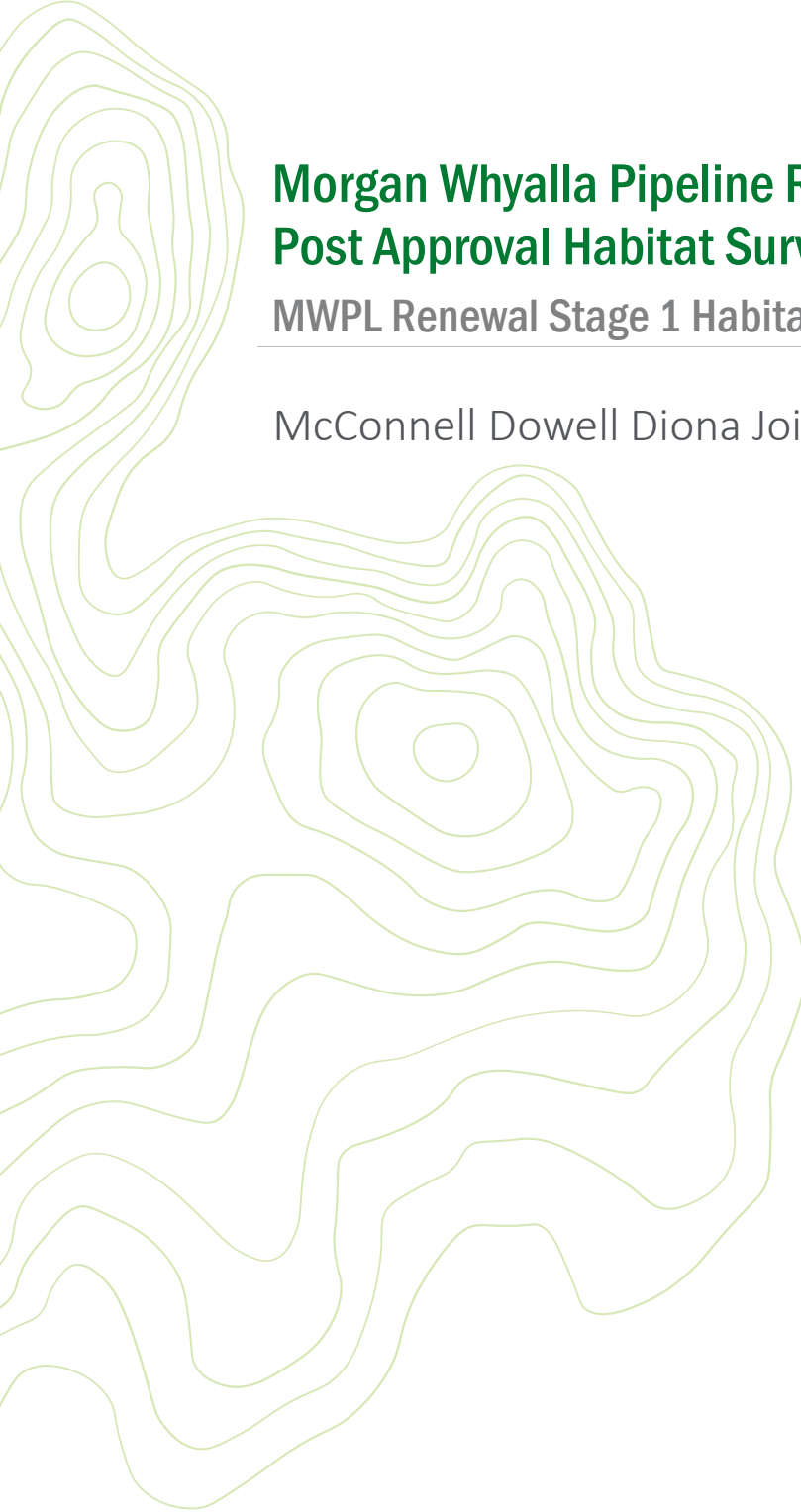


0 50 100 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829-OK Date: 5/11/2025
Scale: 1:3,500



B Pre-clearance Habitat Assessment Report



Morgan Whyalla Pipeline Renewal – Post Approval Habitat Survey

MWPL Renewal Stage 1 Habitat Survey

McConnell Dowell Diona Joint Venture

Document Tracking

Project Name:	Morgan Whyalla Pipeline Renewal - Post Approval Habitat Survey
Project Number:	24ADL10065
Project Manager:	Tobias Scheid

Version	Prepared by	Reviewed by	Approved by	Status	Date
V2	ELA	Tobias Scheid	Tobias Scheid	Final	17/04/2025

This report should be cited as ‘Eco Logical Australia 2025, Morgan Whyalla Pipeline Renewal - Post Approval Habitat Survey, Prepared for McConnell Dowell Diona Joint Venture.’

Acknowledgements

This document has been prepared by Eco Logical Australia Pty Ltd with support from MDJV.

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Abbreviations

Abbreviation	Description
AGL	Above Ground Level
DAWE	Department of Agriculture, Water and the Environment (Commonwealth) (Now DAFF and DCCEEW)
DCCEEW	Department of Climate Change, Energy, the Environment and Water (Commonwealth)
ELA	Eco Logical Australia
EPBC	Commonwealth Environment Protection and Biodiversity Conservation Act 1999
HBT	Hollow Bearing Tree
LSA	Landscape South Australia Act 2019
MBC	Mallee Bird Community
MDJV	McConnell Dowell Diona Joint Venture
MNES	Matters of National Environmental Significance
MWPL	Morgan Whyalla Pipeline
NPW	National Parks and Wildlife Act
NVC	Native Vegetation Council
PEMP	Project Environmental Management Plan
SA	South Australia
SEP	Site Environment Plan
TEC	Threatened Ecological Community
TSMP	Threatened Species Management Plan

Executive Summary

This document provides for the post approval assessment and management of Habitat for Matters of National Environmental Significance (MNES) on the Morgan Whyalla Pipeline No.1 (MWPL 1) Renewal Stage 1.

The habitat survey and this report was undertaken following a decision to refer the project under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in relation to listed threatened species and communities (section 18 and 18A) as the controlling provision. This report addresses the subsequent conditions of the approval of the project from Department of Climate Change, Environment, Energy and Water (DCCEEW) which incorporates conditions from the SA Department of Environment and Water and the Native Vegetation Council (NVC) for native vegetation clearance assessment approval. The requirements of this survey and the report are detailed in *the Morgan Whyalla Pipeline Renewal Stage 1 – Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Threatened Species Management Plan* (TSMP). The document was completed as a requirement of the following approvals and conditions

Referral under the EPBC Act - EPBC 2022 / 09438

Preliminary Documentation

Approval under EPBC and conditions

NVC approval - 2024/3319/711

Project Environmental Management Plan (PEMP)

Threatened Species Management Plan (TSMP)

In all, 38 habitat features were noted during the field investigation. These included stick and mud nests, hollow bearing trees and reptile burrows. The surveys were carried out on foot and habitat features were inspected directly or via a camera mounted on an extendable pole. No fauna was recorded during the field investigation. This was anticipated as the field investigation was conducted outside of the breeding season and why the TSMP proposed the clearance during this time.

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Figure 97: Empty stick nest	52
Figure 98: Empty mud nest	53
Figure 99: Empty tree hollow	53
Figure 100: Empty tree hollow	53
Figure 101: Empty stick nest	53
Figure 102: Empty tree hollow	53
Figure 103: Empty tree hollow	53
Figure 104: Empty tree hollow	54
Figure 105: Empty tree hollow	54
Figure 106: Empty tree hollow	54
Figure 107: Empty tree hollow	54
Figure 108: Empty tree hollow	54
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1. Introduction

Eco Logical Australia (ELA) was commissioned by McConnell Dowell Diona Joint Venture (MDJV) to undertake a habitat survey for MNES to fulfil the conditions of the EPBC approval, the TSMP and the PEMP. The decision was made to refer the project under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) on the 16 December 2022 which was accepted 27 March 2023 in relation to listed threatened species and communities as the controlled provision. The proposed action referral, later decided by a delegate for the Minister of DCCEEW on 7 August 2023, became a controlled action was assessed by Preliminary Documentation (request for further information) and was approved under Part 9 of the EPBC Act 7 November 2024 (DCCEEW (EPBC 2022 / 09438)). The habitat survey, including sections 17, 18, 20 and 21 (section 16 and 22 not subject to this work) of the pipeline was undertaken following the outcomes of this referral process and following the requirements laid down in the TSMP for the project.

The TSMP and the PEMP included environmental management measures for:

- Pre-construction
 - Establishment of temporary laydown areas.
 - Establishment of protective fencing.
 - Prior to clearance commencing, define the area or trees approved for clearance with markings, barriers, pegs, flags or temporary fencing. The markings, barriers, pegs, flags or temporary fencing must remain in place, in good condition and clearly visible, for the period in which clearance is occurring.
 - Construction Activity Zones will be well delineated with clearly signed entry and exit points. Clearly marked site maps will be provided showing entry and exit points within high-risk vegetation communities
 - All clearing works will occur according to clearing protocols, including pre-clearing surveys and staged clearing including a trained ecological or licensed wildlife handler during clearing events
 - Where possible, all works will be conducted outside of July-November to avoid breeding seasons. Particularly for Section 18 (works can continue in section 20 / 21 during July to Nov). No veg clearance may occur during the breeding season in section 18, 20, 21.

1.1. Project Background

The MWPL 1 is a 358 kilometre long, above ground pipeline that was constructed in the 1940s and is a critical asset as the only source of bulk water to the Mid-North, Yorke Peninsula and Eyre Peninsula water distribution networks in South Australia.

Given the age of the asset, SA Water have seen increases in leaks along the pipeline due to expected deterioration over time. To address the deteriorating pipeline, SA Water undertook extensive condition assessments and history of maintenance activities on the MWPL and identified sections that are the most deteriorated and at risk of failure.

To continue to deliver reliable and safe water services into the future, SA Water is planning to renew the 358- kilometre pipeline in sections (The project). This is proposed to be staged across the 40-50 years subject to SA Waters budgetary cycles and funding availability.

1.2. Project approval

SA Water Corporation sought approval for the project assessing potential impacts to MNES listed under the EPBC Act resultant from the for Project. Subsequently the project was referred to DCCEEW and deemed to be a “controlled action” with the approved assessment pathway through Preliminary Documentation as the controlling provision.

Preliminary documentation was prepared to support assessment by DCCEEW and the project was subsequently approved with conditions (EPBC 2022 / 09438) under Part 9 of the EPBC Act on 7 November 2024

Native Vegetation Council (NVC) approval was obtained on the 19/04/2022 with approval number 2024/3319/711

1.3. Project Details

The proposed action, the MWPL 1 Renewal – Stage 1 Project is the first stage of the pipeline to be referred; and includes the construction of six sections of above ground pipeline (Sections 16, 17, 18, 20, 21 and 22) alongside the existing pipeline between the towns of Morgan and Hanson, SA. Following the commissioning of the new pipeline sections, the existing pipeline will be decommissioned and removed. The pipeline section marked for renewal under the proposed action are not in numerical order. SA Water and MDJV are now only constructing sections 17,18, 20 and 21.

Table 1 below outlines the location, length and area of each section and are shown in Figure 1. Maps of the habitat points of each pipeline section are provided in Figure 3, Figure 4 and Figure 5.

Table 1 MWPL Renewal Stage 1 sections

Section	Location	Section Length (km)	Project Area (ha)	Status	Notes
16	Adelaide to Burra rail Gullet, Farrell Flat Road, Hanson	1.19	4.482	On hold	
17	Koo-owie Gap Road, Emu Downs	4.36	9.536	Construction	Not surveyed- No MNES Bird on MBC TEC habitat
18	Mickan Road, Bower	4.58	15.184	Construction	Surveyed
20	Pipeline Road, Lindley	2.21	8.897	Construction	Surveyed
21	Pipeline Road Beatty	2.7	11.539	Construction	Surveyed
22	Pipeline Road, Bower links into Section-0018 Eastern End	10.79	34.548	On hold	
On hold		11.98	39.03		
Being constructed		13.85	45.156		
Total		25.83	84.186		

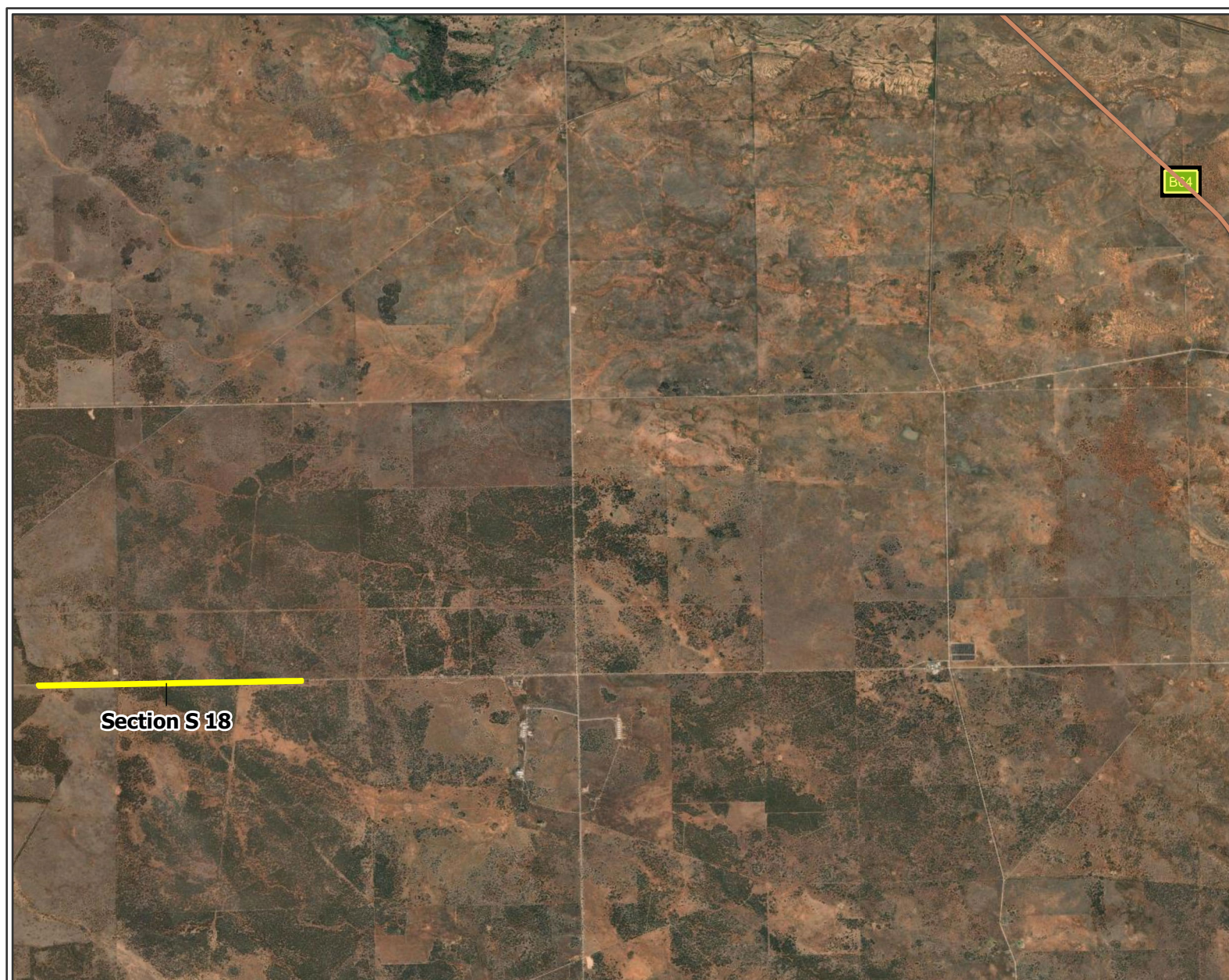


Figure 1: Study Area

-  Sections Assessed
-  State Maintained Road

1.4. Post approval requirements

The project was approved by DCCEEW on 7 November 2024 with conditions (2022/09438). This approval is shown in Appendix C. Conditions included the endorsement of state native vegetation clearance conditions as well as implementation of relevant management plans prepared to support the project and further manage and mitigate any potential direct and indirect impacts to:

- Native flora and fauna
- MNES within the Proposed action area including:
 - *Aphelocephala leucopsis* (Southern Whiteface) – listed as Vulnerable under the EPBC Act
 - *Melanodryas cucullata cucullata* (Southeastern Hooded Robin) – Listed as Endangered under the EPBC Act and Rare under the *SA National Parks and Wildlife Act 1972* (NPW Act).
 - *Mallee Bird Community of the Murray Darling Depression Bioregion* – Listed as Endangered under the EPBC Act

2. Management actions

The project approval includes the following conditions of consent relevant to habitat during the preconstruction and construction stages of the project:

Notification of Approval Decision - Morgan Whyalla Pipeline No.1 Renewal – Stage 1, SA (EPBC 2022/09438).

Clearing Limits

- (3) *To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters*

Action Management Plans

- (6) *The approval holder must implement the Project Environmental Management Plan prior to the commencement of the Action and continue to implement the Project Environmental Management Plan until the completion of the Action.*
- (7) *By implementing the Project Environmental Management Plan, the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.*
- (8) *The approval holder must implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan prior to the commencement of the Action and continue to implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan until the completion of the Action.*
- (9) *By implementing the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.*

Modifications to State or territory approval

- 21) *The approval holder must notify the department in writing of any change to the South Australian Native Vegetation Council approval conditions that may relate to protected matters, within 5 business days of such a change to conditions coming into effect. Such notification must include a copy of the changed South Australian Native Vegetation Council approval conditions showing what changes have been made.*

Relevant project management plans with enforceable actions include:

- *SA Native Vegetation Council (NVC) approval (12 June 2024, SA Water - Morgan Whyalla Number 1 Pipeline Renewal Stage 1 Amendment - between Morgan and Hanson #3319)*
- *Morgan Whyalla Pipeline Renewal Stage 1 – Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan (ELA 2024), V4*
- *3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 - Project Environmental Management Plan (SA Water Corporation 2024), V2.0*

Specific management actions, conditions and performance actions relevant to weeds during the preconstruction project stage included in Table 2 below.

Table 2 Management Actions and performance and criteria

Item no.	Plan condition no.	Action	Evidence	Performance
Notification of Approval Decision - Morgan Whyalla Pipeline No.1 Renewal – Stage 1, SA (EPBC 2022/09438).				
<u>Clearing Limits</u>				
8	3	<i>To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters.</i>	SA NVC approval is “exempt” meaning the clearance was approved because it was determined to be exempt under the Native Vegetation Regulations 2017.	No exceedance of limits
<u>Action management Plans</u>				
9	6	<i>The approval holder must implement the Project Environmental Management Plan prior to the commencement of the Action and continue to implement the Project Environmental Management Plan until the completion of the Action.</i>	See item 22 to 40	See item 22 to 40
10	7	<i>By implementing the Project Environmental Management Plan, the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.</i>	See item 22 to 40	See item 22 to 40
11	8	<i>The approval holder must implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan prior to the commencement of the Action and continue to implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan until the completion of the Action.</i>	See item 22 to 40	See item 22 to 40
12	9	<i>By implementing the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.</i>	See item 22 to 40	See item 22 to 40

Item no.	Plan condition no.	Action	Evidence	Performance
<u>Modifications to State or Territory approval</u>				
13	20	<i>The approval holder must notify the department in writing of any proposed change to the South Australian Native Vegetation Council approval that may relate to protected matters within 2 business days of formally proposing such a change and within 5 business days of becoming aware of any proposed change.</i>	SA NVC approval is “exempt” meaning the clearance was approved because it was determined to be exempt under the Native Vegetation Regulations 2017.	
SA Native Vegetation Council (NVC) approval 2024/3319/711- (12 June 2024)				
16	3	<i>Prior to clearance commencing, the applicant must define the area or trees approved for clearance with markings, barriers, pegs, flags or temporary fencing. The markings, barriers, pegs, flags or temporary fencing must remain in place, in good condition and clearly visible, for the period in which clearance is occurring.</i>	Habitat survey completed and clearance areas clearly defined	Ensure cond markings an maintained
Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan				
18		<i>All South-eastern Hooded Robins, Southern Whiteface and component MBC species occurring within the construction and operation area have the ability and time to leave the area prior to construction.</i>	Habitat survey completed. Records including locations and number of any MNES recorded with evidence of adjustment of work plans around these records	Clarence to be qualified Inductions a briefings for contractors discussion o
19		<i>Construction and operation activities do not directly result in the injury or death of any South-eastern Hooded Robins, Southern Whiteface or MBC species</i>	Habitat survey completed, Records including locations and number of any MNES recorded with evidence of adjustment of work plans around these records	Clarence to be qualified Inductions a briefings for contractors discussion o

Item no.	Plan condition no.	Action	Evidence	Performance
20		Construction and operation do not result in clearance of more than 13.98 ha of MBC TEC habitat and no clearance outside of the approved vegetation clearance area occurs.	Habitat survey completed. Boundaries for reduced clearance (22m ROW) are clearly marked for staff and contractors to see	Clerance are delineated
21		Construction and operation do not result in indirect impacts to South-eastern Hooded Robins, Southern Whiteface or MBC Component species	Habitat survey completed. Dust and noise thresholds out outlined in the SEP are adhered to.	Ongoing mo populations
3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 - Project Environmental Management Plan (SA Water Corporation 2024), V2				
22		Ensure that all staff working (civil contractors and subcontractors) on the MWPL Renewal Project under-take a site-specific environmental induction.	An SEP that contains information on the avoidance of impacts to MBC TEC and MNES and their habitats. Record of inductions referencing the SEP is maintained. Records of toolbox talks at the start of each day to discuss avoidance of impacts to MBC TEC and MNES and their habitats.	SEP created. induced pri commencing conducted

Item no.	Plan condition no.	Action	Evidence	Performance
23		Hollow Bearing Trees (HBT) to be cleared and retained are clearly identified on site specific SEPs.	HBT clearly identified on SEPs. HBT trees being cleared are delineated (to allow placement in surrounding landscape). HBT being retained are also delineated with flagging tape. See Table 3	SEP created HBT.
24		Prior to any works, trees and significant vegetation (including MBC TEC, Hollow Bearing Trees and highly suitable habitat for MNES as modelled by ELA) considered to be at risk during construction are to be identified and protected with protective fencing (e.g., temporary fluoro orange para-web fencing or similar).	HBT and other habitat for MNES to be clearly delineated both in the field and in SEP. Fencing and other protections installed as per SEP.	All key habitat and appropriate protected.
25		Signs indicating ‘no go zones’ are to be installed at intervals of no greater than 30m in clear view of site workers.	No Go signs installed	
26		A register of Hollow Bearing Trees removals is to be maintained, with tree number, photos, removal date, number of tree hollows checked, and fauna removed/noted prior to clearance.	HBT Register created	HBT Register implemented

Item no.	Plan condition no.	Action	Evidence	Performance
27		During vegetation clearance, a MDJV Environment representative must be present during pre-clearing control implementation and during vegetation clearance activities.	MDJV Environment representative present during clearance activities	MDJV Environment representative present during clearance activities
28		No vegetation clearance is to occur between July to November in Section 18, Section 22, Section 21 and Section 20 (to avoid the South-eastern Hood Robin and Southern Whiteface breeding season).	Records of when clearance occurred	Clearing is within appropriate season
29		Immediately prior to the commencement of vegetation clearance within Section 18, Section 22, Section 21 and Section 20, a pre-clearance survey is to be undertaken by a suitably qualified and experienced ecologist. The survey is to determine the presence of threatened fauna species, including <i>Aphelocephala leucopsis</i> (Southern Whiteface) and <i>Melanodryas cucullata cucullata</i> (South-eastern Hooded Robin) The survey is to include searches of habitat features including Hollow Bearing Trees and nests.	Qualified ecologist to conduct pre-clearance prior to vegetation clearance.	Habitat inspection prior to clearance pre-clearance adjusted as appropriate MNES detected
30		If nesting birds are identified during pre-clearance site inspections, the Project Manager and Environmental Manager are to be notified immediately to determine action required to relocate the nest safely if brood free or to abandon works in the immediate location until the nest is free of brood.	Records of species encountered, and photos recorded in fauna sheet	Work plan site adjusted as appropriate

Item no.	Plan condition no.	Action	Evidence	Performance
31		If threatened bird species are encountered, the individual will be provided an opportunity to move outside of the Project Footprint, which will likely occur, before works proceed.	Records of species encountered, and photos recorded in fauna sheet	Birds moved outside study area
32		Low mobility fauna recorded during the pre-clearance surveys are to be relocated to suitable habitat a safe distance from the works by a qualified ecologist. This will include (where opportunistically encountered during pre-clearing works) species such as small reptiles (e.g., <i>Tiliqua rugosa</i> (Sleepy lizards)). Release areas to be marked on site plans. Potential species will be covered in PEMP with site photos including relocation area and protocol.	Records of species encountered, and photos recorded in fauna sheet	Any slow-moving fauna removed as
33		A licenced fauna handler is to be present for the duration of vegetation clearance within Section 18, Section 22, Section 21 and Section 20 to monitor for non-breeding individuals.		
34		Prior to the commencement of vegetation clearance in Section 17 a licenced fauna handler is to conduct a pre-clearing survey to identify high-risk areas of where fauna is likely to be present.	Areas of high-risk habitat and marked appropriately in the construction area	High risk areas identified and clearly marked

Item no.	Plan condition no.	Action	Evidence	Performance
35		If nesting birds are identified during pre-clearance site inspections, the Project Manager and Environmental Manager are to be notified immediately to determine appropriate course of action	Records of notification to the Project Manager and Environmental Manager, list of actions taken.	No direct or nesting birds the clearance
36		Traffic within the Proposed Action area and ROW to be speed limited (30km/h) to reduce potential impacts to fauna crossing into the Proposed Action Area.	Included in the PEMP and SEP. Signage and discussion point in inductions and toolbox talks.	Speed limits
37		Invasive construction activities including vegetation clearing use of heavy machinery and other activities will not be undertaken during the breeding season between July to November in areas of Highly Suitable Habitat for South-eastern Hood Robin and Southern Whiteface (located in Section 18, Section 22, Section 21 and Section 20) to avoid the South-eastern Hood Robin and Southern Whiteface breeding season.	Construction schedule	No clearance permitted w
38		If <i>Aphelocephala leucopsis</i> (Southern Whiteface), <i>Melanodryas cucullata cucullata</i> (South-eastern Hooded Robin) or <i>Tiliqua adelaidensis</i> (Pygmy Blue-tongue Lizard) are observed in the Proposed Action Area at any time during construction works, the number and locations of individuals will be recorded, and records submitted to DEW for inclusion into the Biological Databases of South Australia (BDBSA).	Records of species encountered, and photos recorded in fauna record sheet	Fauna records appropriate

Item no.	Plan condition no.	Action	Evidence	Performance
39		Appropriate measures are put in place to minimise direct/indirect impacts to fauna.	<p>Measures to limit impacts (as detailed in PEMP and SEP) to include:</p> <ul style="list-style-type: none"> Limiting clearance and construction windows outside of breeding seasons for MNES as per PEMP Retain and protect key habitat as per PEMP and SEP Fauna handler present during clearing Dust and noise mitigation measures detailed in SEMP and PEP Incident reporting processes including a fauna record sheet. Induction and daily briefings to staff and contractors on minimising impacts to fauna. HBT tree record sheet to be created 	Compliance measures detailed in PEMP and SEP
40		Any fauna strikes and /or deaths are to be recorded and reported immediately to SA Water's Environmental Representative.	Fauna Record Sheet, notice of reports to SA Water	Fauna records to be maintained appropriately

3. Methods

A pre-clearance Ecological Survey was conducted prior to clearing of vegetation on the 24th and 25th of February. This survey was undertaken to meet the requirements of management actions and performance criteria detailed in Table 2 above. These actions include:

- The requirement to document the presence, including active nesting or roosting, of any fauna including MNES bird species and those that form part of the MBC TEC.
- To appropriately mark habitat features such as HBT that are either to be removed and placed in the surrounding landscape or protected with the construction area

The field investigation was undertaken by ELA Principal Ecologist Tobias Scheid with assistance from Issac Axford (Environmental Consultant) to determine the presence of fauna species and habitat features. It sought to record where, how many and what these habitat features were and to physically mark these features. Particularly attention was paid to the MNES in the referral namely, South-eastern Hooded Robin, Southern Whiteface, and the MBC TEC

Other hazards such as bee nests, hanging branches and wire fences were also identified. Suitable salvage features such as large logs and potential fauna release locations were also identified. Orange flagging tape was used to mark habitat trees and the tree limb (where appropriate) with the habitat item (nest, hollow etc) flagged for easy identification. The features were catalogued include a description of the data recorded in Table 3.

Features beyond the reach of direct visual inspection were inspected through the use of the telescopic pole (range to 8m) with a wirelessly operated camera fixed to the top. An example photo of an empty mud nest taken with the camera is shown in Figure 2 below.

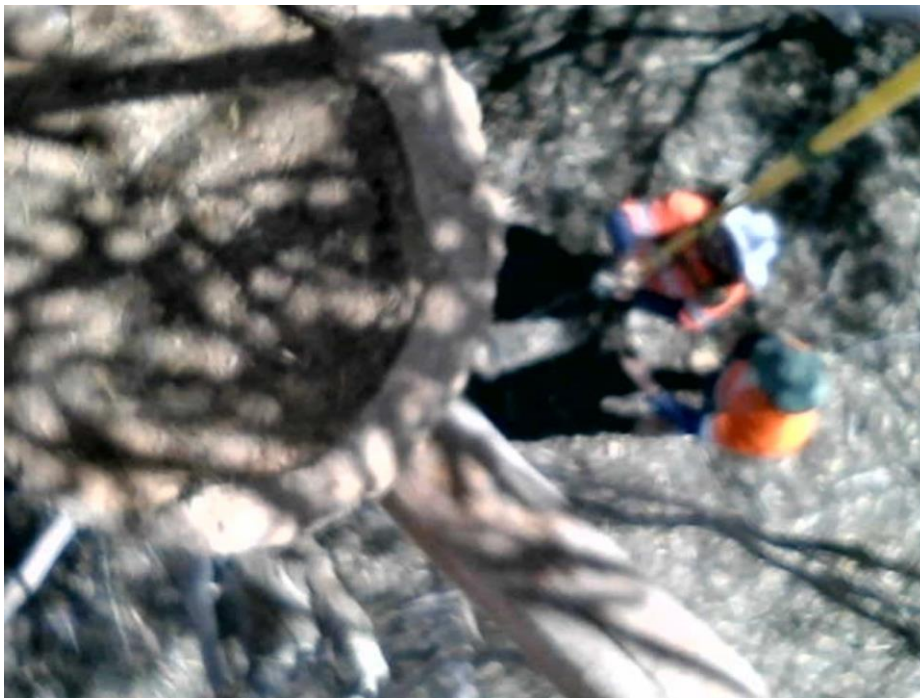


Figure 2: Telescopic pole and camera used for inspection of habitat features.

4. Results

In total 38 habitat features were recorded across the study area. None of these were occupied at the time of the visit and no fauna species were recorded. Figure 3, Figure 4 & Figure 5 show the location of these habitat features while Table 3 provides details of each feature with a link to a photo plate for each which can be found in Appendix A. Representative photos of selected features taken with the telescopic pole and camera are included as the final plate in Appendix A.

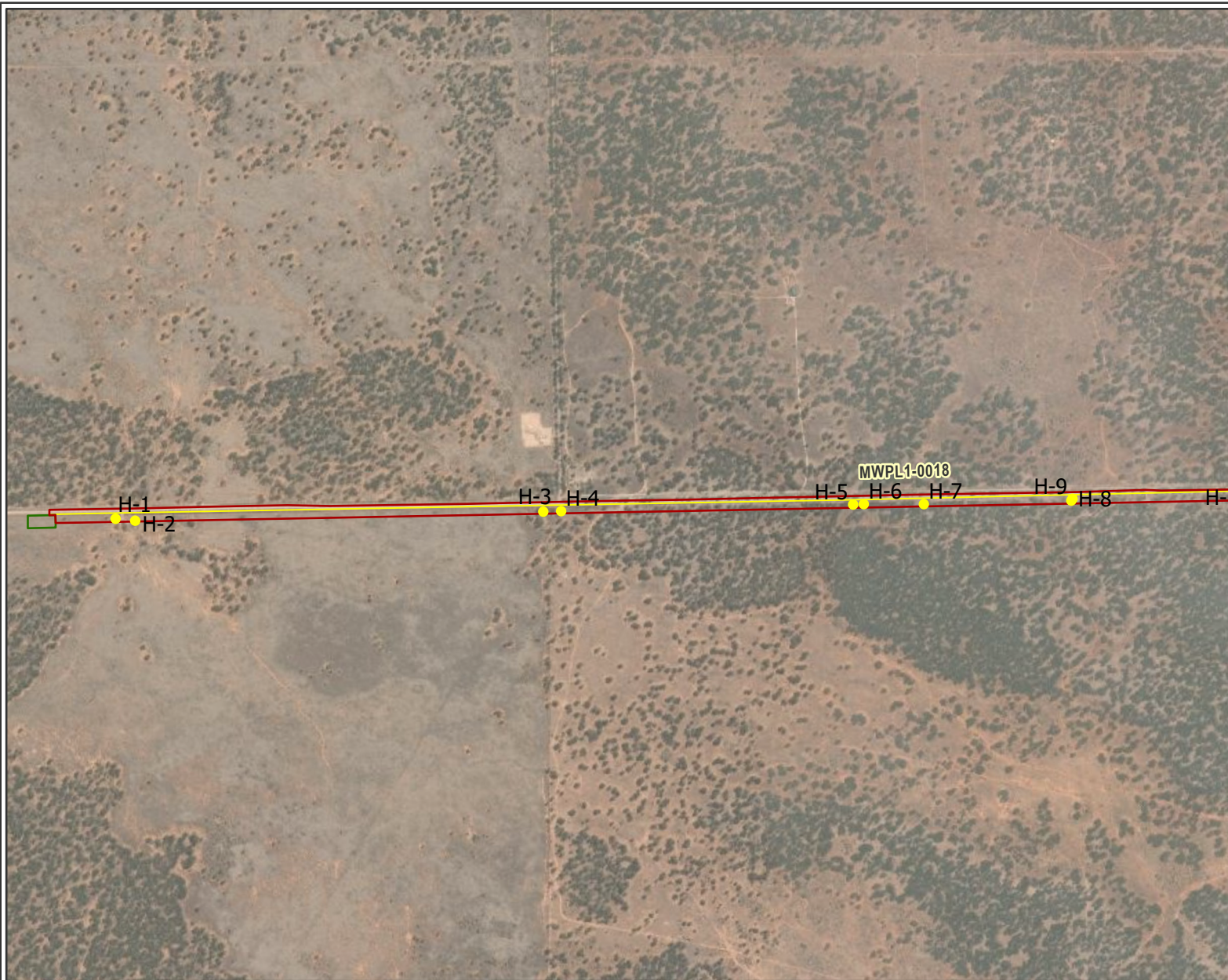


Fig 03 Habitat points within the study area (Section 18)

- Habitat Points
- Right of Way (ROW)
- Access Tracks, Turnaround Bays
- Laydown Areas
- Renewal Section

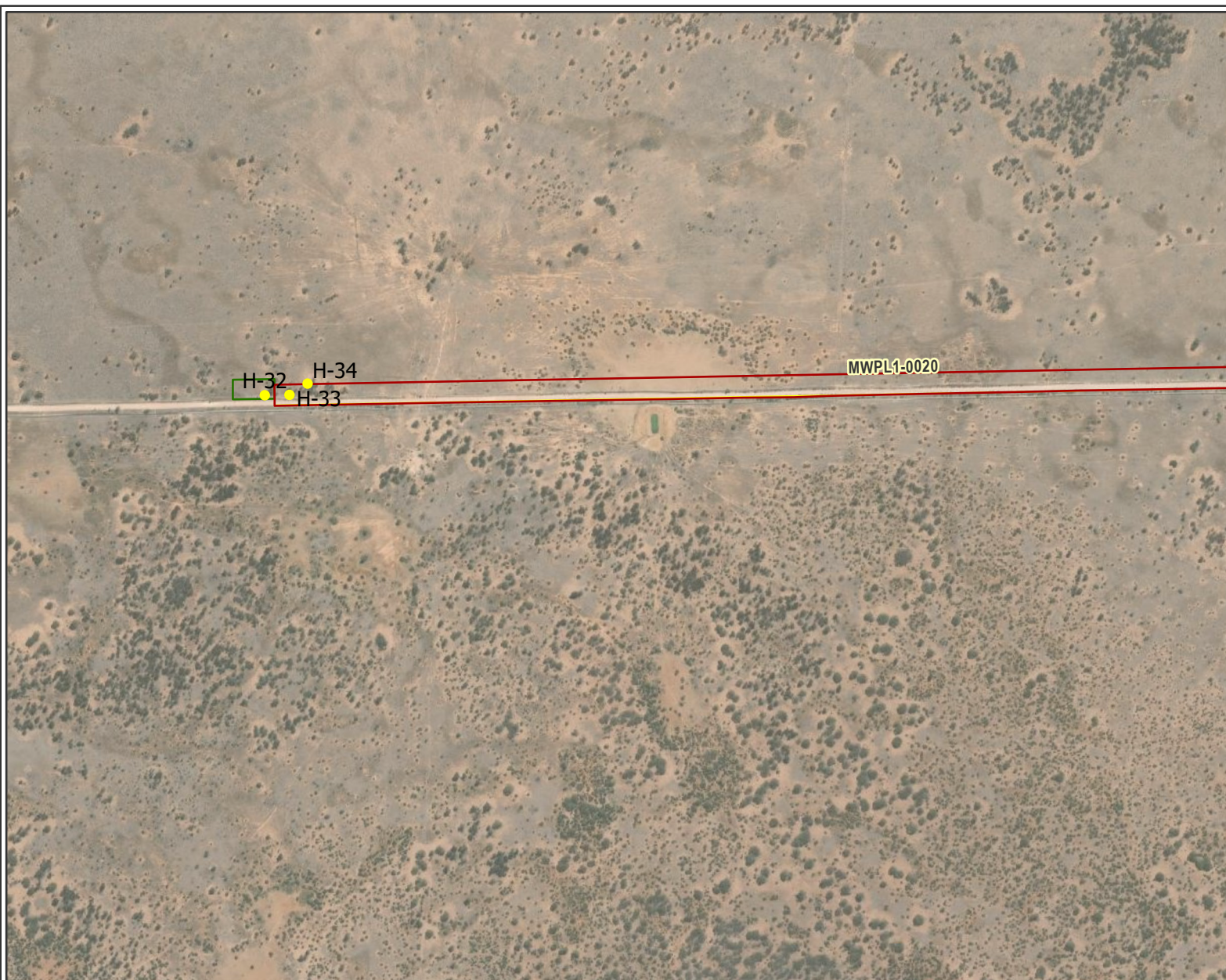


Fig 04 Habitat points within the study area (Section 20)

- Habitat Points
- Right of Way (ROW)
- Access Tracks, Turnaround Bays
- Laydown Areas
- Renewal Section



Fig 05 Habitat points within the study area (Section 21)

- Habitat Points
- Right of Way (ROW)
- Access Tracks, Turnaround Bays
- Laydown Areas
- Renewal Section

Table 3: Habitat features recorded across the study area

No.	Habitat feature	Section	Pipe chainage	Photo	Notes
H-1	Stick Nest- empty	Section 18	4360	Figure 6, Figure 7	Large stick nest
H-2	HBT -empty	Section 18	4300	Figure 8, Figure 9	1 small hollow
H-3	HBT -empty	Section 18	3160	Figure 10	1 small hollow 10 cm trunk
H-4	HBT -empty	Section 18	3120	Figure 11	1 large trunk 300 mm empty hollow, northern trunk spout western trunk 80mm empty
H-5	Reptile Burrow- empty	Section 18	2300	Figure 12	Reptile burrow empty
H-6	HBT -empty	Section 18	2280	Figure 13	Empty Hollow 1 small ~50mm
H-7	Stick Nest- empty	Section 18	2100	Figure 14, Figure 15	Mallee with stick nest in canopy empty, Little Raven (Corvus)
H-8	HBT nest	Section 18	1700	Figure 16, Figure 17	Nest in hollow spout
H-9	HBT -empty	Section 18	1680	Figure 18	Two medium hollows at 5.3m
H-10	HBT -empty	Section 18	1180	Figure 19, Figure 20, Figure 21	4 hollows
H-11	Retained tree	Section 18	1160	Figure 22	Retained
H-12	HBT -empty	Section 18	1160	Figure 23	1 hollow 150mm diameter, runs deep, vertically into trunk,
H-13	HBT -empty	Section 18	1080	Figure 24, Figure 25	Long split trunk hollow from base empty
H-14	HBT -empty	Section 18	1060	Figure 26, Figure 27, Figure 28	3 hollows in trunk at 2, 4 and 3 meters off the ground
H-15	Stick Nest- empty	Section 18	1060	Figure 29, Figure 30	Nest, Corvus - Little Raven ~9 m from ground level
H-16	Stick Nest- empty	Section 18	940	Figure 31, Figure 32	Large stick nest, outside no trimming

No.	Habitat feature	Section	Pipe chainage	Photo	Notes
H-17	HBT -empty	Section 18	920	Figure 33, Figure 34, Figure 35	2 small hollows in the trunk
H-18	Mud Nest-empty	Section 18	840	Figure 36, Figure 37	Empty Mud nest ~7 m on a limb. <i>Corcorax melanorhamphus</i> (Chough)
H-19	Stick Nest- empty	Section 18	720	Figure 38, Figure 39, Figure 40, Figure 41	Medium stick nest 8.3 m above ground level
H-20	Stick Nest- empty	Section 18	660	Figure 42, Figure 43	Medium stick nest >8.5 m falling apart empty
H-21	Stick Nest- empty	Section 21	2080	Figure 44, Figure 45	Stick nest likely raven or <i>Corvus</i> old empty abandoned 6.5m
H-22	Web Grass Nest- empty	Section 21	2060	Figure 46	Small nest made from spider webs in <i>Acacia</i> sp. likely a fairy wren.
H-23	Stick Nest- empty	Section 21	2000	Figure 47	Empty Stick nest in mallee 5.15 m AGL
H-24	Stick Nest- empty	Section 21	1800	Figure 48, Figure 49, Figure 50, Figure 51, Figure 52	2 stick nests old and abandoned 6 m in canopy one nest fallen
H-25	Stick Nest- empty	Section 21	1760	Figure 53, Figure 54	Stick nest 6.5 m empty
H-26	HBT -empty	Section 21	1500	Figure 55, Figure 56, Figure 57, Figure 58	1 stick nest 7.2
H-27	Stick Nest- empty	Section 21	1500	Figure 59, Figure 60, Figure 61, Figure 62, Figure 63	2 nests, 1 stick nest falling apart abandoned 6.5m, the other 7.3m AGL in canopy
H-28	Stick Nest- empty	Section 21	860	Figure 64, Figure 65	Stick nest likely Little Raven 5.2m empty
H-29	Stick Nest- empty	Section 21	840	Figure 66, Figure 67,	Stick nest likely Little Raven 5.5m AGL
H-30	Grass nest-empty	Section 21	560	Figure 68, Figure 69, Figure 70, Figure 71	Grass nest probably wren or thornbill in <i>Acacia</i> shrub- empty

No.	Habitat feature	Section	Pipe chainage	Photo	Notes
H-31	HBT -empty	Section 21	220	Figure 72, Figure 73	Dead tree (stag), hollow limb, hollow at Y point of trunk to empty
H-32	Stick Nest- empty	Section 20	2160	Figure 74, Figure 75	Stick nest in <i>Casuarina cristata</i> (Belah) 5.3m empty
H-33	Stick Nest- empty	Section 20	2120	Figure 76	Large stick nest in <i>Casuarina cristata</i> (Belah)
H-34	Stick Nest- empty	Section 20	2100	Figure 77	Stick nest in <i>Casuarina cristata</i> (Belah)
H-35	Stick Nest- empty	Section 20	300	Figure 78, Figure 79	Little Stick nest (200mm diameter) <i>Casuarina cristata</i> (Belah) ground level- empty
H-36	Stick Nest- empty	Section 20	140	Figure 80, Figure 81	1 stick nest <i>Casuarina cristata</i> (Belah) 6.7m above ground level abandoned
H-37	Stick Nest- empty	Section 20	140	Figure 82, Figure 83	2 stick nests in <i>Casuarina cristata</i> (Belah) 6.3 and 7.5-8m above ground level abandoned
H-38	Stick Nest- empty	Section 20	120	Figure 84, Figure 85	Stick nest in <i>Casuarina cristata</i> (Belah) 8.3m above ground level

5. Discussion

The results of the field investigation mean that the project is currently compliant with its obligations for its approvals as detailed in Table 2 above. No fauna was recorded during the field investigation and none of the habitat features recorded such as nests and drays were occupied. All of these potential features were clearly marked as per the methodology described above. Induction materials for contractors and staff including identification material for the MNES species have also been developed which discussion points for environmental matters such as MNES sightings in the daily toolbox talks

In further stages of the project including vegetation clearance and construction will require additional works to maintain this compliance. This includes:

- The placement of the removed, marked habitat trees and stumps back into the surrounding landscape once the clearance has taken place.
- The mulching/chipping of other vegetation materiel
- The development and maintenance of a fauna register that is accessible to all staff and contractors and used to report potential sightings of MNES and other wildlife in the project area.
- Ongoing monitoring of marking and protections (fencing etc) for habitat features marked as needing to remain in the study area

Appendix A Habitat Features photo plates



Figure 6: H1



Figure 7: H1



Figure 8: H2



Figure 9: H2



Figure 10: H3



Figure 11: H4



Figure 12: H5



Figure 13: H6



Figure 14: H7



Figure 15: H7



Figure 16: H8



Figure 17: H8



Figure 18: H9



Figure 19: H10



Figure 20: H10



Figure 21: H10



Figure 22: H11



Figure 23: H12



Figure 24: H13



Figure 25: H13



Figure 26: H14



Figure 27: H14



Figure 28: H14



Figure 29: H15



Figure 30: H15



Figure 31: H16



Figure 32: H16



Figure 33: H17



Figure 34: H17



Figure 35: H17



Figure 36: H18



Figure 37: H18



Figure 38: H19



Figure 39: H19



Figure 40: H19



Figure 41: H19



Figure 42: H20



Figure 43: H20



Figure 44: H21



Figure 45: H21



Figure 46: H22



Figure 47: H23



Figure 48: H24



Figure 49: H24

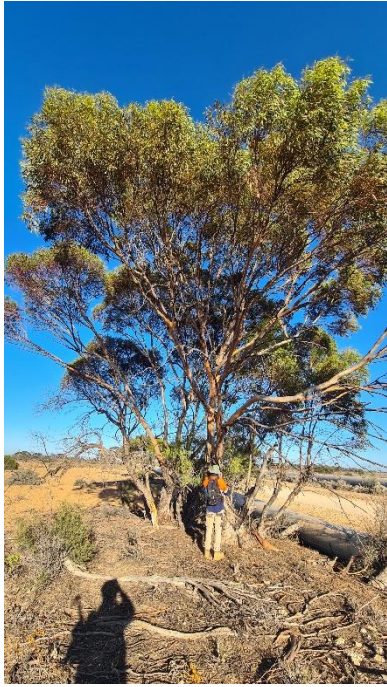


Figure 50: H24



Figure 51: H24



Figure 52: H24



Figure 53: H25



Figure 54: H25



Figure 55: H26



Figure 56: H26



Figure 57: H26



Figure 58: H26



Figure 59: H27

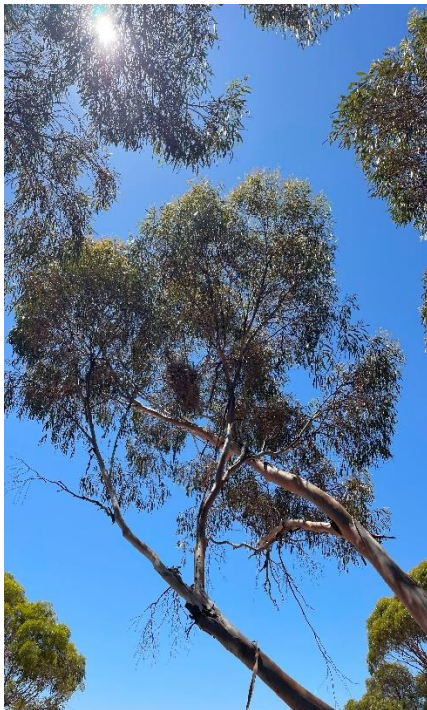


Figure 60: H27



Figure 61: H27



Figure 62: H27



Figure 63: H27



Figure 64: H28



Figure 65: H28



Figure 66: H29



Figure 67: H29



Figure 68: H30



Figure 69: H30



Figure 70: H30



Figure 71: H30



Figure 72: H31



Figure 73: H31



Figure 74: H32

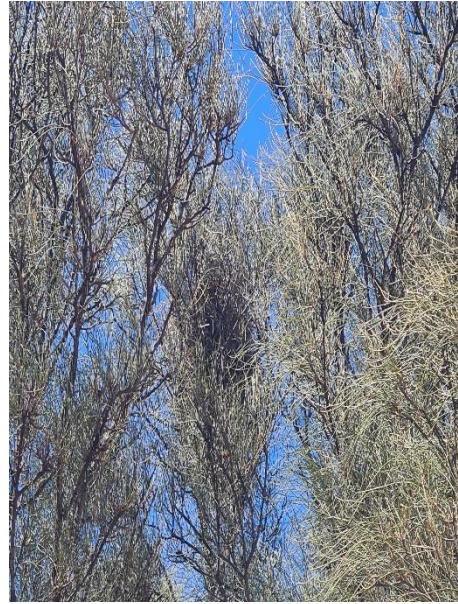


Figure 75: H32



Figure 76: H33



Figure 77: H34



Figure 78: H35



Figure 79: H35



Figure 80: H36



Figure 81: H36



Figure 82: H37



Figure 83: H37



Figure 84: H38



Figure 85: H38



Figure 86: Empty stick nest



Figure 89: Empty stick nest



Figure 87: Empty stick nest



Figure 90: Empty stick nest



Figure 88: Empty stick nest



Figure 91: Empty stick nest



Figure 92: Empty stick nest



Figure 93: Empty stick nest



Figure 94: Empty stick nest



Figure 95: Empty stick nest

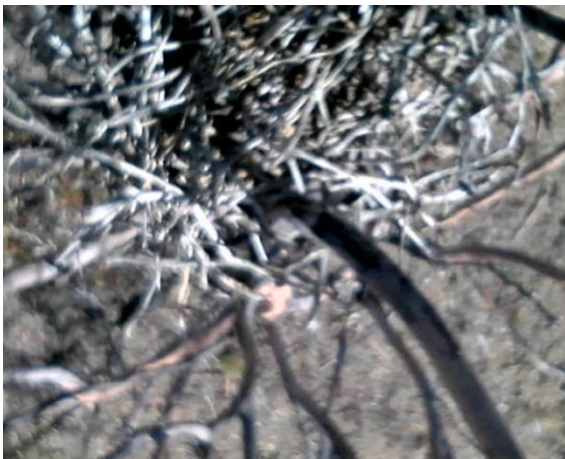


Figure 96: Empty stick nest



Figure 97: Empty stick nest

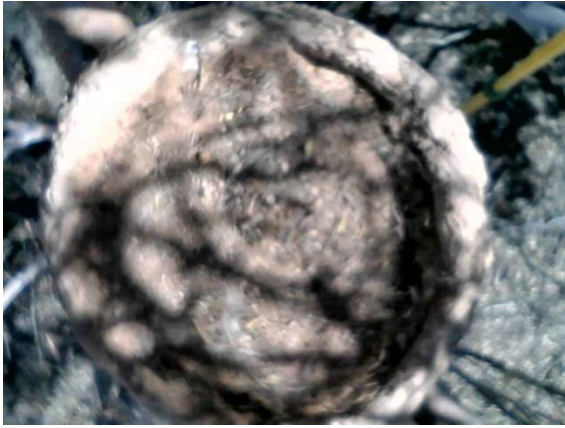


Figure 98: Empty mud nest



Figure 99: Empty tree hollow



Figure 100: Empty tree hollow



Figure 101: Empty stick nest

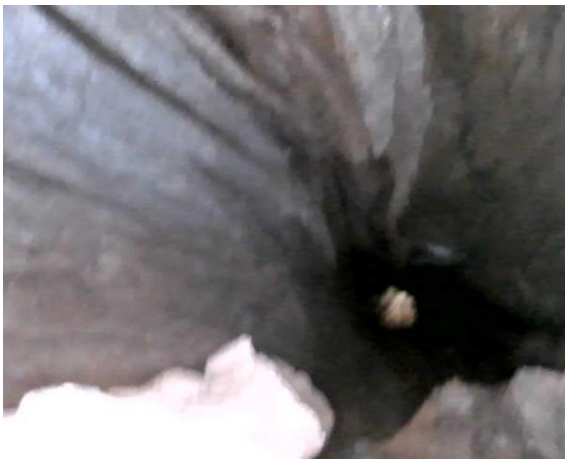


Figure 102: Empty tree hollow



Figure 103: Empty tree hollow



Figure 104: Empty tree hollow



Figure 105: Empty tree hollow



Figure 106: Empty tree hollow



Figure 107: Empty tree hollow



Figure 108: Empty tree hollow



Figure 109: Empty tree hollow



Figure 110: Empty stick nest



Figure 111: Empty tree hollow



Figure 112: Empty lizard burrow



Figure 113: Empty tree hollow



Figure 114: Empty tree hollow



Figure 115: Empty tree hollow



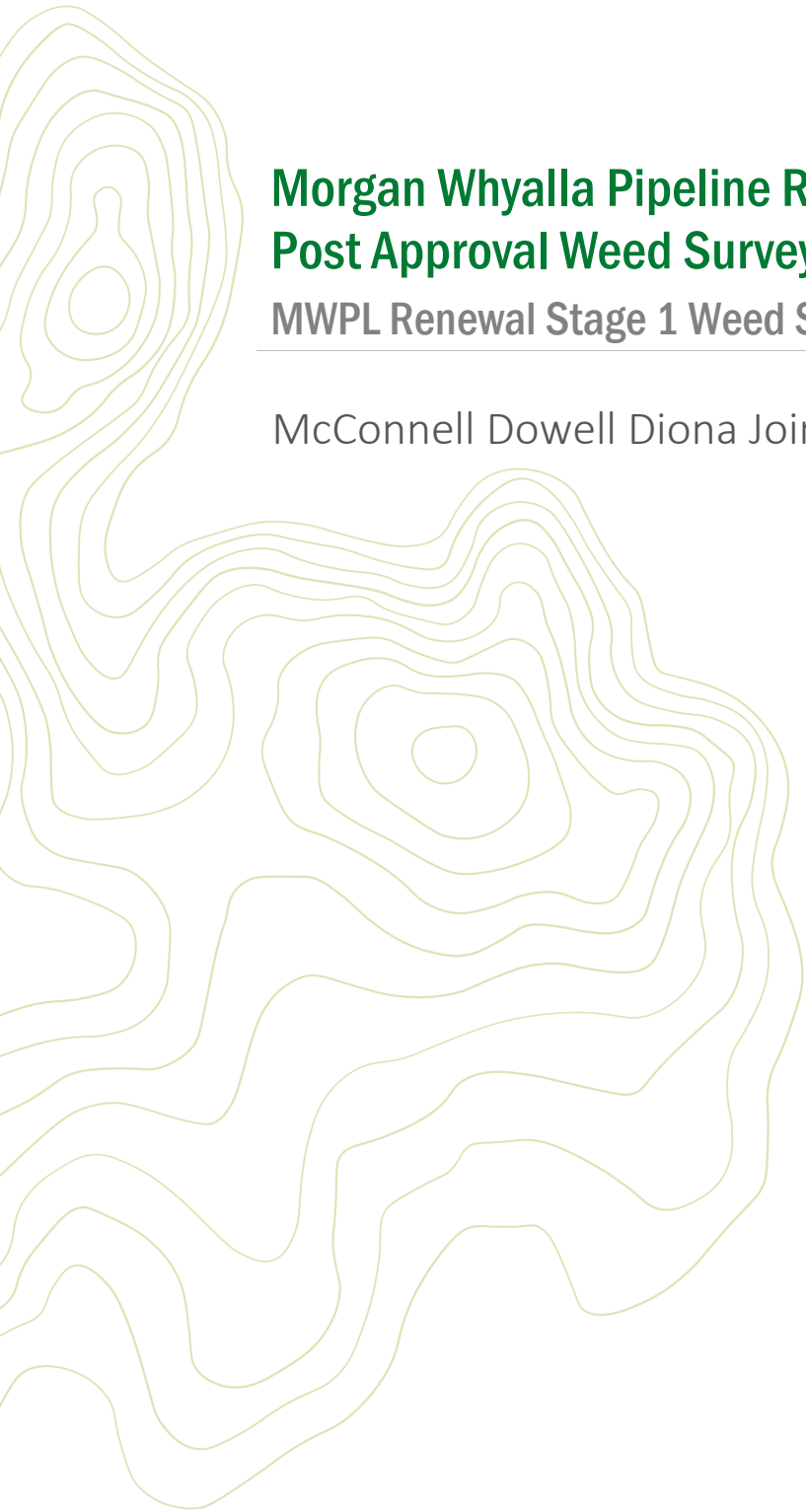
Figure 116: Empty stick nest



Figure 117: Empty stick nest



C Pre-clearance Weed Survey Report



Morgan Whyalla Pipeline Renewal – Post Approval Weed Survey

MWPL Renewal Stage 1 Weed Survey

McConnell Dowell Diona Joint Venture

Document Tracking

Project Name:	Morgan Whyalla Pipeline Renewal - Post Approval Weed Survey
Project Number:	24ADL10065
Project Manager:	Tobias Scheid

Version	Prepared by	Reviewed by	Approved by	Status	Date
2	ELA	Tobias Scheid	Tobias Scheid	Draft	05/05/2025

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Abbreviations

Abbreviation	Description
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DEW	Department for Environment and Water
ELA	Eco Logical Australia Pty Ltd
EPBC	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
ESRI	Environmental Systems Research Institute, Inc.
GPS	Global Positioning System
LSA	<i>Landscape South Australia Act 2019</i>
MBC	Mallee Bird Community
MDJV	McConnell Dowell Diona Joint Venture
MNES	Matters of National Environmental Significance
MWPL	Morgan Whyalla Pipeline
NPW	<i>National Parks and Wildlife Act 1972</i>
NVAP	Native Vegetation Assessment
NVB	Native Vegetation Branch
NVC	Native Vegetation Council
PEMP	Project Environmental Management Plan
ROW	Right of Way
SA	South Australia
SAPPA	South Australian Property and Planning Atlas
TEC	Threatened Ecological Community
TSMP	Threatened Species Management Plan
WoNS	Weeds of National Significance

Executive Summary

This document provides the post approval assessment and management of weeds on the Morgan Whyalla Pipeline No.1 (MWPL 1) Renewal Stage 1. This is to support a decision under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in relation to listed threatened species and communities (section 18 and 18A) as the controlling provision and address subsequent conditions of the approval of the project from Department of Climate Change, Environment, Energy and Water (DCCEEW) which incorporates conditions from the SA State Government, Department of Planning and Water, Native Vegetation Council for native vegetation clearance assessment approval.

Eco Logical Australia (ELA) was commissioned by McConnell Dowell Diona Joint Venture (MDJV) to undertake a weed survey for a preclearance and preconstruction requirement of environmental management actions developed and approved by the Australian Government, Department of Climate Change, Environment, Energy and Water (DCCEEW) and found within the South Australia Water Corporation (SA Water) *Project Environmental Management Plan (PEMP) 2025*, the *Morgan Whyalla Pipeline Renewal Stage 1 – Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan* (Threatened Species Management Plan-TSMP) (ELA 2024) and approval conditions of consent issued by the Native Vegetation Assessment Panel (NVAP) and Native Vegetation Branch (NVB). Weed management is in accordance with the *Landscape South Australia Act 2019* (LSA Act) specifically concerning movement of Declared plants (Section 186). The Threatened Species Management Plan (TSMP), Project Environmental Management Plan (PEMP) and state vegetation clearance approval include conditional environmental management measures for:

- Pre-construction
 - Establishment of temporary laydown areas.
 - Establishment of temporary washdown areas.
 - Establishment of protective fencing.
 - Management of weeds where required.
 - Protect environmental and property assets from weeds including the use of existing surface access tracks
 - Contractor to undertake a weed survey prior to works commencing, documenting a weed of concern
 - Vegetative material to be chipped and stockpiled.
 - Topsoil removed and stockpiled
- Construction
 - Weed management during construction activities.
- Install designated washdown bay to prevent weed spread
- Include weed identification material in site work plans and display fact sheets of any Declared weed
- Remove or destroy all priority weed listed for the Landscape management regions or Weeds of National Significance prior to ground disturbance and vegetation clearing

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1. Introduction

1.1. Project Background

The MWPL 1 is a 358 kilometre long, above ground pipeline that was constructed in the 1940s and is a critical asset as the only source of bulk water to the Mid-North, Yorke Peninsula and Eyre Peninsula water distribution networks in South Australia.

Given the age of the asset, SA Water have seen increases in leaks along the pipeline due to expected deterioration over time. To address the deteriorating pipeline, SA Water undertook extensive condition assessments and history of maintenance activities on the MWPL and identified sections that are the most deteriorated and at risk of failure.

To continue to deliver reliable and safe water services into the future, SA Water is planning to renew the 358- kilometre pipeline in sections (The project). This is proposed to be staged across the 40-50 years subject to SA Waters budgetary cycles and funding availability.

1.2. Project approval

SA Water sought approval for the project assessing potential impacts to Matters of National Environmental Significance (MNES) listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) resultant from the Project. Subsequently the project was referred to the Australian Government, Department of Climate Change, Environment, Energy and Water (DCCEEW) and deemed to be a “controlled action” with the approved assessment pathway through Preliminary Documentation as the controlling provision.

Preliminary documentation was prepared to support assessment by DCCEEW and the project was subsequently approved with conditions (EPBC 2022 / 09438) under Part 9 of the EPBC Act on 7 November 2024. Subsequent conditions of the approval of the project from DCCEEW incorporates conditions from the SA Department of Environment and Water and the Native Vegetation Council (NVC) for native vegetation clearance assessment approval which was obtained 19 April 2022 (2024/3319/711).

1.3. Project Details

The proposed action, the MWPL 1 Renewal – Stage 1 Project is the first stage of the pipeline to be referred; and includes the construction of six sections of above ground pipeline (Sections 16, 17, 18, 20, 21 and 22) alongside the existing pipeline between the towns of Morgan and Hanson, SA. Following the commissioning of the new pipeline sections, the existing pipeline will be decommissioned and removed. The pipeline section marked for renewal under the proposed action are not in numerical order. SA Water and MDJV are now only construction sections

Table 1 below outlines the location, length and area of each section and maps of each pipeline section are provided in Figure 1. ELA were also asked to include a stockpiling location that will be used during construction within the weed survey and management scope, this area is approximately 3.3 ha and located to the far east of the project area approximately 2 km northeast of Morgan town centre (Figure 1).

Table 1 MWPL Renewal Stage 1 sections

Section	Location	Section Length (km)	Project Area (ha)	Status
16	Adelaide to Burra rail Gullet, Farrell Flat Road, Hanson	1.19	4.482	On hold
17	Koo-owie Gap Road, Emu Downs	4.36	9.536	Construction
18	Mickan Road, Bower	4.58	15.184	Construction
20	Pipeline Road, Lindley	2.21	8.897	Construction
21	Pipeline Road Beatty	2.7	11.539	Construction
22	Pipeline Road, Bower links into Section-0018 Eastern End	10.79	34.548	On hold
On hold		11.98	39.03	
Being constructed		13.85	45.156	
Total		25.83	84.186	

1.4. Post approval requirements

The project was approved by DCCEEW on 7 November 2024 with conditions (2022/09438), Appendix C. Conditions included the endorsement of state native vegetation clearance conditions as well as implementation of relevant management plans prepared to support the project and further manage and mitigate any potential direct and indirect impacts to:

- Native flora and fauna
- MNES within the proposed action area including:
 - *Aphelocephala leucopsis leucopsis* (Southern Whiteface) – listed as Vulnerable under the EPBC Act
 - *Melanodryas cucullata cucullata* (South Eastern Hooded Robin) – Listed as Endangered under the EPBC Act and Rare under the *SA National Parks and Wildlife Act 1972* (NPW Act).
 - *Mallee Bird Community of the Murray Darling Depression Bioregion* – Listed as Endangered under the EPBC Act



Figure 1: Study Area

-  Sections Assessed
-  State Maintained Road

2. Management actions

The project approval includes the following conditions of consent relevant to weeds during the preconstruction and construction stages of the project:

Notification of Approval Decision - Morgan Whyalla Pipeline No.1 Renewal – Stage 1, SA (EPBC 2022/09438).

Clearing Limits

- (3) *To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters*

Action Management Plans

- (6) *The approval holder must implement the Project Environmental Management Plan prior to the commencement of the Action and continue to implement the Project Environmental Management Plan until the completion of the Action.*
- (7) *By implementing the Project Environmental Management Plan, the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.*
- (8) *The approval holder must implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan prior to the commencement of the Action and continue to implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan until the completion of the Action.*
- (9) *By implementing the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.*

Modifications to State or territory approval

- 20) *The approval holder must notify the department in writing of any proposed change to the South Australian Native Vegetation Council approval that may relate to protected matters within 2 business days of formally proposing such a change and within 5 business days of becoming aware of any proposed change.*
- 21) *The approval holder must notify the department in writing of any change to the South Australian Native Vegetation Council approval conditions that may relate to protected matters, within 5 business days of such a change to conditions coming into effect. Such notification must include a copy of the changed South Australian Native Vegetation Council approval conditions showing what changes have been made.*

Relevant project management plans with enforceable actions include:

- *SA Native Vegetation Council (NVC) approval (12 June 2024, SA Water - Morgan Whyalla Number 1 Pipeline Renewal Stage 1 Amendment - between Morgan and Hanson #3319)*
- *Morgan Whyalla Pipeline Renewal Stage 1 – Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan (ELA 2024), V4*
- *3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 - Project Environmental Management Plan (SA Water Corporation 2024), V2.0*

Specific management actions, conditions and performance actions relevant to weeds during the preconstruction project stage included in Table 2 below.

Table 2 Relevant Management measures and conditions of consent – weeds

Item no.	Plan condition no.	Performance Criteria/Requirements and Environmental Management measures
Notification of Approval Decision - Morgan Whyalla Pipeline No.1 Renewal – Stage 1, SA (EPBC 2022/09438).		
8	3	<u>Clearing Limits</u> <i>To avoid and mitigate harm to protected matters the approval holder must comply with the conditions at Council approval to the extent that the conditions relate to protected matters.</i>
9	6	<u>Action management Plans</u> <i>The approval holder must implement the Project Environmental Management Plan prior to the commencement of the Action and continue to implement the Project Environmental Management Plan until the completion of the Action.</i>
10	7	<u>Action management Plans</u> <i>By implementing the Project Environmental Management Plan, the approval holder must prevent any avoidable and accidental harm to protected matters.</i>
11	8	<u>Action management Plans</u> <i>The approval holder must implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan prior to the commencement of the Action and continue to implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan until the completion of the Action.</i>
12	9	<u>Action management Plans</u> <i>By implementing the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan, the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.</i>
13	20	<u>Modifications to State or Territory approval</u> <i>The approval holder must notify the department in writing of any proposed change to the South Australian Native Vegetation Council approval conditions showing what changes have been made, within 2 business days of formally proposing such a change and within 5 business days of the change coming into effect.</i>
14	21	<u>Modifications to State or Territory approval</u> <i>The approval holder must notify the department in writing of any change to the South Australian Native Vegetation Council approval conditions showing what changes have been made, within 5 business days of such a change to conditions coming into effect. Such notification must be accompanied by a copy of the South Australian Native Vegetation Council approval conditions showing what changes have been made.</i>
SA Native Vegetation Council (NVC) approval 2024/3319/711- (12 June 2024)		

Item no.	Plan condition no.	Performance Criteria/Requirements and Environmental Management measures
Assessing officer Advice 1	Regulation 16 of the Native Vegetation Regulations - Assessment Report	<i>All vehicles and plant, including third parties, will be inspected and be free from plant material and weed prior to (plant hygiene) inspections are to be completed for all vehicles and plant on arrival and captured on system and</i>
Recommended conditions	5	<i>Site rehabilitation will occur in accordance with the following:</i> <i>a) Retain the vegetative material and topsoil removed in accordance with this approval and stockpile the vegetation material already been cleared or is void of native vegetation.</i> <i>b) At an optimal time within 12 months following completion of the use of any area cleared in accordance with this approval, the area required to be kept cleared of vegetation for ongoing operations or maintenance activities, by:</i> <ul style="list-style-type: none">- I. ripping the ground on the contour to remove soil compaction; and- II. laying the vegetative material and topsoil retained in accordance with this condition, and- III. Continue ongoing weed management in rehabilitation areas.
Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan- TSMP		
17		<i>Remove or destroy all priority weeds listed for the Landscape Management Region or Weeds of National Significance, and clearing in line with requirements of the Landscape SA Act</i>
18		<i>All South-eastern Hooded Robins, Southern Whiteface and component MBC species occurring within the construction area are to be given time to leave the area prior to construction.</i>
19		<i>Construction and operation activities do not directly result in the injury or death of any South-eastern Hooded Robin.</i>
20		<i>Construction and operation do not result in clearance of more than 13.98 ha of MBC TEC habitat and no clearing of native vegetation area occurs.</i>
21		<i>Construction and operation do not result in indirect impacts to South-eastern Hooded Robins, Southern Whiteface, or Mallee Bird Community.</i>
3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 - Project Environmental Management Plan (SA Water Corporation 2024), V2		

Item no.	Plan condition no.	Performance Criteria/Requirements and Environmental Management measures
Pre construction	1	NVC data assessment reports (A1-A, A1-B, A1-C) are to be reviewed for locations of identified weeds.
	2	A baseline weed survey is to be conducted of the clearance corridor to identify location of existing weed infestation.
	3	All priority weeds listed for the Landscape Management Region or Weeds of National Significance are to be removed and vegetation clearing in line with requirements of the Landscape SA Act.
	4	A designated wash-down bay is to be installed to clean vehicles and construction equipment during construction to adhere to principles of the Arrive Clean, Leave Clean Guideline (Guidelines to help prevent the spread of invasive native plants, animals and ecosystems CoA 2015).
Construction	5	Include weed identification material in site work plans and display fact sheets of any weeds controlled within rooms.
	6	A map detailing the location of weed infestations and identification of weeds is to be provided to the construction team.
	7	All footwear, tools, equipment, machinery and vehicles are to be free of weed seeds, mud, soil and organic material from sections of the Action area. Boot cleaning stations will also be used at main entry/exit points to the Action Area.
	8	All construction machinery/plant, vehicles (including third party) and equipment are to be cleaned prior to arrival at site.
	9	Plant hygiene inspections are to be completed for all vehicles and plant on arrival and captured on system as evidence.
	10	Where vehicles are washed down, wash water should be directed to a sump (onsite earthen bunded sump) and not to the watercourse.
	11	Ensure all fill is clean from pests/ pathogen/ contaminates prior to importing to site.
	12	Ensure imported fill is sourced from a designated weed free source.
	13	To mitigate the potential risk of spreading weeds and other pathogens, a work instruction, hold point or similar process to ensure all machinery and equipment arrive to each new site clean and free of weeds and potentially infected soil.
	14	
Post Construction	15	Post-construction weed survey of the construction corridor to be conducted 6 months and 12 months post construction for weed infestation.

3. Methods

3.1. Desktop assessment

ELA conducted a desktop assessment of the following resources:

- South Australia (SA) Department of Environment and Water (DEW) NatureMaps online portal;
- SA Property and Planning Atlas (SAPPA);
- aerial photography to identify past vegetation clearing and planting within the study area;
- Notification of approval decision – Morgan Whyalla Pipeline No. 1 Renewal – Stage 1, SA (EPBC 2022/ 09438);
- Project EPBC Act Referral (2022/ 09438)
- Preliminary Documentation (EPBC 2022/ 09438) – Morgan Whyalla Pipeline No. 1 Renewal – Stage 1 and;
- Morgan Whyalla Pipeline Renewal Stage 1 – Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan (ELA 2024).
- C3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 - Project Environmental Management Plan (updated to be supplied by MDJV)
- SA Native Vegetation Council approval 2024, SA Water - Morgan Whyalla Number 1 Pipeline Renewal Stage 1 Amendment - between Morgan and Hanson (#3319)
- Eco Logical Australia 2024. Native Vegetation Clearance Application Morgan Whyalla Number 1 Pipeline Renewal Stage 1 (Package A).

3.2. Weed survey

A weed survey was undertaken from 17 – 18 February 2024 by ELA Ecologists Sarah Stevens and Lauren Heddle within sections 17, 18, 20, 21 and the Morgan PS1 rubble stockpile (Figure 1) The survey was designed in accordance with the 2024 NVC Data Report results that identified weed species and locations across the specified sites. The survey identified weed species, abundance and location which aligned with the 2024 Data Report. The survey occurred within the Right of Way (ROW) areas which were designed to include all impact locations whilst excluding sections of varying corridor widths in section 18 to avoid impacts to areas of identified EPBC listed MBC TEC.

Weed data was collected by traversing the study area on foot using 25 m (standard construction corridor) wide parallel transects either side of the pipeline guided by handheld GPS tracking. The occurrence of Weeds of National Significance (WoNS) and Declared weeds under the Landscape South Australia Act 2019 (LSA Act) were identified and recorded. Individual occurrences of weeds were flagged using orange flagging tape either on the weed or on the fence line adjacent and for patches of weeds the start and end point of the patch were flagged on the fence line. Weed species and occurrences (individuals or patches / polygons) were mapped using ESRI Field Maps Collector space.

4. Results

4.1. Exotic plant species

The field survey identified a three of Declared weed species under the LSA Act, one of which is listed as a WoNS. The location of these three species across the four sections and the rubble stockpile are shown in Figure 2, Figure 3, Figure 4, Figure 5 and Figure 6 and listed below:

- *Echium plantagineum* (Pattersons Curse) (LSA Act Declared)
- *Lycium ferocissimum* (African Boxthorn) (LSA Act Declared & WoNS)
- *Marrubium vulgare* (Horehound) (LSA Act Declared)

Table 3 shows the above three listed weed species and provides further details of listing status, control listing as per each Landscape Board and weed locations. Table 5 provides site specific weed control measures.

Table 3: Weed species within the study area and associated attributes

Species name	Common name	Section	Area (ha) / number	Listing (Yes / No) and control measures	
				Murraylands and Riverland Landscape Board	Northern an
<i>Echium plantagineum</i>	Patterson’s Curse	17	27 + individuals 0.21 ha	No	Sal wa any Mo pul any
<i>Lycium ferocissimum</i>	African Boxthorn	18	5 + individuals	Yes <ul style="list-style-type: none">Control - Land owners in this region to take reasonable steps to kill plants and prevent their spread. Enforceable by the Murraylands and Riverland Landscape Board.Sale - Must not be sold or traded in any way, including as a contaminant of anything.Movement - Must not be transported on a public road, including as a contaminant of anything.	<ul style="list-style-type: none">Co rea the Mu BoSal wa anyMo pul any
<i>Marrubium vulgare</i>	Horehound	17	6.1 ha	No	<ul style="list-style-type: none">Co rea the Mu Bo
		18	3 + individuals .08 ha		

Species name	Common name	Section	Area (ha) / number	Listing (Yes / No) and control measures	
				Murraylands and Riverland Landscape Board	Northern an
		21	4 + individuals .18 ha		<ul style="list-style-type: none">• Sal wa any• Mo pul any



Figure 1: Declared weed locations within the study area (Section 17, Part 1)

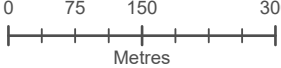
 Right of Way (ROW)	Weeds	
 Access Tracks, Turnaround Bays	 <i>Echium plantagineum</i>	
 Renewal Section	 <i>Echium plantagineum</i>	
 Road	 <i>Marrubium vulgare</i>	Datum/Projection: GDA 1994 MGA Zone 54 24ADL10065-OK Date: 27/02/2025





Figure 1: Declared weed locations within the study area (Section 17, Part 2)

Right of Way (ROW)

Access Tracks, Turnaround Bays

Laydown Areas

Renewal Section

Road

Weeds

Echium plantagineum

Echium plantagineum

Marrubium vulgare

075150300

Metres

Datum/Projection:
GDA 1994 MGA Zone 54

24ADL10065-OK Date: 27/02/2025

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Figure 1: Declared weed locations within the study area (Section 18)

 Right of Way (ROW)	Weeds
 Access Tracks, Turnaround Bays	+ <i>Lycium ferocissimum</i>
 Renewal Section	+ <i>Marrubium vulgare</i>
 Road	 <i>Marrubium vulgare</i>



Figure 1: Declared weed locations within the study area (Section 20)

- Right of Way (ROW)
- Access Tracks, Turnaround Bays
- Renewal Section
- Road

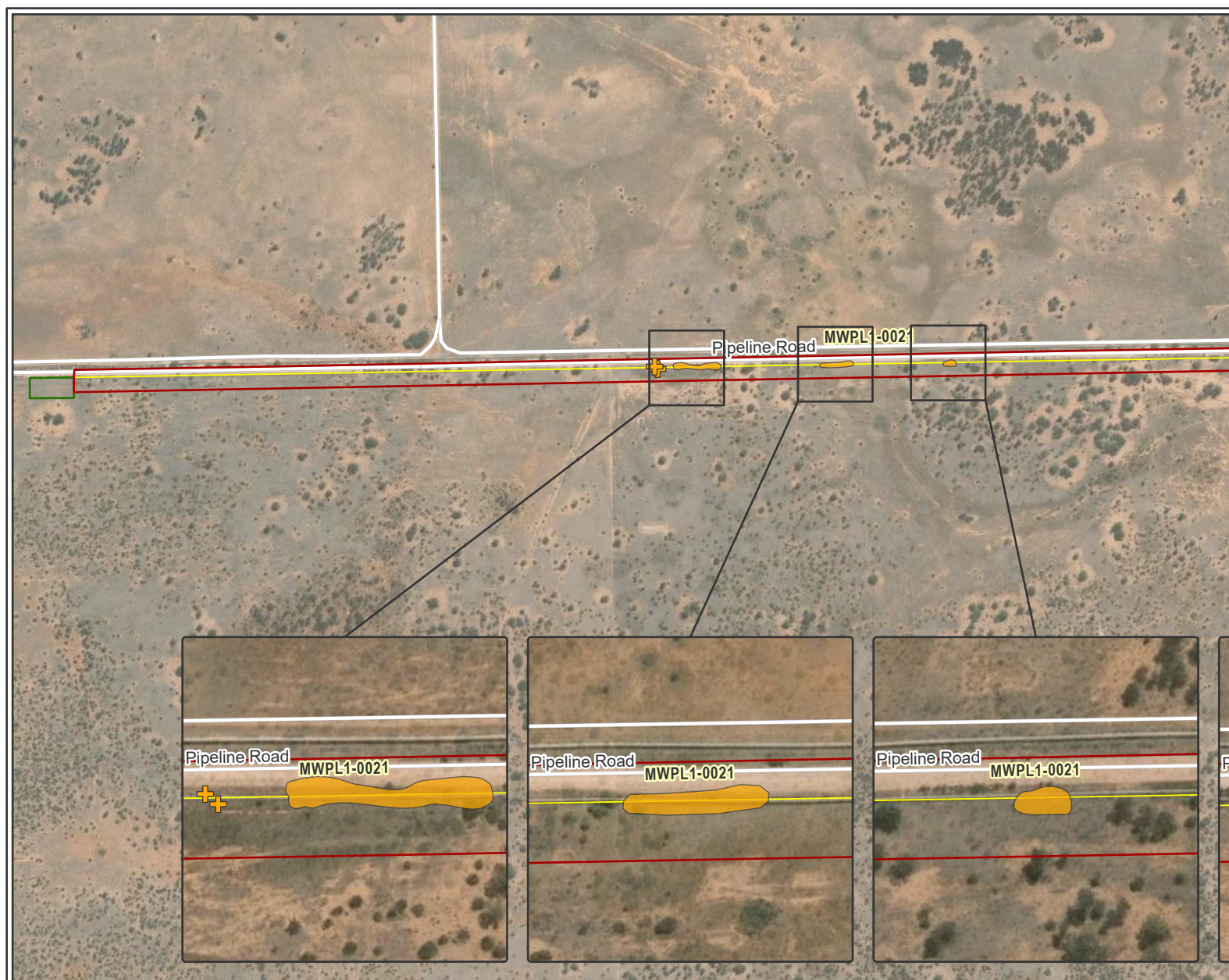
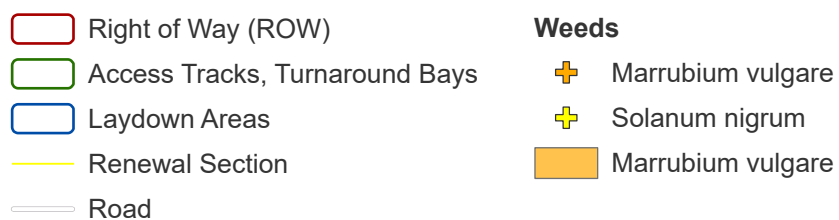


Figure 1: Declared weed locations within the study area (Section 21)



5. Discussion

Table 4 below includes audit of the MWPL Stage 1 project against relevant management actions and conditions of cons

Table 4 Project compliance audit - weeds

Item no.	Plan condition no.	Performance Criteria/Requirements and Management measures	Environmental Evidence
Notification of Approval Decision - Morgan Whyalla Pipeline No.1 Renewal – Stage 1, SA (EPBC 2022/09438).			
8	3	<u>Clearing Limits</u> <i>To avoid and mitigate harm to protected matters the approval holder must comply with the conditions attached to the South Australian Native Vegetation Council approval to the extent that the conditions relate to protected matters.</i>	Noted
9	6	<u>Action management Plans</u> <i>The approval holder must implement the Project Environmental Management Plan prior to the commencement of the Action and continue to implement the Project Environmental Management Plan until the completion of the Action.</i>	Noted - evidence against management detail below in PEMP section.
10	7	<u>Action management Plans</u> <i>By implementing the Project Environmental Management Plan, the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.</i>	Noted
11	8	<u>Action management Plans</u> <i>The approval holder must implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan prior to the commencement of the Action and continue to implement the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan until the completion of the Action.</i>	Noted

Item no.	Plan condition no.	Performance Criteria/Requirements and Management measures	Environmental Evidence
12	9	<u>Action management Plans</u> <i>By implementing the Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community Management Plan the approval holder must prevent any avoidable harm to protected matters and mitigate unavoidable and accidental harm to protected matters.</i>	Noted - ELA completed habitat and fauna surveys to avoid impacts to residing fauna
13	20	<u>Modifications to State or Territory approval</u> <i>The approval holder must notify the department in writing of any proposed change to the South Australian Native Vegetation Council approval that may relate to protected matters within 2 business days of formally proposing such a change and within 5 business days of becoming aware of any proposed change.</i>	Noted – no changes
14	21	<u>Modifications to State or Territory approval</u> <i>The approval holder must notify the department in writing of any change to the South Australian Native Vegetation Council approval conditions that may relate to protected matters, within 5 business days of such a change to conditions coming into effect. Such notification must include a copy of the changed South Australian Native Vegetation Council approval conditions showing what changes have been made.</i>	Noted – no changes
SA Native Vegetation Council (NVC) approval 2024/3319/711- (12 June 2024)			
Assessing officer Advice 1	Regulation 16 of the Native Vegetation Regulations - Assessment Report	<i>All vehicles and plant, including third parties, will be inspected and be free from plant material and weed propagules prior to arrival to the site. Weed and seed (plant hygiene) inspections are to be completed for all vehicles and plant on arrival and captured on system as part of Plant Induction</i>	Noted - evidence of designated laydown / washdown / inspection facilities. Included in Appendix F, Snapshot of Plant and Vegetation Management in Appendix D

Item no.	Plan condition no.	Performance Criteria/Requirements and Management measures	Environmental Evidence
Recommended conditions	5	<p><i>Site rehabilitation will occur in accordance with the following:</i></p> <p><i>a) Retain the vegetative material and topsoil removed in accordance with this approval and stockpile the vegetative material and topsoil in an area that has already been cleared or is void of native vegetation.</i></p> <p><i>b) At an optimal time within 12 months following completion of the use of any area cleared in accordance with this approval, revegetate the areas that are not required to be kept cleared of vegetation for ongoing operations or maintenance activities, by:</i></p> <ul style="list-style-type: none"> - I. ripping the ground on the contour to remove soil compaction; and - II. laying the vegetative material and topsoil retained in accordance with this condition, on the cleared area(s). - III. Continue ongoing weed management in rehabilitation areas. 	<p>Noted</p> <p>a) Designated laydown area Information provided in the</p> <p>b) Not applicable at this time</p>
Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan- TSMP			
17		<i>Remove or destroy all priority weeds listed for the Landscape Management Region or Weeds of National Significance prior to ground disturbance and vegetation clearing in line with requirements of the Landscape SA Act</i>	Noted – weed surveys and management 2025 prior to clearing commencement
18		<i>All South-eastern Hooded Robins, Southern Whiteface and component MBC species occurring within the construction and operation area have the ability and time to leave the area prior to construction.</i>	Noted - ELA completed habitat and fauna avoid impacts to resident fauna
19		<i>Construction and operation activities do not directly result in the injury or death of any South-eastern Hooded Robins, Southern Whiteface or MBC species</i>	Noted – Licensed Wildlife handler clearing activity

Item no.	Plan condition no.	Performance Criteria/Requirements and Management measures	Environmental Evidence
20		<i>Construction and operation do not result in clearance of more than 13.98 ha of MBC TEC habitat and no clearance outside of the approved vegetation clearance area occurs.</i>	Noted – Qualified Ecologist supervising activity
21		<i>Construction and operation do not result in indirect impacts to South-eastern Hooded Robins, Southern Whiteface or MBC Component species</i>	Noted – Qualified Ecologist supervising activity
3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 - Project Environmental Management Plan (SA Water Corporation 2024), V2			
Pre construction	1	NVC data assessment reports (A1-A, A1-B, A1-C) are to be reviewed for locations of identified weeds.	Noted
	2	A baseline weed survey is to be conducted of the clearance corridor to identify location of existing weed infestations (ground truth data reports).	Noted – ELA completed the weed survey
	3	All priority weeds listed for the Landscape Management Region or Weeds of National Significance are to be removed or destroyed prior to ground disturbance and vegetation clearing in line with requirements of the Landscape SA Act.	Noted – weed surveys and management plan completed by 2025 prior to clearing commencement
	4	A designated wash-down bay is to be installed to clean vehicles and construction equipment during construction works and prior to leaving site. The Project is to adhere to principles of the Arrive Clean, Leave Clean Guideline (Guidelines to help prevent the spread of invasive plant diseases and weeds threatening our native plants, animals and ecosystems CoA 2015).	Noted - evidence of designated laydown / washdown / inspection facilities. Washdown Log is provided in Appendix 1 including guidelines for cleaning are provided
Construction	5	Include weed identification material in site work plans and display fact sheets of any weeds controlled within the Action Area on notice boards and in crib rooms.	Weed identification material is included in the site induction materials (Appendix 1)
	6	A map detailing the location of weed infestations and identification of weeds is to be provided to the construction crew.	Map was provided to weed control team to identify the weeds. Ongoing monitoring will be conducted

Item no.	Plan condition no.	Performance Criteria/Requirements and Environmental Management measures	Evidence
	7	All footwear, tools, equipment, machinery and vehicles are to be free of weed seeds, mud, soil and organic matter before starting works within MBC TEC sections of the Action area. Boot cleaning stations will also be used at main entry/exit points to the Action Area.	MJDV to Action
	8	All construction machinery/plant, vehicles (including third party) and equipment are to be cleaned prior to arrival to the site.	Noted - evidence of designated laydown / inspection facilities. Washdown Log is provided in A including guidelines for cleaning are
	9	Plant hygiene inspections are to be completed for all vehicles and plant on arrival and captured on system as part of Plant Induction.	Noted - evidence of designated laydown / inspection facilities. Washdown Log is provided in A including guidelines for cleaning are
	10	Where vehicles are washed down, wash water should be directed to a sump (onsite earthen bunded sumps if possible) and not discharged to land or a watercourse.	No wash water at this moment - M Water will not be contained as agreed responsible for weed management i taking place up to 12 months after no rivers / creeks close by.
	11	Ensure all fill is clean from pests/ pathogen/ contaminates prior to importing to site.	Not applicable at this time
	12	Ensure imported fill is sourced from a designated weed free source.	Not applicable at this time
	13	To mitigate the potential risk of spreading weeds and other pathogens, a work instruction, hold point or similar should be implemented to ensure all vehicles, machinery and equipment arrive to each new site clean and free of weeds and potentially infected soil.	A snapshot of Plant and Vehicle Appendix D. Induction material incl provided in Appendix F
Post Construction	15	Post-construction weed survey of the construction corridor to be conducted 6 months and 12 months post construction to identify the presence of weed infestation.	Not applicable at this time

6. References

Department of Climate Change, Energy, the Environment and Water 2024, *Notification of approval decision – Morgan Whyalla Pipeline No. 1 Renewal – Stage 1, SA (EPBC 2022/09438)*

Department of Primary Industries 2025 *African Boxthorn Lycium ferocissimum* accessed February 2025 online at https://pir.sa.gov.au/biosecurity/weeds/declared-weeds/african_boxthorn

Department of Primary Industries 2025 *Horehound Marrubium vulgare* accessed February 2025 online at <https://pir.sa.gov.au/biosecurity/weeds/declared-weeds/horehound>

Department of Primary Industries 2021 *Salvation Jane Echium plantagineum* accessed February 2025 online at https://pir.sa.gov.au/biosecurity/weeds/declared-weeds/salvation_jane

Eco Logical Australia 2022, *Morgan Whyalla Pipeline Renewal Stage 1, package A-1A Data Report*

Eco Logical Australia 2022, *Morgan Whyalla Pipeline Renewal Stage 1, package A-1B Data Report*

Eco Logical Australia 2022, *Morgan Whyalla Pipeline Renewal Stage 1, package A-1C Data Report*

Eco Logical Australia 2024, *Morgan Whyalla Pipeline Renewal Stage 1 – Southern Whiteface, South-eastern Hooded Robin, and Mallee Bird Community TEC Management Plan*

McDonnell Dowell Diona Joint Venture 2024, *Construction Environmental Management Sub-Plan for MWPL*

SA Water 2024, *Preliminary Documentation (EPBC 2022/09438) – Morgan Whyalla Pipeline No. 1 Renewal – Stage 1*

SA Water 2025, *C3828 Morgan Whyalla Pipeline No1 Renewal - Stage 1 Project Environmental Management Plan, Version 3.0*

Appendix A Weed Control Techniques

Table 5 below details weed control techniques including both chemical and physical control for each recorded weed species as well as which section the weed is located.

Table 5: Weed species control techniques

Species name	Common name	Control techniques	Section
<i>Echium plantagineum</i>	Patterson's Curse	Chemical control Spot spray glyphosate (450g/L) Roundup CT® at 1 L / 100 L when actively growing and before seed set.	Section 17
<i>Lycium ferocissimum</i>	African Boxthorn	Physical control Not time sensitive. Grub individual bushes, using boxthorn puller, bobcat or other machinery depending on their size. Chemical control Not time sensitive. Cut stem and apply glyphosate (450g/L) + triclopyr (600g/L) Roundup CT® + Garlon 600® immediately at 333.mL /+ 33 mL / 1 L application rate.	Section 18
<i>Marrubium vulgare</i>	Horehound	Physical control Not time sensitive. Grub individual plants, ensuring the complete removal of the root system from the soil. Plough infested area, ensuring plants are turned over with roots completely removed from the soil. Follow up control on any new growth. Chemical control <u>Non-cropping areas</u> : Spot spray glyphosate (360g/L) Roundup Bioactive® 1 L / 100 L on young plants, preferably in Autumn.	Section 17, 18 and 21.

Appendix B Photo Plates



Plate 1: *Lycium ferocissimum* flagged in section 18



Plate 2: *Marrubium vulgare* patch in section 18



Plate 3: *M. vulgare* patch in section 18



Plate 4: *M. vulgare* in section 17 along property and adjacent planted *Olea europaea* (Olive) orchard



Plate 5: *M. vulgare* patch at start of section 17



Plate 6: *M. vulgare* growing through stock grid in section 17



Plate 7: One individual *E. plantagineum* within a patch at section 17 (Plate 8)



Plate 8: *E. plantagineum* patch within middle turnaround bay at section 17



Plate 9: *E. plantagineum* at section 17 (Plate 8)



Plate 10: Plate 9 *E. plantagineum* at section 17 (Plate 8)



Plate 11: *E. plantagineum* within a patch in the northern turnaround bay at section 17



Plate 12: *E. plantagineum* patch in the northern turnaround bay at section 17 (Plate 12)



Plate 13: *M. vulgare* in patch near northern end of section 17



Plate 14: Start of *M. vulgare* patch in section 17 (Plate 14)



D Fauna Relocation Report

Table 1: Fauna salvaged table

Salvaged No.	Latitude	Longitude	Date	Section	Species name	Common name	Number of individuals	Habitat	Photo
1	-33.971728	139.274049	9/04/2025	18	<i>Christinus marmoratus</i>	Marbled gecko	1 Adult	Salvaged under mallee stump with large exfoliating bark	
2	-33.971627	139.276174	9/04/2025	18	<i>Tiliqua rugosa</i> , <i>Heteronotia binoei</i>	Sleepy lizard, bynoe's gecko	1 Adult, 3 (including 1 juvenile and 2 adults)	All salvaged under old mallee lignotuber within coarse woody debris	

3	-33.971735	139.276736	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Under old mallee stump within coarse woody debris	
4	-33.971681	139.277963	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	3 Adults	Under old mallee stump within coarse woody debris	

5	-33.971598	139.279038	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	3 Adults	Under old mallee lignotuber within coarse woody debris	 
6	-33.971608	139.280273	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	5 Adults	Found within coarse woody debris and rocks under mallee trees	 
7	-33.971646	139.280768	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	2 Adults, 1 juvenile	Found within coarse woody debris and rocks under mallee trees	 

8	-33.971654	139.281625	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Found within coarse woody debris and rocks under mallee trees	 
9	-33.971609	139.282208	10/04/2025	18	<i>Christinus marmoratus</i>	Marbled gecko	1 Adult, 1 juvenile	Found within coarse woody debris under mallee trees	 
10	-33.971681	139.283003	10/04/2025	18	<i>Heteronotia binoei</i> , <i>Morethia boulengeri</i>	Bynoe's gecko, South-Eastern Morethia Skink	5 (3 Adults, 2 juvenile), 1 Adult	Under old mallee lignotuber within coarse woody debris and rocks	 

11	-33.97169	139.283368	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Under old mallee lignotuber within coarse woody debris and rocks		
12	-33.971677	139.283846	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Salvaged under an old mallee tree which has fallen over and rocks		
13	-33.971559	139.287992	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Salvaged under an old mallee tree which has fallen over and rocks		

14	-33.971647	139.292465	14/04/2025	18	<i>Heteronotia binoei</i> , <i>Morethia boulengeri</i> ,	Bynoe's gecko, South-Eastern Morethia Skink	1 Adult, 1 Adult	Under old mallee lignotuber within coarse woody debris and rocks	
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15	-33.971627	139.294806	14/04/2025	18	<i>Morethia boulengeri</i>	South-Eastern Morethia Skink	1 Adult	Found within coarse woody debris under mallee trees	 
16	-33.971766	139.295313	16/04/2025	18	<i>Morethia boulengeri</i>	South-Eastern Morethia Skink	1 Adult	Found within coarse woody debris under mallee trees	 

17	-33.971582	139.303971	17/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Found within course woody debris under mallee trees	
18	-33.971055	139.514128	17/04/2025	21	<i>Morethia boulengeri</i>	South-Eastern Morethia Skink	1 Adult	Found within course woody debris under mallee trees	

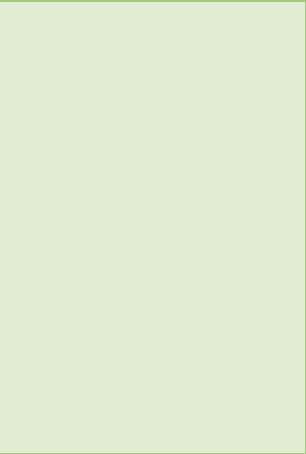
Table 2: Fauna relocation table

Relocation No.	Latitude	Longitude	Date	Section	Species name	Common name	Number of individuals	Habitat	Photo
1	-33.972217	139.274033	9/04/2025	18	<i>Christinus marmoratus</i>	Marbled gecko	1 Adult	Released in woody debris around base of mallee tree	
2	-33.973015	139.276783	9/04/2025	18	<i>Tiliqua rugosa</i> , <i>Heteronotia binoei</i>	Sleepy lizard, bynoe's gecko	1 Adult, 3 Adults	Released under old lignotubers of mallee trees	

3	-33.972132	139.277585	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Released on old mallee tree which has fallen over with thick exfoliating bark		
4	-33.972349	139.278622	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	3 Adults	Released under old mallee stump with coarse woody debris		

5	-33.971944	139.2795	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	3 Adults	Released on mallee tree with thick exfoliating bark		
6	-33.972389	139.28065	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	5 Adults	Released in litter around mallee tree and on tree branch with exfoliating bark		

7	-33.97219	139.281396	9/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	2 Adults, 1 juvenile	Released in woody debris around base of mallee tree		
8	-33.971974	139.282012	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Released on old mallee tree which has fallen over with thick exfoliating bark		

9	-33.972133	139.282602	10/04/2025	18	<i>Christinus marmoratus</i>	Marbled gecko	2 (one adult and one juvenile)	Released under old mallee stump with coarse woody debris		
10	-33.971996	139.283053	10/04/2025	18	<i>Heteronotia binoei</i> , <i>Morethia boulengeri</i>	Bynoe's gecko, South-Eastern Morethia Skink	1 Adult, 5 (including three adults and two juveniles)	Released under old mallee stump with coarse woody debris		

11	-33.972198	139.283411	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Released on mallee tree branch with thick exfoliating bark		
12	-33.972132	139.283902	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Released on mallee tree with thick exfoliating bark		

13	-33.972066	139.288427	10/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Released in woody debris around mallee tree		
14	-33.971911	139.292368	14/04/2025	18	<i>Heteronotia binoei</i> , <i>Morethia boulengeri</i> ,	Bynoe's gecko, South-Eastern Morethia Skink	1 Adult, 1 Adult	Released on mallee tree with thick exfoliating bark		

15	-33.97205	139.295452	14/04/2025	18	<i>Morethia boulengeri</i>	South-Eastern Morethia Skink	1 Adult	Released in woody debris around mallee tree		
16	-33.972066	139.295436	16/04/2025	18	<i>Morethia boulengeri</i>	South-Eastern Morethia Skink	1 Adult	Released in woody debris around mallee tree		

17	-33.972165	139.304524	17/04/2025	18	<i>Heteronotia binoei</i>	Bynoe's gecko	1 Adult	Released in woody debris around mallee tree	
18	-33.971369	139.514172	28/04/2025	21	<i>Morethia boulengeri</i>	South-Eastern Morethia Skink	1 Adult	Released in woody debris around mallee tree	

E Pre-clearance Hold-point Release



MAIL TYPE
Hold Point Response

MAIL NUMBER
SA Water-HPWPR-000753

REFERENCE NUMBER
MCDDJV-HPWP-000887

Re: MWPL Section 17, 18, 20, 21 vegetation clearance

From Mr Jeffrey Redjepi - SA Water Corporation

To (2) Ms Anna Kordahi - McConnell Dowell Diona Joint Venture ([+1 more...](#))

Cc (11) Daniel Graetz - McConnell Dowell Diona Joint Venture ([+10 more...](#))

Sent Monday, 17 March 2025 12:57:22 PM ACDT (GMT +10:30)

Status **Closed-Out**

DETAILS

Document or Field Hold Point	Field Inspection
Control Type	Hold Point
Specification Number & Clause	n/a
Area	MW - Morgan Whyalla Pipeline
Contract	MW-PROG - Morgan Whyalla Program Services
Location	Section 17, 18, 20, 21

Lot No.

ITP No.

ITP Item No.

Release Status Conditionally Released

Response As per MCDDJV-GCOR-010631, and site inspection conducted 14/03/24.

In summary, we confirm that MDJV can commence with vegetation clearance for Section 17, 18 and 21 as from Monday the 17th of March 2025.

Noting that the Section 20 ROW width was incorrect (4 of the 5 measurements were more than the allowable width for the corridor). MDJV has agreed to resurvey the section and ensure that the corridor is delineated correctly.

Vegetation clearance is not to commence at Section 20 until we have conducted another site visit with MDJV and provided subsequent HP release for this section.

MESSAGE

Anna,
Response on behalf of Melissa Cundy.
Regards,
Jeff Redjepi BEng MIEAust CPEng(Ref)
SENIOR PROJECT MANAGER WATER CIVIL
CAPITAL PLANNING & DELIVERY
jeffery.redjepi@sawater.com.au • • **+61 466 524 855**
250 Victoria Square/Tarntanyangga ADELAIDE SA 5000
sawater.com.au

From: A Kordahi
Sent: 28/02/2025 4:49:37 PM ACDT (GMT +10:30)
To: Melissa Cundy
Cc: Martyn Benson, Manoj Chacko, Arash Farajian, Daniel Graetz, Nigel Hayman, Nicole Herbert, Barry Lunnon, Gonzalo Mujica, Belinda Woite, Martin Harris, Jeffrey Redjepi
Mail Number: MCDDJV-HPWP-000887
Subject: MWPL Section 17, 18, 20, 21 vegetation clearance

Document or Field Hold Point:	Field Inspection
Control Type:	Hold Point
Contract:	MW-PROG - Morgan Whyalla Program Services
Output:	A0009-0025 Morgan Whyalla Pipeline No1 Replacement

Area:	MW - Morgan Whyalla Pipeline
Location:	Section 17, 18, 20, 21
Specification Number & Clause:	n/a
Lot No.:	
ITP No.:	
ITP Item No.:	
Start Date:	
Start Time:	
End Date:	
End Time:	
Site Contact:	Anna Kordahi
Phone No.:	0499800758

Good day Mel

This is a request for Hold Point release for the start of vegetation clearance in line with the EPBC and Native Vegetation approvals, for the MWPL Phase 1 and 2, Section 17, 18, 20 and 21 as from Monday the 17th of March 2025.

As discussed, we will conduct a site visit with you on the 14th of March 2025 to assess the controls in place.

Please find attached the following:

- Preliminary weed survey report from the ecologist (conducted on 17-18 Feb 2025)
- Ecology pre-clearance survey (conducted on 24-25 Feb 2025)
- Photo of weed management (conducted on 27-28 Feb 2025 for Section 18 and 21; and additional spraying for Section 17 planned for the following week)



- Photo of the survey pegs every 50 meters at the boundary of the ROW



Note that the star pickets, flagging and no-go signage will be in place for your observation during the site visit on the 14th of March 2025.

Please let me know if you need anything else.

Kind regards

Anna Kordahi

Environmental and Sustainability Manager – Water Civil Program
McConnell Dowell Diona Joint Venture

250 Victoria Square/Tarntanyangga, Adelaide SA 5000

M: +61 499 800 758 | anna.kordahi@mdjv.com.au



Working together to sustain and improve
South Australia's water services and infrastructure.





MAIL TYPE
Hold Point Response

MAIL NUMBER
SA Water-HPWPR-000766

REFERENCE NUMBER
MCDDJV-HPWP-000887

Re: MWPL Section 17, 18, 20, 21 vegetation clearance

From Ms Melissa Cundy - SA Water Corporation

To (2) Ms Anna Kordahi - McConnell Dowell Diona Joint Venture ([+1 more...](#))

Cc (10) Mr Gonzalo Mujica - McConnell Dowell Diona Joint Venture ([+9 more...](#))

Sent Monday, 24 March 2025 8:59:23 AM ACDT (GMT +10:30)

Status **Closed-Out**

DETAILS

Document or Field Hold Point	Field Inspection
Control Type	Hold Point
Specification Number & Clause	MCDDJV-HPWP-000887
Area	MW - Morgan Whyalla Pipeline
Contract	MW-PROG - Morgan Whyalla Program Services
Location	Section 20

Lot No.

ITP No.

ITP Item No.

Release Status Released

Response Hi Anna
Confirm that this meets the requirements, and the hold point can be released.

MESSAGE

From: A Kordahi
Sent: 3/21/25 5:51:35 PM AEDT (GMT +11:00)
To: Melissa Cundy, Jeffrey Redjepi
Cc: Martyn Benson, Manoj Chacko, Arash Farajian, Daniel Graetz, Nigel Hayman, Nicole Herbert, Anna Kordahi, Barry Lunnon, Gonzalo Mujica, Belinda Woite, Martin Harris
Mail Number: MCDDJV-GCOR-010705
Subject: Re: MWPL Section 17, 18, 20, 21 vegetation clearance

Area:	MW - Morgan Whyalla Pipeline
Contract:	MW-PROG - Morgan Whyalla Program Services
Output:	A0009-0025 Morgan Whyalla Pipeline No1 Replacement
Discipline:	Environmental

Good day Mel / Jeff
Please find attached the signed-off in-field HP release documents for Section 20, which was filled out earlier today. I signed-off on Mel's behalf, and Martin Harris co-checked the measurements and signed off with me.
We would like to complete the understory vegetation removal in this section on Monday 24 Mar 2025, hence your assistance to officially release this HP will be greatly appreciated.
Kind regards
Anna Kordahi

From: J Redjepi
Sent: 17/03/2025 1:27:22 PM AEDT (GMT +11:00)
To: Anna Kordahi, Melissa Cundy
Cc: Martyn Benson, Manoj Chacko, Arash Farajian, Daniel Graetz, Nigel Hayman, Nicole Herbert, Barry Lunnon, Gonzalo Mujica, Belinda Woite, Martin Harris, Jeffrey Redjepi
Mail Number: SA Water-HPWPR-000753

Subject: Re: MWPL Section 17, 18, 20, 21 vegetation clearance

Document or Field Hold Point:	Field Inspection
Control Type:	Hold Point
Specification Number & Clause:	n/a
Area:	MW - Morgan Whyalla Pipeline
Contract:	MW-PROG - Morgan Whyalla Program Services
Location:	Section 17, 18, 20, 21
Lot No.:	
ITP No.:	
ITP Item No.:	
Release Status:	Conditionally Released
Response:	<p>As per MCDDJV-GCOR-010631, and site inspection conducted 14/03/24.</p> <p>In summary, we confirm that MDJV can commence with vegetation clearance for Section 17, 18 and 21 as from Monday the 17th of March 2025.</p> <p>Noting that the Section 20 ROW width was incorrect (4 of the 5 measurements were more than the allowable width for the corridor). MDJV has agreed to resurvey the section and ensure that the corridor is delineated correctly.</p> <p>Vegetation clearance is not to commence at Section 20 until we have conducted another site visit with MDJV and provided subsequent HP release for this section.</p>

Anna,

Response on behalf of Melissa Cundy.

Regards,

Jeff Redjepi BEng MIEAust CPEng(Ref)

SENIOR PROJECT MANAGER WATER CIVIL
CAPITAL PLANNING & DELIVERY

jeffery.redjepi@sawater.com.au • +61 466 524 855

250 Victoria Square/Tarntanyangga ADELAIDE SA 5000

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From: A Kordahi

Sent: 28/02/2025 4:49:37 PM ACDT (GMT +10:30)

To: Melissa Cundy

Cc: Martyn Benson, Manoj Chacko, Arash Farajian, Daniel Graetz, Nigel Hayman, Nicole Herbert, Barry Lunnon, Gonzalo Mujica, Belinda Woite, Martin Harris, Jeffrey Redjepi

Mail Number: MCDDJV-HPWP-000887

Subject: MWPL Section 17, 18, 20, 21 vegetation clearance

Document or Field Hold Point:	Field Inspection
Control Type:	Hold Point
Contract:	MW-PROG - Morgan Whyalla Program Services
Output:	A0009-0025 Morgan Whyalla Pipeline No1 Replacement
Area:	MW - Morgan Whyalla Pipeline
Location:	Section 17, 18, 20, 21
Specification Number & Clause:	n/a
Lot No.:	
ITP No.:	
ITP Item No.:	
Start Date:	
Start Time:	
End Date:	
End Time:	
Site Contact:	Anna Kordahi
Phone No.:	0499800758

Good day Mel

This is a request for Hold Point release for the start of vegetation clearance in line with the EPBC and Native Vegetation approvals, for the MWPL Phase 1 and 2, Section 17, 18, 20 and 21 as from Monday the 17th of March 2025.

As discussed, we will conduct a site visit with you on the 14th of March 2025 to assess the controls in place.

Please find attached the following:

- Preliminary weed survey report from the ecologist (conducted on 17-18 Feb 2025)
- Ecology pre-clearance survey (conducted on 24-25 Feb 2025)
- Photo of weed management (conducted on 27-28 Feb 2025 for Section 18 and 21; and additional spraying for Section 17 planned for the following week)



- Photo of the survey pegs every 50 meters at the boundary of the ROW



Note that the star pickets, flagging and no-go signage will be in place for your observation during the site visit on the 14th of March 2025.

Please let me know if you need anything else.

Kind regards

Anna Kordahi

Environmental and Sustainability Manager – Water Civil Program

McConnell Dowell Diona Joint Venture

250 Victoria Square/Tarntanyangga, Adelaide SA 5000

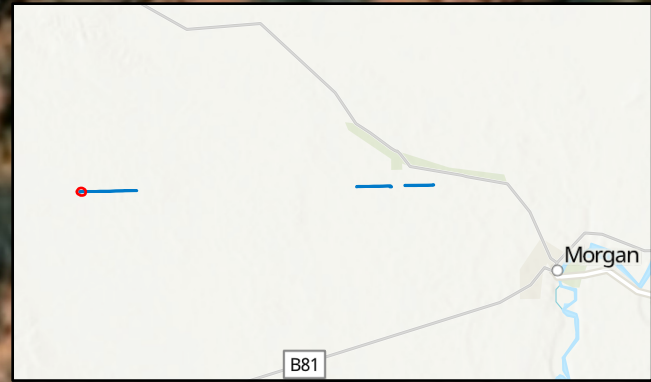
M: +61 499 800 758 | anna.kordahi@mdjv.com.au



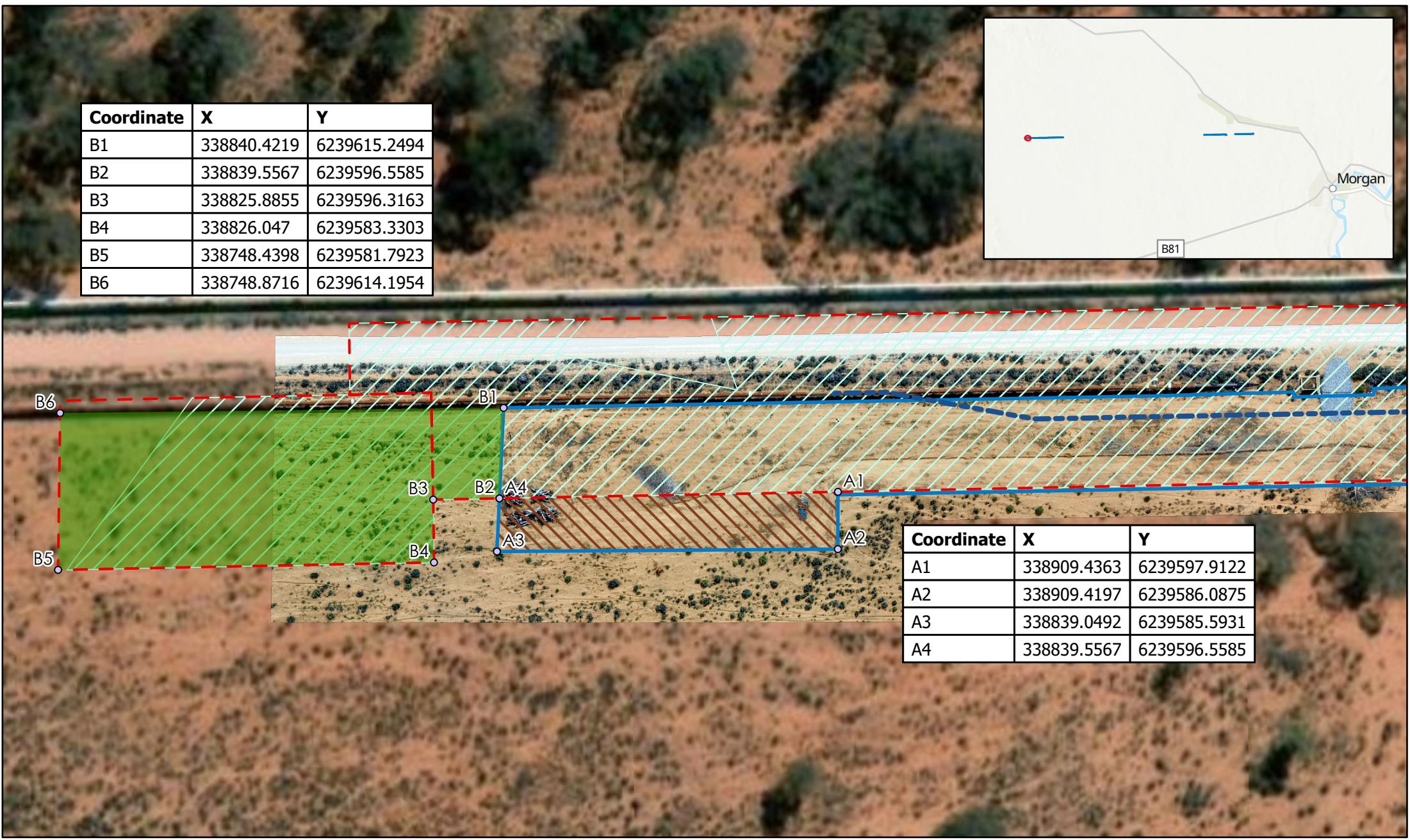
Working together to sustain and improve
South Australia's water services and infrastructure.



F Approved Action Area Non-Compliance



Coordinate	X	Y
B1	338840.4219	6239615.2494
B2	338839.5567	6239596.5585
B3	338825.8855	6239596.3163
B4	338826.047	6239583.3303
B5	338748.4398	6239581.7923
B6	338748.8716	6239614.1954



Coordinate	X	Y
A1	338909.4363	6239597.9122
A2	338909.4197	6239586.0875
A3	338839.0492	6239585.5931
A4	338839.5567	6239596.5585

Cleared Area Outside of Approved Action Area - Section 18

- Coordinates

New Pipeline Alignment

Cleared Area (9.5 ha)
- Approved Action Area (15.18ha)
- Cleared Area Outside Approved Action Area (0.08ha)

Uncleared Area Within Approved Action Area (0.27 ha)Southern Whiteface Suitable Habitat (within AAA)

N

01020 m

Datum/Projection

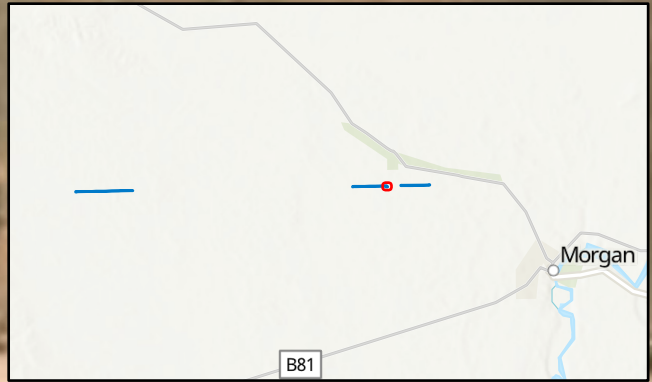
GDA 1994 MGA Zone 54

22ADL2829 Date: 03/11/2025

Scale: 1:1,000

Government of South Australia

SA Water



Coordinate	X	Y
A1	363965.0071	6240086.6415
A2	363990.6883	6240069.7838
A3	363990.741	6240063.9855
A4	363927.8902	6240063.1614
A5	363927.8966	6240085.8757

Cleared Area Outside of Approved Action Area - Section 21

- Coordinates
- Clear Area Outside Approved Action Area (0.12 ha)
- Clear Area
- Approved Action Area
- Removed Areas

0 10 20 m

Datum/Projection
GDA 1994 MGA Zone 54
22ADL2829 Date: 03/11/2025
Scale: 1:960

