

Construction Environmental Management Plan

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1. Introduction

1.1 Context of document

East Australian Pipeline Ltd, part of APA Group (APA), owns and operates the Moomba to Wilton Pipeline (the MWP). The MWP is an underground high-pressure natural gas transmission pipeline about 1,300 kilometres (km) long running between Moomba in South Australia to Wilton in New South Wales.

The MWP operates under:

- Pipeline Licence 16 (PL16), issued under the *Pipelines Act 1967*, granted in 1997
- State Significant Infrastructure (SSI) 15548591 approval under *Environmental Planning and Assessment Act 1979* (EP&A Act).

Maintenance works on the MWP, including regular integrity surveys, are required by conditions in PL16 and have been ongoing since 2005. This works program requires maintenance workers to be mobilised into the field to undertake repairs as required.

The temporary accommodation camp at Tilpa (Camp 3), proposed in Modification 6 to the SSI-15548591 approval and approved on 11 September 2024 is required to accommodate staff for the ongoing MWP maintenance works. The Camp 3 project site (see Appendix 1) has an approved disturbance footprint of 3.86 hectares (ha). Access to the site is via the Tilpa-Louth Road.

Modification 6 to the SSI-15548591 allows for the following activities at the project site:

- The construction and operation of a temporary accommodation camp in Tilpa (Camp 3) with the capacity to accommodate up to 80 personnel for intermittent use for approximately three months every three years over a period of 20 years, in line with the anticipated operational lifetime of the MWP
- Establishment of a temporary laydown area for the storage of construction materials to support MWP maintenance activities
- Establishment of a wastewater management system including an effluent irrigation area for the management of treated wastewater
- Progressive rehabilitation of the site throughout the life of the project, and the decommissioning of infrastructure and full rehabilitation of the project site at the end of the project life.

Condition C1 of Schedule C of the SSI-15548591 approval requires the preparation of a Construction Environmental Management Plan (CEMP) for the development to the satisfaction of the Planning Secretary. The approved CEMP will be implemented throughout the construction stage.

Approval conditions relevant to the development and implementation of this CEMP are outlined in Table 1 with a reference to where each condition is covered within this document or in an additional management plan.

This CEMP has been developed to reflect APA systems and inform construction contractors of the construction-phase environmental risks, management

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measures, standards and monitoring requirements stipulated for the construction works.

This CEMP must not be implemented or amended in any way that contravenes any conditions of any development approval, permit or licence or other approval required for the project.

This CEMP should be read and followed in conjunction with the following documents:

- The relevant scope of work as detailed below:
 - serviced construction camp scope of work (SOW)
 - CSMPEI construction SOW
 - bulk earthworks SOW
 - driven steel piles SOW
- The project site plan (see Appendix 1).

Table 1: Approval conditions relevant to this CEMP

Condition number	Requirement	Where addressed
A1	The Proponent must implement all reasonable and feasible measures to prevent, and if prevention is not reasonable or feasible, minimise any material harm to the environment that may result from the construction, operation, rehabilitation or decommissioning of the development.	Whole of document.
A5	The Proponent must:	
a)	Rehabilitate the sites progressively, as soon as reasonably practicable following disturbance;	Section 7.13
b)	Minimise the disturbance area at any time; and	Section 7.13
c)	Employ interim rehabilitation strategies to minimise dust generation, soil erosion and weed incursion on parts of the sites that cannot yet be permanently rehabilitated.	Section 7.13
A7	The Applicant must notify the Department at least two weeks prior to the:	
(a)	Commencement of construction and commissioning of Stage 3a.	Not applicable
(b)	Commencement of construction and decommissioning of the temporary accommodation camp; Notification must be via the Major Projects Portal.	Section 9.7
A11	Within 3 months of:	
b)	Any modification to the conditions of this approval (unless the conditions require otherwise): The Applicant must review and, if necessary, revise the strategies, plans, and programs required under this approval to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Secretary for approval.	This CEMP

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Condition number	Requirement	Where addressed
B4B	Prior to occupying the temporary accommodation camp on bushfire prone land, the Proponent must prepare a Bush Fire Emergency Management and Evacuation Plan for the temporary accommodation camps consistent with the NSW Rural Fire Service document <i>A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan</i>. The plan must: a) be prepared by a suitably qualified bushfire planning and design accredited level 3 bushfire expert; b) include contact details for the local Rural Fire Service District Office; and c) include procedures for co-ordinated evacuation of the site in consultation with local emergency services.	Section 7.10
B5	The Proponent must:	
a)	Minimise traffic and pedestrian safety issues and disruption to local users of the transport route/s during construction; and	Section 7.8
b)	Maintain all roads and utility-related infrastructure in a safe and serviceable condition.	Section 7.8
B7	Unless otherwise agreed by the Secretary, the Proponent may only undertake construction activities between: a) 7am and 6pm Monday to Friday; b) 8am to 1pm Saturdays; and c) At no time on Sundays and NSW public holidays The following activities may be undertaken outside these hours without the approval of the Secretary: a) The delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; b) Emergency work to avoid the loss of life, property and/or material harm to the environment; c) Where a negotiation agreement has been reached with affected receivers; or d) Works as approved through the out-of-hours works protocol as approved through CEMP required by condition C1	Section 7.6.1 Section 7.6.2
B7a	The following activities may be undertaken outside the hours specified in Condition B7 without the approval of the Secretary: a) the delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; emergency work to avoid the loss of life, property and/or material harm to the environment; b) where a negotiated agreement has been reached with affected receivers; c) works as approved through the out-of-hours works protocol as approved through the CEMP required by condition C1; or d) construction that causes $L_{Aeq}(15\text{minute})$ noise levels that are: i) no more than 5 dB above Rating Background Level at any residence in accordance with the <i>Interim Construction Noise Guideline</i> (DECC, 2009); and	Section 7.6.2

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Condition number	Requirement	Where addressed
	ii) no more than the Noise Management Levels specified in Table 3 of the <i>Interim Construction Noise Guideline</i> (DECC, 2009) at other sensitive land uses.	
B8	The Proponent must:	
a)	Minimise the noise generated by any construction, upgrading or decommissioning activities in accordance with the best practice requirements outlined in the <i>Interim Construction Noise Guideline</i> (DECC, 2009), or its latest version;	Section 7.6
d)	Minimise traffic noise impacts on receivers along the transport routes for all sites.	Section 7.6
B9	The Proponent must minimise the dust and greenhouse gas emissions generated by the development including wind-blown and traffic generated dust.	Section 7.5
B10	The Proponent must:	
a)	Minimise the visual and off-site lighting impacts of the development;	Section 7.7
b)	Ensure that all external lighting associated with the development complies with relevant Australian Standards including the latest version of Australian Standard AS4282 (INT) 2019 – Control of Obtrusive Effects of Outdoor Lighting; and	Section 7.7
c)	Consult with affected landowners after construction regarding potential vegetation screening options.	Section 7.7
B14	The Proponent must	
a)	Ensure the construction, commissioning and operation of the development does not cause any water pollution, as defined under Section 120 of the POEO Act, including the management of surface water runoff and spray irrigation of treated effluent;	Appendix 2
b)	Minimise any soil erosion associated with the construction of the development in accordance with the relevant requirements in the <i>Managing Urban Stormwater: Soils and Construction</i> (Landcom, 2004) manual, or its latest version; and	Appendix 2
c)	Ensure that construction is undertaken to minimise impacts on watercourses by applying management measures generally in accordance with the guidance series for <i>Controlled Activities on Waterfront Land</i> (DPIE Water 2012 or latest versions).	Appendix 2
B15	The Proponent must prepare a Soil and Water Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:	Appendix 2
a)	Be prepared by a suitably qualified and experienced person/s approved by the Planning Secretary;	Appendix 2
b)	Be prepared in consultation with Council and Water Group;	Appendix 2
c)	Be submitted to the Planning Secretary for approval prior to carrying out construction under this approval; and	Noted

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Condition number	Requirement	Where addressed
d)	Includes:	
i)	Details of the sources and security of water supplies for the construction and life of the development (including authorised entitlements and licences);	Appendix 2
ii)	Details of water use and management on the site;	Appendix 2
iii)	An Erosion and Sediment Control Plan, consistent with the requirements of the guideline Managing Urban Stormwater: Soils and Construction (Landcom 2004) and the Guidelines for Controlled Activities on Waterfront Land (NRAR); and	Appendix 2
iv)	Details the wastewater treatment and spray irrigation system, including measures to mitigate downstream and offsite impacts.	Appendix 2
B16	The Proponent must ensure the development is constructed to minimise the potential for contaminant mobilisation.	Section 7.3 Section 7.9 Section 7.11
B17	The Proponent must:	
a)	Minimise the waste generated by the construction and operation of the development;	Section 7.11
b)	Manage onsite wastewater to the satisfaction of the relevant Council;	Section 7.12
c)	Store and handle waste in accordance with its classification; and	Section 7.11
d)	Remove all waste from the site as soon as practicable, and ensure it is sent to an appropriately licensed waste facility for disposal.	Section 7.11
B18	The Proponent must ensure the development does not cause any direct or indirect impacts on heritage items located outside the approved disturbance area.	Section 3 Appendix 3
B19	The Proponent must prepare an Aboriginal Cultural Heritage Management Plan to the satisfaction of the Planning Secretary. This plan must:	Appendix 3
a)	Be prepared by a suitably qualified and experienced person/s;	Appendix 3
b)	Be prepared in consultation with Heritage NSW and Registered Aboriginal Parties;	Appendix 3
c)	Be submitted to the Planning Secretary for approval prior to carrying out construction under this approval;	Noted
d)	Describe the measures to be implemented to:	
i)	Protect, monitor and/or manage identified Aboriginal objects and Aboriginal places (including proposed archaeological investigations and salvage of objects within the approved disturbance area) in accordance with the commitments made in the document/s listed in condition A2(c);	Appendix 3
ii)	Manage the discovery of suspected human remains and any new Aboriginal objects or Aboriginal places, over the life of the development;	Appendix 3

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Condition number	Requirement	Where addressed
iii)	Facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the sites,	Appendix 3
B20	The Proponent must implement the Aboriginal Cultural Heritage Management Plan approved by the Planning Secretary.	APA commits to the implementation of the ACHMP throughout the construction of the project
B21	Construction impacts must be restricted to areas for which biodiversity impacts were assessed in the BDAR and must not encroach into other areas of retained native vegetation and habitat.	Section 3 Appendix 1 Section 7.1
B22	Prior to the commencement of each stage and sub-stage, for works that would impact on biodiversity values, unless otherwise agreed by the Planning Secretary, the number and classes of species credits in Tables 1, 2, 3 and 4 must be retired.	Section 7.1.4
B23	Evidence of the retirement of credits in satisfaction of B22 must be provided to the Planning Secretary as soon as practicable following the retirement.	Evidence to be provided to DPHI
C1	Prior to commencing construction, the Proponent must prepare a Construction Environmental Management Plan (CEMP) for the development to the satisfaction of the Planning Secretary. This plan must:	
a)	Be prepared in consultation with the relevant Council, Transport for NSW and BCS;	Consultation with BCS, TfNSW and Council undertaken (Section 1.6 and Appendix 5)
b)	Identify the statutory approvals that apply to the construction and commissioning of the development;	Section 4
c)	Describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Section 1.5 Section 7 (Control Measures tables for each discipline) Section 9
d)	Describe the procedures that would be implemented to:	
i)	Keep the local community and relevant agencies informed about the construction, commissioning and operations of the development;	Section 9.7
ii)	Receive, handle, respond to, and record complaints;	Section 9.3
iii)	Resolve any disputes that may arise;	Section 9.3
iv)	Respond to any non-compliance;	Section 8.2
v)	Respond to emergencies;	Section 7.10
e)	Include:	
i)	The following sub-plans:	
	Noise, including out-of-hours works protocol;	Section 7.6

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Condition number	Requirement	Where addressed
	Air quality and greenhouse gas;	Section 7.5
	Biodiversity;	Section 7.1
	Traffic management, including detail of measures to minimise impacts on regional towns and how maintenance of local roads will be monitored and managed over the life of the temporary accommodation camp; and	Section 7.8 Appendix 4
	Waste	Section 7.11
ii)	A clear plan depicting monitoring to be carried out in relation to the development.	Section 7 Section 9.4
C2	The CEMP sub-plans must state how:	
a)	The mitigation measures identified in the Modification Report will be implemented; and	Section 7
b)	The relevant terms of this Schedule will be complied with.	Whole of document
C3	The Proponent must implement the approved CEMP.	APA commits to implementing the approved CEMP throughout the construction of the project
C3a	The out-of-hours works protocol in Condition C1(e) must: (a) describe the activities that would be undertaken outside of the hours identified in condition B7; (b) include a risk assessment of the activities and describe the measures that would be employed to minimise construction noise, including scheduling activities to avoid impacts; (c) be consistent with the requirements of the Interim Construction Noise Guideline (DECC, 2009); (d) demonstrate and justify the need for the activities to be undertaken out of standard construction hours; (e) include a notification plan for affected receivers.	A negotiated agreement will be reached with the one affected receiver, in accordance with condition B7a, therefore an out of hours protocol is not required.
C4	The Planning Secretary must be notified in writing via the Major Projects website immediately after the Proponent becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 1.	Section 8.1 Section 9.2
C5	The Planning Secretary must be notified in writing via the Major Projects website within seven days after the Proponent becomes aware of any non-compliance. A non-compliance notification must identify the development and the application number for it, set out the condition of approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Section 8.1 Noted

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Condition number	Requirement	Where addressed
	A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance	

1.2 Objectives of the CEMP

The objectives of this CEMP are to:

- Describe the overall approach to environmental management which will be applied by APA and all contractors during project construction
- Identify the environmental issues relevant to the construction works
- Establish the environmental controls to reduce adverse impacts on the environment from site preparation and construction works
- Set the minimum environmental management performance requirements for activities
- Describe the relationship between APA's Environmental Management Systems, this CEMP and other respective procedures
- Identify and assign responsibilities for environmental management and activities.

1.3 APA Health, safety and environment policy

1.3.1 Policy

APA Group Policies are the principal Health, Safety and Environment (HSE) documents. These Policies are authorised by the Managing Director and are intended to ensure that systems are in place to protect the safety and health of all persons working on, or associated with, all APA operations. It also ensures the minimisation of the impact APA has on the environment to which we interact.

The Health, Safety and Environment Policy is also endorsed by the APA Health, Safety and Environment Representatives and supported by subordinate APA procedures. It is also supported by a list of specific policies and safety non-negotiables which are documents of equal importance.

It is a requirement that all employees, including contractors and subcontractors, comply with the requirements of the APA HSE Policy, as a minimum.

1.3.2 Strategy

APA aspires to provide a zero-harm work environment. We are committed to the effective implementation of our HSE Policy and to the continual improvement of our HSE Performance.

The APA HSE Management System is called 'Safeguard' and provides a framework by which the processes relating to the company's Health, Safety and Environment activities are defined, implemented and controlled. Additionally, local business unit processes and procedures/requirements, provide instruction to workers on performing activities safely.

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The high-level risk HSE risk management framework (known as RCA) is shown below.



Risks

- **Identify hazards** that may cause harm
- **Assess the risks** by determining likelihood and consequence of these hazards causing harm

Controls

- **Implement and maintain control measures** which prevent and/or reduce consequences of harm

Assure

- **Monitor and review** the effectiveness of the control measures.

1.4 Terms and abbreviations

The Generic APA Terms and Abbreviations are listed in the Terms and Abbreviations Glossary.

The Specific Terms and Abbreviations used in this document are listed below in Table 2 and Table 3 respectively.

Table 2: Terms

Item	Definition
The Site / Site Area	Area in which disturbance is approved to occur – Project Site Plan (see Appendix 1).
The Contractor	The construction contractor appointed to carry out the Works.
The Works	Refers to the project scope to be undertaken by the appointed Temporary Camp Contractor.

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Table 3: Abbreviations

Item	Definition
ACHMP	Aboriginal Cultural Heritage Management Plan
APA	APA Group – the proponent, owner and operator of MWP
BCS	Biodiversity Conservation and Science Group within the NSW Department of Climate Change, Energy, the Environment and Water
CEMP	Construction Environmental Management Plan
Council	Central Darling Shire Council
CPESC	Certified Professional in Erosion and Sediment Control
DPHI	Department of Planning, Housing and Infrastructure
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
ESCP	Erosion and Sediment Control Plan
HSE	Health, Safety and Environment
LEP	Local Environmental Plan
MWP	Moomba to Wilton Pipeline
NSW	New South Wales
PBP	Planning for Bush Fire Protection
SWMP	Soil and Water Management Plan
TfNSW	Transport for NSW
WONS	Weeds of National Significance

1.5 Environmental roles and responsibilities

The roles and responsibilities in relation to the implementation of this CEMP are set out below.

All personnel (i.e. APA and/or contractors) must:

- Comply with the requirements of applicable environmental legislation
- Undertake all activities in an environmentally responsible manner
- Comply with specific requirements of the planning approval and supporting documentation
- Conduct activities in accordance with this CEMP
- Participate in environmental and cultural heritage training relevant to roles and responsibilities.

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Table 4: Environmental roles and responsibilities for APA site representatives

Role	Responsibilities
Project Manager	• Ensure project is adequately resourced • Ensure all documentation is approved and in place in accordance with the contractual requirements
Greenfields Project Manager	• Ensure the necessary resources and processes are in place for implementation of this CEMP • Ensure non-conformances are identified, recorded and reported • Work with environmental representatives in planning and implementing environmental requirements • Ensure legal compliance
Supervisors: • Facilities • Earthworks	• Ensure the CEMP requirements are implemented and maintained • Ensure non-conformances are identified, recorded and reported • Drive implementation of corrective actions • Work with environmental group in planning and implementing environmental requirements
Project HSE Support	• Monitor the implementation and effectiveness of the Contractor's performance • Monitor the CEMP implementation and arrange amendments if required • Conduct environmental auditing and monitoring • Complete environmental statutory reporting requirements

Table 5: Environmental roles and responsibilities for contractor site representatives

Role	Responsibilities
Construction Manager	• Preparation and implementation of site induction • Ensure all project staff have a clear understanding of the environmental requirements relevant to their area of works • Ensure all Area Managers are familiar with the approved CEMP for construction and associated documents and their responsibilities within them • Participate and provide guidance in the regular review of the CEMP and associated documents • Take action in the event of an emergency and allocate the required resources to minimise environmental impact • Report any activity that has resulted, or has the potential to result, in an environmental incident to the APA HSE support and Project Manager
Site Supervisor	• Communicate with all personnel and subcontractors regarding compliance with the approved CEMP and site specific environmental issues

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Role	Responsibilities
	• Coordinate implementation and maintenance of pollution control measures • Identify resources required for implementation of the CEMP • Coordinate action in emergency situations and allocate required resources in accordance with the incidents, complaints and communication action plan • Ensure that instructions are issued and adequate information provided to field based employees which relate to environmental risks on site
Site Operator	• Carry out the activities in accordance with the CEMP • Carry out the necessary monitoring and reporting requirements • Identify and report non-conformances • Implement corrective actions • Work with environmental group in planning and implementing environmental requirements
HSE Support	• Monitor the implementation and effectiveness of the CEMP • Conduct environmental auditing, monitoring and training • Provide advice on environmental matters and corrective actions as requested • Ensure all environmental and safety reporting requirements are recorded and provided to APA • Review statutory compliance and ensure all approvals in place

1.6 Stakeholder consultation

In accordance with Condition C1(a) of Schedule Part C of the SSI-1554859 this CEMP has been prepared in consultation with Transport for NSW, BCS and Central Darling Council. Table 6 provides a summary of advice received from these

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stakeholders and how it has been addressed (if relevant), while copies of the correspondence received are provided in Appendix 5.

.Table 6: Stakeholder consultation record

Stakeholder	Advice	How addressd	Relevant section reference
Council	Council advised it was satisfied with the CEMP	Not required	NA
BCS	BCS advised that it had reviewed the matters relating to biodiversity and flooding, and that it has no specific comments to make on the CEMP at the time it reviewed the CEMP however noted that if subsequent information indicates that areas within BCS's responsibility require further investigation, BCS may provide future input.	Not required	NA
TfNSW	Condition C3A, which was included as a condition of the modified determination for Modification 6 has not been addressed within the updated Construction Environment Management Plan in Table 1: Approval conditions relevant to this CEMP. Table 1 and the CEMP should be updated to address Condition C3A, inclusive of any measures or protocols to achieve compliance with this condition.	The Condition C3A referred to in the advice relates to the out-of-ours work hours protocol. As discussed in Section 7.6.2 of the CEMP, an out -of-hours protocol is not required to be developed for Camp 3 site for reasons included in that section.	Section 7.6.2

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2. Project description

2.1 Overview

This CEMP is required for the construction and operation of the temporary accommodation camp at Tilpa (Camp 3) required to accommodate maintenance workers for the MWP comprising regular integrity surveys and repairs as required.

The key elements of the project are provided in section 1.1. A total of 3.86 ha of native vegetation clearing will be cleared.

The site area is shown in Appendix 1. The entire project site will be fenced for security purposes and to prevent livestock from adjoining properties straying onto the site.

2.2 Temporary accommodation Camp 3

The temporary accommodation camp will include:

- Demountable accommodation and services buildings and supporting infrastructure, including:
 - 80 individual rooms
 - full kitchen and dining area
 - food storage and cold room
 - offices
 - gym and recreational area
 - laundry
 - water tanks for storing water for the ablution and amenities facilities, and associated pipelines for the supply of electricity to buildings
 - a 10,000 L water tank for bushfire fighting purposes
 - diesel generators (350 kVa and 320 kVa), self-bunded fuel storage tanks, and associated pipelines for the supply of electricity to buildings
- Large and small vehicle parking
- Construction laydown area for the storage of construction materials to support maintenance activities
- Wastewater management system comprising a wastewater treatment plant and a designated area for spray irrigation disposal of treated wastewater.

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2.3 Construction activities

Construction activities associated with establishing the temporary accommodation camps and installing the proposed facilities at the modification sites will include:

- Site preparation:
 - site levelling and compaction
 - electrical installations (generators and related equipment) for powering each temporary accommodation camp
 - plumbing installations
- Mobilisation and building installations (for each maintenance period):
 - prefabricated construction camp buildings would be trucked to site
 - building placement placed onto prepared areas using forklifts
- Site finishing (after mobilisation of temporary accommodation camp buildings):
 - demobilisation of trucks, machinery and equipment not required during operation for MWP maintenance works
 - installation of diesel generators, wastewater treatment facilities, water tanks
- Establishment of the wastewater treatment plant, spray irrigation pipelines and irrigation area
- Rehabilitation and demobilisation.

Construction materials and supplies (including food and services for the temporary accommodation camps) are to be sourced from local suppliers where practicable.

2.4 Project timeframes and work hours

Early works and camp establishment will be undertaken in early Q1 2025. Construction works will be undertaken over a six-week period comprising the following construction phases:

- Construction Stage 1 – site preparation: One week
- Construction Stage 2 – mobilisation and building installations, site commissioning: Four weeks
- Construction Stage 3 – site decommissioning and rehabilitation: One week.

Construction will be undertaken 7 days per weeks (including Sundays and public holidays) from 7 am to 6 pm, which are outside the standard hours for construction work as per *Interim Construction Noise Guideline* (DECC, 2009).

Refer to Section 7.6.2 for noise management during construction.

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3. Site Area and access

Access to the camp site will be via Tilpa-Louth Road and the unsealed track that connects to the site.

Internal access tracks (unsealed) will be constructed for vehicles to access the temporary accommodation camp area.

All vehicles are to always stay within tracks.

4. Legislative and regulatory context

APA is committed to compliance with legislative requirements and industry standards through all of its activities. A list of key legislation relevant to project approvals and a summary of the status of required regulatory approvals is detailed in the following sections.

4.1 Commonwealth

Table 7: Relevant Commonwealth legislation

Approval	Act	Status
EPBC Act Referral	<i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i>	EPBC 2024/09810 referral: - Submitted: 29 February 2024; - Decision made: 21 May 2024 as 'not controlled' action

4.2 State policies, guidelines and regulations

Table 8: Relevant NSW legislation and guidelines

Approval	Act	Relevance
NSW Planning Approval	<i>Environmental Planning and Assessment Act 1979</i>	SSI-15548591 Modification 6 approval received on 11 September 2024
Pipeline Licence	<i>Pipelines Act 1967</i>	Works in accordance with PL16
Sewage management system section 68 approval	<i>Local Government Act 1993 (LG Act)</i>	Section 68 approval for the wastewater management system consistent with 'system of sewage management' in accordance with sections 68A(1) and (2) of the LG Act, and approval will be sought from Central Darling Shire Council.

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5. Description of the environment

5.1 Topography, hydrology and flooding

The project site is located approximately 200 metres (m) to the north of Boathole Creek that flows northeast past the site. This reach of Boathole Creek is an ephemeral, poorly defined network of shallow first order streams.

Boathole Creek flows into Talyawalka Creek, an eventual tributary of the Darling River. A local water source, Jinki Lake, is located approximately 2.7 km to the north of the site.

The site is located just to the north of the Barwon – Darling River floodplain, and about 5 km north of the Darling River.

The southern part of the site gently slopes from 92 to 89 m Australian Height Datum (AHD) near Boathole Creek. In the northern part of the site, elevations range from 91 to 95 m AHD.

The site is above the 0.2 per cent Annual Exceedance Probability (AEP) flood extent mapped by the *Darling River Flood Mapping Study* (Manly Hydraulics Laboratory and Public Works Advisory, 2023). The site has therefore been assessed to be flood free up to this flood event. The project site footprint is located about 135 m from the mapped extent of the one per cent AEP floodplain.

5.2 Geology and soils

The site is located within the Paroo Warrego Isolated Hills landscape. This landscape is generally comprised of ridges, rocky cliffs, sand covered footslopes and sandplains. There are no areas of relevant geological significance within the site. There are no karst, caves, crevices, cliffs, rocks or other geological features of significance within the project site.

The site geology comprises aeolian sand plain (Q_ds) and alluvial floodplain deposits (Q_af) and can be described as floodplain deposits consisting of silt, very fine to medium grained sand and clay.

Soils at the site correspond to siliceous sands/calcareous red earths (mapped by the Great Soil Group Soil Type Map of NSW) and rudosols (mapped by the Australian Soil Classification soil type map of NSW).

Rudosols are typically young, alluvial and can be highly saline. Siliceous sands/calcareous red earths are typically shallow, soft, powdery or weakly structured loams to light clays.

5.3 Vegetation

The project site is located within the Mulga lands bioregion, within the Paroo Overflow subregion. The Darling Riverine Plains region is located in the broader study area. Vegetation is scattered, increasing in density on upper slopes and along drainage lines. Vegetation within the site is connected to similar shrubland and partially cleared floodplain woodland habitat in the surrounding area.

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Native vegetation within the site comprises two plant community types (PCTs):

- PCT 40 – Coolabah open woodland wetland with chenopod/grassy ground cover on grey and brown clay floodplains
- PCT 153 – Black Bluebush low open shrubland of the alluvial plains and sandplains of the arid and semi-arid zones.

A total of 0.76 ha of PCT 40 at the site conforms to the endangered ecological community (EEC) 'Coolibah-Black Box Woodland in the Darling Riverine Plains, Brigalow Belt South, Cobar Peneplain and Mulga Lands Bioregions', listed under the BC Act. This vegetation does not meet the condition criteria for the EPBC Act listed EEC.

PCT 153 does not align with any listed threatened ecological communities.

No threatened flora species were recorded within the site footprint. No hollow-bearing trees were identified within the site.

5.4 Rainfall

The general area around the site receives an average rainfall of 285 mm/year, an average evaporation of 2283 mm/year, and therefore a mean annual rainfall deficit of 1998 mm per year.

5.5 Sensitive receptors

The nearest sensitive receptor (residential) is located approximately 650 m to the northeast of the project site.

5.6 Site Constraints

The Key environmental constraints on the site are summarised in Table 9.

Table 9: Key environmental constraints

Environmental Constraint	Description and management of constraint
Native vegetation impacts	Restriction of biodiversity impacts to a maximum 3.86 ha native vegetation within the sites due to direct clearing as follows: • Maximum 0.76 ha of PCT 40 Coolabah open woodland wetland with chenopod/grassy ground cover on grey and brown clay floodplains • Maximum 3.10 ha of PCT 153 PCT 153 – Black Bluebush low open shrubland of the alluvial plains and sandplains of the arid and semi-arid zones. Clearing will be restricted to the quanta of approved PCT 40 and PCT 153 native vegetation demarcation of areas to be cleared. Contractor to remain within the approved site area (Appendix 1).

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Environmental Constraint	Description and management of constraint
Aboriginal sites	- Two artefact scatters ((Kallara-OS1, AHIMS 16-4-0053) and (Kallara-OS2, AHIMS 16-4-0052)) - One isolated find (Kallara-IF1, AHIMS 16-04-0054). While partial harm to Kallara-OS1 artefact scatter will occur, the remainder of this site and the sites (Kallara-OS2 and Kallara-IF1) will be conserved in the landscape. Contractor to remain within the approved site area.
Sensitive residential receptor	One isolated residential receptor 650 m northwest of the project site.
Soils on site	Soils susceptible to wind and water erosion when disturbed will be managed appropriately in line with the Soil and Water Management Plan (Soil and Water MP) including the Erosion and Sediment Control Plan within the Soil and Water MP.

6. Environmental impact assessment

The Modification Report for Modification 6 was prepared by GHD Pty Ltd and approved under section 5.25 of the EP&A Act.

The Modification Report:

- Identified key phases of the project
- Identified key tasks / activities associated with each phase of the project
- Identified potential risks from the project that may impact on the environment
- Identified control measures to manage risks.

Environmental issues with the potential to impact the environment were assessed in specialist technical reports. These technical assessments identified the potential environmental impacts associated with the project, assessed the significance of impacts, and proposed mitigation measures or management controls to manage these potential impacts to ensure that the residual impacts after implementation of mitigation measures were unlikely to be significant. The mitigation measures considered the avoidance of impacts in the first instance and then minimisation of impacts to the greatest extent feasibly possible.

The CEMP outlines how the management controls that will be implemented to minimise impacts from the project.

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7. Management plans

Environmental objectives, performance targets and risk management measures have been developed for the identified potential environmental impacts associated with the construction of the project.

The environmental issues to be managed in this CEMP are as follows:

- Biodiversity
- Biosecurity
- Soil and water
- Aboriginal cultural heritage
- Air quality
- Noise
- Visual amenity
- Traffic
- Fuels, oils and chemicals
- Bushfire risk and emergency response
- Waste management
- Sewage treatment / disposal
- Restoration and rehabilitation.

In addition to the above specific environmental issues, general project management measures requiring compliance are as follows:

Table 10: General management measures

Control Measures	Responsibility
The approved Site Area, including vegetation clearing extent and environmental or heritage features within the Site Area, will be clearly demarcated and identified during the construction stage with survey pegs and at some locations with flagging, bunting, barrier mesh or similar. Exclusion Zones will be clearly marked and communicated as such.	☐ APA ☒ Contractor
All temporary infrastructure will be decommissioned and removed at the completion of construction.	☐ APA ☒ Contractor
All project personnel will complete an induction that will include environmental and heritage management requirements.	☐ APA ☒ Contractor
Nearby landholders will be provided a dedicated point of contact for the duration of the project.	☒ APA ☐ Contractor

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7.1 Biodiversity

Table 11: Biodiversity management sub-plan

Area	Details
Values	Native vegetation occurring within the site comprise: - PCT 40 Coolabah open woodland wetland with chenopod/grassy ground cover on grey and brown clay floodplains - PCT 153 PCT 153 – Black Bluebush low open shrubland of the alluvial plains and sandplains of the arid and semi-arid zones. No hollow-bearing trees occur within the project site. No threatened fauna species were recorded at the site. No threatened fauna species were recorded in or within the vicinity of the site. The site contains potential habitat for open-country fauna of semi-arid shrubland and floodplain environments; however, contains very limited shelter and habitat resources. No threatened species listed under the EPBC Act were recorded at the site. The site does not provide suitable habitat resources for potential occurrence of threatened species who may persist in the local area.
Activities that may impact on values	- Removal of native vegetation - Application of treated wastewater on native vegetation due to the effluent irrigation resulting in the application of high nutrient wastewater to land - Increased vehicle movement and increased human activity - General construction, including indirect impacts on flora and fauna located outside the site as a result of project activities - Construction activities can increase the spread, introduction and establishment of weed, pest species and diseases and pathogen
Potential impacts	Potential impacts on biodiversity include: - direct impacts because of: - vegetation clearing and disturbance for infrastructure installation during construction - effluent irrigation resulting in the application of high nutrient wastewater to land during operation - indirect impacts on flora and fauna located outside the site because of activities within the footprints (during construction and operation). Direct impacts: - Removal of maximum 0.76 ha of PCT 40 Coolabah open woodland wetland with chenopod/grassy ground cover on grey and brown clay floodplains - Removal of maximum 3.10 ha of PCT 153 – Black Bluebush low open shrubland of the alluvial plains and sandplains of the arid and semi-arid zones.

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Area	Details
	Impacts on threatened ecological communities: - Impact up to 0.76 ha of the BC Act listed EEC 'Coolibah-Black Box Woodland in the Darling Riverine Plains, Brigalow Belt South, Cobar Peneplain and Mulga Lands Bioregions' - Indirect impacts on the receiving environment by the alteration of soil moisture and chemical properties that adversely affect native plants and soil organisms and/or promote growth of environmental weeds from the application of treated wastewater. Indirect impacts: - Edge effects - Introduction and/or spread of weeds/pathogens - Increase in animals within the site - Fauna mortality from vehicle strikes - Increased levels of noise, vibrations, lighting and dust - Increased erosion with the potential to impact on vegetation - Fragmentation of habitat connectivity, resulting in reduction in connectivity - Indirect impacts on flora and fauna located outside the site as a result of project activities.
Performance objectives / targets	- Clear vegetation only approved to be cleared to minimise impacts on biodiversity values of the area - Install erosion and sediment control measures - Undertake progressive rehabilitation and use native species for rehabilitation - At the end of project life create a final landform that is safe, hydraulically stable and non-polluting and integrated with surrounding natural landforms when viewed from surrounding land - Plant native vegetation in the final landform as much as practicable consistent with native vegetation within the site and in the surrounding areas
Standards	- Australian Standards AS 4970-2009 Protection of trees on development sites - Australian Standard AS 4282-1997 Control of the Obtrusive Effects of Outdoor Lighting - APA HSE EP 13.01.01 Environmental Approvals - APA HSE EP 13.02.02 Native Vegetation Management
Monitoring requirements	Undertake pre-clearance surveys using a suitably qualified and experienced ecologist
Contingency and corrective actions	Follow contingency plan as outlined in Section 8

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Area	Details
Records	- Records of personnel who have completed the environmental and heritage induction - Records of any fauna mortalities from vehicle strikes - Records of any non-compliance leading to impacts on biodiversity values of the area

Control Measures	Responsibility
All workers will be provided with an environmental induction prior to starting work on site. This would include information on the biodiversity values of the proposal site, protection measures to be implemented to protect native biota and penalties for breaches.	☐ APA ☒ Contractor
Adherence to <i>Australian Standard AS 4282-1997 Control of the Obtrusive Effects of Outdoor Lighting</i> for management of light generated during construction to minimise the effects of light spill outside the site boundary as far as possible, including using directional lighting.	☐ APA ☒ Contractor
To manage removal of vegetation and habitat resources: - Vegetation clearance and disturbance, including impacts to trees will be minimised as far as possible. Where possible, limit clearing to trimming rather than the removal of whole plants. - Plans showing areas to be cleared and areas to be protected (including exclusion zones) and protected habitat features in the vicinity of work areas) will be prepared and implemented prior to vegetation clearing. - The approved disturbance footprint (Appendix 1) will be flagged using high visibility fencing and clearly marked as limits of fencing, and all vegetation outside this fence line will be clearly delineated as an exclusion zone to avoid unnecessary vegetation and habitat removal and the transmission of weeds or disease. - Fencing and signage will be maintained for the duration of the construction period. - Fencing will be designed to allow fauna to exit the project site during clearing activities. - Stockpiles of fill or vegetation will be placed within existing cleared areas (and not within areas of adjoining native vegetation). - Hygiene protocols will be implemented to prevent the introduction and spread of weed propagules and soil pathogens. - If excavation is required in the root zone of canopy trees, retain the tree if possible as it would continue to provide foraging and shelter habitat for a range fauna species.	☐ APA ☒ Contractor

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Control Measures	Responsibility
To avoid or minimise impacts on resident fauna: - Pre-clearance surveys will be undertaken and will include: - An initial pre-clearance survey of the project site will be undertaken by a suitably qualified ecologist prior to the commencement of any clearing activities including surveys for roosting microbats for any man-made structures to be removed, searches for nests in vegetation to be removed and identification of fauna refuge sites potentially requiring fauna management during removal, including woody debris. - A daily pre-clearance fauna survey will be undertaken by a suitably qualified ecologist each day prior to the clearing of native vegetation. - If animals are found, procedures outlined in the protocol for capture and relocation (below) will be followed. Surrounding vegetation within the proposal footprint can then be cleared. - If no fauna is found, then surrounding vegetation (within the project site footprint) will only then be cleared. This process will be monitored by the ecologist in case fauna are found to be at risk. - Animals that require handling will not be approached or handled until the ecologist is present, unless in an emergency (e.g. when there are both no authorised persons present and where the failure to immediately intervene would place the animal at significant risk). In such an emergency, the site manager will obtain over the phone instructions from the project ecologist to ameliorate the situation. A wildlife rescue organisation (e.g. WIRES) will be made aware of operations in case any injured fauna is found. - All animals encountered will be treated humanely, ethically, and in accordance with relevant codes under the <i>NSW Prevention of Cruelty to Animals Act 1979</i>, including: - Australian code of practice for the care of animals for scientific purposes (NHMRC, 2013) - Code of practice for the welfare of wildlife during rehabilitation (DPI VIC, 2001) - animal ethics considerations and protocols outlined in this document. - If the project ecologist considers an animal is at risk of injury or undue stress, it will be gently directed into secure adjoining habitat. Where deemed necessary by the project ecologist, the animal will be captured and released. Capture and release operations will proceed via the following protocols: - All activities that are considered by the project ecologist to be likely to increase the risk of injury, mortality or stress to the animal will be halted until the animal has been removed, which will be enforced with the co-operation of the Contractor. Activities that do not contribute to the risk of injury, mortality or stress to the animal can continue (as determined by the project ecologist). - Only qualified ecologists or wildlife carers are authorised to handle animals.	☐ APA ☒ Contractor

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Control Measures	Responsibility
Animals will be captured (if required) by the project ecologist using a safe and ethical technique, as is appropriate for the particular species as determined by the project ecologist. Native animals that are unable to depart of their own accord will be captured and held in a receptacle appropriate for that species until release. All captive-held animals will be provided with food, water and warmth as is appropriate for the species. Each receptacle will only hold one animal at a time and will be cleaned and disinfected between use to avoid the spread of disease.	
To avoid the potential spread and establishment of weeds and disease the following weed management in key areas prior to construction will be undertaken as follows: - Appropriate identification, management and disposal of weed species during clearing works, in accordance with the biodiversity management plan - Active and intensive weed control in areas where significant weeds are known to occur to reduce the cover of weeds adjacent to the construction activities, preventing the spread of weeds into other areas - Washing down and disinfection of all machinery entering the site in accordance with the <i>NSW Best Practice Protocols to Protect Priority Biodiversity Areas</i> (DPIE 2020) and certified weed-free prior to initial entry to site - Adherence by all vehicles, plant and equipment to the marked roads, tracks, easements, parking areas and other designated work areas to minimise contact with vegetation - Re-certification as weed-free of all vehicles, plant and equipment breaching protocol and travelling outside of approved areas - Keeping biosecurity certifications with the vehicle and plant at all times - Implementation of a weed and pathogen monitoring program with a weed control program to be implemented if weeds are identified within the project site boundary - Implementation of measures to prevent introduction or spread of weeds and diseases in accordance with Protocols to protect priority biodiversity areas in NSW from <i>Phytophthora cinnamomi</i>, myrtle rust, amphibian chytrid fungus and invasive plants (DPIE, 2020) - Management of priority weeds in accordance with the requirements of NSW Biosecurity Act 2015, including stockpiles of Weeds of National Significance (WONS), including any affected topsoil, will be disposed of at an appropriately licensed waste management facility - Rehabilitation of cleared areas as quickly as possible following construction works in an area.	☐ APA ☒ Contractor

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7.1.1 Post-clearance procedure

Following vegetation clearing, the construction manager will ensure:

- A post-clearing report is prepared by a suitably qualified ecologist that documents how all fauna handling was undertaken or otherwise was managed within the site and will include:
 - date and time of the sighting and details of the observer
 - fauna species
 - number of individuals recorded
 - adult/juvenile classification
 - condition of the animal (living/dead/injured/sick)
 - management action undertaken (e.g. captured, handled, taken to vet etc.)
 - results of any management actions (e.g. released, placed in a nest box, euthanised, placed with carer).

An inventory of salvaged and relocated habitat will also be maintained.

7.1.2 Retirement of biodiversity offsets credits

In accordance with Condition 22 of the SSI-15548591 approval; the ecosystem credits required to be retired for the project site are included in Table 4 of this condition prior to native vegetation

In accordance with Condition B23, evidence of the retirement of credits in satisfaction of Condition B22 will be provided to the Planning Secretary as soon as practicable following the retirement.

7.2 Biosecurity

Table 12: Weed management sub-plan

Area	Details
Values	As per Table 11
Activities that may impact on values	• Increased vehicle movement and increased human activity may cause the introduction or spread of weeds, pathogens and feral animals on site.
Potential impacts	• Introduction and/or spread of weeds and pathogens • Mortality of native fauna from <i>Phytophthora cinnamomi</i> • Increased attraction of feral animals and mortality of native fauna from feral animals

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Area	Details
Performance objectives / targets	• Ensure that existing weeds do not spread within the site or off-site • Ensure no introduction of new weeds • Ensure no introduction of pathogens • Ensure no increase in feral animal abundance
Standards	• Hygiene Guidelines - Protocols to protect priority biodiversity areas in NSW from <i>Phytophthora cinnamomi</i>, myrtle rust, amphibian chytrid fungus and invasive plants, (NSW Department of Planning, Industry and Environment 2020) • APA HSE EP 13.01.01 Environmental Approvals • APA HSE EP 13.02.02 Native Vegetation Management
Monitoring requirements	A weed and pathogen monitoring program will be implemented (see Section 7.2.2), comprising: • Weekly inspections of the site will be undertaken to identify and remove any weeds • Weeds will be removed and appropriately disposed of at a licensed waste facility.
Contingency and corrective actions	• Follow contingency plan as outlined in Section 8.
Records	• Any WONS recorded on site • Records from weekly weed monitoring including presence of new weeds and weeds that have been removed • Records of personnel who have completed the environmental and heritage inductions • Records of vehicle weed certification

Control Measures	Responsibility
Appropriate identification, management and disposal of weed species during clearing works.	☐ APA ☒ Contractor
Implement measures to prevent introduction or spread of weed and diseases in accordance with NSW Govt Hygiene Guidelines <i>Protocols to protect priority biodiversity areas in NSW from Phytophthora cinnamomi, myrtle rust, amphibian chytrid fungus and invasive plants.</i>	☐ APA ☒ Contractor
Implement measures to manage priority weeds in accordance with the requirements of <i>NSW Biosecurity Act 2015</i>	☐ APA ☒ Contractor
Active and intensive weed control in areas where significant weeds are known or are likely to occur to reduce the cover of weeds including in key areas such as laydown areas or vehicle parking bays and adjacent to the construction activities.	☐ APA ☒ Contractor

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Control Measures	Responsibility
Vehicle, plant and equipment to be cleaned down and certified weed free (in accordance with Section 184 of the <i>Biosecurity Act 2015</i>) prior to initial entry to the Site Area.	☒ APA ☒ Contractor
Vehicles, plant and equipment to strictly adhere to approved roads and tracks.	☒ APA ☒ Contractor
Biosecurity certifications to be kept with the vehicles, plant and equipment.	☒ APA ☒ Contractor
Waste materials will be reused or recycled or disposed of at licenced facilities.	☒ APA ☒ Contractor
Refuse containers will be lidded and no waste to be left outside.	☐ APA ☒ Contractor
Rehabilitation of cleared areas as quickly as possible following construction works in an area.	☐ APA ☒ Contractor

7.2.1 Vehicle and plant wash down

All vehicles, plant and equipment will be cleaned down and disinfected and certified weed free in accordance with Section 184 of the *Biosecurity Act 2015* and NSW best practice Protocols to protect priority biodiversity areas (DPIE, 2020b), prior to initial entry to the Site Area.

Once certified weed free, all vehicles, plant and equipment will strictly adhere to the approved roads, tracks, easements, parking areas and other designated work areas to minimise contact with off-site vegetation.

Any breaches of protocol and travelling outside of approved areas will require the vehicle, plant and/or equipment to be re-certified in accordance with Section 184 of the *Biosecurity Act 2015*.

Biosecurity certifications will be kept with the vehicle, plant and equipment at all times.

7.2.2 Weed and pathogen monitoring

During construction, weekly inspections of the site will be conducted for weed and pathogens. These weekly inspections will include:

- Control and removal of any weed species, including WONS
- Removal of any affected topsoil, which will be disposed of at an appropriately licensed waste management facility as required by the *Biosecurity Act 2015*
- Recording of any new weed species or infestations that occur on site.

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7.2.3 Disposal of biosecurity material

Weeds identified during weed and pathogen monitoring will be double bagged, and appropriately stored, collected and transported by licenced contractors for disposal at appropriately licensed facilities.

7.2.4 Feral animal control

During construction and with an increase in human activity, there is potential for an increase in feral animal activity which may increase pressure on native fauna and reduce quality of vegetation.

To minimise the risk of increased predator activity, the Contractor will implement the following during construction:

- Waste materials generated during construction will be reused or recycled where practicable, or collected and transported by licenced contractors for disposal at appropriately licensed facilities.
- Refuse containers will be located at each worksite to enable collection of waste, with regular removal from worksites to designated areas.
- Refuse containers will be lidded to mitigate fauna access. No waste will be left outside in open areas accessible to feral animals.

7.3 Soil and water

Table 13: Soil and water management sub-plan

Area	Details
Values	• Water quality of downstream surface water. • Stability of soils to preserve the landform by minimising the risk of erosion.
Activities that may impact on values	• General construction activities and handling of hazardous chemicals. • Use of water and associated generation of wastewater.
Potential impacts	• Sedimentation and erosion if sediment enters waterways. • Spills or contamination caused by inappropriate handling of hazardous chemicals and poorly managed wastewater.
Performance objectives / targets	Prevent occurrence of soil erosion during and following construction: • No soil erosion within construction work areas • No sediment loss from construction areas • Erosion controls installed and maintained in accordance with the project Erosion and Sediment Control Plan (ESCP) • Minimise change to soil profile from disturbance activities • No evidence of subsoil on surface within excavated areas following rehabilitation

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Area	Details
	- No visual evidence of soil compaction following rehabilitation activities - Avoidance of impacts to receiving waters on and off-site.
Standards	- Best Practice Erosion and Sediment Control – for building and construction sites (International Erosion Control Association (Australasia) 2008). - Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom 2004). - Controlled Activities: <i>Guidelines for riparian corridors on waterfront land</i> (DPE Water, 2022). - Controlled Activities: <i>Guidelines for outlet structures on waterfront land</i> (DPE Water, 2022).
Monitoring requirements	- Water quality monitoring in response to direction from regulators, such as the NSW EPA, or when potential contamination is suspected. - Weekly inspection of drainage, erosion and sediment control measures and following significant rainfall event.
Contingency and corrective actions	- Should erosion and sedimentation be evident, stop work immediately, report incident and remedy in accordance with ESCP. - Follow contingency plan as outlined in Section 8.
Records	Weekly inspection report

7.3.1 Soil and water management plan

Soil and water resources at the site will be managed in accordance with the Soil and Water Management Plan (SWMP) presented in Appendix 2.

7.3.2 Erosion and sediment control

A site-specific Erosion and Sediment Control Plan, part of the SWMP (see Appendix 2 to this CEMP), will be implemented.

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7.4 Aboriginal Cultural Heritage

Aboriginal cultural heritage at the project site will be managed in accordance with the Aboriginal Cultural Heritage Management Plan (ACHMP), presented in Appendix 3, required by condition B19 of the SSI-15548591 approval.

Table 14: Aboriginal cultural heritage management sub-plan

Area	Details
Values	- Items/areas of known and unknown Aboriginal Cultural Heritage significance including the: - Two artefact scatters ((Kallara-OS1, AHIMS 16-4-0053) and (Kallara-OS2, AHIMS 16-4-0052)) - One isolated find (Kallara-IF1, AHIMS 16-04-0054).
Activities that may impact on values	- Site establishment and camp mobilisation - General construction works
Potential impacts	Direct or indirect harm to known or unknown Aboriginal heritage items
Performance objectives / targets	Respect and protection of items of Aboriginal cultural heritage
Standards	- Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 - Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010
Monitoring requirements	- Monitoring requirements as set out in the Aboriginal Cultural Heritage Management Plan at Appendix 3, which include protocols for ongoing consultation with Registered Aboriginal Parties (RAPs) by APA. - The following RAPs have been consulted on the ACHMP: - Barkandji #8 Native Title Determinants - Wilcannia Local Aboriginal Land Council - Stakeholder 1 (Stakeholder 1 in the ACHMP has requested that their details not be shared).
Contingency and corrective actions	An unexpected finds protocol and unexpected and unconfirmed human remains protocol is detailed as a part of the ACHMP at Appendix 3.
Records	- Copies of all heritage records to be kept by APA, including the ACHMP, SSI approval, site location maps, archaeological reports and salvage and applicable site cards/Aboriginal Site Impact Recording Forms (ASIRFs) - Records of cultural heritage inductions to be kept by the Contractor - Notifying the AHIMS Registrar of object discoveries as soon as practicable via a site card - APA to notify the Planning Secretary within seven days of non-compliance with the ACHMP

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As required by condition B20 of the SSI-15548591 approval, the Contractor will implement the approved ACHMP during the construction phase of the project.

7.5 Air quality

Table 15: Air management sub-plan

Area	Details
Values	• Biological integrity of natural ecosystems and ecological processes • Sensitive receptors
Activities that may impact on values	• Site establishment and camp mobilisation • General construction works • General project transport activities and deliveries
Potential impacts	• Dust emissions from construction activities. • Emissions from the combustion of fuel (diesel) by onsite plant and equipment
Performance objectives / targets	• Prevent the generation of dust in preference to applying dust suppression measure • Minimise potential for unplanned emissions to the atmosphere including dust • Ensure there is no health risk or loss of amenity due to emission of dust to the environment • Compliance with relevant legislation and standard
Standards	• APGA Code of Environmental Practice • APA HSE EP 13.03.01 Gas, Dust & Light Emissions Management
Monitoring requirements	• Daily visual check for dust • Maintenance checks on plant and equipment • Conduct monitoring if required or if a complaint has been received
Contingency and corrective actions	• Should wind conditions become unfavourable, dust generating activities will be ceased until conditions are favourable, as directed by the APA Construction Manager • Follow contingency plan as outlined in Section 8
Records	• Maintenance records • Daily pre-start equipment check records • Site inspection reports • General housekeeping inspection reports • Compliance records

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Control Measures	Responsibility
Stabilisation of exposed soils will be undertaken as soon as practicable. Dust suppression will be undertaken when dust is visible on unpaved work areas subject to traffic or winds using water sprays, water extension agents or other suitable media: When water is used for dust suppression, it will not be applied in a way that causes ponding or runoff.	☐ APA ☒ Contractor
Works effort will be reduced on days with forecast and actual high winds (i.e., >10 m/s) if wind-blown dust is observed to be leaving site boundary.	☐ APA ☒ Contractor
Construction vehicles with potential for loss of loads (such as dust or litter) will not be overloaded and will be covered when using public roads.	☐ APA ☒ Contractor
Plant and equipment will be maintained in accordance with manufacturer's specifications and in good condition to minimise ignition risk, fuel consumption, spills and air emissions that may cause nuisance.	☐ APA ☒ Contractor
Vehicles, plant and equipment used on site (including generators) will not be used where they produce excessive emissions (based on a visual assessment) until service/maintenance can be undertaken to return them to normal working order.	
Plant, equipment and vehicle engines will be switched off when not in use and not left to idle for prolonged periods.	☐ APA ☒ Contractor
Material handling will be efficiently scheduled and planned to minimise fuel consumption.	☐ APA ☐ Contractor
10% blended ethanol fuel (B10) will be used for trucks, light vehicles, plant and equipment as much as practicable.	☐ APA ☒ Contractor
Services and materials (aggregates, etc.) will be sourced locally, where practicable.	☐ APA ☒ Contractor
Low carbon alternatives will be procured where practicable (use of lower carbon cement alternatives).	☐ APA ☒ Contractor
Diesel generators will be placed away from the temporary accommodation camp buildings as far as reasonably practicable.	☐ APA ☒ Contractor
The diesel generators will be relocated away from the temporary accommodation camp buildings at a more appropriate location if visible exhaust plumes are observed, or smoke or odours are observed within the buildings.	☐ APA ☒ Contractor

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7.6 Noise

Table 16: Noise management sub-plan

Area	Details
Values	• Low background noise environment in a rural setting • Sensitive residential receptor
Activities that may impact on values	• Site establishment and camp mobilisation • General construction works
Potential impacts	• Negative impacts to sensitive receptors resulting from excessive noise
Performance objectives / targets	• Minimise noise impact on surrounding residents by ensuring unacceptable noise is not emitted beyond the site area • Ensure there is no health risk or loss of amenity due to noise emissions • Maintain a good relationship with the local community • Compliance with relevant legislation and standard
Standards	• Interim Construction Noise Guideline (ICNG) 2009 • NSW Environmental Protection Authority <i>Noise Policy for Industry</i> (EPA, 2017)
Monitoring requirements	• If complaints are received regarding construction noise, implement control measures and conduct monitoring at the affected residence to determine whether criteria are exceeded
Contingency and corrective actions	• Follow contingency plan as outlined in Section 8
Records	• Maintenance records • Daily pre-start equipment check records • Site inspection reports • General housekeeping inspection reports • Compliance records

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Control Measures	Responsibility
Noise generated by any construction, upgrading or decommissioning activities will be minimised in accordance with the best practice requirements outlined in the <i>Interim Construction Noise Guideline</i> (DECC, 2009), or its latest version.	☐ APA ☒ Contractor
All activities would be undertaken during the primary modification construction hours of 7:00 am to 6:00 pm, Monday to Sunday (including public holidays) with due regard to the requirements of requirements for out-of-hours work protocol discussed in section 7.6.2 and as required by condition B7A and condition C4 of the SSI-15548591 approval.	☐ APA ☒ Contractor
All employees, contractors and subcontractors are to receive an environmental induction. The induction must at least include: • all project specific and relevant standard noise and vibration mitigation measures • relevant licence and approval conditions • permissible hours of work • any limitations on high noise generating activities • location of nearest sensitive receivers • construction employee parking areas • designated loading/unloading areas and procedures • site opening/closing times (including deliveries) • environmental incident procedures.	☐ APA ☒ Contractor
Site preparation works would be undertaken during the <i>Interim Construction Noise Guideline</i> (DECC, 2009) recommended standard construction hours, except for where a negotiated agreement has been reached with affected receivers.	☐ APA ☒ Contractor
• With the exception of delivery of oversized plant or structures, schedule deliveries to nominated hours only. • Optimise the number of vehicle trips to and from site – movements can be organised to amalgamate loads rather than using a number of vehicles with smaller loads. • Limit access routes to the site to the designated routes only and ensure drivers are aware of nominated vehicle routes. • Manage driver behaviour and avoidance of the use of engine compression brakes. • Drivers to stay within speed limits at all times.	☐ APA ☒ Contractor
A complaints management system will be implemented.	☐ APA ☒ Contractor
A dedicated point of contact will be provided to the nearby residential receptors.	☐ APA ☒ Contractor

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Control Measures	Responsibility
When purchasing, select, where feasible and reasonable, the most effective mufflers. Always seek the manufacturer's advice before making modifications to plant to reduce noise. Silencers/mufflers are required on the following mobile plant: • Excavators • Bulldozers • Rollers • Water carts • Mobile cranes.	
Broadband reversing alarms will be used in preference to 'beeper' reversing alarms on construction vehicles and machinery.	☐ APA ☒ Contractor
During installation of equipment during construction phase, the sound power levels of will be selected not to exceed the following levels as far as practicable: • Power generation: • 320 kVa generator: 87 dBA • 350 kVa generator: 87 dBA • 100 kVa generator: 81 dBA • Wastewater treatment: 93 dBA • Refrigeration system: 85 dBA. Where selected equipment exceeds the sound power levels above, alternate noise control strategies will be implemented (such as acoustic enclosures and noise barriers) to ensure noise levels do not exceed the noise criteria at the one sensitive receiver.	
• Loading and unloading of materials/deliveries will occur as far as possible from sensitive receivers. • Dedicated loading/unloading areas will be shielded if close to sensitive receivers. • Delivery vehicles will be fitted with straps rather than chains for unloading, wherever possible. • Avoid or minimise out of hours movements where possible.	☐ APA ☒ Contractor

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7.6.1 Construction hours

Construction hours will be adhered to as required by Condition B7 of the approval and reproduced in Table 17.

Condition B7A, also included in Table 17 allows activities to be undertaken outside the hours specified in Condition B7.

Table 17: Conditions of approval relevant to out of hours work

Condition in approval	Condition requirements
B7	Unless otherwise agreed by the Secretary, the Proponent may only undertake construction activities between: (a) 7 am to 6 pm Monday to Friday; (b) 8 am to 1 pm Saturdays; and (c) At no time on Sundays and NSW public holidays. The following activities may be undertaken outside these hours without the approval of the Secretary: (a) The delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; (b) Emergency work to avoid the loss of life, property and/or material harm to the environment; (c) Where a negotiated agreement has been reached with affected receivers; or (d) Works as approved through the out-of-hours works protocol (see Section 7.6.1 of this CEMP) as approved through the CEMP required by Condition C1.
B7A	The following activities may be undertaken outside the hours specified in Condition B7 without the approval of the Secretary: a) the delivery of materials as requested by the NSW Police Force or other authorities for safety reasons; emergency work to avoid the loss of life, property and/or material harm to the environment; b) where a negotiated agreement has been reached with affected receivers; c) works as approved through the out-of-hours works protocol as approved through the CEMP required by condition C1; or d) construction that causes $L_{Aeq(15\text{minute})}$ noise levels that are: i) no more than 5 dB above Rating Background Level at any residence in accordance with the <i>Interim Construction Noise Guideline</i> (DECC, 2009); and ii) no more than the Noise Management Levels specified in Table 3 of the <i>Interim Construction Noise Guideline</i> (DECC, 2009) at other sensitive land uses.

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7.6.2 Out-of-hours work protocol

Construction works that will be undertaken outside of the construction hours permitted by Condition B7 of the approval (see Table 17) and will generally occur during the hours of 1 pm to 6 pm on Saturdays and 7am to 6pm on Sundays and public holidays (no works between 6 pm and 7 am on any day) comprise:

- Earthworks and general construction works
- Delivery of oversized plant or structures where the NSW Police or other authorities have determined that special transport arrangements are required
- Emergency work, to avoid the loss of life or damage to property, or to prevent environmental harm
- Food deliveries for the temporary accommodation camp.

Construction noise levels resulting from these activities will be below the relevant noise management levels, being:

- $L_{Aeq(15min)}$ noise levels more than 5 dB above Rating Background Level at any residence in accordance with the *Interim Construction Noise Guideline* (DECC, 2009)
- $L_{Aeq(15min)}$ noise levels more than the Noise Management Levels (NMLs) specified in Table 3 of the *Interim Construction Noise Guideline* (DECC, 2009) at other sensitive land uses.

The activities listed above will meet the relevant out-of-hours NMLs at the nearest residential receptor 650 m northwest from the project site. An Out of Hours Work Protocol (OOHWP) will not be required for these works, especially as high noise generating activities (i.e. use of heavy machinery) will be scheduled during recommended standard working hours only. This will not apply if APA sets up a negotiated agreement with the potentially impacted receptor at 650 m northwest from the project site, in accordance with condition B7a.

- During the site establishment works, noise levels are predicted to exceed the standard hours noise management level of 45 dBA by 1 dBA, the out of hours day noise management level by 6 dBA (applies to hours between 7 am and 8 am and 1 pm and 6 pm and Saturday and between 8 am and 6 pm on Sunday and public holidays) and the out of hours night management level (applies to hours between 7 am and 8 am Sunday and public holidays) by 11 dBA at the impacted receiver.
- During the mobilisation and building installation works and site commissioning the noise levels are predicted to exceed the out of hours night management level by 2 dBA at the impacted receiver.
- During site decommissioning and rehabilitation works, noise levels are predicted to exceed the out of hours day noise management level by 2 dBA and the out of hours night noise management level by 7 dBA at the impacted receiver.

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These predictions are conservative and exceedances of <2 dB are unlikely to be discernible (Section 4, *Noise Policy for Industry* (EPA, 2017)) at the sensitive receptor. Mitigation measures will be implemented to minimise noise emissions during decommissioning and rehabilitation and site preparation, and this will include not undertaking high noise generating activities outside standard construction hours.

7.7 Visual amenity

Table 18: Visual amenity management sub-plan

Area	Details
Values	- Existing biodiversity and land quality - Biological integrity of natural ecosystems and ecological processes - Sensitive receptors
Activities that may impact on values	- Site establishment and camp mobilisation - General construction works - General project transport activities and deliveries
Potential impacts	Impact to amenity due to a change to existing viewshed
Performance objectives / targets	- Minimise light spill from the site - Compliance with relevant legislation and standard
Standards	- Australian Standard AS4282 (INT) 2019 – Control of Obtrusive Effects of Outdoor Lighting - APA HSE EP 13.03.01 Gas, Dust & Light Emissions Management
Monitoring requirements	Daily visual check for dust
Contingency and corrective actions	Follow contingency plan as outlined in Section 8
Records	- Site inspection reports - General housekeeping inspection reports - Compliance records

Control Measures	Responsibility
Contractor to ensure that all external lighting associated with the development complies with relevant Australian Standards including the latest version of Australian Standard AS4282 (INT) 2019 – Control of Obtrusive Effects of Outdoor Lighting.	☐ APA ☒ Contractor
Contractor to position lighting to focus on temporary accommodation camp and not surrounding area during construction.	☐ APA ☒ Contractor

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7.8 Traffic

Access to the site is provided via an unsealed road that connects to Tilpa-Louth Road (SR2). Tilpa-Louth Road is an unsealed road that connects the towns of Tilpa and Louth and runs between Tilpa Tonga and Toorale roads. Construction traffic volumes to the project site will comprise:

- 10 light vehicle and 40 heavy vehicle movements per day
- Peak hourly movements of five light vehicle and five heavy vehicle movements.

7.8.1 Traffic management

Table 19 provides measures to manage vehicles, pedestrians, and any traffic impacts to the surrounding road network.

Table 19: Traffic management

Area	Details
Values	• Minimise traffic and pedestrian disruption of the transport route/s • Maintain all roads and utility related infrastructure in a safe and serviceable condition
Activities that may impact on values	• Increased traffic due to project vehicles • Transporting of oversized or overweight loads
Potential impacts	• Restricted access and/or delays for public road users • Large items, excess dust or debris falling onto the roadway along haulage routes
Performance objectives / targets	• Implement the construction traffic management requirements as required by: • condition B5 of the SSI-15548591 approval • condition C1(e) of the SSI-15548591 approval • Maintain roads as per relevant approval conditions • No public complaints
Standards	• Australian Standards • Austroads Guide to Temporary Traffic Management • TfNSW Traffic Control at Work Sites Manual v6.1 (2022) • Road Occupancy Approvals
Monitoring requirements	• Monitoring activities as per Section 8 of Traffic control at work sites (TCAWS) v6.1 (2022)

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Area	Details
Contingency and corrective actions	- In the event of public complaint, further enquiry will be conducted to confirm the issue and options for management - In the event of damage to roads, rectify to standard specification and notify DPHI - In the event of traffic incident, stop work and notify authorities - Follow contingency plan as outlined in Section 8
Records	- Daily heavy vehicle traffic movements to and from the project site - Site induction and training records - Inspection, maintenance and test documentation, including environmental inspections and monitoring results (where applicable) - Register of environmentally sensitive sites - Environmental incident reports - Safety data sheets (SDS) - Complaints and response management - HSE monthly reports - Non-conformance and corrective action registers / reports - Waste management and recyclable content data (including waste disposal documentation) - Records relating to biosecurity / pest and weed management - Toolbox talk agendas and attendance - Safe Work Method Statement

Control Measures	Responsibility
Schedule deliveries of equipment and materials to site during approved works hours.	☐ APA ☒ Contractor
Site personnel onsite are to ensure adequate space is provided for parking and queuing of vehicles at least 10-15 minutes prior to the Estimated Time of Arrival (ETA) of scheduled delivery trucks. ETA to be confirmed by delivery drivers upon departure to site.	☐ APA ☒ Contractor
Cover and/or secure all loads of loose materials to prevent any large items, excess dust or debris depositing onto the roadways along haulage routes to site.	☐ APA ☒ Contractor
Discuss traffic requirements regularly as a part of toolbox talks/toolbox meetings including any changed conditions due to fog, dust, wet weather or flooding as well as associated hazard control measures, changes to the CTMP, scheduled activities and HSE issues.	☐ APA ☒ Contractor
Direct Truck drivers to follow the predetermined haulage routes and adhere to the Driver's Code of Conduct (see Appendix 4).	☐ APA ☒ Contractor
Induct all personnel in traffic management considerations of the: - Approved site access routes from the Tilpa-Louth Road; - Environmental and occupational health and safety responsibilities;	☐ APA ☒ Contractor

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Control Measures	Responsibility
- Emergency procedures; - Potential carpooling opportunities; and - Vehicle height restriction under the power lines.	
All traffic control workers will hold TfNSW accreditation in accordance with TfNSW Traffic Control at Worksites Manual.	☐ APA ☒ Contractor
Discuss traffic requirements regularly as a part of toolbox talks/toolbox meetings including any changed conditions due to fog, dust, wet weather or flooding as well as associated hazard control measures, changes to control measures, scheduled activities and HSE issues.	☐ APA ☒ Contractor
Direct truck drivers to follow the predetermined haulage routes from Tilpa-Louth Road and adhere to the Driver's Code of Conduct (see Appendix 4).	☐ APA ☒ Contractor
All traffic control workers will hold TfNSW accreditation in accordance with TfNSW Traffic Control at Worksites Manual.	☐ APA ☒ Contractor
Provide a separate designated parking area for heavy vehicles, mobile equipment and for site personnel vehicles within the project site if applicable.	☐ APA ☒ Contractor
Protection will be provided to the public through the provision of advanced warning of roadworks, speed changes, safety barriers with adequate offsets and deflection allowance, where necessary.	☐ APA ☒ Contractor
Opportunity for carpooling and/or the provision of coach/shuttle services for site personnel will be explored, to minimise light vehicle movements.	☒ APA ☒ Contractor
Notify emergency services of construction traffic incidents on the public road network as required.	☐ APA ☒ Contractor
Advise emergency services of any restrictions to vehicular access for both public and private areas where traffic conditions are changed.	☐ APA ☒ Contractor
Do not obstruct public roads and access points with any materials, vehicles, refuse skips, etc.	☐ APA ☒ Contractor
Monitor the roads leading to and from the site and take all necessary steps to rectify any road deposits caused by site vehicles to maintain the safety of all road users.	☐ APA ☒ Contractor
Use only vehicles suited to the local road conditions. Additionally, conduct pre-mobilisation inspection checks on all vehicles to confirm suitability to the expected conditions.	☐ APA ☒ Contractor
Entry and exit to the site in a forward direction only (no reverse-in movements to the site would be permitted).	☐ APA ☒ Contractor
Monitor and make sure that all call-up signage is erected and is clearly visible to vehicles as well as all relevant signage for current conditions is present.	☐ APA ☒ Contractor
Only authorised vehicles to enter the project site.	☐ APA ☒ Contractor
If applicable, inform staff of school bus, waste collection vehicles and other scheduled times such that impact on the public network and other road users is minimised.	☐ APA ☒ Contractor
Comply with road traffic rules, particularly for any local traffic rules present.	☒ APA ☒ Contractor

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7.8.2 Driver's code of conduct

The Driver's Code of Conduct is provided in Appendix 4.

7.9 Fuels, oils and chemicals

Table 20: Fuels, oils and chemicals management sub-plan

Area	Details
Values	- Existing biodiversity and land quality - Existing integrity of soils - Biological integrity of natural ecosystems and ecological processes
Activities that may impact on values	- Storage and use of fuels and chemicals during construction - Proximity and project interaction with Natural Gas (methane) pipeline
Potential impacts	- Spills of fuels, oils or chemicals are a hazard that can lead to contamination of soil, water and/or the receiving environment - Release of flammable chemicals or gas that result in a fire
Performance objectives / targets	- Prevent the release of fuels, oils or chemicals to the environment - Prevent the release of natural gas during construction and commissioning
Standards	- Australian Standard AS 1940:2017 – The storage and handling of flammable and combustible liquids - Australian Standard AS 2885 Pipelines-Gas and liquid petroleum - APA HSE PRO 005 Chemical management - APA HSE EP 13.04.01 Chemical spill management - APA HSE EP 13.06.01 Soil and land management
Monitoring requirements	- SDS register will be implemented and regularly checked / updated when new chemicals are added to the project - Monitoring bunded area for overtopping following heavy rain. Be aware of likely rain events - Visual assessment of stains associated with spills and leaks - Spill kits checked weekly
Contingency and corrective actions	- Spill emergency of stains associated with spills and leaks - Follow contingency plan as outlined in Section 8
Records	- Chemical area inspections, audits and incident reports on a weekly basis - Spills / leaks to be reported as soon as practicable - MWP Safety Management System

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Control Measures	Responsibility
Dangerous goods, as defined by the Australian Dangerous Goods Code, and flammable and combustible liquids will be stored and handled in accordance with all relevant Australian Standards within bunded areas to prevent contamination of stormwater runoff and impact on downstream water quality.	☐ APA ☒ Contractor
Liquids stored on site that have the potential to cause environmental harm will be stored in or serviced by an effective containment system and managed to prevent the release of liquids to waters or land.	☐ APA ☒ Contractor
Site areas containing potential contaminants (such as fuel, oil, grease and chemicals) will be covered and/or bunded in accordance with Australian Standard AS1940:2017 The storage and handling of flammable and combustible liquids to prevent contamination of stormwater runoff, with offsite disposal of captured water/contaminants.	☐ APA ☒ Contractor
Routine visual monitoring and recording of chemical and fuel storage facilities will be undertaken.	☐ APA ☒ Contractor
To reduce the risk of spills occurring, the volume of liquid material (fuel, oil, lubricant) required on-site for construction activities will be limited to only that which is required. All liquid material will be stored within containment facilities (e.g. bunded areas, leak proof trays).	☐ APA ☒ Contractor
Where flammable or combustible chemicals are required to be stored on-site, appropriate fire-fighting equipment will be available. Incompatible chemicals will not be stored together.	☐ APA ☒ Contractor
Any refuelling trucks that are required to travel to site will carry a spill kit capable of containing any spills.	☐ APA ☒ Contractor
Contractors will provide appropriate spill response and recovery equipment suitable to the substances being utilised for the scope of work.	☐ APA ☒ Contractor
Persons handling chemicals will be provided with, use and be trained in appropriate personal protective equipment, chemical handling and spill response and recovery procedures.	☐ APA ☒ Contractor
Spill kits will be re-stocked following use.	☐ APA ☒ Contractor
Material contaminated because of a spill (e.g. soil or solid absorbent) will be removed (i.e. excavated or swept up) and placed in an appropriate container to prevent further contamination. An accredited chemical waste contractor will be engaged to dispose of the material and to provide copies of Waste Transport Certificates and Certificates of Disposal for each consignment. Records will be kept of all certificates.	☐ APA ☒ Contractor

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7.10 Bushfire risk and emergency

A Bush Fire Emergency Management and Evacuation Plan will be prepared as required by condition B4B of SSI-15548591 approval and implemented prior to the occupation of the temporary accommodation camp.

Table 21 provides the bushfire risks and emergency control measures

Table 21: Bushfire risk and emergency management

Area	Details
Values	• Receiving environment • Construction workforce • Maintenance workforce
Activities that may impact on values	• General construction activities • Use of plant and equipment • Natural gas • Diesel • Natural events
Potential impacts	• Potential to cause harm to the environment, community and/or workforce resulting from an emergency
Performance objectives / targets	• Prevent, minimise and manage any emergency responses during construction activities to ensure no impact to the environment and human health
Standards	• APA Emergency Response Plan • APA Bushfire Management Plan • APA Health, Safety and Environment Plan • APA HSE GP 11.01 Emergency Management
Monitoring requirements	• Monitoring in accordance with the APA Emergency Response Plan
Contingency and corrective actions	• Follow contingency plan as outlined in Section 8
Records	• Maintenance records • Daily pre-start equipment check records • Site inspection reports • General housekeeping inspection reports • Compliance records

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Control Measures	Responsibility
The project Emergency Response Plan must be implemented during construction.	☐ APA ☒ Contractor
Project construction is to comply with APA's existing Bushfire Management Plan.	☐ APA ☒ Contractor
Open fires, including open barbeques, billy fires, and brush burning, will not be permitted on site.	☐ APA ☒ Contractor
All hot work operations will have access to a validated portable fire extinguisher.	☐ APA ☒ Contractor
The project will implement the APA HSE Management System.	☒ APA ☒ Contractor
Provide appropriate access to the project site for fire-fighting vehicles and turning areas at both the eastern and western ends of the firebreak access track as outlined in Appendix 3 of <i>Planning for Bush Fire Protection</i> (NSW RFS, 2019).	☒ APA ☐ Contractor
Provide a minimum filled 10,000L firefighting water supply tank at the project site fitted with a 65 mm Storz outlet with ball valve. Access must be unobstructed and available at all times.	☒ APA ☐ Contractor
Water, electricity and gas supply infrastructure will be provided consistent with relevant requirements in Table 6.8c of <i>Planning for Bush Fire Protection</i> (NSW RFS, 2019).	☒ APA ☐ Contractor
Electrical services from the onsite diesel generators must be trenched to minimise the risk of ignition.	☒ APA ☐ Contractor
A site-specific <i>Bush Fire Emergency Management and Evacuation Plan</i> will be implemented.	☒ APA ☐ Contractor
A copy of the <i>Bush Fire Emergency Management and Evacuation Plan</i> will be provided to the Local Emergency Management Committee for its information prior to occupation of the temporary accommodation camp	☒ APA ☐ Contractor
An asset protection zone with a minimum width of 24 m will be constructed and maintained within camp footprint between surrounding vegetation and the external perimeter of the temporary accommodation camp buildings, in accordance with the requirements of Appendix 4 of <i>Planning for Bush Fire Protection</i> (NSW RFS, 2019).	☒ APA ☐ Contractor
Construction of camp buildings will comply with the following, as appropriate: - Section 3 and Section 5 of Australian Standard AS 3959:2018 Construction of buildings in bushfire-prone areas (Standards Australia, 2018) or NASH Standard Steel Framed Construction in Bushfire Areas 2021 (NASH, 2021) - Section 7.5 of <i>Planning for Bush Fire Protection</i> (NSW RFS, 2019).	☒ APA ☐ Contractor

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7.10.1 Emergency response procedure

All personnel will be inducted to the site emergency response plan either prior to arrival on site or upon arrival on site by the Construction Manager or nominated delegate. During this induction process, emergency muster area locations will be indicated, and records will be maintained.

An evacuation exercise will be scheduled to be carried out within the first two weeks after mobilisation to site. All stakeholders will be invited to participate in the exercise. A debrief session will be held after the exercise has been conducted to discuss deficiencies and improvements required. This will be carried out by the main contractor site Construction Manager or site HSE representative.

The Construction Contractor will contact the local emergency services prior to the commencement of construction works to confirm the site and camp locations, on site incident management ability, peak personnel number and key project contacts. Verification of this information sharing is to be made to APA construction supervisors.

7.10.2 Personnel and contact details

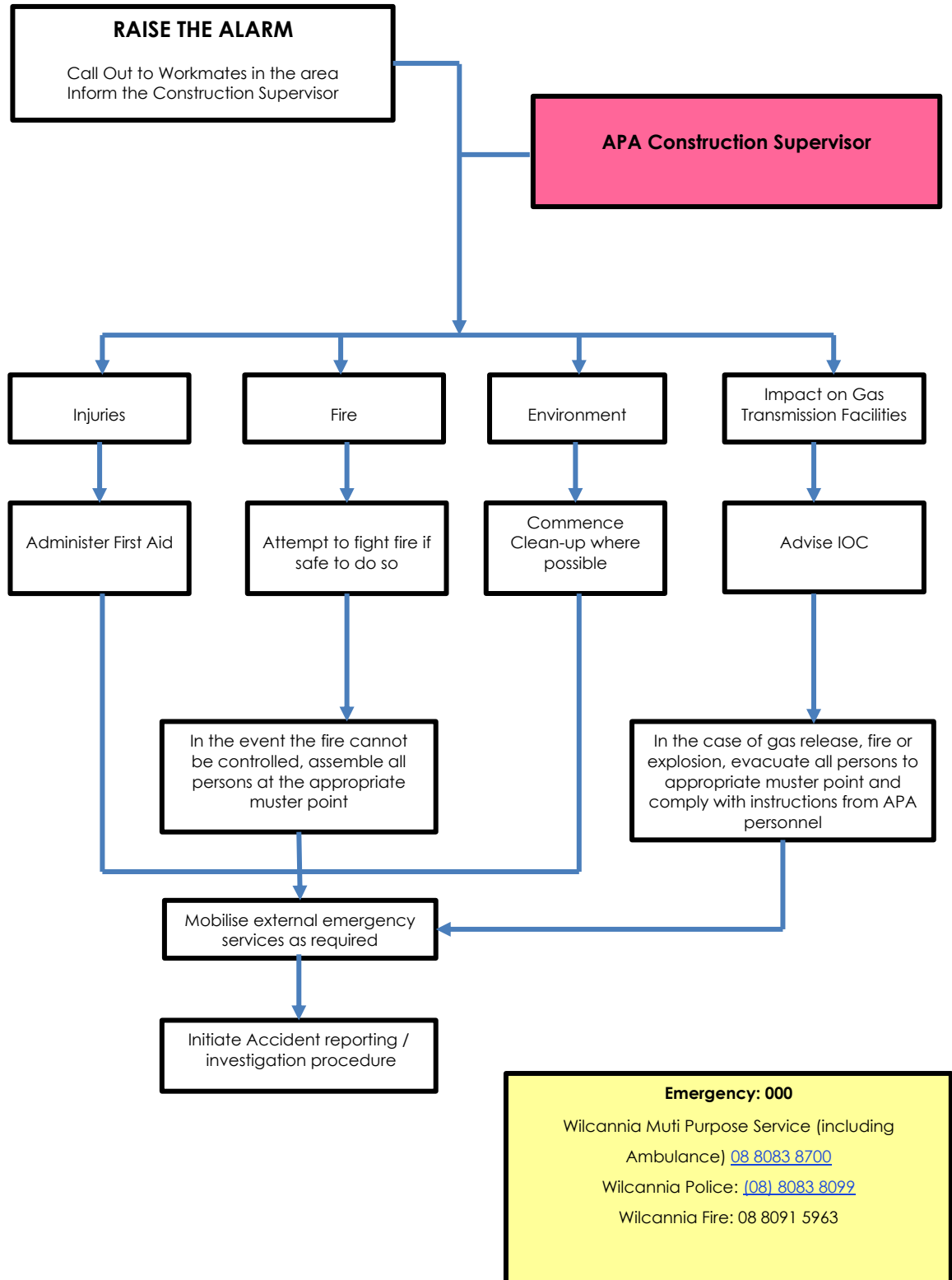
APA Contacts	Number
IOC	1800 017 000 1300 087 621
Construction Manager – Rowan Lund	0439 073 833
HSE Advisor – Darryl Clunes	0448 804 223
Project Manager – Mohsen Nourbakhsh	0401 179 664
Senior Project Engineer – Chris Jones	0423 684 715
APA Brisbane Office	(07) 3223 6100

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7.10.3 Action in an emergency

The Emergency Response Plan will be available on site and will be implemented throughout construction. The below procedure will be followed in case of an emergency:



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7.11 Waste management

Wastes generated within the project site will be classified and managed in accordance with the *Waste Classification Guidelines* (EPA, 2014) and the waste minimisation hierarchy principles contained in the *Waste Avoidance and Resource Recovery Act 2001* (NSW) as follows:

- avoidance, where possible
- treated, as required and reused on-site
- recycled, either within the process or off-site
- where other alternatives are not possible, wastes will be disposed of at appropriately licensed waste management facilities.

Table 22 provides waste management measures which will be implemented at the project site.

Table 22: Waste management control measures

Area	Details
Values	• Existing biodiversity and land quality • Existing integrity of soils • Biological integrity of natural ecosystems and ecological processes
Activities that may impact on values	• Main waste streams: sewerage, treated wastewater effluent, general solid waste, waste oils and grease • Minor waste streams: recyclable material from construction, putrescible wastes
Potential impacts	• Potential for pest infestations due to putrescible wastes, including food and cardboard • Land contamination from management of waste liquids including oils, lubricants, spilled substances and clean-up materials • Land contamination and increased nutrient loads within the environment from effluent disposal
Performance objectives / targets	• All waste collected and disposed of appropriately • Site conforms to the Waste Management Hierarchy principles • No land and water contamination as a result of waste management
Standards	• AS1940:2017: The storage and handling of flammable and combustible materials • Waste Classification Guidelines: Part 1 Classifying Waste (EPA 2014) • APGA Code of Environmental Practice • APA HSE EP 13.04.01 Chemical Spill Management • APA HSE EP 13.01.01 Environmental Approvals

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Area	Details
	• APA HSE EP13.02.02 Native Vegetation Management • APA HSE EP13.06.01 Soil and Land Management • APA HSE EP13.05.03 Wastewater Management • APA HSE EP13.05.02 General Waste Management • APA HSE EP13.04.02 Contaminated Land Management • APA HSE EP13.02.03 Pest, disease and Weed Management
Monitoring requirements	• Visual inspections will be conducted weekly to assess the integrity and effectiveness of waste management practices • Waste storage facilities will be inspected on a weekly basis to assess compliance with this CEMP
Contingency and corrective actions	• Follow contingency plan as outlined in Section 8.
Records	• Records will be maintained of the quantities of waste generated, the quantities transported and disposed of, and the methods of disposal (e.g. landfill or recycling) for all construction activities. Records will include waste manifests, waste tracking numbers (for listed wastes) and associated receipts • Incidences and remedial actions records • Waste tracking documents • Records of completed inductions, daily pre-start checks, routine plant and equipment maintenance and monitoring records

Control Measures	Responsibility
All personnel will be instructed in project waste management practices as a component of the environmental induction process.	☐ APA ☒ Contractor
Waste materials generated during construction (and operations) will be reused or recycled where practicable, or appropriately stored, collected and transported as soon as practicable by licenced contractors for disposal at appropriately licenced facilities.	☐ APA ☒ Contractor
Classification of waste into streams as per the NSW EPA Waste Classification Guidelines: • Special waste; • Liquid waste; • General solid waste (putrescible); • General solid waste (non-putrescible); • Hazardous waste; and • Restricted solid waste.	☐ APA ☒ Contractor

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Control Measures	Responsibility
Waste disposal strategies for each waste stream will be developed and documented prior to the commencement of each works scope including the identification of suitable disposal locations in consultation with local waste sub-contractors and/or local government where applicable.	☐ APA ☒ Contractor
Suitable waste containers will be provided for each waste stream in designated areas and clearly labelled.	☐ APA ☒ Contractor
Waste containers will be lidded to mitigate fauna access. No waste will be left outside in open areas accessible to feral animals.	☐ APA ☒ Contractor
Site areas containing potential contaminants (such as fuel, oil, grease and chemicals) will be covered and/or bunded in accordance with Australian Standard AS1940: The storage and handling of flammable and combustible liquids to prevent contamination of stormwater runoff, with offsite disposal at a licensed facility of captured water/contaminants and contaminated soils/material.	☐ APA ☒ Contractor

7.12 Sewage treatment and disposal

A section 68 approval will be sought from Council prior to construction and operation of the onsite wastewater treatment facility.

Table 23: Sewage treatment and disposal sub-plan

Area	Details
Values	- Existing biodiversity and land quality - Existing integrity of soils and waterways (ground or surface waters) - Biological integrity of natural ecosystems and ecological processes
Activities that may impact on values	- Disturbance for establishment of treated effluent disposal area - Ineffective sewage treatment - Sewage or chemical spill, or incorrect application / transport off site of treated effluent (via ground or surface water) - Ineffective management of treated effluent irrigation area
Potential impacts	- Damage to surrounding vegetation - Soil contamination - Contamination of waterways

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Area	Details
Performance objectives / targets	• Sewage treatment and disposal to be managed to avoid any direct or indirect impacts to land or water • To provide contingency plans to minimise the potential for adverse impacts to land or water as a result of an emergency situation • No excessive flows into the sewage collection system that may result in an uncontrolled release or inadequately treated effluent • No uncontrolled releases of sewage or treated effluent • No treated effluent runoff from the irrigation area • No significant impact on the surrounding natural environment
Standards	• Protection of the Environment Operations Act 1997 • ANZECC & ARMCANZ (2000) Water Quality Guidelines • Australian Guidelines for Water Recycling • Australian Standard 1547 On-site domestic wastewater management • Australian Standard 1546.3 On-site domestic wastewater treatment units – Secondary treatment systems
Monitoring requirements	• Continuous online monitoring and automatic control of equipment and instruments, including alerts and alarms where necessary for intervention, and shut down for critical failures of systems or performance • Daily visual inspection of the irrigation area. Visually identified issues or concerns will be immediately reported to the Camp Manager for action / rectification • Daily to weekly visual inspection of the condition of all sewage collection, treatment and disposal infrastructure over the site. Visual deterioration or damage will be immediately reported to the Camp Manager for action / rectification • Weekly inspection of the irrigation area, noting any signs of erosion or degradation of the vegetation • Quarterly detailed inspection, calibration, adjustment, servicing and maintenance from suitably qualified, competent, approved and authorised external service provider / contractor. • Sampling and testing of treated effluent to confirm treated effluent quality - upon commissioning to demonstrate compliance and then quarterly

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Area	Details
Contingency and corrective actions	• If ponding or runoff of treated effluent is occurring from part of the irrigation area, irrigation to that part of the area will cease immediately and diverted to a new area • The Camp Manager or delegate will investigate and document events of non-compliance with the above performance indicators • Where unsuitable (out of specification) treated effluent quality is detected, treated effluent will not be irrigated until the reason for the issue is rectified • Non-conformances will be documented, investigated and corrective actions implemented • Follow up review will occur to ensure the effectiveness of corrective actions
Records	The following records will be maintained: • Any environmental incidents or accidents that have occurred • Records of complaints in relation to the operation of the plant • Recorded data from online monitoring of equipment and instruments including alerts and alarms (if applicable) • Records of visual inspections of the irrigation area • Records of visual inspections of the condition of sewage collection, treatment and disposal infrastructure over the site • Records of detailed inspections of the irrigation area • Records of detailed inspections, and any calibration / adjustment / servicing (if required) of all sewage collection, treatment and disposal infrastructure • Reports from quarterly detailed inspections, calibration, adjustment, servicing and maintenance from suitably qualified, competent, approved and authorised external service provider / contractor • The results of treated effluent quality monitoring.

Control Measures	Responsibility
System Design	
All sewage capture, storage, treatment and disposal infrastructure will be suitably designed, constructed and operated as described in the Soil and Water MP.	☐ APA ☒ Contractor
The treatment plant will include wet weather capacity of at least to 2 days.	☐ APA ☒ Contractor
The treatment plant will include an alarm system to alert operators and service personnel in the event of system fault including pump failure or tank high level.	☐ APA ☒ Contractor
Vegetation disturbance will be minimised for the establishment of the irrigation area – to assist in maintaining soil stability.	☐ APA ☒ Contractor

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Control Measures	Responsibility
The irrigation area will be fenced and signage installed to prevent inadvertent or unauthorised access.	☐ APA ☒ Contractor
Pipelines and fittings associated with the sewage treatment and disposal system will be clearly identified.	☒ APA ☒ Contractor
System Operations	
Plant and equipment used for on-site sewage treatment and disposal will be installed, maintained and operated by suitably trained, competent and experienced personnel.	☐ APA ☒ Contractor
Written procedures will be established for the operation and monitoring of the treatment system and disposal area	☐ APA ☒ Contractor
Discharged treated effluent will meet the quality standards stated in the approval.	☐ APA ☒ Contractor
Treated effluent will be directed to wet weather storage where conditions are unsuitable for irrigation.	☐ APA ☒ Contractor
All staff will be made aware of materials that are not permitted to enter the treatment system. This may include excessive quantities of cleaning products including detergents and disinfectants; fats, oils and greases, motor or equipment oils or lubricants, pesticides or herbicides.	☐ APA ☒ Contractor
Septic waste / waste activated sludge / biosolids / screenings will be removed off-site as required and disposed of at appropriately licensed premises.	☐ APA ☒ Contractor
There is to be no ponding or runoff from the irrigation area.	☐ APA ☒ Contractor
Vegetation control (trimming) will be undertaken within the irrigation area to optimise water and nutrient uptake, maintain visibility and access to the piping and irrigation network.	☐ APA ☒ Contractor
Sewage Treatment and Disposal Emergency Management	
The following response procedure will be implemented if a spill (sewage or chemical spill; incorrect application / transport off site of treated effluent) occurs: • The operator will assess the size and origin of the spill • Action will be taken to safely stop any further release. This may include isolation of pumps or valves • Action will be taken to contain the spill and prevent release to the environment. This may include use of sandbags, or earth bunding to contain the release • The Camp Manager will be notified of the spill and of any additional resources required to contain the spill • An assessment will be made of the size of the spill and requirements for notification to NSW DCCEEW • Where possible, the contained spill will be pumped back into the plant.	☐ APA ☒ Contractor

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7.13 Restoration and rehabilitation

Table 24 provides management controls for rehabilitation at site.

Table 24: Rehabilitation management controls

Area	Details
Values	- Existing biodiversity and land quality - Existing integrity of soils - Biological integrity of natural ecosystems and ecological processes
Activities that may impact on values	- Clean up and waste disposal - Weed spraying
Potential impacts	- Damage to surrounding vegetation - Soil contamination from inappropriate waste disposal during demobilisation - Spread of weeds - Creation of long-term visual impact - Residual wastes - Insufficient rehabilitation - Removal of excess soil - Removal of waste - Inappropriate use / application of weed spray
Performance objectives / targets	- Disturbed areas are stable from erosion - Weeds are not present - Final landform is safe, hydraulically stable, non-polluting and integrated with the surrounding natural landforms with minimal visual impacts from surrounding land.
Standards	- APA Code of Environmental Practice - NSW Biosecurity Act 2015
Monitoring requirements	- Regular inspections will be undertaken during construction and operations to monitor the restored areas stability and rehabilitation success. - Erosion and sediment control measures (as per the SWMP) will be installed as necessary. Erosion controls will be maintained until the area is stabilised to minimise erosion risk from the disturbed area. Post-construction erosion control management will be maintained as part of the operations phase. - Rehabilitation areas will be inspected to confirm that works are appropriate, prior to handover to APA. - Rehabilitated areas will be surveyed and mapped and appropriate records (including rehabilitation methodology) provided to APA for future monitoring purposes.

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Area	Details
Contingency and corrective actions	- Additional weed treatment where weeds persist - Management of erosion and or subsidence to stabilise landform where land is actively degrading - Contractor to remedy as soon as practicable - Follow Contingency Plan as outlined in Section 8
Records	- Records to be kept of induction participations, regular inspections of site, erosion and sedimentation, reinstatement and an audit 12 months after final rehabilitation - Records of acceptance by third parties of restoration works

Control Measures	Responsibility
Rehabilitation of disturbed areas will commence progressively as soon as practicable during and after construction, and will be carried out in accordance with the Rehabilitation Strategy, SWMP and Landcom (2004).	☐ APA ☒ Contractor
Disturbance area will be minimised at any time.	☐ APA ☒ Contractor
Employ interim rehabilitation strategies to stabilise disturbed areas, provide temporary vegetation, minimise dust generation, soil erosion and weed incursion on parts of the sites that cannot yet be permanently rehabilitated, including following each use of the temporary accommodation camp area.	☐ APA ☒ Contractor
Compaction relief will be undertaken on all areas compacted during construction, with particular attention to areas subject to regular watering and high traffic volume.	☐ APA ☒ Contractor
The site will be re-profiled to original contours or to new, stable contours where not reasonably practical to re-profile to original contour.	☐ APA ☒ Contractor
Topsoil from stockpiles will be respread following compaction relief.	☐ APA ☒ Contractor
Any wheel ruts will be graded and erosion control measures will be installed or re-established.	☐ APA ☒ Contractor
All temporary above ground infrastructure not required for operations will be removed.	☐ APA ☒ Contractor
The final landform will be designed to: - be safe, hydraulically stable and non-polluting - integrate with surrounding natural landforms as far as is reasonable and feasible, minimising visual impacts when viewed from surrounding land	☐ APA ☒ Contractor
Landscaping will comply with Appendix 4 of <i>Planning for Bush Fire Protection</i> (NSW RFS, 2019) and will use native woodland and understorey species	☐ APA ☒ Contractor

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8. Contingency plans

8.1 Contractor responsibility

The Contractor will develop contingency plan(s) for potential environmental incidents associated with the Contractors Scope of Work and incorporate measures within the CEMP and/or specific contingency plans.

As a minimum the contingency plan(s) will address:

- Identification of potential incidents
- Clear definition/protocols of how/when procedures are to be initiated
- Identification and provision of required materials and equipment to be maintained on site to appropriately respond to the incident
- Identification of additional materials/equipment/services located off site, to assist in response to an incident – including what, where, contact details for access
- Immediate action to be taken upon incident occurring – to prevent / minimise harm
- Reporting protocols and responsibilities – internally and to APA. As a minimum:
 - The APA Project Manager will be notified immediately or as soon as possible upon identification of an incident
 - Practices and procedures to be employed to restore the environment and/or mitigate any environmental harm caused
 - Procedures to investigate causes and impacts including impact monitoring, as required
 - Training of staff in procedures and use of response materials / equipment.

Corrective actions for minor incidents (not requiring external reporting) will be addressed within the relevant section of this CEMP.

All regulatory compliance reporting will be in accordance with the DPHI's Compliance Reporting Guideline and include the below information as a minimum:

- Introduction
- Previous report actions (if relevant)
- Identify the development and application number
- Compliance status summary
- Incidents
- Complaints
- Relevant appendices, which may include:
 - Compliance table
 - Action status table

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- Compliance report declaration form
- Figures and photos.

Reports will be submitted by APA through the Major Projects Portal.

8.2 APA responsibility

8.2.1 Incident notification, reporting and response

The Planning Secretary (DPHI) must be notified in writing via the Major Projects website immediately after APA becomes aware of an incident, as defined in Section 9.2.

The notification must identify the development (including the development application number and the name of the development) and set out the location and nature of the incident.

8.2.2 Non-compliance notification

The Planning Secretary (DPHI) must be notified in writing via the Major Projects website within seven days after APA becomes aware of any non-compliance.

A non-compliance notification must identify the development and application number, set out the condition of approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

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9. Management systems

9.1 Induction and training

All personnel (APA employees and Contractors) will complete inductions as outlined in the relevant H&S Plan in accordance with contractual requirements. This induction will include specific elements to address:

- Environmental responsibilities and duties
- Noise and dust management
- Flora and fauna management measures
- Aboriginal Cultural Heritage duty of care
- Waste management
- Weed management
- Landholder relations
- Rehabilitation.

Additionally, regular toolbox meetings will be held which include a discussion on environmental aspects, recent incidents and observations and possible improvements in procedures.

Toolboxes will occur at the beginning of each new job phase to reinforce the training and promote greater awareness of specific issues.

The site-based environmental advisors will regularly interact with all personnel across work areas sharing knowledge and providing feedback on environmental management requirements.

9.1.1 APA responsibility

APA will:

- Be responsible for ensuring all its employees are suitably qualified for the roles they fill within the project
- Make available to the Contractor any site-specific induction requirements from APA and the Contractor for incorporation into the site induction package
- Ensure that its personnel comply with the Contractors site induction requirements.

9.1.2 Contractor responsibility

The Contractor will:

- Be responsible for the preparation and presentation of the site induction package. The induction package must be presented to APA for acceptance prior to implementation
- Ensure that all personnel have the appropriate training and/or experience to undertake their role within the project

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- Ensure that suitably qualified/trained personnel are provided for roles that require formal qualifications and/or level of experience (e.g. fauna handlers, persons preparing erosion and sediment control plans, inspection of vehicle cleanliness, etc.).

9.1.3 Job hazard analysis

All Job Hazard Analyses (JHA), or similar, developed for the project will identify, include and address all environmental risks likely associated with the task.

9.2 Incident management

Incidents will be reported in accordance with the APA Incident Reporting Procedure (APA HSE GP 07.01) via the Safeguard Plus platform.

9.2.1 APA responsibility

APA will carry out the required regulatory reporting, in accordance with HSE GP 07.01, and with the appropriate government agency. APA will review findings of all incident reports and verify Contractor has implemented viable corrective actions.

Requirements for external reporting of environmental incidents in NSW is outlined in Section 8.1.

9.2.2 Contractor responsibility

The Contractor will implement the APA Incident Reporting Procedure or an equivalent system for reporting of incidents.

All incidents which cause, or hazards which have the potential to cause environmental harm, including near misses will be reported, regardless of size of impacts.

An incident at APA is an unplanned event that causes harm to people or the environment. As a result of an incident, people could be injured or made ill, while the environment could be damaged.

An environmental incident at APA is when environmental harm has occurred. Environmental harm can occur because of a breach of one, or a combination of, three environmental parameters:

- Environmental law and/or regulation (including licence and/or approval conditions)
- Environmental harm to a technical environmental area (e.g. physical biological harm, loss of public amenity)
- Failure of an environmental risk management method.

A near miss is an unplanned event that doesn't actually cause harm to people or the environment, but had circumstances been different the event could have resulted in harm.

The Contractor will implement reporting procedures to record any environmental non-conformances or incidents. The procedures are to be agreed with APA prior to commencement of works and in accordance with the contract requirements.

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The Contractor Construction Manager will be responsible for reporting to the APA Construction Manager. The Contractor HSE Support will notify the site APA HSE Support.

The Contractor Construction Manager will provide verbal notification of any incident to the Project Manager as soon as practicable, but within 48 hours of identification of the incident. Initial notification will be formally provided within 12 hours of identification of the incident using the incident report form. The incident report form is to be provided to the APA Project Manager and a copy provided to APA Construction Manager and the site APA HSE Support.

The Contractor will investigate and follow up all incidents and, where relevant, nominate and implement corrective actions.

9.3 Complaints management

9.3.1 APA responsibility

Any reporting required to the regulators will be carried out by APA. APA is required to respond to complaints received from the administering authority within 14 days of completion of the investigation or receipt of the monitoring results.

The APA Project Manager or Construction Manager will review with the Contractor Construction Manager each complaint upon receipt and agree how the complaint will be addressed.

9.3.2 Contractor responsibility

The Contractor HSE Support will maintain a complaints management system of all complaints received.

All complaints received, that do not involve potential or actual environmental incident, must be advised to the APA Construction Manager and HSE Support within 24 hours.

Any complaints received from external stakeholders will be investigated.

The results of the investigation will be communicated back to the complainant within a reasonable timeframe (initial feedback needs to be given to the complaint within 2 days of receiving the complaint) with a record of the complaints and any actions taken recorded in the complaints database.

The Contractor will be responsible for providing APA with any required assistance in relation to a complaint received from the administering authority.

Any results of the investigation (including an analysis and interpretation of any monitoring results) and abatement measures implemented will be provided to the APA Construction Manager within 10 days of completion of the investigation or receipt of the monitoring results to enable APA to report to the administering authority within the required regulatory timeframes.

The complaints management system will document:

- Name of person receiving complaint
- Name of person making the complaint
- Date and time of complaint

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- Nature of the complaint
- Actions taken to rectify
- Actions to minimise risk of reoccurrence
- Name of person(s) responsible for undertaking the required actions.

A record of complaints and incidents causing environmental harm, and actions taken in response to the complaint or incident will be maintained and retained for five years.

If any monitoring conducted to investigate a complaint indicates that emissions exceed specified criteria, then the following will be undertaken:

- Investigate methods of addressing the exceedances
- Report on proposed control methods to DPHI and the complainant
- If requested, conduct follow up monitoring to confirm compliance.

The Contractor Construction Manager will review each complaint with the APA Project Manager and/or Construction Manager upon receipt and agree on how the complaint will be addressed. Corrective actions and other recommendations including, where applicable, modifications to practices and procedures will be made and closed out under the direction of the APA Project Manager and Construction Manager.

Where the complainant is not satisfied with the outcome of the investigation, the Contractor Construction Manager is responsible for escalating the matter to APA where it will be further escalated internally. Where the matter is still unable to be resolved, an independent mediator can be engaged where necessary.

9.4 Monitoring

As a minimum, the Contractor is required to undertake at least weekly monitoring of all construction activities. The monitoring pro-forma is to be site specific and address all monitoring requirements. In addition to this, specific on site monitoring is to occur in accordance with project approval requirements.

9.5 Inspections and audits

During construction there will be continuous review of the construction area. Individuals and work crews will be required to demonstrate that the pertinent requirements of the CEMP are being adhered to.

9.5.1 APA responsibility

APA will be responsible for all reporting to the regulators, particularly incident reporting.

APA's HSE support will maintain copies of all reports, reviews, and audits and will be responsible for making them available to the appropriate APA Managers.

Audit results will be used to review management practices, and if necessary, the CEMP will be updated to accommodate changes.

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9.5.2 Contractor responsibility

The Contractor will be required to prepare checklists for the elements of the CEMP. The Contractor Supervisors will record daily and weekly activities on the prepared checklists and submit to APA in accordance with the conditions of contract; at least weekly.

9.6 Records

Records will be retained and disposed of in accordance with APA's Information and Records Management Policy and regulatory requirements.

9.7 Project communication

APA will notify DPHI at least two weeks prior to the commencement of construction and commissioning required by condition A7 of the MWP approval. This notification will occur via DPE's Major Projects Portal.

APA has developed an internal Stakeholder Engagement Plan which is a live document used to track and record engagement throughout the project and will be updated on an as needed basis.

APA will update local and broader stakeholders regarding projects via media releases, which are typically covered in national and regional news outlets. APA anticipates that it will continue to engage local and broader stakeholders via media to provide project updates.

APA will also provide its contact details on a sign at the project construction site. Construction contractors will be provided the dedicated project 1800 phone number, email mail box or webpage details so that they can refer any community enquiries received onto the project team.

9.8 Review and Improvement

APA will continuously improve the CEMP by the ongoing assessment of environmental management performance against APA's environmental policies and objectives. APA's HSE Management System, 'Safeguard', provides a framework to define, control, monitor and improve environmental systems.

9.8.1 Update and amendments

APA will review and revise the CEMP and associated plans as necessary. Reviews will be triggered by the following events:

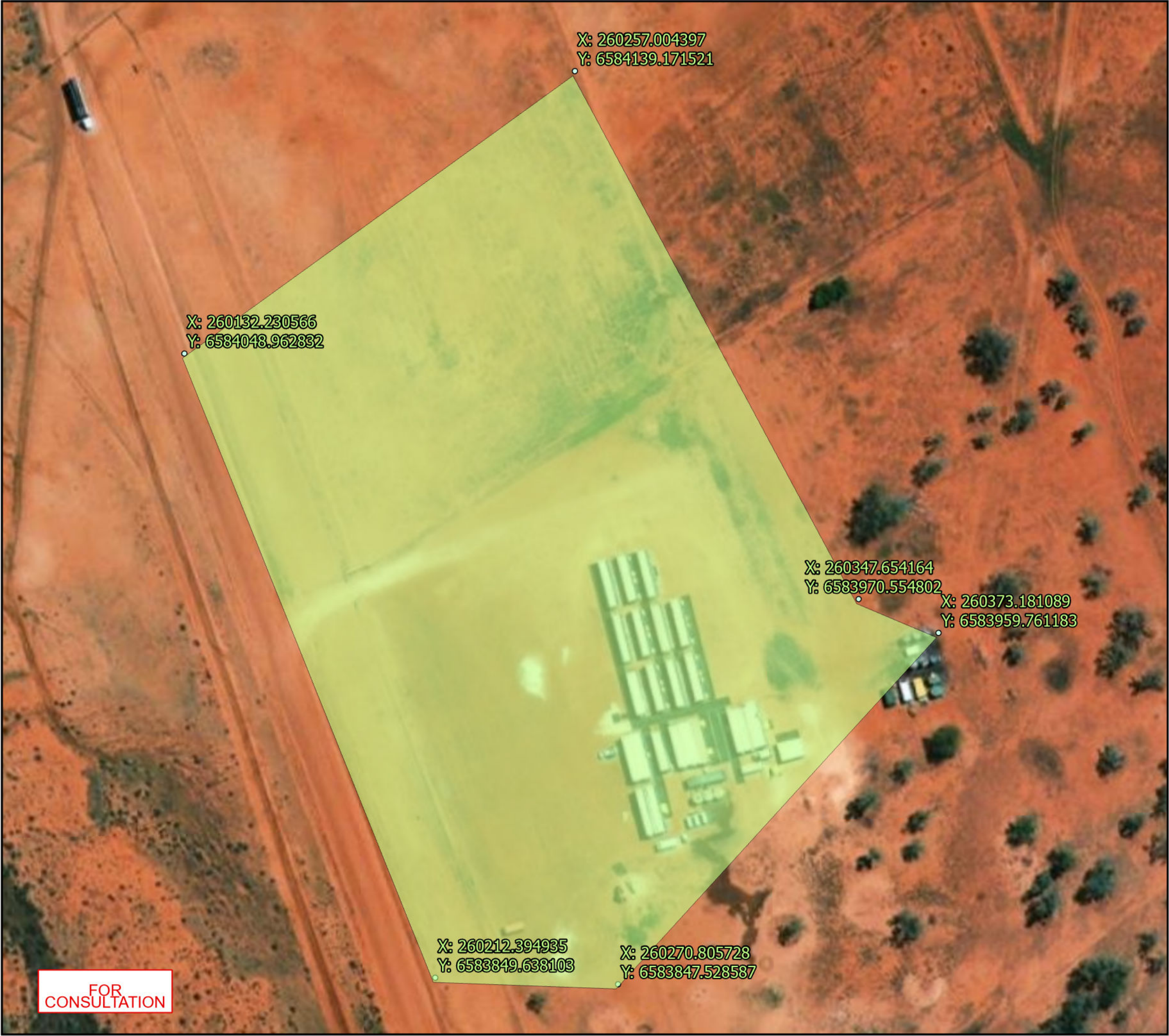
- The submission of an incident report under condition consent condition C4 "Incident Notification, Reporting and Response"
- Any modification to the conditions of this approval (unless the conditions require otherwise)
- Changes to scope of work and/or site activities
- Audit findings of ineffective practices that recommend improvements.

When a review results in a revision to any such document, then within four weeks of the review the revised document will be submitted to DPHI's Planning Secretary for approval.

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APPENDIX 1 - Camp 3 Project Site Area



APA Group
Web: www.apa.com.au
Email: GeospatialSolutions@apa.com.au

PROJECT: MWP Temporary Camps

TITLE: MWP Temporary Camps - Camp 3

SUBTITLE: Camp 3 Site Area

DATE: 9/11/2024

DATA SOURCE:
World Street Map: Esri, TomTom, Garmin, FAO, NOAA, USGS
World Boundaries and Places: Esri, © OpenStreetMap contributors, HERE, Garmin
World Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
© Geoscience Australia 2016 - Locations and Roads

LEGEND:

- Corner Coordinate
- Site / Disturbance Area

SERIAL NUMBER: 560-MAP-L-8779

DOCUMENT NUMBER:

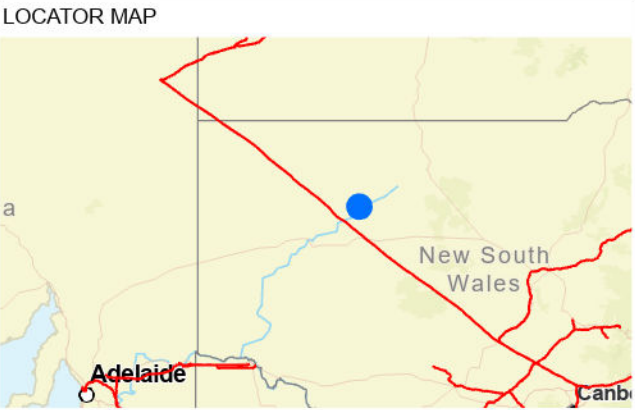
Revision	Description	Drawn	Checked/QC	Approved	Date
1.0	Issued for Use	PR	BC	BC	11/09/24
0.1	Draft	PR	BC	\	11/09/24

SCALE: 1:1,200 @ A3

0 10 20 40
Meters

GDA2020 MGA Zone 55

North arrow pointing up.



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APPENDIX 2 - Soil And Water Management Plan

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APPENDIX 3 - Aboriginal Cultural Heritage Management Plan

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APPENDIX 4 - DRIVER'S CODE OF CONDUCT

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1. Construction hours

Most of the construction activities for approximately six weeks will take place between 7:00 am and 6:00 pm, seven days per week.

2. Designated routes

Heavy delivery vehicles travelling to and from the project site must only use the routes from “*Combined Higher Mass Limits (HML) and Restricted Access Vehicle (RAV) routes*” map. Trucks will access the project site will be accessed from Tilpa-Louth Road. Trucks leaving the site will join the regional road network from Tilpa-Louth Road.

3. Speed limits

- All speed limits on the designated routes are to be observed.
- All vehicles are to abide by the onsite speed limit of 10 km/h.
- Drivers will use two-way radios in order to establish the position of heavy vehicles entering or leaving the project site on the access road to ensure the safety of all heavy vehicle drivers and reduce queuing along the access road or designated route.
- Drivers of heavy vehicles will comply with any instructions given by site staff in relation to speed, position, entry and exiting of the construction sites.
- Drivers of heavy vehicles should drive at a speed appropriate to the conditions and always observe speed restrictions relevant to the vehicle configuration.
- Vehicles may be fitted with speed limiters so that the site manager can monitor truck speed and ensure vehicles do not exceed the maximum permitted speed limit.

4. No convoying

- Heavy vehicles are to leave at least 200 m between the rear of each heavy vehicle and the front of each other heavy vehicle, whilst on the designated route.
- If on the designated route, a heavy vehicle is placed in a situation where the distance between heavy vehicles is less than 200 m, the heavy vehicle at the rear will slow down, or pull off the road at a safe place to allow the vehicle in front to proceed without convoying taking place.

5. Loads to be covered

- All loads are to be covered so that material/dust is not lost from the load.
- Drivers are to avoid any action that may cause pollution of the environment, over and above that created by works under normal circumstances.

6. The use of exhaust brakes

- While heavy vehicles are on designated routes, the use of exhaust brakes will be avoided wherever practicable.

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7. Heavy vehicles and the public

Drivers of heavy vehicles must be:

- Conscious of the safety of others on the designated route
- Obedient to road rules
- Courteous towards other road users and pedestrians
- Consider the level of noise being made by their vehicles and keep noise to a minimum
- Conscious of actions that may cause pollution and avoid such actions.

8. Rest stops

- Where it is reasonably practicable, sleep and breaks must be taken where there is access to amenities such as toilets, showers and facilities for meals.
- Rests must be taken in accordance with Table A.1.

Table A.1 Rest stops

In any period of...	A driver must not work for more than a total of...	And must have at least...
5 hrs 30 mins	5 hrs 15 mins	15 continuous mins rest
8 hrs	7 hrs 30 mins	30 mins rest, in blocks of 15 continuous mins
11 hrs	10 hrs	60 mins rest, in blocks of 15 continuous mins
24 hrs	12 hrs	7 continuous hrs stationary rest
7 days (168 hrs)	72 hrs	24 continuous hrs stationary rest
14 days (336 hrs)	144 hrs	4 nights rest (includes 2 consecutive nights rest)

Source: Heavy Vehicle National Law Regulation (HVNLR), Heavy Vehicle National Law (Queensland) - Queensland Legislation - Queensland Government

Notes: Stationary rest is rest time that the driver spends out of the heavy vehicle or in an approved sleeper berth of a stationary regulated heavy vehicle.

A night's rest is seven hours continuous rest taken between 10pm and 8am or 24 hours continuous stationary rest.

9. Emergency response

In the event of an emergency:

- Stop your vehicle immediately and secure it
- Ensure the safety of those around you and yourself
- Dial 000 and seek support from Police, Ambulance or Fire Brigade as required
- Contact the Site Manager and advise of the emergency
- Await further instructions from the Emergency Services, Construction Site Supervisor or your supervisor.

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If a heavy vehicle driver becomes aware of a hazard or a circumstance that the driver considers dangerous, the driver must immediately inform the Construction Site Supervisor and if necessary, must deal with the hazard.

Report all hazards and incidents to the Construction Site Supervisor.

10. Driver responsibilities and safety

The safety of heavy vehicle drivers and the public is a priority. As a result, drivers of heavy vehicles must be responsible for the following:

- Ensuring that they are fit, not suffering from fatigue, nor under the influence of drugs or alcohol and will cooperate in the undertaking of random drug and alcohol testing if required
- They are rested and alert prior to and during the time they are driving heavy vehicles
- Monitor their own performance and take regular breaks and rest times as required by road safety legislation and requirements
- Inspect their vehicle prior to start up and report any issues before proceeding with work
- use the designated routes when servicing the construction sites
- Inform the Construction Site Supervisor of any matter that may affect the ability of the driver to undertake the tasks of driving a heavy vehicle
- Stop driving the heavy vehicle and inform the Construction Site Supervisor should the driver become aware of any issue that might endanger himself/herself or a member of the public
- Ensure the load is appropriately covered
- Ensure the heavy vehicle is appropriate for the load to be carried in it
- Ensure that all safety equipment fitted to the vehicle works properly
- Do not operate the vehicle unless the two-way radio attached to the vehicle is working properly
- Listen carefully and abide by instructions on the two-way radio, particularly advice from the Construction Site Supervisor
- Use good road manners and operate the heavy vehicle safely and responsibly while considering the safety of himself/herself and the general public, in particular school children on the designated route
- Complete all work diaries and timesheets properly and accurately and supply all necessary and appropriate paperwork to the Construction Site Supervisor if required
- Ensure they are wearing the appropriate personal and protective equipment, including steel capped safety boots, high visibility clothing/vests, hard hats and hearing protection
- Understand and abide by all road rules, including speed limits, road signs, use of seatbelts, avoiding taking unnecessary risks, avoiding overhead obstructions, not driving in a convoy and always parking well off the road.

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11. Complaint resolution and discipline procedure

The following outlines the procedure for when a traffic related complaint is received.

The Construction Site Supervisor will deal with all complaints in a fair, timely and transparent manner and all complaints will be treated seriously. In the event that the allegation(s) is/are of an illegal nature, the Construction Site Supervisor reserves the right to refer the matter(s) to the relevant authority.

The Construction Site Supervisor will maintain confidentiality as far as possible and ensure that no one is disadvantaged for making, supporting or providing information about a complaint.

A details of complaint resolution and discipline procedure is provided in Environmental Management Strategy (EMS).

12. Drivers Acknowledgement

I hereby acknowledge receipt of this Drivers Code of Conduct and I understand I need to strictly follow the requirements. I understand that if I do not follow the requirements of the Drivers Code of Conduct, I may not be allowed to haul material from or to construction sites associated with this Project. I have been advised that I have access to a copy of the Drivers Code of Conduct held in the Office.

Table A.2 Employee acknowledgement

Name	Signature

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APPENDIX 5 - GOVERNMENT AGENCY CONSULTATION

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1. Biodiversity, Conservation and Science Group



Department of Climate Change, Energy, the Environment and Water

Our ref: DOC24/850081
Your ref: SSI-15548591-PA-43

Brian Connellan
Access and Approvals Lead
APA Group
brian.connellan@apa.com.au

Dear Brian

Moomba to Wilton Pipeline Modification 6 – Construction Environmental Management Plan

Thank you for your request via the NSW Planning Portal dated 24 September 2024 to the Biodiversity, Conservation and Science Group (BCS) of the NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) inviting comments on the Construction Environmental Management Plan (CEMP) for the Moomba to Wilton Pipeline Modification 6.

BCS has reviewed the matters relating to biodiversity and flooding, and has no specific comments to make on the CEMP at this stage. Please note that if subsequent information indicates that areas within BCS's responsibility require further investigation, BCS may provide future input.

If you require further information regarding this matter, please contact Prakriti Mukherjee, Conservation Planning Officer, via prakriti.mukherjee@environment.nsw.gov.au or (02) 6883 5343.

Yours sincerely

Candice Larkin
A/Senior Team Leader Planning North West
Biodiversity, Conservation and Science

17 October 2024

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Construction Environmental Management Plan

2. Central Darling Shire Council

From: Connellan, Brian <Brian.Connellan@apa.com.au>
Sent: Monday, September 23, 2024 7:36 PM
To: Glenda Dunn <dunng@centraldarling.nsw.gov.au>
Subject: APA MWP Temporary Accommodation Camps (Mod 6) Construction EMP - Council Consultation

Hi Glenda,

As per the below email, please find attached the proposed Construction EMP for the same project.

Thank you

Brian Connellan
Access and Approvals Lead
ID – Infrastructure Planning and Approvals
D +61 7 3223 3386
E brian.connellan@apa.com.au
apa.com.au



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From: Connellan, Brian
Sent: Thursday, September 19, 2024 3:11 PM
To: Glenda Dunn <dunng@centraldarling.nsw.gov.au>
Cc: Geoff Laan <laang@centraldarling.nsw.gov.au>
Subject: APA MWP Temporary Accommodation Camps (Mod 6) Soil and Water Management Plan - Council Consultation

Hi Glenda,

I hope you're well.

I note that Central Darling Shire Council is not on the Major Projects Portal for consultation of post-approval management plans. Are you able to please review the attached and provide any comments if relevant?

Please let me know if you have any queries.

Thank you

Brian Connellan
Access and Approvals Lead
ID – Infrastructure Planning and Approvals
D +61 7 3223 3386
E brian.connellan@apa.com.au
apa.com.au



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MANAGEMENT PLAN

Construction Environmental Management Plan

From: Glenda Dunn <dunn@centraldarling.nsw.gov.au>
Sent: Tuesday, September 24, 2024 10:20 AM
To: Connellan, Brian <Brian.Connellan@apa.com.au>
Cc: Reece Wilson <wilsonr@centraldarling.nsw.gov.au>; Geoff Laan <laang@centraldarling.nsw.gov.au>
Subject: [EXT]: Re: APA MWP Temporary Accommodation Camps (Mod 6) Construction EMP - Council Consultation

Good morning Brian

Please be advised that Council has reviewed the Construction EMP and Environmental Plan for the project and is satisfied with both documents.

thanks

Glenda Dunn

For

Geoff Laan
Building Surveyor

21 Reid Street | WILCANNIA | NSW | 2836

Postal Address | PO Box 165 | WILCANNIA | NSW | 2836

Contact | T (08) 8083 8900 | F (08) 8091 5994

 www.centraldarling.nsw.gov.au



MANAGEMENT PLAN

Construction Environmental Management Plan

3. Transport for NSW

Transport for NSW



22 October 2024

TfNSW reference: WST24/00052/006 | SF2024/037030

Your reference: SSI-15548591 | PAE-76147991

APA Group
Level 25/580
George St, Sydney

Attention: Brian Connellan

SSI-15548591 – Moomba to Wilton Pipeline - Modification 6 – Post Consent Consultation for the Construction Environmental Management Plan

Dear Brian,

Transport for NSW (TfNSW) is responding to the Construction Environmental Management Plan submitted for Mod 6 to SSI-15548591 through the major projects portal on 24 September 2024.

TfNSW has reviewed the Construction Environmental Management Plan (CEMP) in line with fulfilling condition C1 of SSI-15548591 Modification 6 determined 12 September 2024 and provides comments to be actioned within a revised CEMP (set out in Attachment 1) prior to approval by the Planning Secretary.

If you have any questions, please contact Glen Hanchard, Development Services Case Officer, on 1300 019 680 or email development.renewables@transport.nsw.gov.au.

Yours faithfully,

A handwritten signature in black ink, appearing to read "Alexandra Power".

Alexandra Power
Team Leader Development Services – Renewables
Transport Planning
Planning, Integration and Passenger

MANAGEMENT PLAN

Construction Environmental Management Plan

Attachment 1



SSI-15548591 – Moomba to Wilton Pipeline - Modification 6 – Post Consent Construction Environmental Management Plan

This attachment relates to TfNSW's response dated 22 October 2024 reference WST24/00052/006. Condition C3A, which was included as a condition of the modified determination for Modification 6 has not been addressed within the updated Construction Environment Management Plan in Table 1: Approval conditions relevant to this CEMP. Table 1 and the CEMP should be updated to address Condition C3A, inclusive of any measures or protocols to achieve compliance with this condition.