Appendix B10
Site Establishment Management Plan

M12 Motorway West SSI-9364

Project number:	N81151
Document number:	M12WCO-CPBGGJV-ML1-SP-PLN-000001
Revision date:	30/05/2023
Revision:	02

Details of Revision Amendments

Document Control

The Project Director is responsible for ensuring that this plan is reviewed and approved. The Project Director is responsible for updating this plan to reflect changes to construction, legal and other requirements, as required.

Amendments

Any revisions or amendments must be approved by the Project Director and/or client before being distributed / implemented.

Revision Details

Rev	Date	Reviewed By	Details
A	18/02/2022	A. Zvirzdinas	First Draft
B	06/05/2022	A. Zvirzdinas	Second Draft to address Arcadis/TfNSW review comments
C	27/05/2022	A. Zvirzdinas	Third Draft following full TfNSW/Arcadis review and comment
D	17/06/2022	A. Zvirzdinas	Fourth Draft following TfNSW/Arcadis/ER review and comment on Rev C.
D1	21/06/2022	A. Zvirzdinas	Minor amendment to Table 1-1, 1-2 and Appendix F.
00	28/07/2022	A. Zvirzdinas	Final and approved version
01	10/02/2023	P. Matevski	Six-monthly review and addition AF17 to facilitate crushing activities at chainage 12800.00
E	25/05/2023	A.Brajlih	Addition of additional Crushing location CAF 001 – CAF 007
02	30/05/2023	A.Brajlih	Second Controlled Issue

Document Review

Position	Name	Signature	Date
Project Director	[redacted]	[redacted]	28/07/2022
Project Director	[redacted]		30/05/2023

Distribution of controlled copies

Copy no.	Issued to	Version

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Acronyms and Abbreviations

Abbreviations	Expanded text
Approved Extended Hours	1.00pm to 6.00pm Saturdays allowable under NSW CoA E34, beyond standard construction hours as per the *Interim Construction Noise Guideline.*
Ancillary Facility	A temporary facility for construction of the Project including an office and amenities compound, construction compound, materials storage compound, maintenance workshop, testing laboratory and material stockpile area.
AR	Amendment Report
ARSR	Amendment Report Submissions Report
BC Act	*Biodiversity Conservation Act 2016*
CEMP	Construction Environmental Management Plan
CEMS	Contractors Environmental Management System
CFFMP	Construction Flora and Fauna Management Sub-plan
CLM Act	*Contaminated Land Management Act 1997*
CoA	Conditions of Approval. NSW CoA refers to the CSSI 9364 approval, Commonwealth CoA refers to EPBC 2018/8286 Approval.
CPBGG JV	CPB Contractors and Georgiou Group Joint Venture
CSEP	Community and Stakeholder Engagement Plan
CSSI	Critical State Significant Infrastructure
DAWE	Commonwealth Department of the Water, Agriculture and Environment
DPE	NSW Department of Planning and Environment (formerly DPIE)
DPIE	NSW Department of Planning, Industry and Environment
Early Works	Works specified in Appendix B of the Infrastructure Approval which are required to be approved under an Early Works Environmental Management Plan required under Condition A24.
EIS	Environmental Impact Statement
EMS	Environmental Management System
Environmental aspect	Defined by AS/NZS ISO 14001:2015 as an element of an organisation's activities, products or services that can interact with the environment.
Environmental Assessment Documentation	All environmental documentation including the EIS, Amendment report, Submissions report and all supplementary reports
Environmental Representative (ER)	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of construction. The principal point of advice in relation to all questions and complaints concerning environmental performance.
EPA	NSW Environment Protection Authority
EP&A Act	*Environmental Planning and Assessment Act 1979* (NSW)
EPBC Act	*Environment Protection and Biodiversity Conservation Act 1999*

Abbreviations	Expanded text
EPL	Environmental Protection Licence
ESM	Environment and Sustainability Manager (TfNSW)
ESCP	Erosion and Sediment Control Plan
ESR	Environmental Site Representative (CPBGG JV)
EWMS	Environmental Work Method Statements
Highly Noise Affected	Highly noise affected level represents the point above which there may be strong community reaction to noise (above 75 dB(A)) as defined in the ICNG (EPA, 2009)
Highly Noise Intensive Works	Works which are defined as annoying under the Interim Construction Noise Guideline (DECC, 2009) including: ▪ Use of power saws, such as used for cutting timber, rail lines, masonry, road pavement or steel work ▪ Grinding metal, concrete or masonry ▪ Rock drilling ▪ Line drilling ▪ Vibratory rolling ▪ Bitumen milling or profiling ▪ Jackhammering, rock hammering or rock breaking ▪ Impact piling.
Hold point	Is a verification point that prevents work from commencing prior to approval from TfNSW and CPBGG JV
ICNG	*Interim Construction Noise Guideline* (Environment Protection Authority, 2009)
Minister, the	Minister of the NSW Department of Planning, Industry and Environment (or delegate)
Noise Affected	Where noise affected management level represents the level above which there may be some community reaction to noise, as defined in the ICNG (EPA, 2009).
Non-conformance	Failure to conform to the requirements of Project system documentation including this CEMP or supporting documentation.
NSW CoA	NSW Conditions of Approval
NVIS	Noise and Vibration Impact Statement
OCS	Overarching Communication Strategy
OOHW	Out-of-hours work
POEO Act	*Protection of the Environment Operations Act 1997* (NSW)
Principal, the	TfNSW Services
Project, the	M12 Motorway Project West Section
Primary CoA/REMM	CoA/REMM that are specific to the development of this Plan
QA	Quality Assurance

Abbreviations	Expanded text
REMM	Revised Environmental Management Measures
Resource	Resource covers energy, fuel, oil, water and other materials used for construction of the Project
SAP	Sensitive Area Plan
SDS	Safety Data Sheet
Secondary CoA/REMM	CoA/REMM that are related to, but not specific to, the development of this Plan
Secretary	Secretary of the DPE, or delegate
SEMP	Site Establishment Management Plan
Standard Working Hours	As defined by the *Interim Construction Noise Guideline*: Monday to Friday 07:00am to 6:00pm Saturday 8:00 am to 1:00 pm At no time on Sunday or public holidays
TfNSW	Transport for New South Wales (formerly Roads and Maritime Services (RMS))
WHSMP	Work Health and Safety Management Plan
WSIA	Western Sydney International Airport

1 Introduction

1.1 Context

This Site Establishment Management Plan (SEMP or Plan) forms a Sub-plan to the Construction Environmental Management Plan (CEMP) for the M12 Motorway West (the Project) works.

This SEMP has been prepared to address the requirements of the NSW Minister's Conditions of Approval (CoA), Commonwealth CoA, the environmental management measures detailed in the M12 Motorway Environmental Impact Statement (EIS), Revised Environmental Management Measures (REMMs) detailed in the Amendment Report Submissions Report (ARSR), and all applicable legislation and Transport for New South Wales (TfNSW) Specifications.

1.2 Background and Project description

TfNSW is planning to construct and operate the M12 Motorway to provide direct access between the Western Sydney International Airport (WSIA) at Badgerys Creek and Sydney's motorway network. The M12 Motorway will run between the M7 Motorway at Cecil Hills and The Northern Road at Luddenham for about 16 kilometres and is expected to be opened to traffic prior to opening of the WSIA.

Approval for the Project under the EP&A Act was granted by the Minister for Planning on 23 April 2021. Approval for the Project under the EPBC Act was granted by the Federal Minister for the Environment on 3 June 2021. The project must be carried out in accordance with the terms of the NSW and Federal Approvals.

The M12 West Motorway Project (the Project) involves construction of a new approximately 6km of dual carriageway motorway predominantly through greenfield area between The Northern Road, Luddenham and approximately 250m east of Badgerys Creek, including WSIA Interchange and Elizabeth Drive Interchange. The works are within the Liverpool and Penrith City Councils (Council) local government areas (LGA). CPB Contractors and Georgiou Group Joint Venture (CPBGG JV) have been awarded the contract for the Project by TfNSW as a construct only contract.

Features of these Works include:

- Construction of 6km of dual carriageway motorway predominantly through greenfield area between The Northern Road, Luddenham and approximately 250m east of Badgerys Creek.
- Construction of 11 bridges.
- A grade-separated interchange referred to as the Western Sydney International Airport interchange, including a dual-carriageway four-lane airport access road (two lanes in each direction for about 1.5 kilometres) connecting with the Western Sydney International Airport Main Access Road.
- Connection to the signalised at grade intersection at The Northern Road with provision for grade separation in the future as part of the future Outer Sydney Orbital.
- Realignment and duplication of approximately 1,500m of Elizabeth Drive with a new bridge over the Airport Access Road and Metro Rail corridor including associated utility adjustments.
- A four-way signalised intersection east of Airport Access Road.
- A left-in/left-out intersection west of Airport Access Road.
- A signalised single point interchange with north facing ramps from Elizabeth Drive to M12 and south facing ramps from Elizabeth Drive to Airport Access Road.

Further details of the Project are included in section 1.3 of the CEMP.

1.3 Scope of the Plan

Ancillary facilities are required to support construction of the Project. Two (2) types of ancillary facilities are defined in the NSW Infrastructure Approval:

- Minor Ancillary Facility: Lunch sheds, office sheds, portable toilet facilities, and the like that meet the requirements of NSW CoA A20
- Construction Ancillary Facility: a "temporary facility for construction of the CSSI including an office and amenities compound, construction compound, material crushing and screening plant, concrete

and asphalt batching plant, materials storage compound, maintenance workshop, testing laboratory, material stockpile area, access and car parking facilities and utility connections to the facility."

Before establishment of any new or amended construction ancillary facilities, CPBGG JV will assess the ancillary facility in accordance with NSW CoA A15 and the Environment Assessment Documentation.

This SEMP is related to the construction phase of the project only and outlines the environmental management practices and procedures to be implemented for the establishment of construction ancillary facilities for the M12 Motorway Project in accordance with NSW CoA A16. The operation of ancillary facilities during construction will be covered by the Construction Environmental Management Plan (CEMP), in accordance with NSW CoA A19. A number of minor ancillary facilities will be established throughout the project (eg. At bridge locations or remote staging areas) provided they comply with condition A20. These facilities will be approved by the ER via the TfNSW G36 hold point processes.

The Environmental Assessment Documentation for the Project identified a number of compounds and ancillary facilities that will be required for the construction of the Project, including locations for hardstand areas, temporary building and offices, parking areas, material laydown and storage areas. A total of nine (9) ancillary facilities were proposed in section 5.24.3 of the EIS. An additional nine (9) ancillary facilities to those nominated in the EIS were proposed in section 4.1.2 of the Amendment Report. The refined location of the ancillary facilities, which are included as Appendix A4 of the OCEMP, are shown below in Figure 1-1 to Figure 1-2 and are in locations previously detailed in the environmental assessment documentation. Ancillary facilities associated with the construction of the M12 West, including the key features are contained in Table 1-1. The environmental risks are assessed in Table 6-2 and mitigation measures are detailed in Appendix A.

The Ancillary Facilities are required to support the construction of the M12 Motorway West component as described in section 5.13 of the Construction Environmental Management Plan (CEMP).

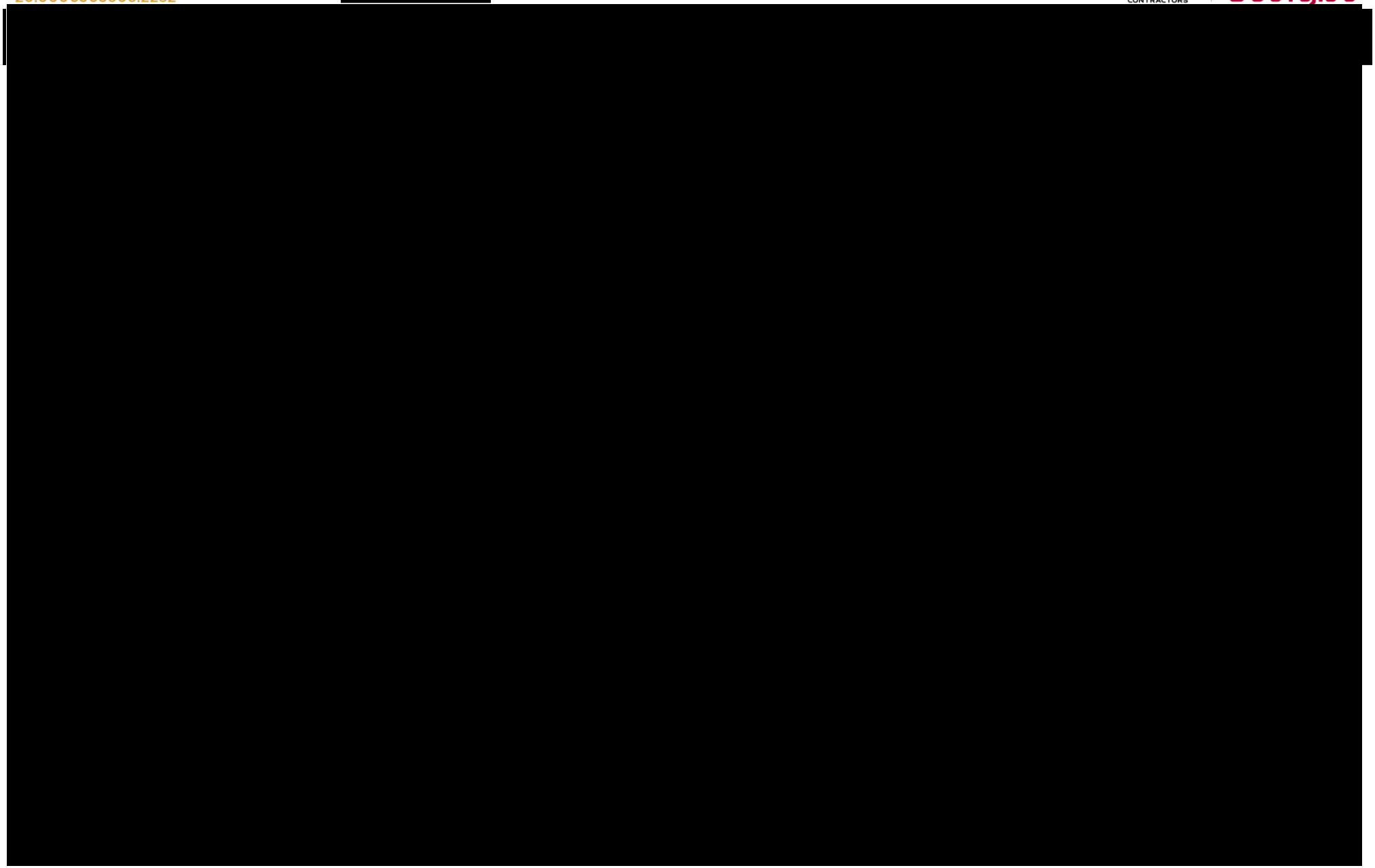


Figure 1-1Ancillary Facility locations M12 West (Source Appendix A4 OCEMP)

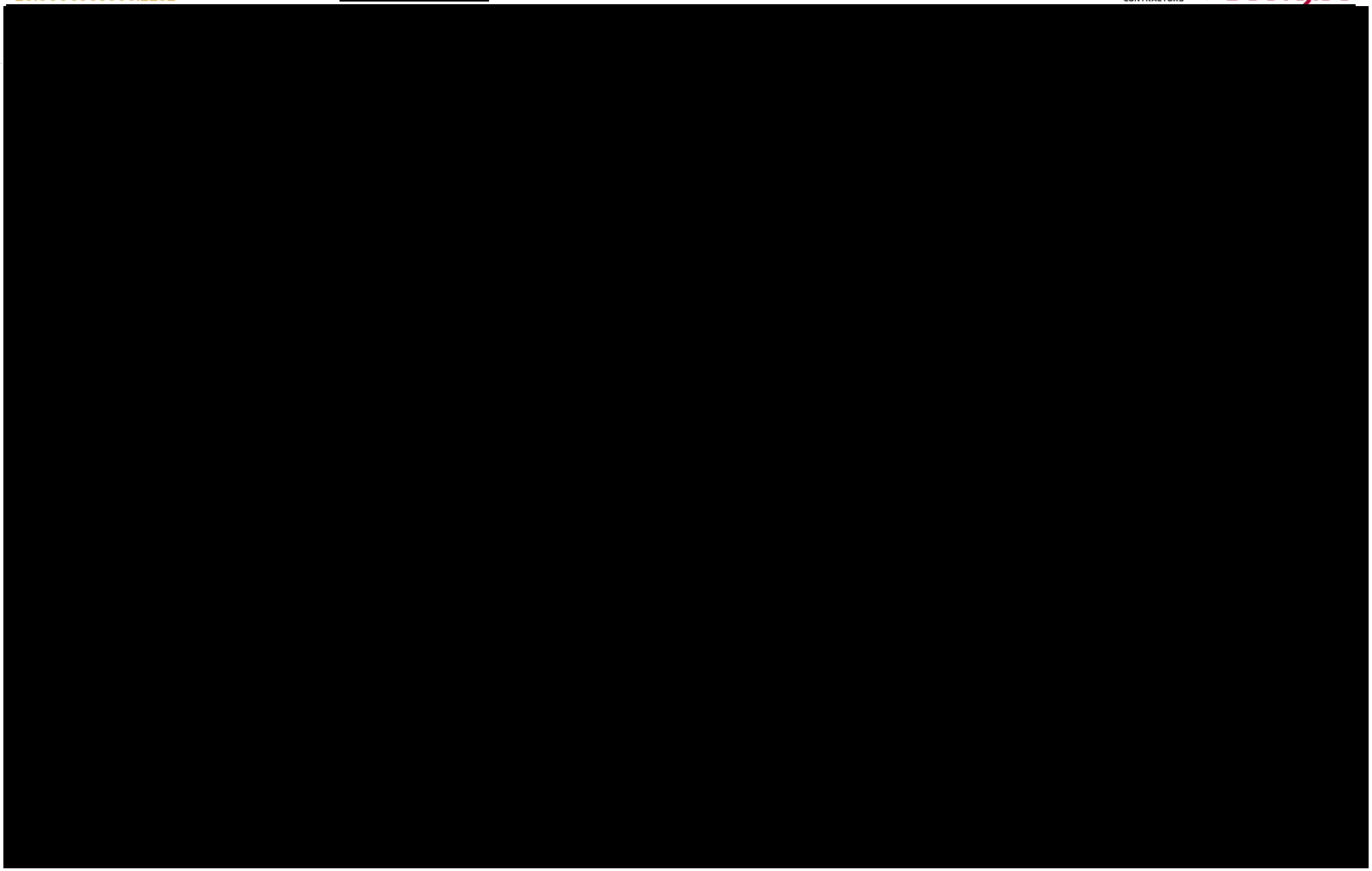


Figure 1-2 Ancillary Facility locations M12 West (Source Appendix A4 OCEMP)

Table 1-1 Approved Ancillary Facilities Locations and Purpose relevant to M12 Motorway West (adopted from OCEMP Appendix A4)

AF	Location	Approximate size (ha)	Purpose	Access Arrangements
AF1	East of [redacted]	8.66	Plant servicing workshop, stockpile and laydown area (including crushing and screening activities), secondary offices, amenities, vehicular access, car park	Access in and out will be via [redacted] Left in and left out.
AF2	North of [redacted] opposite the [redacted] intersection	21.1	Main project office, main TfNSW office, concrete/asphalt batching plant, plant servicing workshop, precast yard, laydown and storage area, amenities, vehicular access, car park	Access in and out will be via [redacted] Left in and left out.
AF3	North of [redacted] between proposed [redacted] and [redacted]	11.8	Stockpile and laydown area	Access in and out will be via the project alignment (AF2) off [redacted] Left in and left out.
AF10	East of [redacted], South of [redacted] Existing ancillary facility for construction of [redacted] of [redacted]	12.2	An existing ancillary facility established as main site compound for a previous TfNSW project. To be used as TfNSW office space during initial site establishment until AF2 and AF11 become operational.	Access in and out will be via existing access point off [redacted] Left in and left out.
AF11	East of [redacted]	4.6	Stockpile and laydown area, secondary offices, amenities, vehicular access, car and plant parking, refuelling and minor workshop, construction water.	Access in and out will be via [redacted] Left in and left out.
AF17	West of [redacted] located near chainage 12800.00	>1	Crushing and screening of rock to be re-used on site.	Access in and out will be via [redacted] Left in and left out.
CAF 001	West of [redacted] located between estimated chainage 11050.000 and 11800.00	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via [redacted] Left in and left out.
CAF 002	West of [redacted] located between estimated chainage12350.000 and 12500,000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via [redacted] Left in and left out.
CAF 003	West of [redacted] located between estimated chainage 12600.000 and 128500.000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via [redacted] Left in and left out.

AF	Location	Approximate size (ha)	Purpose	Access Arrangements
CAF 004	Interchange between estimated chainage 15100.000 and 154500.000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via the project alignment (AF2) off [redacted] Left in and left out.
CAF 005	West of [redacted] between estimated chainage 15650.000 and 15750.000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via the project alignment (AF2) off [redacted] Left in and left out.
CAF 006	West of [redacted] between estimated chainage 15800.000 and 15900.000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via the project alignment (AF2) off [redacted] Left in and left out.
CAF 007	West of [redacted] between estimated chainage 16150.000 and 16250.000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via the project alignment (AF2) off [redacted] Left in and left out.
CAF 008	East of [redacted] estimated between chainage 16450.000 and 16550.000	<1	Crushing and screening of rock to be re-used on site.	Access in and out will be via the project alignment (AF2) off [redacted] Left in and left out.

1.4 Environmental Management System overview

The Environmental Management System (EMS) for the M12 Motorway West project is described in Section 1.5 of the CEMP. CPBGG JV will have an EMS consistent with the overarching EMS.

Management measures identified in this SEMP may also be incorporated into site or activity specific Environmental Work Method Statements (EWMS). EWMS incorporate appropriate mitigation measures and controls and identify key procedures to be used concurrently with the CEMP. Further detail on the EWMS is provided in Section 3.2.5 of the CEMP.

1.4.1 SEMP preparation, endorsement and approval

This SEMP has been prepared to satisfy the NSW and Commonwealth CoA's in relation to ancillary facility site establishment works for the Project.

This SEMP will be reviewed by the TfNSW Project Manager and the Environment and Sustainability Manager (ESM) (or delegate) and endorsed by the ER prior to submission to the Secretary of DPE for approval, if required in accordance with A18. The SEMP must be submitted to the Secretary of DPE for approval prior to commencement of site establishment works. This SEMP will be submitted for the approval of the Secretary no later than one month before the establishment of the ancillary facility in accordance with NSW CoA A16.

1.4.2 Interactions with other management plans

This Plan has the following interrelationships with other management plans and documents:

- The CEMP and Sub-Plans, which forms the overarching environmental management framework for the project, and all environmental management measures to be implemented during construction.
- CPBGG JV's Work Health and Safety Management Plan will address the safety requirements associated with the use of herbicides and pesticides. Safety Data Sheets (SDS) and product labels will also be referenced prior to application of herbicides and pesticides. The Weed Management Procedure (in the CFFMP) identifies all record keeping requirements associated with the use of herbicides and pesticides.

- Consultation between TfNSW and CPBGG JV, stakeholders, community and relevant agencies will be undertaken in accordance with the Overarching Communication Strategy (OCS) prepared by TfNSW to address the requirements of NSW CoA B1 and B2. CPBGG JV's Community and Stakeholder Engagement Plan (CSEP) supports the OCS.
- CPBGG JV environmental documentation.

1.5 Consultation

1.5.1 Consultation for preparation of the SEMP

In accordance with NSW CoA A16, this SEMP is to be prepared in consultation with relevant government agencies and local Councils (Liverpool City Council and Penrith City Council). A log of the dates of engagement or attempted engagement with relevant stakeholders is provided in Table 1-2 in accordance with NSW CoA A5(b). No comments were initially received on the SEMP from the relevant government agencies or local Councils. A follow up email was issued on the 16th June 2022 outlining plan for submission of this SEMP to DPE (including timeframes) and a statement that if no comments received, will be registered as a 'no comment'. Liverpool City Council were the only council to provide a response. A copy of the correspondence and follow up correspondence sent out to the government agencies and local councils is provide in Appendix F.

Table 1-2 Provides a log of engagement or attempted engagement with relevant stakeholders (NSW CoA A5(b), A16).

Agency	Date	Person Contacted	Comment	CPBGG JV Response
Traffic Management Centre	30/05/2022	[redacted]	No comments provided on draft SEMP	No response required
	16/06/2022	[redacted]	No Comment	Follow up email issued.
Penrith City Council	30/05/2022	[redacted]	No comments provided on draft SEMP	No response required
	16/06/2022	[redacted]	No Comment	Follow up email issued.
Liverpool City Council	30/05/2022	[redacted]	No comments provided on draft SEMP	No response required
	16/06/2022	[redacted]		Follow up email issued.
	17/06/2022	[redacted]	Three (3) Comments received from LCC regarding SEMP. Comments related to access in/from the ancillary facilities, OOHW on Saturday afternoon and cumulative traffic impacts.	Response provided to each of the items identified by LCC by way of email dated 22/06/2022.

1.5.2 Ongoing consultation during construction

Consultation between TfNSW, CPBGG JV, stakeholders, the community and relevant agencies regarding the management of site establishment within the Project area will be undertaken during construction as required. The process for the consultation will be documented in the OCS and CSEP.

2 Purpose and objectives

2.1 Purpose

The purpose of this Plan is to describe how impacts associated with the establishment and operation of the Ancillary Facilities (including Minor Ancillary Facilities) will be minimised and managed during construction of the M12 Motorway West Project.

2.2 Objectives

The objective of this SEMP is to ensure that all avoidance, mitigation and management measures relevant to site establishment activities will be implemented, with reference to:

- The Environmental Impact Statement (EIS), Response to Submissions, Amendment Report, and Submissions Report to the Amendment Report prepared for M12 Motorway
- NSW Conditions of Approval (SSI 9364) granted 23 April 2021
- Commonwealth Conditions of Approval (CoA) to the Project on 3 June 2021
- TfNSW QA Specifications G01, G36, G38 and G40.

2.3 Performance outcomes

Performance outcomes have been established based on the specific sensitivities relevant to the construction facilities to allow for full compliance with the relevant legislative requirements, CoA and environmental management measures. These performance outcomes are outlined in Table 2-1.

Table 2-1 Performance outcomes for Ancillary Facilities

Aspect	Performance outcome	Measurement tool
Noise and Vibration	• Minimise noise and vibration complaints by implementing appropriate management measures	• Complaints Register
Water Quality	• Minimise potential impacts to water quality	• Environmental incident reports
Lighting	• Minimise potential impacts from project temporary lighting on surrounding residences	• Complaints Register
Biodiversity	• Vegetation clearing will be undertaken in a manner that avoids and minimises impacts to threatened fauna species	• Pre-clearing survey report
Incident Management	• All environmental incidents will be appropriately managed to minimise their impact on the surrounding environment.	• Environmental incident reports
Compliance	• Activities to establish and operate the site compounds will be compliant with the State and Commonwealth CoA and the Environmental Assessment Documentation	• Compliance records

3 Environmental requirements

3.1 Relevant legislation and guidelines

3.1.1 Legislation

All legislation relevant to this SEMP is included in Appendix A1 of the CEMP. Legislation considered during the development of this Plan includes:

- *Biodiversity Conservation Act 2016 (BC Act)*
- *Contaminated Land Management Act 1997 (CLM Act)*
- *Environmental Planning and Assessment Act 1979 (EP&A Act)*
- *Heritage Act 1977.*
- *Protection of the Environment Operations Act 1997 (POEO Act)*

3.1.2 Additional approvals, licences, permits and requirements

Refer to Appendix A1 of the CEMP. It is noted that an EPL (#21595) is required for the M12 Motorway project. At the time of this plan preparation, EPL #21595 had been approved by the NSW EPA and notice of variation of licence was provided by the EPA on 1 December 2022.

3.1.3 Guidelines and standards

The main guidelines, specifications for policy documents relevant to this plan include:

- *Interim Noise Construction Guideline (ICNG) (EPA, 2009).*
- Managing Urban Stormwater: *Soils and Construction. Volume 1: 'Blue Book', Landcom (2004)*
- Managing Urban Stormwater: *Soils and Construction. Volume 2D: Main Road Construction*, DECC (2008)
- Transport for NSW *Construction Noise and Vibration Guidelines (TfNSW, 2016)*
- Transport for NSW *Noise Criteria Guideline (TfNSW, 2015).*
- Transport for NSW *Noise Mitigation Guidelines (TfNSW, 2015)*
- Transport for NSW QA Specification G1 – Job Specific Requirements
- Transport for NSW QA Specification G36 – Environmental Protection (Management System)
- Transport for NSW QA Specification G38 – Soil and Water Management
- Transport for NSW QA Specification G40 – Clearing and Grubbing

3.2 NSW Conditions of Approval

The primary NSW CoA relevant to this Plan are listed Table 3-1 below. A cross reference is also included to indicate where the condition is addressed in this Plan or other project management documents. Where relevant, secondary conditions relevant to this Plan have been listed in Appendix B.

Table 3-1 Conditions of Approval relevant to the SEMP

CoA No.	Condition Requirements	Document Reference
A15	Construction ancillary facilities (excluding minor construction ancillary facilities established under Condition A20), that are not identified by description and location in the documents listed in Condition A1 can only be established and used in each case if:	
	(a) they are located within or immediately adjacent to the construction boundary; and	Section 1.3 Section 8.1 Appendix H
	(b) they are not located next to a sensitive receiver(s) (including where an access road is between the facility and the receiver(s)), unless the sensitive receiver(s) (both the landowner(s) and occupier(s)[2]) have given written acceptance to the carrying out of the relevant facility in the proposed location; and [2] *For the purposes of this condition, the term "occupier(s)" refers to residents that occupy a premises or a tenant in a building.*	Section 1.3 Section 8.1 Appendix H
	(c) they have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and	Section 1.3 Section 8.1 Appendix H
	(d) the establishment and use of the facility can be carried out and managed within the outcomes set out in the terms of this approval, including in relation to environmental, social and economic impacts.	Section 1.3 Section 8.1 Appendix H
A16	Before establishment of a construction ancillary facility(ies) (excluding minor construction ancillary facilities established under Condition A20), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practises and procedures to be implemented for the establishment of the construction ancillary facility(ies). The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant State government agencies. The Plan must be endorsed by the ER and then submitted to the Planning Secretary for approval one (1) month before the establishment of the construction ancillary facility(ies). The Site Establishment Management Plan must detail the management of the construction ancillary facility(ies) and include:	This SEMP Section 1.4 Section 1.5 Appendix A
	(a) A description of activities to be undertaken during establishment of the construction ancillary facility(ies) (including scheduling and duration of work to be undertaken at the site);	Section 4
	(b) Figures illustrating the proposed site layout and the location of the closest sensitive receiver(s);	Appendix B
	(c) A program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of site establishment work;	Section 6.1 Table 6-2

CoA No.	Condition Requirements	Document Reference
	(d) Details of how the site establishment activities described in subsection (a) of this condition will be carried out to:	
	(i) Meet the performance outcomes stated in the documents listed in Condition A1, and	Section 2.3 Appendix A
	(ii) Manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and	Table 6-2
	(e) A program for monitoring the performance outcomes, including a program for noise monitoring consistent with the requirements of Condition C14.	Section 7.5
	The Site Establishment Management Plan must be approved before the establishment of a construction ancillary facility(ies) (excluding minor construction ancillary facilities established under Condition A20). Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility. *Note: Condition A16 does not apply to minor construction ancillary facilities established under Condition A20.*	Section 1.4
A17	Where a construction ancillary facility(ies) has been established for any early works listed in Appendix B and is to be used for construction, a new or revised Site Establishment Management Plan must be prepared where additional activities are required to establish the site for the purposes of construction or there is a change to the site layout. The new or revised Site Establishment Management Plan must be prepared in accordance with Condition A16 and approved by the Planning Secretary before commencement of the additional activities or change to site layout.	This SEMP Section 8
A18	The use of a construction ancillary facility for construction (excluding minor construction ancillary facilities established under Condition A20 and construction ancillary facilities established for the purposes of early works in accordance with Condition A24) must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C4 and relevant Construction Monitoring Programs required by Condition C11 have been approved by the Planning Secretary. This condition does not apply to the use of construction ancillary facilities where the ER has determined that the use of the facility will have a minimal impact on the environment and community.	Overarching CEMP and Sub Plans prepared by TfNSW and approved by DPIE 21/12/2021.
A20	Lunch sheds, office sheds, portable toilet facilities, and the like, can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria:	
	(a) are located within or adjacent to the construction boundary; and	Section 1.3 Section 8.1
	(b) have been assessed by the ER to have - (i) minor amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and	Section 1.3 Section 8.1
	(ii) minor environmental impact with respect to waste management, soil, water and flooding, and	Section 1.3 Section 8.1
	(iii) no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval.	Section 1.3 Section 8.1

CoA No.	Condition Requirements	Document Reference
A21	Boundary screening must be erected around all construction ancillary facilities that are adjacent to sensitive receivers for the duration of construction of the CSSI unless otherwise agreed with affected residents, business operators and landowners.	Section 4.3.1 Section 6.2.12
A22	Boundary screening required under Condition A21 of this approval must minimise, as far as practicable, visual impacts on adjacent sensitive receivers.	Section 4.3.1 Section 6.2.12
A23	The CSSI name; application number; telephone number, postal address and email address required under Condition B7 of this approval must be made available on site boundary fencing / hoarding at the entrance of each ancillary facility before the commencement of construction.	Section 4.3.2
E61	The CSSI must be constructed in a manner that minimises visual impacts of construction ancillary facilities, including but not limited to, providing temporary landscaping and vegetative screening of the construction sites, minimising light spill, and incorporating architectural treatment and finishes within key elements of temporary structures that reflect the context within which the construction sites are located.	Figure 1-1 Figure 1-2 Section 5.5 Table 6-2

3.3 Primary Revised Environmental Management Measures (REMMs)

The primary REMMs relevant to this Plan are listed Table 3-2 below. A cross reference is also included to indicate where the condition is addressed in this Plan or other project management documents. Where relevant, secondary conditions relevant to this Plan have been listed in Appendix B.

Table 3-2 Primary REMMs relevant to this Plan

REMM	Condition Requirements	Document Reference
LVIA05	Project elements such as ancillary facility hoardings will be designed and maintained to minimise impacts on landscape character and visual amenity. This will include selecting colours and materials that are visually recessive and blend into the surrounding landscape where practicable, and the prompt removal of graffiti.	Section 5.5 Table 6-2 Section 6.2.12
LVIA07	Temporary and permanent lighting will be designed and implemented with consideration of:	-
	•The need to orientate lighting to minimise light spill and glare impacts on nearby receivers	Section 6.2.11
	• The need to minimise vandalism and maintenance requirements	Section 6.2.11
	•Opportunities to implement sustainability initiatives in design such as energy efficient or solar lighting.	Sustainability Management Plan
NV03	Detailed noise assessments will be carried out for ancillary facilities with the potential to involve high noise generating activities (including batching plant operations). The assessments will consider the proposed site layouts and noise generating activities that will occur at the facilities and assess predicted noise levels against the relevant noise management criteria. The assessments will also consider the requirement for appropriate noise mitigation within ancillary facilities and adjacent to construction works, depending on the predicted noise levels. Any mitigation measures required will be implemented before the start of activities that generate noise and vibration impacts.	CNVMP (Appendix B4 CEMP) Section 5.3

HS02	Measures to mitigate and manage bushfire risk will be developed and included as part of site specific hazard and risk management measures within the WHSMP. Measures will include the maintenance of ancillary facilities in a tidy and orderly manner and the storage and management of dangerous goods and hazardous materials in a safe location.	Section 5.13 Table 6-2

3.4 TfNSW QA Specifications

TfNSW QA Specification requirements relevant to the development of this Plan are listed in Table 3-3. TfNSW QA Specification requirements relevant to the SEMP.

Table 3-3 TfNSW QA Specification requirements relevant to the development of this Plan

QA Specification Reference	Requirement	Reference
G001 10	Pre-construction, if an ancillary facility is required that are not identified in the EIS, the environmental requirements of the conditions of approval will apply.	Section 10
G36 4.15.2	Pre-construction land condition assessment report for each area which you intend to use for the Contractor's site facilities and evidence of necessary statutory and environmental approvals.	Section 4.2.2
G36 4.16	Prior to Completion, restore any areas disturbed by you (such as areas for ancillary facilities, material storage, access and haul roads and the provision of TfNSW's project accommodation) to a condition similar to that existing before disturbance, unless authorised otherwise by TfNSW	Section 4.2.3

4 Site establishment works

4.1 Overview

Ancillary facilities will be established to support site-based personnel during construction. As required by CoA A16 and CoA A24(b), a SEMP for any proposed construction ancillary facilities (excluding minor construction ancillary facilities established under CoA A20) must be prepared to outline the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facility(ies).

All ancillary facilities required for the Project will be established in accordance with this SEMP. Indicative layouts of these ancillary facilities are shown in Appendix B of this Plan and include

- West:
  - AF1
  - AF2 (note concrete batch plant will be adjacent office and shed complex)
  - AF3
  - AF10 only to be used as initial TfNSW offices
  - AF11
  - AF17
  - CAF 001 – CAF 008

4.2 Site Establishment Activities

Site establishment activities refer to the works undertaken to establish an ancillary facility and enable it to be used to support construction of the CSSI. Table 4-1 below details the general site establishment works proposed and an indicative timing to complete each activity, noting that multiple activities may be undertaken simultaneously.

Table 4-1 General Site Establishment Works (high intensive noise activities in bold)

Activity	Description	Indicative Timing

Site preparation works	• Provision of site security such as temporary fencing panels and perimeter hoarding
	• Provision of minimum health and safety requirements including:
	  ○ Toilet facilities
	  ○ Offices
	  ○ Lunch rooms
	• Signage and pedestrian diversions
	• Installation of traffic barriers
		5 days per ancillary facility (ie. one calendar week per ancillary facility)

Site survey and site investigation works	• Ground investigation works • Utility investigation by potholing with a vacuum truck • Pre-construction land condition assessment (PCLCA)	1-2 days per ancillary facility

Initial environmental controls	• Erosion and sediment controls, including:
	  ○ Installation of rip rap
	  ○ Drainage sump
	  ○ Diversion of offsite flows
	  ○ Erosion, sediment and water flow controls
	• Delineation of sensitive areas and temporary fencing/hoardings
		2-5 days per ancillary facility (ie. up to one calendar week per ancillary facility)

Remediation	• Remediation of contaminated materials (if required, pending detailed site investigations)	Variable depending on investigation outcomes
Site levelling	• **Clearing of vegetation and grubbing which will involve the use of chain saws and mulchers** • **Site levelling, grading and compaction**	5 days per ancillary facility (ie. one calendar week

Activity	Description	Indicative Timing
	• **Rock crushing** • Temporary stockpiling of materials for site levelling	per ancillary facility)
Hardstand and site access	• Formalisation of access and egress points • **Sealing of hard stand areas, which will involve the use of vibratory rollers** • Installation of internal haul roads which will involve the use of bitumen milling or profiling equipment	5 days per ancillary facility (ie. one calendar week per ancillary facility)
Demolition of non-heritage structures	• Removal of hazardous materials • Internal strip out • **Structure disassembly and demolition which will involve the use of a jackhammer (or hammer attachment on excavator)**	1-2 days per ancillary facility
Utility works (note, these activities will be managed through the project Utility Management Plan (UMP) and have been provided in this table for completeness)	• Protection of existing services (overhead wiring) • Removal of redundant utilities • **Installation of services to the site e.g. water, sewer, power, communications (this will be managed in accordance with the Utility Management Plan). This work may involve the use of power saws (eg road or demo saw) for cutting road pavement and concrete and jackhammers (or hammer attachment on excavator) to remove concrete / rock in excavations.**	5 days per ancillary facility (ie. one calendar week per ancillary facility) dependent on utility providers timeframes.
Installation of offices	• Layout, e.g. blockwork and foundations, completed for office installation • Installation of office buildings and shipping containers • Installation of staff amenities	10 days per ancillary facility (ie. two calendar weeks per ancillary facility)
Installation of remaining site infrastructure	• Chemical and hazardous material storage • Designated stockpile / laydown areas • Formalisation of on-site car parking (line marking etc) • Installation of site lighting	15 days per ancillary facility (ie. three calendar weeks per ancillary facility)

4.2.1 Site Establishment activities program

An indicative site establishment program for each ancillary facility is provided in Table 4-2. Site establishment works are scheduled to commence in July 2022 and will be undertaken in accordance with this SEMP. The facilities will be in use till the end of the Contract period.

Table 4-2 Ancillary Facility Site Establishment Works – Indicative Duration

Ancillary Facility	Indicative Duration
AF1	8 weeks
AF2	10 weeks plus separate 16 weeks for batch plant establishment
AF3	Stockpile site only as per earthworks program for topsoil stripping and unsuitable material.
AF10	Existing ancillary facility, already established.
AF11	8 weeks
AF17	5 days
CAF 001 – CAF 008	Sites will not require establishment as crusher will be placed progressively in areas where cut and fill activities have been completed

4.2.2 Pre-construction land condition assessment

A pre-construction land condition assessment will be undertaken prior to possession of any area of land nominated by TfNSW for the location of site facilities, including areas for construction materials storage and stockpiling in accordance with the requirements of TfNSW QA Specification G36.

The pre-construction land condition assessment:

- Will be undertaken by an independent environmental consultant approved by TfNSW, with experience in site environmental inspections and construction waste management
- Will identify any existing waste or stored materials on the land prior to the area being occupied.
- Will be undertaken for any areas, additional to those nominated, that have been authorised by TfNSW and the necessary statutory and environmental planning approvals for the intended use of the land will be obtained
- The report will include text, photographs and maps to describe any existing waste or stored materials on the site. The report will be prepared in accordance with TfNSW Environmental Procedure "Management of Wastes on Roads and Maritime Services Land"
- A report will be submitted to the TfNSW ESM (or delegate) for approval, prior to establishment of the ancillary facility.

4.2.3 Post-construction restoration and land condition assessment

At the completion of the Project stage, CPBGG JV will decommission the ancillary facilities and any disturbed land rehabilitated and landscaped to a minimum standard of its pre-construction condition in accordance with G36. Any disturbed areas (including areas for site compounds, material storage, access and haul roads and project accommodation) will be restored to a condition similar to that existing before disturbance, unless authorised otherwise by TfNSW.

Any property access that is physically affected by the ancillary facilities is to be reinstated to an equivalent standard or alternative access provided in consultation with the landowner in accordance with NSW CoA E83.

Restoration will include spill clean-up and soil remediation where applicable, removal of all fencing, signage and temporary structures, topsoiling of the area, weed control and seeding, planting, watering and maintenance, removal of temporary erosion control devices and sediment in drainage lines plus removal of unused construction materials.

Areas disturbed as a result of construction will be progressively rehabilitated as soon as practicable.

The work site will be left tidy and free of rubbish upon completion of construction.

Following restoration of the land by the CPBGG JV, a post-construction land condition assessment will be conducted by an independent environmental consultant approved by TfNSW. The report will be prepared in accordance with TfNSW Environmental Procedure "Management of Wastes on Roads and Maritime Services Land".

The post-construction land condition assessment will confirm that no unauthorised Project waste remains on the site. The post-construction land condition assessment report will be submitted to the TfNSW Environment and Sustainability Manager (or delegate).

If required by the post-construction land condition assessment report, CPBGG JV will undertake additional restoration works to ensure all waste is removed and the site returned to pre-construction condition.

The TfNSW Environment and Sustainability Manager (or delegate) may carry out an inspection of the ancillary facility site, before approving that it has been restored.

4.3 Site layout and access

An indicative layout of the ancillary facilities is provided in Appendix B. Proposed access arrangements have been shown or discussed in these layouts and are outlined above in Table 1-1.

4.3.1 Boundary Screening

NSW CoA A21 and A22 require boundary screening to be erected around all construction ancillary facilities that are adjacent to sensitive receivers for the duration of construction unless otherwise agreed with affected residents, business operators and landowners. This screening must minimise, as far as practicable, the visual impacts on adjacent sensitive receivers.

A 2.4m chain wire security fence with shade cloth is to be erected around all ancillary facilities for the project.

4.3.2 Signage

In accordance with NSW CoA A23 and B7, signs will be displayed at the entrance of the Ancillary Facilities that displays the following information:

- The CSSI name: M12 Motorway
- Application number: SSI- 9364
- A 24- hour telephone number for the registration of complaints and enquiries about the CSSI: 1800 517 155
- A postal address to which written complaints and enquires may be sent:
  - Transport for NSW (M12 Motorway), PO Box 973, Parramatta, NSW, 2124
- An email address to which electronic complaints and enquiries may be transmitted: m12motorway@transport.nsw.gov.au.

4.4 Plant and Equipment

Plant and equipment expected to be used for site establishment of the construction and Minor Ancillary Facilities may include:

- Small cranes and lifting equipment
- Excavators
- Vibratory rollers
- Concrete trucks
- Concrete vibrators
- Road trucks
- Light vehicles
- Chainsaws
- Mulcher
- Fences
- Portable sheds
- Portable ablutions
- Generators
- Jack hammers / rock hammers
- Power / road saws
- Compactors
- Graders
- Watercart
- Waste tanks
- Rock crusher and screen.

4.5 Working hours

In accordance with NSW CoA E34, Ancillary Facility operations will be undertaken during the following working hours:

- 7:00 am to 6:00 pm Monday to Friday
- 8:00 am to 6:00 pm Saturday (subject to prior approval from TfNSW)
- At no time on Sunday or public holidays.

Application to work between 1:00 pm and 6:00 pm on a Saturday (the allowable work hours on Saturdays identified in the Infrastructure Approval) must be submitted to the Principal no later than 12:00 pm on the Thursday immediately prior to the Saturday for which works are proposed, and must include

the details of the work activities proposed to be carried out. Approval is at the sole discretion of TfNSW. While not expected to be required, any highly noise intensive works that result in an exceedance of the applicable noise management level at the relevant receiver will be undertaken in accordance with NSW CoA E35, and must only be undertaken:

- Between 8:00 am to 6:00 pm Monday to Friday
- Between 8:00 am to 1:00 pm Saturday
- In continuous blocks not exceeding three hours each with a minimum respite from those activities and works of not less than one hour between each block.

'Continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing the work.

As required by NSW CoA E37, CPBGG JV will identify and liaise with TfNSW to consult with receivers identified as being subject to levels that exceed the highly noise affected criteria (if required) with the objective of determining appropriate hours of respite unless an agreement is reached with those receivers.

4.5.1 Out of Hours Work

CPBGG JV will prepare a procedure for Out of Hours Work (OOHW), prepared in accordance with the *Construction Noise and Vibration Guidelines (Roads and Maritime, 2016*). The procedure will be prepared to address the requirements of NSW CoA E37 relating to OOHW. Approvals for any changes to the construction hours will be attached to the CNVMP in the OOHW Protocol.

4.5.2 Variation to hours of work

Works associated with the delivery of the Project may be undertaken outside the hours of work identified in Section 4.5 in the following circumstances, in accordance with NSW CoA E36:

- Safety and emergencies, including:
  - For the delivery of materials required by the NSW Police Force or other authority for safety reasons; or
  - Where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent material environmental harm.

  On becoming aware of the need for emergency works, CPBGG JV will notify the TfNSW Project Manager, the Planning Secretary, the ER and the EPA of the need for those works. CPBGG JV will use its best endeavours to notify all affected sensitive receivers of the likely impact and duration of those works.
- Work that causes:
  - $L_{Aeq(15\ minute)}$ noise levels:
    - No more than 5 dB(A) above the rating background level at any residence in accordance with *Interim Construction Noise Guideline (DECC, 2009)*, and
    - No more than the "Noise affected" noise management levels specified in Table 3 of *the Interim Construction Noise Guideline (DECC, 2009)* at other sensitive land uses ; and
  - $LAF_{max(15\ minute)}$ noise levels no more than 15 dB(A) above the rating background level at any residence during the night time period; and
  - Continuous or impulsive vibration values, measured at the most affected residence are no more than those for human exposure to vibration, specified in Table 2.2 of *Assessing Vibration: a technical guideline (DEC, 2006): and*
  - Intermittent vibration values measured at the most affected residence are no more than those for human exposure to vibration, specified in Table 2.4 of *Assessing Vibration: a technical guideline (DEC, 2006)*.
- By approval:
  - Where different construction hours are permitted or required under an EPL in force in respect of the Project; or

- Work not subject to an EPL that are approved under an Out-of-Hours Work Protocol in accordance with NSW CoA E37; or
- Negotiated agreements with directly affected residents and sensitive land user(s).

Approvals for any changes to the construction hours outlined in Section 4.5 above will be attached to the CEMP.

5 Environmental aspects

This section of the Plan provides an overview of potential environmental aspects that are related to site establishment activities.

5.1 Traffic and transport

5.1.1 Parking

Through the provision on site worker parking, site establishment activities are not expected to reduce the availability of existing parking in the vicinity of each ancillary facility.

5.1.2 Local Road Impacts and Vehicle Movements

The proposed site access for light and heavy vehicles during site establishment works are detailed in Table 1-1. The maximum vehicle movements permitted during site establishment works are provided in Table 5-1.

Roads identified as potential access routes in the Environmental Assessment Documentation included [redacted], [redacted], [redacted] and [redacted]

The Secretary's approval for the use of local roads by heavy vehicles in accordance with NSW CoA E93 is not required as the use of roads such as [redacted] and [redacted] has been identified in the Environmental Assessment Documentation. Therefore, a traffic and pedestrian impact assessment in accordance with NSW CoA E94 is not required.

In accordance with NSW CoA E95, a Road Dilapidation Report will be prepared before any local road not identified by the Environmental Assessment Documentation is used by a heavy vehicle for the purposes of the project, unless otherwise agreed by the relevant road authority.

All access and egress into the ancillary facilities are as per Table 1-1. AF17 and CAF 001 to CAF 008 will only consist of internal vehicle movements and movements of the crusher across Luddenham Road through Gate 3a. Crushing activities are not anticipated to increase off site traffic volumes.

The volume of construction vehicles during the operation of the ancillary facilities and management of cumulative traffic impacts will be addressed in the site specific Construction Traffic and Transport Management Plan (Appendix B1 of CEMP).

Table 5-1 Construction traffic generation

Ancillary Facility	Work Sites[1]	Daily heavy vehicle generation	Morning peak light vehicle generation	Morning peak[2] heavy vehicle generation	Evening peak[3] light vehicle generation	Evening peak heavy vehicle generation
AF1/10	ML-01 [redacted] to [redacted]	80*	100*	20*	100*	20*
AF2/3	ML-03, ML-05, ML-06, ML-08 [redacted] to [redacted] ML-04 [redacted] north of the [redacted] ML-07 [redacted] access road LR-02 [redacted] west of the [redacted] access road LR-03 [redacted] east of the [redacted] ML-09 [redacted] to [redacted]	220*	100*	16*	100*	16*
AF11	ML-02 [redacted] to [redacted] LR-01 [redacted] private access driveway	220*	100*	16*	100*	16*
AF17	No external traffic will be generated from the operation of AF17	-	-	-	-	-
CAF 001 – CAF 008	No external traffic will be generated from the operation of CAF 001 – CAF 008					
Total:		**520**	**300**	**52**	**300**	**52**

[1] As detailed in the AR and depicted in AR Figure 6-4 Amended Haulage Arrangements
[2] Morning peak is 0730 to 0830 hours
[3] Evening peak is 1730 to 1830 hours

5.2 Air quality

The potential impacts related to management of air quality during worksite establishment activities include:

- Dust generation due to:
  - Vegetation clearance, clearing and grubbing
  - Stockpiling of topsoil and mulched vegetation
  - Demolition of buildings and associated infrastructure where applicable
  - Wind erosion of exposed surfaces and stockpiles
  - Wheel-generated dust from vehicular traffic on unsealed roads and works site access points
  - Crushing of rock.
- Particulate matter (PM2.5/PM10) generation due to:
  - Operation of construction vehicles, plant and equipment
  - Dust generation activities set out above.

It is not anticipated that there will be any odour generated as a result of the establishment or operation of the Ancillary Facilities.

The Environmental Assessment Documentation concluded that impacts on air quality will be minor in nature. Any potential air quality impacts will be managed in accordance with the environmental management measures listed in Table 6-2.

5.3 Noise and vibration

The potential for noise and vibration impacts on sensitive receivers or structures as a result of site establishment activities will depend on a number of factors, including:

- The type of plant and equipment in use
- The number of plant and equipment simultaneously in use
- Proximity to sensitive receivers
- Topography and other physical barriers
- Hours / duration of site establishment works
- Ground condition (bare ground as compared to hardstand)
- The condition of sensitive receivers
- Proximity of heavy traffic areas such as the highway
- Presence of existing background noise (e.g. from heavy traffic areas).

In accordance with NSW CoA A20, lunch sheds, office sheds, portable toilet facilities can also be established when the ER has assessed that only minor amenity impacts to surrounding residences and businesses are present. This includes consideration of matters such as compliance with the *Interim Construction Noise Guideline* (DECC, 2009).

The noise and vibration assessment in the Environmental Assessment Documentation identified and considered potential noise and vibration impacts for sensitive receivers along the Project alignment. Receivers potentially sensitive to noise and vibration were categorised as residential dwellings, commercial/industrial buildings (including small businesses), or 'other' sensitive land uses which includes educational institutions, childcare centres, medical facilities, and places of worship. Sensitive receivers potentially affected by the Project are mainly properties in semi-rural surrounds of Luddenham and Badgerys Creek with few residences.

Existing background noise to these receivers results from existing construction activities being undertaken at WSA and traffic on [redacted] and [redacted] and can be generally influenced by environmental noises such as wind and insects.

Noise sensitive receivers and the Noise Catchment Areas (NCAs) within the Project are shown in Figure 5-2. The predicted noise contours for the bulk earthworks – peak impact scenario has been included as a reference for predicted construction noise impacts. Predicted construction noise contours for the various scenarios can be found on the M12 Motorway web portal (http://caportal.com.au/rms/m12) and

[redacted]

within the M12 Motorway Amendment Report Appendix G Noise and Vibration updated technical report. Notification to residents will be in accordance with the requirements of the OCS.

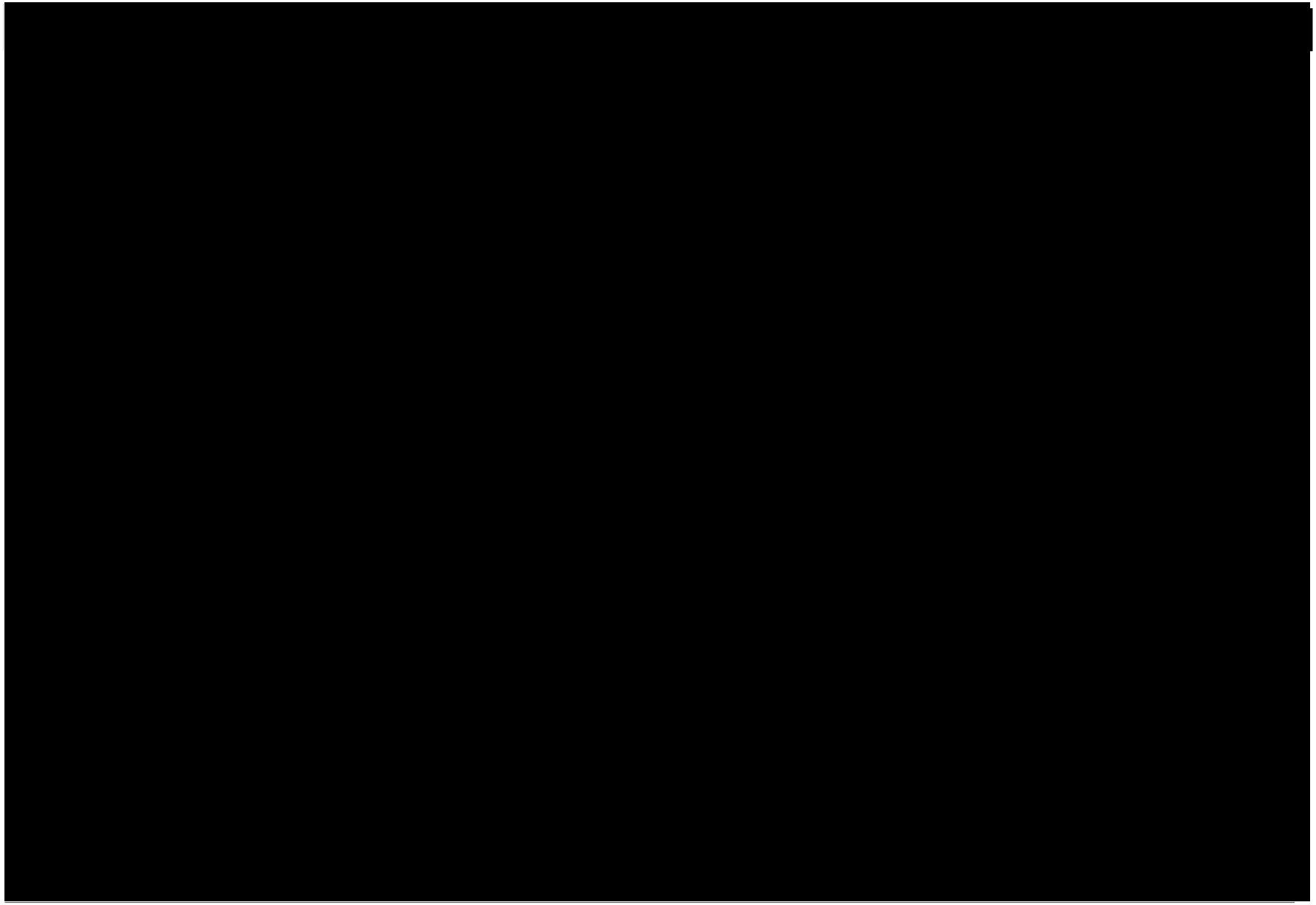


Figure 5-1 Noise catchments relevant to the Ancillary Facilities

Figure 5-2 Noise catchments relevant to the Ancillary Facilities

Table 5-2 Construction NMLs and sleep disturbance screening criteria at residences (extract from Table 5-3 CNVMP)

NCA	Monitoring location	NML LAeq(15min) (dBA)						
		Standard construction (RBL + 10dB)	Out-of-hours (RBL + 5dB)					Sleep disturbance screening criteria (RBL + 15 dB)
		Day[4]	Morning shoulder[5]	Day[6]	Evening [7]	Evening shoulder[8]	Night[9]	
NCA07	L06	44	39	39	39	39	36	46
NCA08	L14	52	47	47	44	44	38	48
NCA09	L07	50	45	45	41	41	36	46
NCA10	L09	54	49	49	49	49	41	51

5.4 Land use

Existing land use in the area surrounding the M12 Motorway West are rural residential properties in the semi rural surrounds of Luddenham and Badgerys Creek.

The establishment of ancillary facilities will result in a temporary change in land use. The individual sites would not generally impact on the existing land use as most are currently zoned for (or being used for) infrastructure related purposes.

Any ongoing potential land use and property impacts during site establishment activities will be managed in accordance with the environmental management measures listed in Table 6-2.

5.5 Urban design and visual amenity

The Ancillary Facilities will result in a temporary increase in the visual extent of construction site and activities. The proposed locations of the ancillary facilities are located in rural lands and farmland surrounded by rural residential properties, located at distances exceeding 150m from the ancillary facilities. Scattered trees and shrubs are also present within the ancillary facility locations and will be retained as far as practicable. The ancillary facilities will not have tall structures, with the exception of the batch plant. Some of the existing topography (particularly at AF2), once the earthworks are completed will also provide some partial obstruction of direct views over the ancillary facility. Any obstruction of views from existing residential receivers to the ancillary facilities will be minimal.

[4] Daytime period is the standard construction hours of 7:00 am to 6:00 pm Monday to Friday and 8:00 am to 1:00 pm Saturday
[5] Morning shoulder period is 6:00 am to 7:00 am Monday to Friday. Where the morning shoulder RBL is higher than the daytime RBL, the daytime RBL was adopted
[6] Daytime OOH period is 7:00 am to 8:00 am and 1:00 pm to 6:00 pm Saturday, and 8:00 am to 6:00 pm Sunday and Public Holidays
[7] Evening period is 7:00 pm to 10:00 pm Monday to Friday and 6:00 pm to 10:00 pm Saturday, Sunday and Public Holidays
[8] Evening shoulder period is 6:00 pm to 7:00 pm Monday to Friday. Where the evening shoulder RBL is higher than the evening RBL, the evening RBL was adopted
[9] Night-time period is 10:00 pm to 6:00 am Monday to Friday, 10:00 pm to 7:00 am Saturday and 10:00 pm to 8:00 am Sunday and Public Holidays

Potential impacts to sensitive land users during site establishment works include dust emissions, visual impacts, and noise and vibration. In addition, lighting may be required at night for the purposes of illuminating required office buildings, vehicle parking area, providing security around compounds, or where works are required to be conducted under an ROL, including the delivery of oversized materials/plant, or potholing investigations.

Ancillary facilities will be constructed in a manner that minimises visual impacts of the site. This will include boundary screening, temporary landscaping (eg. use of topsoil stockpiles at AF2) and minimising light spill (in accordance with NSW CoA A21, A22, A23, E61 and E62). Access to site will be strictly controlled via lockable gates and a gatekeeper. Access to the buildings would also be controlled by way of lock/key, swipe tag system or similar. Clear site lines incorporated as part of the layout for the ancillary facilities would also prevent 'hidden zones' being created. Urban design and visual amenity environmental management measures are listed in Table 6-2.

AF10 is an existing compound and no modifications are required to the site. The site is approved for use under the CoA's and is surrounded by the cut batter of [redacted] to the west. The site is open to the north, east and south. The only sensitive receiver is located to the south of the site and is not visible from the compound.

The visual and light spill impacts associated with the ancillary facility would be temporary in nature. The ancillary facilities have been designed to occupy the minimal area practicable and are consistent with the potential impacts presented in the Project EIS. Ancillary Facilities would be restored to their pre-construction condition at the end of the project.

5.6 Social and economic

Site establishment works have the potential to cause localised social and economic impacts as a result of changed traffic and access conditions to facilitate site access and egress requirements. In addition, short term utility disruptions may be necessary to connect utilities to the ancillary facilities.

These potential impacts will be managed in accordance with the management and mitigation measures for their respective aspects, listed in Table 6-2.

The Project is expected to contribute to an increase in construction and project-related jobs. It will also provide a stimulus for the local economy (local cafes, restaurants and shops) due to the influx of the construction workforce.

5.7 Soil and water quality

The proposed site establishment works will involve surface excavation and earthmoving. Temporary exposure of soil to water runoff and wind could increase the potential for soil erosion. There is also potential for exposed soils – and other unconsolidated materials, such as spoil, sand and other aggregates – to be transported from the ancillary facility into surrounding waterways via stormwater runoff. Sedimentation in natural waterways can result in reduced water quality as well as smothering of vegetation and clogging of channels, impacting the natural flow paths of the waterway.

The greatest potential for soil erosion would be associated with the disturbance of soils on existing slopes during site establishment/construction, particularly at the major or larger ancillary facilities requiring significant earthworks to establish or large areas needed to be exposed.

Site-specific Erosion and Sediment Control Plans are to be prepared for each site and are contained within the Construction Soil and Water Management Sub-Plan (CSWMP), Appendix B8 of the CEMP.

The majority of ancillary facilities are not characterised by significant undulating topography and the soil erosion hazard is unlikely to be significant.

There is low potential for acid sulfate soils to be encountered.

No earthworks are required at the AF10 facility as it is an existing facility.

5.8 Flooding

Figure 5-3 below illustrates the flooding extents under normal conditions during a 20-year ARI flood event. Based on the existing flood mapping, none of the Ancillary Facilities are located within the 20 year ARI flood zone. There is potential for some localised flooding within the property that the ancillary facilities is located within (ie. at the locations of existing farm dams). The Ancillary Facilities will be

positioned out of the existing drainage alignments to ensure that water flow is not impeded. Access installed to the facilitate access will not impede water flow within the existing drainage lines.

5.9 Contamination

None of the ancillary facilities identified within this SEMP are located within Areas of Environmental Interest (AEI) with regards to contaminated land. AF3 is located adjacent to a potential area of existing fill as shown in Figure 5-4.

Key contamination risks within the ancillary facility include handling of hazardous material within the ancillary facility boundary and refuelling activities. No existing contamination risks have been identified within the existing property.

If any unexpected contamination (including asbestos) are encountered, works potentially affecting the find will cease immediately and the Unexpected Contaminated Land and Asbestos Finds Procedure (Appendix B3 of the CEMP) will be followed. A suitable area will be identified by CPBGG JV for the temporary stockpiling of unexpected waste materials.

No earthworks are required at the AF10 facility as it is an existing facility. Areas where AF17, CAF 001 – CAF 008 crushing facilities will be placed and progress into natural soils and no unexpected, contaminated land finds are anticipated.

If contamination is present and not appropriately controlled, there is the potential for:

- Inhalation and/or ingestion risk to site workers and nearby residents of hazardous building materials via dust
- Cross contamination associated with incorrect handling or disposal of spoil/unexpected finds
- Excavation activities mobilising and spreading buried contaminants
- Accidental leaks and spills while using land for ancillary facilities
- Erosion and off-site transport of sediment and contamination via overland flow and stormwater runoff, affecting the water quality of local waterways.

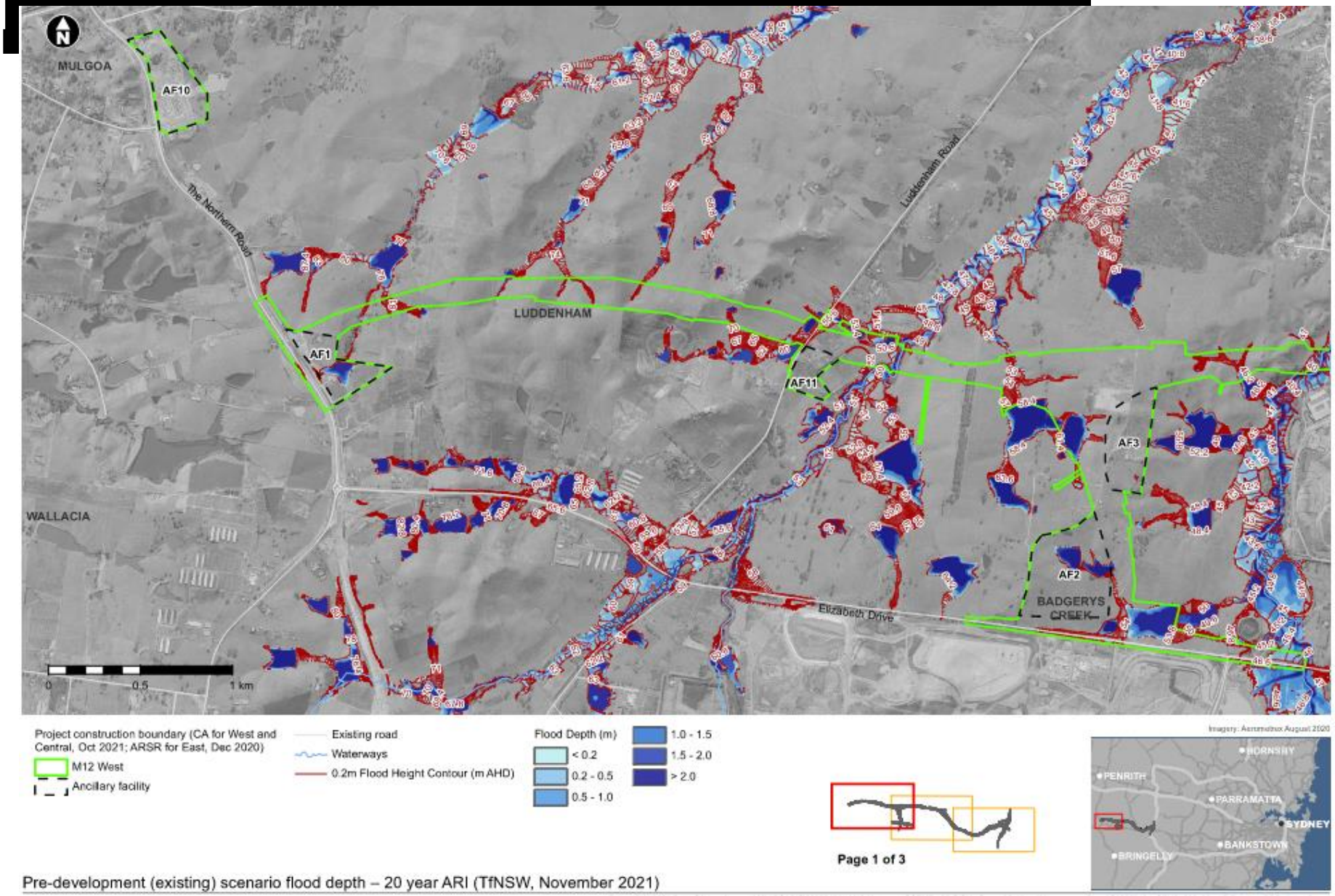
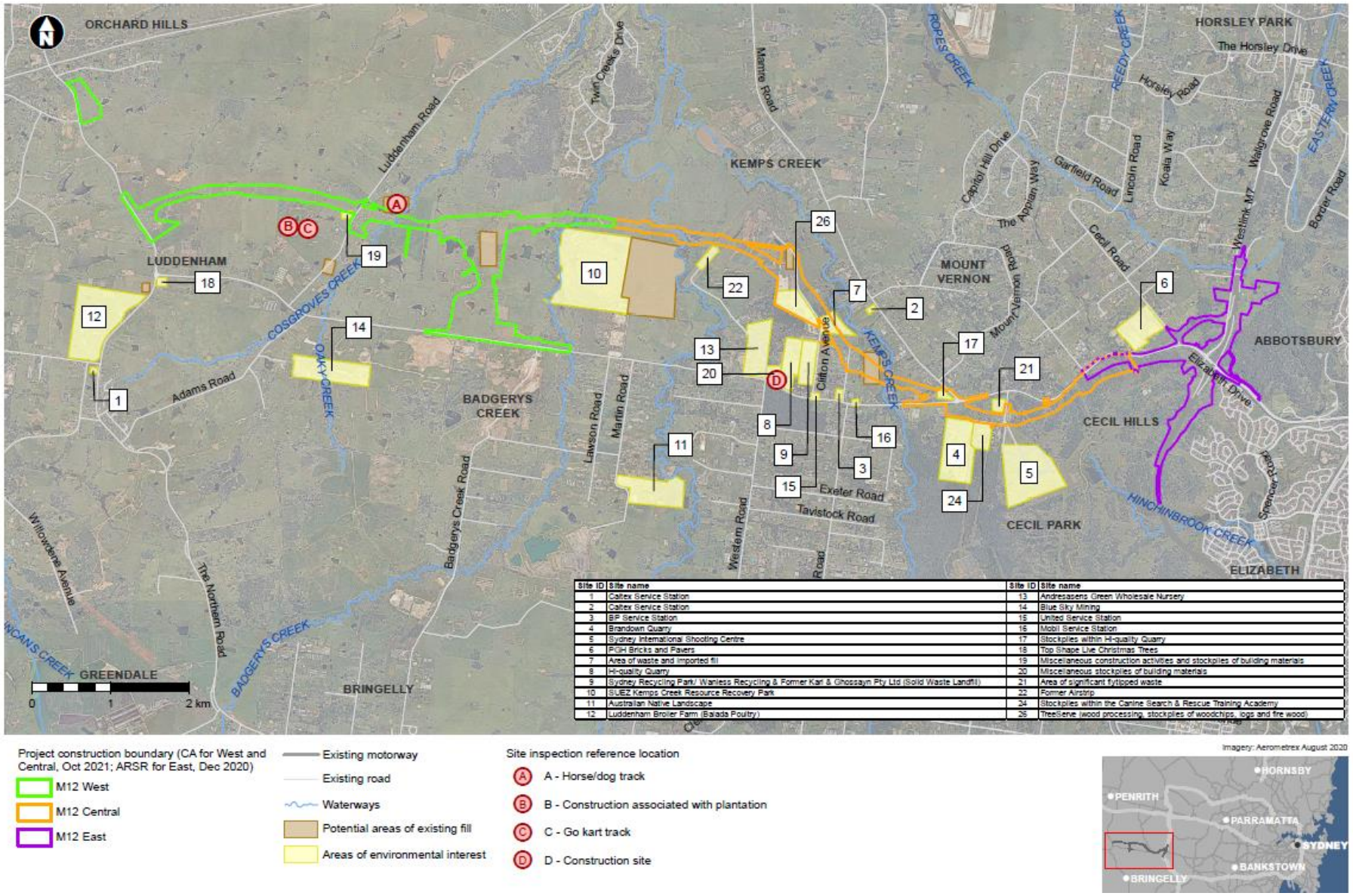


Figure 5-3 Existing conditions during a 20 year ARI flood event



Site ID	Site name	Site ID	Site name
1	Caltex Service Station	13	Andreasens Green Wholesale Nursery
2	Caltex Service Station	14	Blue Sky Mining
3	BP Service Station	15	United Service Station
4	Brandown Quarry	16	Mobil Service Station
5	Sydney International Shooting Centre	17	Stockpiles within Hi-quality Quarry
6	PGH Bricks and Pavers	18	Top Shape Live Christmas Trees
7	Area of waste and imported fill	19	Miscellaneous construction activities and stockpiles of building materials
8	Hi-quality Quarry	20	Miscellaneous stockpiles of building materials
9	Sydney Recycling Park/ Wanless Recycling & Former Karl & Ghossayn Pty Ltd (Solid Waste Landfill)	21	Area of significant fly tipped waste
10	SUEZ Kemps Creek Resource Recovery Park	22	Former Airstrip
11	Australian Native Landscape	24	Stockpiles within the Canine Search & Rescue Training Academy
12	Luddenham Broiler Farm (Balada Poultry)	26	TreeServe (wood processing, stockpiles of woodchips, logs and fire wood)

Figure 5-4 Areas of Environmental Interest (West package – Green section)

5.10 Biodiversity

5.10.1 Flora and Fauna

No native vegetation clearing is required as part of the establishment of ancillary facilities. The only vegetation that currently exists in these ancillary facility locations comprises largely grass, with a very limited number of trees and some planted garden hedges/shrubs present. As far as practical, ancillary facilities will be configured so as to not directly impact on trees that would not already be directly impacted by the Project. Storage areas and associated works will be located in cleared and otherwise disturbed areas away from residential areas where feasible and reasonable. Where trees can be retained, exclusion fencing will be erected to protect these trees from construction activities. The proposed temporary ancillary facilities would not result in any increase in the loss of vegetation or habitat, or increase the impact on flora and fauna, as no additional native vegetation removal would be required.

The safeguards outlined in the Project EIS and assessment documentation, and in Appendix A including; pre clearing surveys, ongoing monitoring, erosion and sediment control, and rehabilitation would appropriately manage the risks to flora and fauna associated with the ancillary facilities.

5.11 Heritage

There are heritage items or potential heritage items that have been identified within the vicinity of some of the proposed Ancillary Facilities (eg. AF3).

No sites or potential sites of Aboriginal heritage have been identified within the Ancillary Facility areas within the construction footprint.

No earthworks are required at the AF10 facility as it is an existing facility and no heritage items are located in the AF10 facility area.

The location of AF17, CAF 001 to CAF 008 are within previously the previous rural / residential land use and current construction activities. The locations will have no further impact to Aboriginal and non Aboriginal heritage.

Any potential heritage impacts will be managed in accordance with the environmental management measures listed in Table 6-2.

If any unexpected heritage items (including human remains) are encountered, works potentially affecting the find will cease immediately and the Unexpected Heritage Finds Procedure (Appendix B7 of the CEMP) will be followed.

5.12 Greenhouse gas, resource and waste minimisation

Greenhouse gas emissions relating to site establishment activities at the site are expected to be relatively minor, and typically associated with the use of plant, vehicles and electricity.

Resources used for site establishment works will primarily include construction materials (concrete, asphalt, steel, fuel etc), water and power. The waste generated is expected to be mainly unsuitable fill material and demolition waste.

No additional resources will be required for establishment of AF10, mains power connection is available at the AF10 compound.

Any potential greenhouse gas, resource and waste impacts will be managed in accordance with the environmental management measures listed in Table 6-2. In accordance with NSW CoA E104, a waste tracking register is included in Appendix B5 of the CEMP to track waste movements associated with construction activities.

5.13 Hazard and risk

Potential hazard and risk impacts at ancillary facilities will include accidental spills of fuels and/or chemicals which could result in contamination of soils and/or waterways, mismanagement of contaminated material and emission of gasses from contaminated material.

Additionally, bushfire is an established natural hazard within this landscape and can occur in South-Western Sydney frequently during the summer months. Prolonged dry conditions, hot temperatures, and

low humidity during spring, summer and early autumn are experienced regularly at the ancillary facility sites. Along with wind, these climate features contribute significantly to the behaviour of a fire.

A bushfire hazard exists where there is fuel in the form of vegetation, including grass, scrub, bushes and trees. Construction activities have the potential to generate bushfire risk as a result of activities likely to generate sparks occurring on site. Activities identified as likely to generate sparks include:

- Smoking
- Plant Maintenance
- Driving on site
- Hot works.

Any potential hazard and risks will be managed in accordance with the environmental management and mitigation measures listed in Table 6-2.

6 Site establishment risk assessment and management approach

6.1 Site establishment risk assessment

Risks are assessed in accordance with section 3.2.1 of the CPBGG JV CEMP. The risk assessment has been prepared to assess the key environmental risks associated with the site establishment works for the Ancillary Facilities described in Section 4.

The risk assessment process uses the following three steps to identify the risk level and determine the appropriate management measures required. These steps are shown in Figure 6-1 to Figure 6-3 below

- Step 1. Consequence criteria is used to determine the most credible consequence rating of the risk identified
- Step 2. Likelihood criteria is used to determine the likelihood of that consequence occurring in the circumstances
- Step 3. From these above two steps, determine the risk level using the matrix.

Step 1 - What is the Most Credible Consequence?

Consequence Rating	1 Negligible	2 Minor	3 Moderate	4 Major	5 Substantial
Safety and Health	First Aid Treatment (or No treatment)	Medical Treatment Injury	Lost Time Injury	Permanent Injury (Paraplegia, Amputation)	Fatality (Single or multiple)
Environment and Heritage	Small, contained localised impact / Low level repairable damage	Short lived, well contained environmental impact / Minor remedial action required	Medium term, contained impact / Significant remedial action required	Impacts extend off-site / external ecosystem. Considerable remediation required	Lonr Term irreversible damage / Long Term Remediation required
Plant Damage	Little or No Damage	Damage less than $15,000	Damage between $15,000 and $50,000	Damage between $50,000 and $100, 000	Damage greater than $100, 000
Reputation	Brief local negative media coverage.	Local negative media coverage. Site or project problem.	Regional/short negative media coverage. Loss of Client / project.	Sustained national negative media coverage. Loss of long term key client.	International negative media coverage. Loss of business from key sector.
Time	Delay / Business interruption <1% of program days	Delay / Business interruption between 1%-3% of program days	Delay / Business interruption between 4%-6% of program days	Delay / Business interruption between 7%-10% of program days	Delay / Business interruption >10% of program days
Cost	Additional cost to the business / project <1% revenue	Additional cost to the business / project between 1%-3% revenue	Additional cost to the business / project between 4%-6% of revenue	Additional cost to the business / project between 7%-10% of revenue	Additional cost to the business / project >10% of revenue

Figure 6-1 Consequence criteria

Step 2 - What is the likelihood of that Consequence occurring in the circumstances?

Likelihood Ranking				
Score	Description		Percentage	Expected Frequency
5	Almost Certain	Common / Frequent Occurrence	Can be expected to occur 75% - 99%	More than 1 event per month
4	Likely	Is known to occur or "It has happened regularly"	Can quite commonly occur 50% - 75%	More than 1 event per year
3	Possible	Could occur or "I've heard of it happening"	May occasionally occur 25% - 50%	1 event per 1 to 10 years
2	Unlikely	Not likely to occur very often	May infrequently occur 10% - 25%	1 event per 10 to 100 years
1	Rare	Conceivable but only in exceptional circumstances	May occur in exceptional circumstances 0% – 10%	Less than 1 event per 100 years

Figure 6-2 Likelihood Criteria

A Risk Rating Table (Figure 6-3) is used to evaluate the severity of the risk for each environmental aspect. As shown, the matrix axes are those of likelihood and consequence using the measures given above. A scale of consequences from 1 to 5 is used to indicate increasing severity. The consequences are potential outcomes as a result of a hazard occurring. The severity of the risk determines the level of management action required as detailed in Table 6-1.

Step 3 – Determine the Risk Level

Determine the risk score by combining most credilble consequence with likelihood

Likelihood	Consequence	Negligible	Minor	Moderate	Major	Substantial
	Rating	1	2	3	4	5
Almost Certain	5	5 (Low)	10 (Moderate)	18 (Very High)	23 (Extreme)	25 (Extreme)
Likely	4	4 (Low)	9 (Moderate)	17 (Very High)	20 (Very High)	24 (Extreme)
Possible	3	3 (Low)	8 (Moderate)	13 (High)	19 (Very High)	22 (Very High)
Unlikely	2	2 (Low)	7 (Low)	12 (High)	15 (High)	21 (Very High)
Rare	1	1 (Low)	6 (Low)	11 (Moderate)	14 (High)	16 (High)

Figure 6-3 Risk Level Matrix

Table 6-1 Risk severity

Risk Severity	Management Required
Extreme	Approval to work cannot be given. A work method that has a lesser residual risk must be used.
Very High	Immediate management action required. EWMS approved by the BU Environmental Manager. Supervision must be present whilst the activity is being undertaken.
High	Priority management action warranted. An EWMS or SEP must be approved by ESR. Daily inspection by Supervisor completed.
Moderate	Management action warranted.
Low	Management action should be considered, particularly for low-level impacts that nevertheless occur on a continual basis.

The hazards and risk assessment uses Table 6-1 to consider the potential consequences, probability and risk of several hazards and allows management of specific risks to be prioritised. The risk rankings were developed further by taking control and mitigation measures into consideration and providing a subsequent risk ranking based on the implementation of these measures.

Specific measures and requirements to meet the objectives of this SEMP and to address impacts resulting from the ancillary facilities are outlined in Table 6 2.

Table 6-2 Site establishment initial risk assessment

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation

Site preparation works:
• Provision of site security such as perimeter hoarding, signage
• Provision of WHS requirements including:
  ○ Toilet facilities
  ○ Offices
  ○ Lunch rooms
• Survey and site investigation work
• Phase 2 contamination investigation
• Site establishment works
• Site access and environmental controls including:
  ○ Erosion and sediment controls
  ○ Further site investigations (utility and geotechnical)
  ○ Treatment of contaminated materials (if required)
  ○ Delineation of sensitive areas and temporary fencing
	Failure to obtain external approvals to commence site establishment	Unlikely	Major	15 (High)	• SEMP Approval by DPE prior to use of ancillary facilities
					• Hold Point (G1)
						TfNSW	Unlikely	Minor	7 (Low)

	Accidental clearing outside of boundary of the ancillary facility	Possible	Moderate	13 (High)	• Daily pre-start outlining the vegetation areas to be cleared • Clearing will be undertaken in accordance with the staged Vegetation Clearing Procedure (Appendix A of the CFFMP). • All site personnel to undertake site inductions outlining no vegetation or tree removal will be undertaken without prior approval • Exclusion zones will be established in accordance with flora and fauna management measures in Appendix A. • Exclusion zones will be delineated with flagging (or similar) in accordance the Flagging Protocol (Vegetation Clearing Procedure (Appendix A of the CFFMP)	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)
	Impacts on unexpected	Unlikely	Moderate	12 (High)	• Toolbox talks/inductions regarding the potential for	CPBGG JV (e.g. Project Manager,	Rare	Moderate	11 (Moderate)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
○ Signage and pedestrian diversions ○ Installation of traffic barriers ○ Installation of site perimeter fencing and gates (formalisation of access and egress points) • Utilities and ground works ○ Demolition of non-heritage structures ○ Clearing and grubbing ○ Site levelling, grading and compaction (including fill importation) ○ Protection of existing services ○ Removal of redundant utilities ○ Installation of services to the site (e.g. water, sewer, power, communications)	threatened species				unexpected threatened species • Threatened species surveys prior to site establishment activities performed by a suitably qualified ecologist (if required). • Implementation of the Unexpected Threatened Species or EEC Finds Procedures in accordance with Guide 1 of the *Biodiversity Guidelines* (RTA, 2011), TfNSW specifications, Appendix B of the CFFMP (Appendix B2 of the CEMP).	Construction Manager, Superintendent, ESR)			
	Spreading of noxious weeds via personnel, plant / equipment, topsoil / mulch	Possible	Moderate	13 (High)	• Toolbox talks/inductions regarding the location and treatment of weeds • Works will be carried out such that no noxious weeds are imported to the site or around the site including the washing of wheels of all plant prior to transportation to site • Hygiene protocols outlined in the Weed and Pathogen Management Plan (Appendix C of the CFFMP) will be implemented throughout site clearing activities.	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
○ Site layout (e.g. blockwork and foundations completed for office installation) ○ Sealing of hard stand areas (excluding acoustic sheds) ○ Internal haul roads installed ○ Minor stockpiling of materials • Installation of offices ○ Installation of office blocks and shipping Containers ○ Staff amenities ○ Crane movements for heavy objects including site offices	Generation of dust	Likely	Moderate	17 (Very High)	• Site establishment activities with the potential to generate dust will be modified or ceased during high winds to reduce the potential for dust generation • Access roads will be maintained and managed to reduce dust generation • Temporary stockpiles that have the potential to result in dust generation will be minimised at all times and comply with RMS – Stockpile Site Management Guideline (May 2015) in accordance with CSWMP (Appendix B8 of the CEMP) • During high wind and/or dry conditions, programming of dust generating activities is to be considered in order to reduce nuisance to neighbouring properties • Compact, seal or cover ancillary facility surfaces • Adequate dust suppression will be available and applied where required e.g., watercart, misters	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Likely	Minor	9 (Moderate)
	Bushfire	Possible	Substantial	22 (Very High)	• Prepare and implement a WHSMP that incorporate	CPBGG JV (e.g. Project Manager,	Rare	Substantial	16 (High)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					measure to manage and mitigate bushfire risk • All site personnel are inducted on bushfire hazards and how they are to be managed • Flammable materials will be appropriately stored in accordance with AS1940 and the SDS. • Hazardous materials will be appropriately bunded with a volume of 110 per cent of the largest receptacle • All works involving a fire source will have a hot works permit in place with specific controls to prevent fire risk • No smoking (including e-cigarettes) will be allowed on site except at designated areas. Dedicated butt disposals will be located in all designated smoking areas • Cutting, welding or grinding will not be undertaken on total fire ban days, unless the works takes place in an area at least 50 metres away from an ignition source and appropriate fire controls are in place.	Construction Manager, Superintendent, ESR)			

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• Vehicles will not be driven or idled in areas of long grass on fire ban days or after prolonged periods of dry weather. • Mulch stockpiles will be monitored and turned over as required to avoid spontaneous combustion. • Ancillary Facilities are to be maintained in a tidy and orderly manner.				
	Erosion and sedimentation impacting nearby dams or downstream watercourses due to exposed land, inadequate controls or control failure	Likely	Moderate	17 (Very High)	• Erosion and Sediment Control Plans (ESCPs) will be prepared by CPBGG JV for all work and implemented in advance of site disturbance • All site personnel will undergo a site induction and ongoing toolbox talks outlining erosion and sediment control management measures • EWMS will be prepared for high risk activities • Hardstand areas and surrounding public roads will be cleaned as required, using methods such as street sweepers • A soil conservationist will be engaged to provide advice regarding erosion and sediment control	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Possible	Minor	8 (Moderate)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• In addition to the above mitigation measures management measures from Appendix A will be implemented. • Hardstand areas and surrounding public roads will be cleaned as required using methods such as brooms, bobcat attachments or street sweepers				
	Complete or partial loss of an unexpected heritage item while undertaking general earthworks.	Possible	Moderate	13 (High)	• Any excavations, intrusive works or other operations that have the potential to impact areas of known heritage, cultural or archaeological items must not be undertaken • Any item of potential Aboriginal archaeological/cultural heritage conservation significance, or human remains discovered during the site establishment works will be managed in accordance with the Unexpected Finds Procedure provided in Appendix B7 of the CEMP. • A heritage induction will be delivered to all workers which will cover the Unexpected Heritage Items procedure	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Rare	Moderate	11 (Moderate)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• Area fenced off with permit for entry				
	Inappropriate disposal of waste (including, vegetation and contaminated materials) or disposal at an unlicensed waste facility	Possible	Moderate	13 (High)	• All site personnel working on-site will undergo a site induction that will detail waste and resource management measures • Additional targeted toolbox talks will be given on waste disposal as required • HAZMAT surveys will be undertaken and removal of asbestos will be undertaken prior to demolition activities (if required) • Suitably licensed waste contractors will be used for the collection and transport of all waste for either offsite processing and/or disposal to an appropriately licensed facility. Receipts for waste transfer and disposal will be checked to ensure all details are correct and retained for audit purposes. • Site inspections undertaken on a regular basis to ensure disposal practices are being adhered to. • In addition to the mitigation measures specified above, the disposal of waste will	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Rare	Moderate	11 (Moderate)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					be managed in accordance with Appendix A.				
	Traffic impacts on local roads	Possible	Minor	8 (Moderate)	• Undertake community notifications prior to works commencing which highlight any potential traffic impacts • Designated haul routes will be used, as identified in the Environmental Assessment Documentation, including the [redacted] and [redacted] for heavy vehicles • Measures identified in the Traffic Control Plan (TCP) (if developed) will be implemented • Drivers will be inducted on the haulage roads (eg the use of [redacted] and avoidance of other local roads • In addition to the above mitigation measures management measures from Appendix A will be implemented.	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)
	Tracking of mud from site on public roads	Possible	Minor	8 (Moderate)	• Site exit points will be fitted with appropriate controls to limit tracking of material out of site as soon as possible to limit the amount of material transported off site. Controls may include hardstand material; wheel	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					washes; rumble grids; rip rap etc. • Street sweepers will be used to manage sediment/mud tracking.				
	Noise and vibration impacts to sensitive receivers	Possible	Minor	8 (Moderate)	• Maximise works during the standard construction hours • All construction plant and equipment used on site will be fitted with properly maintained noise suppression devices in accordance with the manufacturer's specifications. • Erection of temporary acoustic barriers will be undertaken, where required • Community updates will be provided throughout the site establishment works, when necessary • Activities that result in high noise impacts will be subject to respite periods as outlined in NSW CoA E37 and NSW CoA E45-E47. • The Noise and Vibration Monitoring Program prepared by TfNSW and provided in Appendix B4 (CNVMP) will be implemented throughout	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					the duration of site establishment activities. • In addition to the above mitigation measures management measures from Appendix A will be implemented.				
	Contamination of soil or water due to a spill or leak from plant/equipment or chemicals required for construction purposes	Possible	Moderate	13 (High)	• Hazardous substance handling and use will be conducted away from drainage, stormwater lines and waterways and, wherever possible, within defined bunds • Safety Data Sheets (SDS) will be obtained for dangerous goods and hazardous substances stored onsite before their arrival • All site personnel will be responsible for ensuring that refuelling undertaken on site will be undertaken in designated areas only, outside riparian areas and well away from drainage, stormwater inlets or waterways • Hazardous materials will be stored on drip trays or have secondary containment and be located at least 30m from the dam.	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Possible	Minor	8 (Moderate)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• Hazardous materials will be appropriately bunded with a volume of 110 per cent of the largest receptacle • Any spills or leaks will be immediately contained and absorbed • Spill kits will be placed at strategic locations (e.g. access points, plant/ machinery storage areas) • In addition to the above mitigation measures management measures from Appendix A will be implemented.				
	Impacts on visual amenity i.e. light spill	Possible	Minor	8 (Moderate)	• Lights will be located as far away as possible and directed away from neighbours/sensitive receivers • Boundary screening will be installed in accordance with NSW CoA A21 and A22 • In addition to the above mitigation measures management measures from Appendix A will be implemented.	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)
	Missed opportunities to maximise the beneficial re-use of waste	Possible	Minor	8 (Moderate)	• Resource recovery will be applied to the management of waste and will include the recovery of resources for reuse-reusable	CPBGG JV (e.g. Project Manager, Construction Manager,	Possible	Negligible	3 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					materials generated by the site establishment and will be segregated for reuse on site, or off site, where possible • Recovery of recyclable resources generated during site establishment • Recovery of resources for reprocessing, such as the onsite mulching of cleared vegetation for use in landscaping use, in the absence of a higher beneficial use being identified • Segregation of resources for recycling for effective processing at recycling facility • Prior to the commencement of clearing, a Reuse strategy will be prepared by CPBGG JV detailing practicable options to reuse native trees or vegetation that are to be removed (refer to CFFMP).	Superintendent, ESR)			
Site facilities operation (minor ancillary facilities)	Traffic impacts on local roads	Possible	Minor	8 (Moderate)	• Designated haul routes will be used, as identified in the Environmental Assessment Documentation, including [redacted] and [redacted] for heavy vehicles	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• Measures identified in the Traffic Control Plan (TCP) (if developed) will be implemented • Drivers will be inducted on the haulage roads (eg the use of [redacted] and avoidance of other local roads • In addition to the above mitigation measures management measures from Appendix A will be implemented.				
	Tracking of mud from site on public roads	Possible	Minor	8 (Moderate)	• Site exit points will be fitted with appropriate controls to limit tracking of material out of site as soon as possible to limit the amount of material transported off site. Controls may include hardstand material; wheel washes; rumble grids; rip rap etc. • Street sweepers will be used to manage sediment/mud tracking.	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)
	Impacts on visual amenity i.e. light spill	Possible	Minor	8 (Moderate)	• Lights will be located as far away as possible and directed away from neighbours/sensitive receivers • Boundary screening will be installed, where appropriate, in accordance	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					with NSW CoA A21 and A22 • In addition to the above mitigation measures management measures from Appendix A will be implemented.				
	Noise and vibration impacts to sensitive receivers	Possible	Minor	8 (Moderate)	• Maximise works during the standard construction hours • All construction plant and equipment used on site will be fitted with properly maintained noise suppression devices in accordance with the manufacturer's specifications • Erection of temporary acoustic barriers will be completed, where required • Community updates will be provided throughout the site establishment works, when necessary • Activities resulting in high noise impacts will be subject to respite periods as outlined in NSW CoA E37 and E45-E47 • The Noise and Vibration Monitoring Program (Appendix B4 of CEMP) will be implemented throughout the duration of site establishment activities	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Unlikely	Minor	7 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• In addition to the above mitigation measures management measures from Appendix A will be implemented.).				
	Generation of dust	Unlikely	Moderate	12 (High)	• Access roads will be maintained and managed to reduce dust generation • Temporary stockpiles that have the potential to result in dust generation will be minimised at all times and comply with RMS – Stockpile Site Management Guideline (May 2015) in accordance with SW2 (Appendix B8 of the CEMP) • During high wind and/or dry conditions, CPB will ensure programming of dust generating activities is to be considered in order to reduce nuisance to neighbouring properties • Adequate dust suppression will be available and applied where required e.g., watercart, misters • In addition to the above mitigation measures management measures from Appendix A will be implemented..	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Rare	Moderate	11 (Moderate)
	Generation of odour	Unlikely	Minor	7 (Low)	• It is not anticipated that any odour will be generated as	CPBGG JV (e.g. Project	Rare	Minor	6 (Low)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					a result of the operation of the facilities • In the event odour is identified, the source of odour will be identified and action taken to address the issue.	Manager, Construction Manager, Superintendent, ESR)			
	Contamination of soil or water due to a spill or leak from plant/equipment or chemicals	Possible	Moderate	13 (High)	• Hazardous substance handling and use will be conducted away from drainage, stormwater lines and waterways and, wherever possible, within defined bunds • Safety Data Sheets will be obtained for dangerous goods and hazardous substances stored onsite before their arrival • All site personnel will be responsible for ensuring that refuelling undertaken on site will be undertaken in designated areas only, outside riparian areas and well away from drainage, stormwater inlets or waterways • Hazardous materials will be stored on drip trays or have secondary containment. • Storage of chemicals, fuel and lubricant will be 50 m from any drainage line, aquatic habitat, flood prone	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Possible	Minor	8 (Moderate)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					areas, and not on slopes steeper than 1:10. • Hazardous materials will be appropriately bunded with a volume of 110 per cent of the largest receptacle • Any spills or leaks will be immediately contained and absorbed • Spill kits will be placed at strategic locations (e.g. access points, plant/ machinery storage areas) • In addition to the above mitigation measures management measures from Appendix A will be implemented.				
	Bushfire	Possible	Substantial	22 (Very High)	• Prepare and implement a WHSMP that incorporate measure to manage and mitigate bushfire risk • All site personnel will be inducted on bushfire hazards and how they are to be managed • Hazardous materials will be appropriately bunded with a volume of 110% of the largest receptacle • All works involving a fire source will have a hot works permit in place with specific controls to prevent fire risk.	CPBGG JV (e.g. Project Manager, Construction Manager, Superintendent, ESR)	Rare	Substantial	16 (High)

Activity	Potential Impact	Likelihood	Consequence	Risk level prior to mitigation	Mitigation Measure	Responsibility	Likelihood	Consequence	Risk level following mitigation
					• No smoking (including e-cigarettes) will be allowed on site except at designated areas. Dedicated butt disposals will be located in all designated smoking areas. • Cutting, welding or grinding will not be undertaken on total fire ban days, unless the works takes place in an area at least 50 metres away from an ignition source and appropriate fire controls are in place • Vehicles will not be driven or idled in areas of long grass on fire ban days or after prolonged periods of dry weather				

Ongoing environmental risk and opportunities identification will be a key consideration during all Project risk assessments, as per our Risk Management Plan, including:

- Project Risk Register
- Construction Area Plan (CAP) risk assessments
- Work Packs, including Work Pack Risk Assessment
- Environmental Work Method Statements (EWMS) which address environmental risks (as applicable)
- Pre-start meetings.

CPBGG JV will prepare the risk assessment and planning documents as detailed above to ensure the Project is constructed safely, that we minimise environmental impacts and comply with Approval, licence and contractual obligations. Our robust process will include a cross-functional review and sign-off at key stages.

6.2 Site Establishment Management Approach

6.2.1 Environmental Management System

This SEMP utilises the CPB Contractors' Management System (CMS) and the requirements of the CSSI approval. The CMS is certified to AS/NZS ISO 14001:2015 Environmental management systems – requirements with guidance for use.

The CMS has been developed and implemented to ensure a consistent approach to Project delivery, and comprises the following components:

- Policies – statements of strategic intent and commitment. They define the mandatory requirements CPBGG JV expects at all levels of the Project organisation.
- Project Management Plan – outlines how the Project will be managed and supported by a suite of functional management plans.
- Procedures and Work Instructions – specify how to undertake and control specific activities. They define roles and accountabilities and list the tools or knowledge documents to be used.
- Tools – pre-formatted documents such as forms and templates that are required to be completed as part of a Procedure.
- Knowledge documents – reference material which provides context, additional information or guidance to a Policy or Procedure.
- Business Applications – Business Applications are the software tools used to manage our business and support operations.

6.2.2 Site Establishment Management Plan

This SEMP has been prepared for the Project to outline the environmental management practices and procedures that are to be followed during the ancillary facility site establishment phase of the Project.

The SEMP outlines specific environmental management and mitigation measures identified to address potential impacts for a range of environmental factors in accordance with NSW CoA A16.

The SEMP must be submitted to the Secretary of DPE for approval prior to commencement of site establishment works. Operation and decommission of the ancillary facilities would be managed in accordance with the approved CEMP and sub-plans as per NSW CoA C1.

6.2.3 Site Environmental Plans

A Site Environment Plan (SEP) is an internal construction document prepared to assist in the planning and management of specific areas. Environmental and socially sensitive areas including vegetation, heritage, sensitive receivers, waterways and contamination may be included in an SEP.

A series of SEPs will be prepared prior to the establishment of ancillary facilities. These SEPs will be used to inform construction planning and will be included in applicable Work Packs, which consist of relevant construction documents to assist supervisors to manage specific packages of work. The SEPs will serve as a simple but effective tool to identify key risk areas and to promote ongoing communication to construction personnel throughout the Project.

Leveraging the Sensitive Area Plans (Appendix C), the SEPs will be used in conjunction with Environmental Work Method Statement (EWMS) to identify key risk areas and detail management and mitigation measures to be implemented by construction personnel. The SEPs are considered to be live documents and will be regularly reviewed to reflect the ground conditions and any new environmentally sensitive areas.

6.2.4 Environmental Work Method Statement

Environmental Work Method Statements (EWMS) will be prepared for activities within or near environmentally sensitive areas and will include protection measures that minimise the risk of impacting the sensitive areas.

The requirement for EWMS is directed by TfNSW Specification G36 – Environmental Protection and by the ESR for those activities deemed to carry an inherent level of environmental risk.

Appropriate EWMS will be prepared prior to the establishment of ancillary facilities and will incorporate relevant mitigation measures and controls from this document. As a minimum, EWMS will include (G36):

- A description of the work activity, including any plant and equipment to be used
- An outline of the sequence of tasks for the activity, including interfaces with other construction activities
- Identification of any environmental and/or socially sensitive areas, sites or places
- Identification of potential environmental risks/impacts due to the work activity
- Mitigation measures to reduce the identified environmental risk, including assigned responsibilities to site management personnel
- Process/es for assessing the performance of the implemented mitigation measures.

Each EWMS will be reviewed by the relevant Project Manager and then approved by the project ESR.

Relevant conditions of the EWMS will be incorporated into Work Packs as required.

Further details on EWMS is provided in section 3.2.5 of the CEMP.

6.2.5 Utilities Management Strategy

Utility works required for ancillary site establishment will be undertaken in line with the Projects Utilities Management Plan (UMP).

Under the Infrastructure Approval for the Project, utility works may or may not be captured within the definition of construction. Utility works being undertaken for the establishment of ancillary facilities under this SEMP would be relatively low scale and low impact. Residents will be informed prior to any planned changes / interruptions to access/utilities. Specific environmental risk assessment and management and mitigation measures would require the approval of the ER prior to the commencement of works.

6.2.6 Erosion and Sediment Control Plan

Initial site establishment preliminary erosion and sediment control plans (ESCPs) will be prepared for all ancillary facilities prior to site establishment activities.

Preliminary ESCPs contain site specific details including identification of indicative locations for sediment basins, clean and dirty water flow paths, critical drainage infrastructure, site boundary and compound areas. These plans will be developed as the Project progresses and as the site conditions evolve to meet construction and permanent facilities requirements.

The ESCPs will incorporate the following:

- Location of erosion, sedimentation and water quality control measures proposed to treat stormwater before disposal
- Layout of the site cleared and protected areas and stockpiling areas
- Construction period and staging.

Information relevant to the preparation of the ESCPs will be obtained from Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom 2006) (the Blue Book) and Volume 2D Main Roads Construction (DECCW 2008) and site-specific soil data.

Environmental personnel, in consultation with the Superintendent/Foreman and ESR, will prepare and update the progressive ESCPs.

A soil conservation specialist will be engaged by both TfNSW and the CPBGG JV for site establishment and the duration of construction.

The impacts on soil and water quality will be managed through these controls and the additional environmental safeguards in Appendix A of this SEMP. With these controls in place, the project should not significantly impact on soil and surface water during site establishment.

6.2.7 Construction Noise and Vibration

A desktop assessment, using Roads and Maritime Services Noise Estimator Tool, was undertaken to determine the potential impacts during establishment and operation of the facilities to the nearest receiver (the CNVIS). This assessment has been used to determine required noise mitigation measures including noise attenuation structures like hoarding. The recommended noise mitigation measures derived from Noise Estimator Tool are aligned with recommendations in the Roads and Maritime Construction Noise and Vibration Guideline 2016 and the Interim Construction Noise Guideline (DECC, 2009). The results are summarised in Table 6-3 below. Noise mitigation measures will not be required for any works within standard construction hours as the predicted noise levels will be under the NML's. Consultation will be undertaken with nearby residents notifying them of upcoming works and to keep them informed of the ancillary facility establishment and operation.

AF10 has already been established as part of a previous TfNSW road project and will be utilised temporarily by office personnel until such time as the other facilities (AF2 and 11) become available. As shown below, the nearest sensitive receiver is >150m away from the ancillary facility.

Table 6-3 Noise assessment for the site establishment and operation of ancillary facilities

Nearest Sensitive Receiver	Distance to CPBGG JV Ancillary Facility (m)	Predicted Noise Level (dB(A))	Noise Management Level (dB(A))	Recommended noise mitigation measures
Ancillary Facility Site Establishment				
[redacted] Luddenham	180m (AF1)	50	59 (Day) 54 (Evening) 46 (Night)	Predicted noise levels are within the NMLs for daytime and evening activities. Standard noise mitigation measures to be applied as per Appendix A Out of Hours works only to occur if compliant with CoA in accordance with the CoA E37, the EPL and the Interim Construction Noise Guideline (DECC, 2009).
[redacted] Badgerys Creek	184m (AF2)	49	52 (Day) 44 (Evening) 38 (Night)	Predicted noise levels are within the NMLs for daytime activities. Standard noise mitigation measures to be applied as per Appendix A Out of Hours works only to occur if compliant with CoA in accordance with the CoA E37, the EPL and the Interim Construction Noise Guideline (DECC, 2009).
[redacted] Badgerys Creek	689m (AF3)	32	52 (Day) 44 (Evening) 38 (Night)	Predicted noise levels are within the NMLs. Standard noise mitigation measures to be applied as per Appendix A.
[redacted] Luddenham	213m (AF11)	47	50 (Day) 41 (Evening) 36 (Night)	Predicted noise levels are within the NMLs for daytime activities. Standard noise mitigation measures to be applied as per Appendix A Out of Hours works only to occur if compliant with CoA in accordance with the CoA E37, the EPL and the Interim Construction Noise Guideline (DECC, 2009).
[redacted] Luddenham	100m (AF17)	47	50 (Day) 41 (Evening) 36 (Night)	Predicted noise levels are within the NMLs for daytime activities. Standard noise mitigation measures to be applied as per Appendix A
Ancillary Facility Operation				
[redacted] Luddenham	180m (AF1)	45	59 (Day) 54 (Evening) 46 (Night)	Predicted noise levels are within the NMLs. Standard noise mitigation measures to be applied as per Appendix A.
[redacted] Badgerys Creek	184m (AF2)	44	52 (Day) 44 (Evening) 38 (Night)	Predicted noise levels are within the NMLs for daytime operation. Standard noise mitigation measures to be applied as per Appendix A Out of Hours works only to occur if compliant with CoA in accordance with the CoA E37, the EPL and the Interim Construction Noise Guideline (DECC, 2009).
[redacted]	689m (AF3)	27	52 (Day) 44 (Evening) 38 (Night)	Predicted noise levels are within the NMLs. Standard noise mitigation measures to be applied as per Appendix A.

Nearest Sensitive Receiver	Distance to CPBGG JV Ancillary Facility (m)	Predicted Noise Level (dB(A))	Noise Management Level (dB(A))	Recommended noise mitigation measures
Badgerys Creek				
[redacted] Luddenham	213m (AF11)	42	50 (Day) 41 (Evening) 36 (Night)	Predicted noise levels are within the NMLs for daytime operation. Standard noise mitigation measures to be applied as per Appendix A Out of Hours works only to occur if compliant with CoA in accordance with the CoA E37, the EPL and the Interim Construction Noise Guideline (DECC, 2009).
[redacted] Luddenham	145m (AF10)	47	59 (Day) 54 (Evening) 46 (Night)	Predicted noise levels are within the NMLs for daytime and evening operation. Standard noise mitigation measures to be applied as per Appendix A Out of Hours works only to occur if compliant with CoA in accordance with the CoA E37, the EPL and the Interim Construction Noise Guideline (DECC, 2009).
[redacted] Luddenham	100m (AF17)	47	50 (Day) 41 (Evening) 36 (Night)	Predicted noise levels are within the NMLs for daytime activities. Standard noise mitigation measures to be applied as per Appendix A

Site establishment works will occur during standard construction hours or approved extended hours where possible, however some works may be required outside these hours. Should out of hours works be required, the Out-of-Hours Work Protocol provided in Appendix B of the CNVMP is to be followed. The OOHW has been prepared in accordance with NSW CoA E37, for works which is outside of standard working hours and that are not subject to an EPL. The Out-of-Hours Work Protocol requires that mitigation measures for residual noise and vibration impacts on the community are selected and implemented in consultation with the community at each affected location.

A Noise and Vibration Impact Statement (NVIS) will be prepared by CPBGG JV for any work that may exceed the noise management level (NML) and vibration criteria specified in NSW CoA E38 at any residence outside the construction work hours, or where receivers will be highly noise affected. The CNVIS will include specific mitigation measures identified through consultation with affected sensitive receivers. Specific mitigation measures detailed within the CNVIS will be implemented along with Project-wide measures identified in Appendix A. The CNVIS will be a document controlled separately to this SEMP or other applicable plans. Therefore, an update to the CNVIS will not require this SEMP to be updated.

The CNVIS will outline mitigation measures identified through consultation with affected sensitive land user(s). The mitigation measures will be implemented for the duration of the work. A copy of the NVIS will be provided to the ER prior to the commencement of the associated work and may be provided to the Planning Secretary for information.

Noise and Vibration management and mitigation measures to be implemented are outlined Table 8-1 of the CNVMP.

The nearest buildings to the ancillary facilities are greater than 100m away and a vibratory roller (<300Kn, typically 7-12 tonnes) is likely to be the most vibration intensive equipment to be used during construction of the ancillary facilities (with the exception of AF3). The safe working distance for a vibratory roller of this size is approximately 15m for cosmetic damage (British Standard BS 7385) and approximately 100m for human comfort (DECCW). The vibratory roller will be used for site establishment activities particularly where compaction activities are required to create hardstand.

As the safe working distances will not be exceeded, structural damage from vibration is unlikely at any adjacent residential buildings. Human discomfort vibration criteria are unlikely to be exceeded, all nearby residents will be notified of the timing and duration of the works through the community consultation.processes.

Assessment of noise and vibration of additional crushing facility locations AF17, CAF 001 – CAF 008 have been provided in Appendix J

6.2.8 Out of Hours Works

All site establishment works including those undertaken outside standard hours will be undertaken in accordance with CoA and EPL (#21595) requirements. In line with CoA E36, the key justification for OOHW during site establishment will include the following:

- Delivery of materials required by the NSW Police Force or other authority for safety reasons
- Where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm
- Where works are deemed low impact as per CoA E36(b)
- Construction hours as permitted by an EPL
- Negotiated agreements with affected residents and land users.

For any proposed OOHW the following process will be undertaken:

1. An OOHW Permit will be prepared that summarises the activities, equipment required, location and duration and includes a detailed justification for works
2. The OOHW Permit will be submitted to the Environment Team, who will undertake a noise and vibration assessment for the OOHW. Predicted noise impacts and appropriate mitigation measures will be determined as per TfNSW CNVG
3. The CPBGG JV ESR will determine whether the justification for the OOHW works is satisfactory
4. Where a negotiated “community” agreement is sought with affected residences / landholders for the OOHW, this agreement will be submitted to the EPA for approval in line with EPL (#21595 E1.2) requirements
5. Community notification will be undertaken.
6. EPA to be notified of all OOHW.

6.2.9 Traffic Management

Road dilapidation reports will be prepared by a suitably qualified person for local roads (and associated infrastructure within the road reserve) proposed to be used by heavy vehicles for works associated with the CSSI, before the commencement of use by such vehicles as described in MCoA E95. A copy of the Road Dilapidation Report will be provided to the relevant council within three weeks of completion of the survey and no later than one month prior to the road being used by heavy vehicles associated with the CSSI.

Any new or modified local roads, parking, pedestrian and cycle infrastructure will be designed to meet relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Management. Reflecting the requirements of MCoA E96, CPBGG JV will minimise block or disrupt property access across pedestrian or vehicular paths at any time. Construction activities will also be planned to minimise disruptions to existing agricultural operations and activities in surrounding properties where feasible and reasonable unless otherwise agreed with the landowner in accordance with REMM SLP07. Ongoing consultation with surrounding landowners will be undertaken in accordance with the OCS and CSEP.

Independent Road Safety Audits will be undertaken to ensure safety performance is aligned with the relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Management. Site access points will only be implemented once the road safety audit is complete and any identified actions have been implemented.

Where required, Traffic Control Plans (TCPs) will be prepared in accordance with the principles and measures outlined in AS1742.3-2009 and TfNSW Traffic Control at Worksites Manual Version 6.

TCPs and ROLs required during ancillary facility establishment may be required for the delivery of oversized items (such as site sheds) and may also be required for demolition activities.

A Traffic Control Plan (TCP) is a diagram identifying signs and devices in specific locations to allow the public and workers at the work site to be safely separated from traffic, while minimising disruption and risk to road users. A TCP generally details:

- Traffic control signage and traffic flow arrangement
- Site establishment boundary
- Speed limits
- Construction traffic access and egress
- Pedestrian and cyclist access for workers and public.

A TCP can only be prepared by someone certified in Work Site Traffic Management Plan as required under legislation.

Where new site access points are required to ancillary facilities, these will only be installed once a site-specific Construction Traffic and Transport Management Plan has been approved.

A wide range of environmental safeguards have been recommended to mitigate the effects of site establishment works on local traffic and transport including scheduling project related transport movements to avoid peak traffic, identifying heavy vehicle routes and communicating these to the drivers (Appendix A). With these environmental safeguards in place, traffic and transport is anticipated to have a low impact.

6.2.10 Parking

During site establishment activities it is expected that all construction vehicles required for site establishment works will park within the construction support sites and therefore will have no impact on on-street parking.

6.2.11 Light Spill

Ancillary facility lighting will be constructed in a manner that minimises light spill and glare impacts on nearby receivers in accordance with REMM LVIA07.

The sites would have some security lighting which may have potential light spill impacts during the evening and night-time period. The security lighting proposed for the site compound will be directed away from any sensitive receivers to ensure any light spill impact minimised.

Lights will be located as far away as possible and pointed away from neighbours and away from sensitive areas such as bedroom windows. If there is no alternative, shields and baffles will be used to help keep light spill to a minimum. All practical and reasonable steps will be taken to mitigate temporary lighting impacts as described in the urban design and visual amenity environmental safeguards listed in Appendix A. Ongoing consultation will be undertaken with affected landowners with regards to the management of light spillage during the operation of the ancillary facilities.

Temporary site lighting, for security purposes or night works, will be installed and operated in accordance with AS4282:1997 Control of the Obtrusive Effect of Outdoor Lighting and relevant Australian Standards in the series AS/NZ 1158 – Lighting for Roads and Public Spaces.

Opportunities to implement sustainability initiatives for lighting (eg. use of energy efficient globes, solar powered generators) will be considered where practicable in accordance with requirements of REMM LVIA07.

All lights will be located within a secure / fenced compound with security arrangements in place including an alarm system and security patrols.

6.2.12 Boundary Screening Approach

NSW CoA A21 and A22 require boundary screening to be erected around all construction ancillary facilities that are adjacent to sensitive receivers for the duration of construction unless otherwise agreed with affected residents, business operators and landowners. This screening must minimise, as far as practicable, the visual impacts on adjacent sensitive receivers.

Chain wire fencing with shade cloth (TfNSW branded) will be erected around all ancillary facilities with lockable gates for security. The template for the TfNSW branding is to be approved by TfNSW. This chain wire fencing with shade cloth will also reduce visual and air quality impacts by providing a barrier

between ancillary facilities and receivers in accordance with NSW CoA E1. This screening will be installed as early as possible within the site establishment phase to provide visual screening.

In accordance with CoA A23, all signage on hoardings surrounding the ancillary facilities will include the CSSI name, application number, telephone number, postal address and email address.

The noise and vibration, air quality, urban design and visual amenity environmental safeguards provided in Appendix A have been provided to avoid, reduce and managed identified potential visual impacts during site establishment.

6.2.13 Contamination

Conditions E85 and E86 require a detailed site investigation followed by the preparation of a Detailed Site Investigation Report prior to the commencement of works that would result in a disturbance of potential or contaminated soils, materials, groundwater or sediment. The Detailed Site Investigation (DSI) Reports will be undertaken by a certified Contaminated Land Consultant and address the requirements of E86. On completion, all DSI Reports will be submitted to the Planning Secretary for information.

If an ancillary facility site is identified during the DSI as requiring remediation, a Remediation Action Plan (RAP) will be prepared and implemented. Remediation works are outside of the scope of this SEMP and will be undertaken in accordance with the Contaminated Land Management Sub-Plan (Appendix B3 of the CEMP).

None of the ancillary facilities identified within this SEMP are located within Areas of Environmental Interest (AEI) with regards to contaminated land, so therefore no DSI's are required. AF3 is located adjacent to a potential area of existing fill.

In the event of encountering unexpected finds of contamination the Unexpected Contaminated Land Finds in Appendix D will be followed.

The contamination environmental safeguards in Appendix A will be implemented during site establishment to minimise risks arising from disturbance and excavation of land and disposal of soil. TfNSW R44 specification requirements regarding the stripping of topsoil are to be followed by CPBGG JV during topsoil stripping operations at the ancillary facilities.

6.2.14 Heritage

If any unexpected heritage items (including human remains) are encountered, works potentially affecting the find will cease and the M12 TfNSW Management Procedure – Unexpected Heritage Finds and Human Remains Procedure (Appendix C of TfNSW CHMP) will be implemented. A copy of this is contained in Appendix D.

6.2.15 Flooding

Ancillary facilities will be laid out such that flows are not significantly impeded. Through the implementation of the environmental safeguards detailed in Appendix A, flood impacts are anticipated to be effectively mitigated.

Where the potential exists for the obstruction of overland flows or increased run-off (as a result of hardstand areas) a contingency plan will be prepared to manage a potential flood event and will outline procedures to reduce risks including worker safety, removal of all plant/equipment and stabilising exposed areas.

A Flood Management Sub-Plan (M12W-CPBGG-ALL-EN-PLN-000010_CFMP) has been prepared for the project outlining the measures required to be implemented to minimise environmental impacts from flooding during construction of the project. The projects Emergency Response Plan contains details of actions required to be undertaken in the event of flooding.

6.2.16 Trees

As far as practical, ancillary facilities will be configured so as to not directly impact on trees that would not already be directly impacted by the Project. Storage areas and associated works will be located in cleared and otherwise disturbed areas away from residential areas where feasible and reasonable. Where trees can be retained, exclusion fencing will be erected to protect these trees from construction activities.

The clearing of vegetation for ancillary facilities will be limited to the minimum amount necessary to construct the Project.

Pre-clearance inspections, hold points and tree clearing would be undertaken in line with TfNSW Specification G40 Clearing and Grubbing. The inspection and relocation of any effected native fauna will be undertaken for both threatened and non-threatened species.

As required by MCoA E15, prior to vegetation clearance and where reuse of native trees and vegetation cannot be removed from the project, consultation with relevant councils, Western Sydney Parklands, Landcare groups and relevant government agencies to determine if there is an interest in the reuse of hollows, tree trunks, logs, mulch, bush rock, root balls, collected plant material, seeds and/or propagated plants could be used for habitat enhancement and rehabilitation work. If there is an interest, then appropriate arrangements will need to be made with interested parties.

7 Compliance management

7.1 Roles and responsibilities

The Project organisational structure and overall roles and environmental responsibilities are outlined in Section 3.3 of the CEMP. Specific responsibilities for the implementation of environmental management measures during site establishment works are detailed in Table 6 3 and Section 3.3 of the CEMP.

7.2 Training

All site personnel (including sub-contractors) will undergo site induction training relating to site establishment management issues prior to site establishment commencing in accordance with section 3.5 of the CEMP. The induction training will address elements related to site establishment management, including:

- Existence and requirements of this SEMP and all plans and procedures prepared under the CEMPs
- Relevant legislation, regulations and conditions of approval
- Incident response, management and reporting
- Environmentally sensitive locations and exclusion zones
- Specific species likely to be affected by the works and how these species can be recognised
- Site flagging protocol
- Erosion and sediment controls
- Fauna rescue requirements
- Boundaries for vegetation clearing
- Fauna and fauna habitat management
- Weed control measures
- General site establishment management measures
- Unexpected finds procedures (heritage, contamination, flora and fauna)
- Specific responsibilities for the protection of site establishment
- All requirements of Appendices contained within this SEMP.

Targeted training in the form of toolbox talks or specific training will also be provided to personnel with a key role in site establishment management or those undertaking an activity with a high risk of environmental impact. Site personnel will undergo refresher training at not less than six monthly intervals.

The ESR will review and approve the induction training program prior to the commencement of construction and monitor implementation.

Daily pre-start meetings conducted by CPBGG JV Foreman/ Site Supervisor will inform the site workforce of any environmental issues relevant to site establishment that could potentially be impacted by, or impact on, the day's activities.

Further details regarding staff induction and training are provided in Section 3.5.3 of the CEMP.

7.3 Licences and permits

A number of approvals, permits and licenses have and/or will be obtained for construction works. The following approvals and licences have been or will be obtained by TfNSW:

- Infrastructure Approval under Part 5, Division 5.2 of the EP&A Act – SSI 9364 granted by the Minister for Planning on 23 April 2021
- A Commonwealth controlled action approval from the Department of Agriculture, Water and the Environment (DAWE) under Part 8 of the EPBC Act – EPBC 2018/8286 granted by the Minister for Environment on 3 June 2021.
- An EPL under Schedule 1 of the Protection of the Environment Operations Act 1997 (POEO Act) for 'road construction' and for 'extractive activity' where the Project meets the criteria. The EPL for the M12 West project will be transferred to CPBGG JV. The EPL has not been issued by the EPA at the time of this SEMP preparation.

7.4 TfNSW QA Hold Points

Table 7-1 Relevant TfNSW QA Hold Points

Document Reference	Hold Point Clause	Description
G1 Job Specific Requirements –M12 Motorway (West)	10	On-site establishment of compound.
	10	On-site establishment of stockpile sites.
	13	Commencement of construction activities
G4	1.3	Submission of details of Principal's project accommodation
G36 Environmental Protection –M12 Motorway (West)	3.1	Submission of amended CEMP and selected CEMS documents
	3.2.2	Evidence of approvals, licences and permits obtained
	3.2.4	Submission of EWMSs
	3.5.2	Submission of Draft Environmental Induction/Training Materials
	3.7.3	Submission of Complaints Management System
	3.10	Verification that environmental nonconformities has been rectified
	4.2.4	Submission of Remedial Action Plan for contaminated land
	4.7	Building Condition Inspection Reports
	4.11	Copy of completed and signed "s.143 Notice" and supporting documents
	4.13	Working in or near environmentally sensitive areas
	4.15.2	Submission of pre-construction land condition assessment report for each area you intend to occupy for your site facilities
G38 Soil and Water Management – M12 Motorway (West)	1.2.7	Submission of evidence of appropriate Erosion and Sediment Control personnel
	2.1.2	Submission of SWMPs
	3.1	Submission of an ESCP(s) and, where required, WQMP for a section of the Work Under the Contract.
	3.9	Commencement of construction of any activities in flood prone areas
G40 Clearing and Grubbing – M12 Motorway (West)	2.4	Submission of Clearing and Grubbing Plan and other required documents prior to clearing any area.
	6.1	Submission of Weed, Pest and Pathogen Management Plan prior to clearing in any area

7.5 Monitoring

Monitoring will be undertaken to validate the impacts predicted for site establishment, to measure the effectiveness of environmental controls and implementation of the CEMP and to address approval requirements. In addition to noise and vibration, and water quality monitoring, CPBGG JV ESR will include an assessment of the ancillary facilities activities against the performance outcomes (outlined in Table 2 1). This will be documented in the Monthly Environmental Report to monitor the environmental performance of the Ancillary Facilities. Requirements and responsibilities in relation to monitoring are documented in Section 3.9 of the CEMP.

In accordance with NSW CoA A16 and the requirements of NSW CoA C14, an Overarching Noise and Vibration Monitoring Program has been developed by TfNSW that includes:

- Noise and vibration monitoring at representative residential and other locations (including at the worst- affected residences), subject to property owner approval, to confirm noise and vibration levels during site establishment and operation
- Noise monitoring during the day, evening and night time periods for the duration of site establishment and operation, covering the range of activities (including worst-case noise management levels) being undertaken
- Method and frequency for reporting monitoring results
- Procedures to identify and implement additional mitigation measures where monitoring indicates noise and/or vibration levels in excess in excess of noise and vibration criteria.

The Overarching Noise and Vibration Monitoring Program was approved by DPIE on 22/12/2021. Monitoring for noise will be undertaken in accordance with this approved monitoring program.

Table 7-2 outlines the proposed monitoring requirements for site establishment activities associated with the establishment of the project's ancillary facilities.

Table 7-2 Monitoring Requirements

Environmental Aspect	Monitoring	Timing / Frequency
Noise	Attended monitoring to assess noise levels against those that were predicted during the desktop assessment.	Monthly
Air Quality – Dust	Visual monitoring of dust generating activities during site establishment earthworks.	During site establishment
Water Quality Discharge	Quality of water being discharged from licenced discharge points during site establishment activities in accordance with NSW CoA and EPL requirements.	Prior to water quality discharge

7.6 Inspections

The ESR (or delegate) will undertake weekly and post rainfall inspections of the ancillary facilities sites to evaluate the effectiveness of environmental controls. The ESR (or delegate) will record inspection findings on the environmental inspection checklist within CPB's Synergy reporting system. If any maintenance and/or deficiencies in environmental controls or in the standard of environmental performance are observed, they will be recorded on the checklist and action assigned to responsible party for completion and close out. Records will also include details of any maintenance required, the nature of the deficiency, any actions required and an implementation priority

Inspections of sensitive areas and activities with the potential to be impacted by site establishment activities will occur for the duration of the construction. Requirements and responsibilities in relation to inspections are documented in Section 3.9 of the CEMP.

7.7 Auditing

7.7.1 Independent audits

Independent audits will be undertaken in accordance with section 3.9.3 of the CEMP.

7.7.2 Internal audits

Internal auditing will be undertaken by CPBGG JV on a six-monthly basis in accordance with section 3.9.3 of the CEMP to verify compliance with:

- This SEMP
- Approval requirements (CoAs and REMMS)
- Any relevant legal and other requirements (e.g. licenses, permits, regulations, TfNSW contract documentation, including specifications).

An audit checklist will be developed and amended as necessary to reflect changes to this CEMP, subsequent approvals and changes to Acts, regulations or guidelines.

All internal environmental audits will be undertaken in accordance with AS/NZS ISO 19011.

7.8 Reporting and identified records

Reporting requirements and responsibilities are documented in Section 3.9.4 and 3.9.5 of the CEMP.

CPBGG JV will be required to maintain accurate records substantiating all activities associated with construction or relevant to the conditions of approval, including measures taken to implement this SEMP in accordance with section 3.11 of the CEMP. Records will be made available to the DPE and DAWE, within the timeframe nominated in the request.

In addition, key identified records relevant to this SEMP as specified by TfNSW QA G01, G36, G38 and G40 are identified in Table 7-3.

Table 7-3 Identified Records

Document Reference	Identified Records Clause	Description
G1 Job Specific Requirements –M12 Motorway (West)	10	Plans of proposed compound
	14	Pre and post construction land condition assessment reports
G4 Principal's Project Accommodation	1.3	Details of Principal's project accommodation
G36 Environmental Protection – M12 Motorway (West)	2	Alternative environmental control measures
	3	Contractor's Environmental Management Plan (CEMP), Plans & Sub-Plans, procedures and EWMS
	3.2.1	Final Risk Workshop Report
	3.2.2	Approvals, licences and permits
	3.2.5	Low Impact Work Method Statement
	3.5	Records of communications and environmental induction training
	3.6	Extended working hours and associated advice to Principal and relevant authorities
	3.7.1	A report for each occasion when the Site is visited by the EPA and/or other Government Agencies
	3.7.3	Reports on complaints about any environmental issue and actions
	3.8	Records of emergency responses
	3.9	Records of environmental management performance monitoring and measurement
	3.9	Environmental audit reports
	3.10	Records of corrective and preventative measures to address nonconformities of environmental obligations
	3.11	CEMS and CEMP compliance records
	4.2	Site Contamination Assessment Report Section A Site Audit Statement and accompanying Site Audit Report LTEMP
	4.3	Records of spill prevention measures and responses
	4.4.2	Report on the conformity, or otherwise, of mobile non-road diesel plant and equipment used for the Work Under the Contract with the relevant United States Environmental Protection Agency, European Union (EU) standards or approved equivalent emission standards
	4.7	Building Condition Inspection Reports
	4.8	Report any injury or death of threatened species to the Principal
	4.11	Waste Management Register

Document Reference	Identified Records Clause	Description
	4.11	"s.143 Notices" for transporting and depositing of waste
	4.12	Pesticide Records Sheets
	4.14	Environmental events and investigation reports
	4.15.2	Pre-construction land condition assessment reports
	4.15.3	Post-construction land condition assessment reports
	4.16	Contamination/ Validation Reports verifying that the restoration has been completed satisfactorily
	4.17.2	Real time monitoring records of the locations of all heavy vehicles used for off-Site haulage.
	5.1	Principal's Audit Reports
	5.3	Contractor's Audit Reports
	6	Construction Compliance Reports
G38 Soil and Water Management – M12 Motorway (West)	3.1.2	Register of inspection and maintenance measures
	3.4	Dewatering procedure records
	3.5	Approval notices to locate stockpiles on private land
	3.8	Approvals and licences to extract water
	3.9	Flood Management Sub-Plan
	3.10	Site Stabilisation Sub-Plan
G40 Clearing and Grubbing – M12 Motorway (West)	2.4	Report on the presence of weeds and unsound trees
	2.4	Clearing and Grubbing Plan

7.9 Environmental incidents and non-compliances

7.9.1 Environmental Incidents

Environmental Incidents are to be managed in accordance with section 3.8 of the CEMP.

In the event of an environmental incident, the following procedures and plans shall be implemented:

1. TfNSW Environmental Incident Classification and Reporting Procedure (M12PPW-ADAP-ALL-EN-PLN-000003_E_S3_OCEMP APP A7) – contained in Appendix E (and A7 of the CEMP)
2. CPB Contractors' Manage and Report SHE Incidents Procedure will also be implemented.
3. The PIRMP - Refer to Appendix A9 of CEMP

These system documents provide the following details relevant to Construction related incidents and emergencies:

- Types of environmental incidents
- Criteria for classifying of environmental incidents
- Processes for systematically responding to and managing emergency situations
- Processes, and legal requirements (e.g. Acts, Regulations, EPL), for reporting and notification of an environmental incident.

The TfNSW procedure covers the management of environmental events including:

- A report-only event
- A non-compliance
- Regulatory action received
- An environmental incident.

The TfNSW Incident Procedure details:

- Incident types
- Criteria for classifying environmental incidents
- Processes and legal requirements (eg Acts, Regulations, EPL), for reporting and notification of an environmental incident.

The TfNSW Incident Procedure covers the management of events including:

- Spills of fuels, oils, chemicals and other hazardous materials
- Unauthorised discharge from sediment basins or other containment devices
- Potential contamination of waterways or land
- Accidental starting of a fire or a fire breaking out of containment
- Any potential breach of legislation, including a potential breach of a condition of an EPL requirement, MCoA or any agency permit condition
- Unauthorised dumping of waste
- Unauthorised clearing or clearing beyond the extent of the Project boundary or premises
- Inadequate installation and subsequent failure of temporary erosion and sediment controls
- Unauthorised damage or interference to threatened species, endangered ecological communities or critical habitat
- Unauthorised harm or desecration to Aboriginal objects and Aboriginal places
- Works undertaken that are not in accordance with a Project approval.

All environmental events (incidents, significant environmental incidents, report only events, non compliances and regulatory action) under the TfNSW Incident Procedure, will be notified verbally immediately to the TfNSW Project Manager and TfNSW Environmental and Sustainability Manager (or delegate) and the ER.

Incident reports will be provided to TfNSW Representative and the Environmental Representative in accordance with the TfNSW Incident Procedure, including lessons learnt from each environmental incident and proposed measures to prevent the occurrence of a similar incident. All efforts will be undertaken immediately to avoid and reduce impacts of incidents and suitable controls put in place. Incidents will be closed out as quickly as possible, taking all required action to resolve each environmental incident. This notification process is in addition to other regulatory incident reporting requirements, including a Pollution Incident Response Management Plan (PIRMP) required by an EPL.

In accordance with NSW CoA A44 and A45, the Planning Secretary must be notified via the Major Projects Website immediately after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and nature of the incident. Subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix A of the NSW CoA.

The EPA will be notified of any pollution incidents on or around the site via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of the Protection of the Environment Operations Act 1997 (NSW) (POEO Act). The circumstances where this will take place include:

i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or

ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding $10,000 (or such other amount as is prescribed by the regulations).

Where an incident affects commonwealth protected matters, DAWE are required to be notified in accordance with Commonwealth CoA 11 and 12.

Where an incident involves a potential impact to an Aboriginal site, relevant Heritage NSW and Registered Aboriginal Parties will be notified and their input sought in closing out the incident.

All other environmental incidents, reportable events and regulatory action would be reported to TfNSW as outlined in the Roads and Maritime's Environmental Incident Classification and Reporting Procedure.

CPBGG JV will provide all records of the environmental incidents and regulatory action to TfNSW Project team.

7.9.2 Environmental Nonconformities

Environmental non-conformities are to be reported and managed in accordance with section 3.10 of the CEMP.

Any member of the Project team may raise a non-conformance or improvement opportunity. The Quality Plan describes the process for managing non-conforming work practices and initiating corrective/preventative actions or system improvements.

The ER, TfNSW Representative or public authority may also raise a non-conformance or improvement opportunity using the same process.

A non-compliance is the failure to comply with the requirements of the Infrastructure Approval or any applicable licence, permit or legal requirements. Under the Infrastructure Approval, a non-compliances can also be classified as an incident and therefore should be managed in accordance with section 7.9.1 (and Section 3.8 of the CEMP). Non-compliances may be identified through the review of compliance, environmental auditing or incident management and are to be notified in accordance with the following:

- **NSW CoA A46**, the Planning Secretary must be notified in writing via the Major Projects website within seven days after TfNSW becomes aware of any non-compliance.
- **NSW CoA A47**, a non-compliance notification must identify the Project and the application number for it, set out the condition of approval that the Project 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. The ER will also be informed of any non-compliance.
- **NSW CoA A48**, a non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.
- **Commonwealth CoA 11**, DAWE must also be notified in writing of any non-compliance with the conditions or non-compliance with the commitments made in plans required in accordance with Commonwealth CoA 5a or 5b. The notification must be submitted as soon as practicable and no later than 2 business days after becoming aware of the non-compliance.

A non-conformance is the failure or refusal to comply with the requirements of the CEMP and supporting documentation. For each non-conformance identified a corrective/preventative action (or actions) must be implemented. In addition, any environmental management improvement opportunities can be initiated as a result of incidents or emergencies, monitoring and measurement, audit findings or other reviews. Improvement opportunities may also result in the implementation of corrective/preventative actions.

Corrective/preventative actions and improvement opportunities will be entered into the contractor's quality system database and include detail of the issue, action required and timing and responsibilities. The record will be updated with date of close out and any necessary notes. The database will be reviewed regularly to ensure actions are closed out as required.

Non-conforming activities may be stopped, if necessary, by the ESR, Environmental Team or Project / Site Engineer following consultation with the Construction Director or delegate. The works will not commence until a corrective / preventative action has been closed out. The ER may also stop works in these circumstances. In such circumstances a non-conformance report must be prepared in accordance with the Quality Plan.

After becoming aware of an environmental non-compliance, CPBGG JV will notify TfNSW immediately of becoming aware of a non-compliance and TfNSW will notify DPE via the Major Projects Website within seven days in accordance with NSW CoA A46. The notification must identify the CSSI (including the application number and the name of the CSSI), set out the condition/s that is non-compliant, the nature of the breach; the reason for the non- compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. The ER may also include environmental non-compliances within the Environmental Representative Monthly Report.

MCoA A48 states that a non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

Procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management are also documented in the Compliance Tracking Program. Following corrective action, the CPBGG JV ESR, will close out the noncompliance.

7.10 Community Engagement

Prior to establishment of ancillary facilities, a Community and Stakeholder Engagement Plan (CSEP) will be prepared in accordance with the project Overarching Communications Strategy (OCS) which will include community and stakeholder management requirements including during the site establishment phase.

The Community Engagement Team (CET) will engage with residential and commercial properties that adjoin or are adjacent to the ancillary facilities.

Engagement methods will include door knocking residents impacted by the ancillary facilities, letter box drops and community updates as applicable.

Any comments or feedback regarding boundary screening and noise walls will be considered by CPBGG JV. The site design plan will detail the type and height of the boundary screens for each location.

A public liaison officer will be appointed for the construction ancillary facility(s) in accordance with CoA B6 and the communications strategy to assist the public with questions and complaints they have at any time during site establishment.

In accordance with CoA B7, TfNSW will provide the following methods of contact:

- A 24-hour toll-free telephone number for the registration of complaints and enquires about the CSSI
- A postal address to which written complaints and enquires may be sent
- A mediation system for complaints unable to be resolved.

It is noted that CPBGG JV will provide an email address to which complaints and enquiries about the CSSI may be transmitted ti,

The above information will be accessible to all in the community regardless of age, ethnicity, disability or literacy level.

The project will undertake community consultation activities as detailed in the TfNSW OCS as required by NSW CoA B1 – B5

The telephone number, postal address and email address, as well as relevant Project information as required by NSW CoA B8 would be included on designated pages of the Project website.

7.10.1 Complaints Management

During the site establishment phase, any comments, feedback or complaints relating to noise, air quality and other amenity issues will be addressed in accordance with TfNSWs Overarching Communication Strategy (OCS) and Complaints Management System (CMS), and CPBGG JV's Community and Stakeholder Engagement Plan (CSEP). A Complaints Register will be maintained for a minimum of 12 months following the completion of construction and the following information will be recorded:

- Number of complaints received
- The date and time of the complaint
- The method by which the complaint was made
- Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect
- Nature of the complaint
- Means by which the complaint was addressed and whether resolution was reached, with or without mediation
- If no action was taken, the reason(s) why no action was taken.

Complainants will be advised that the Complaints Register may be forwarded to Government agencies to allow them to undertake their regulatory duties (eg. DPE and EPA).

8 Review and improvement

8.1 Ancillary Facility Approval Pathways

Approval pathways for ancillary facilities are identified in the Planning Approval as follows:

- Ancillary facilities identified in the Environmental Assessment documentation;
- Ancillary facilities meeting the requirements of NSW CoA A15: Establishment of these ancillary facilities (listed in Section 4) will commence following approval of this SEMP (as per NSW CoA A17) and prior to approval of the CEMP. The SEMP will be submitted to DPE for review and approval, and
- Minor construction ancillary facilities not detailed in the Environmental Assessment documentation: Minor construction ancillary facilities not detailed in the Environmental Assessment documentation which would be of minimal environmental impact may be approved by the ER under NSW CoA A20. Minor ancillary facilities are defined as:

Lunch sheds, office sheds, portable toilet facilities, car parking, material storage, and the like, can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria:

a) are located within or adjacent to the Construction Boundary; and

b) have been assessed by the ER to have -

a. minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the ICNG, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and

b. minimal environmental impact with respect to waste management and flooding, and

c. no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.

There are no minor construction ancillary facilities proposed during the site establishment works. In the event that minor construction ancillary facility is identified following approval of the CEMP, an assessment will be undertaken in accordance with MCoA A20 and submitted to the ER for approval.

8.2 Continuous improvement

Continuous improvement will be achieved through ongoing measurement and evaluation, audit and review of the effectiveness of this SEMP. Regular compliance activities, such as weekly inspections, observations and monitoring will be undertaken throughout the site establishment of the ancillary facilities. Subcontractors' works will also be monitored as part of the general weekly inspections, observations, monitoring and audits. This will be implemented through the program for monitoring the performance outcomes in Section 3

Environmental controls will be inspected weekly to ensure their ongoing suitability and effectiveness. Environmental monitoring will be carried out to establish pre-construction benchmarks, confirm compliance with the conditions of environmental Approvals, licences and laws and to provide early indication of potential adverse impacts to the environment or community.

The process for ongoing risk identification and management is outlined in Section 3.2.1 of the CEMP.

8.3 SEMP update and amendment

The processes described in Section 3.8, 3.10 and 3.12 of the CEMP may result in the need to update or revise this Plan. Any revisions to the SEMP will be in accordance with the process outlined in Section 3.13 of the CEMP including submission to the Environmental Representative for approval in accordance with NSW CoA A34(i).

In accordance with NSW CoA A17, a new or revised SEMP must be prepared for the Ancillary Facilities if, upon the completion of Early Works but prior to construction of the Project, additional activities are required to establish the facilities or there is a change to the layout. In this case, the new or revised SEMP must be prepared in accordance with NSW CoA A16 and approved by the Secretary of DPE before commencement of the additional activities or change to site layout.

This Plan will be updated:

- To add/amend ancillary facilities identified in the EIS
- To reflect changes to the environment or generally accepted environmental management practices, new risks to the environment, any hazardous substances, contamination or changes in law
- Where requested or required by DPE or any other Authority
- In response to internal or external audits or quarterly management reviews.

The updated SEMP will be endorsed by the Construction Environmental Site Representative and approved internally by the Project Director.

Minor amendments to this SEMP must be approved by the Environmental Representative (ER) in accordance with NSW CoA A34(i).. Major amendments will require approval by DPE.

Appendix A – Management and Mitigation Measures

Ref #	Management and Mitigation Measures	Timing	Responsibility
General			
G1	Environmental awareness training and inductions must be provided to all workers prior to commencing work on site. This training will include (at a minimum): • environmental risks • environmental procedures, management measures and conditions of approval • environmentally sensitive locations and exclusion zones • requirement to report and the process for reporting environmental issues on site • requirement to report and the process for reporting damaged environmental controls • erosion and sediment control • incident management process • site staff environmental responsibilities.	Pre-Construction	ESR
G2	Toolbox talks are to include environmental issues and controls when works commence in a new area, a new activity and/or when environmental issues arise on site.	Construction	ESR
G3	Environmental Work Method Statements (EWMS) are required for the following activities/locations (at a minimum): • clearing and grubbing • earthworks • drainage works • utilities works • works within or adjacent to a watercourse • any other activities as requested by the Principal. All EWMS will be submitted to the Principal's Environment staff for review and endorsement prior to commencement of works. The EWMS must include but not be limited to the following: • description of the works/activities including machinery • outline of the sequence of work/activities, including interfaces with other construction activities (for example the interface between cut and fill areas, stabilisation of exposed areas, excavation for an installation or upgrade of culverts) • identification of potential environmental risks/impacts due to the works/activities which is to include risks associated with wet weather events • evaluation of methods to eliminate/reduce the environmental risk • mitigation measures to reduce environmental risk • any safeguards resulting from consultation with public authorities and other stakeholders, where appropriate	Pre-construction & Construction	ESR

Ref #	Management and Mitigation Measures	Timing	Responsibility
	• a map / diagram indicating the locations of sensitive locations (such as exclusion zones, threatened species, heritage items etc), the likely potential environmental impacts and work areas as well as environmental controls • identification of works areas and exclusions areas • details of a process for progressive review, for example monitoring processes and mitigations to eliminate/reduce environmental risks/impacts.		
G4	Site inspections to monitor environmental compliance and performance will be undertaken during construction at appropriate regular intervals.	Construction	ESR Project Director Site Foreman
G5	TfNSW *Environmental Incident Classification and Management Procedure* is to be followed in the event of an incident.	Construction	ESR Project Director Site Foreman
Biodiversity			
BI1	Tree protection fencing must be established around the perimeter of the TPZ. If the protective fencing requires temporary removal, trunk, branch and ground protection must be installed and must comply with AS 4970-2009 - Protection of trees on development sites. Existing fencing and site hoarding may be used as tree protection fencing.	Construction	Project Director Site Foreman
BI2	Parking of vehicles and storage of plant/equipment is to occur on existing paved areas. Where this is not possible, vehicles and plant/equipment are to be kept away from environmentally sensitive areas and outside the dripline of trees.	Construction	Project Director Site Foreman
BI3	Where possible, stockpiling or storage of construction materials will occur in areas already cleared.	Construction	Project Director Site Foreman
BI4	Works impacting hollow-bearing trees will be supervised by a qualified wildlife carer and/ or ecologist to enable any fauna to be captured and relocated into suitable habitat nearby.	Construction	ESR Site Foreman
BI5	Invasive weeds are to be managed according to requirements under the *Biosecurity Act 2015* (NSW) and the RTA Biodiversity Guidelines 2011.	Construction	Project Director Site Foreman
BI6	Minimise soil transportation within, into or out of the site to reduce the spread of weeds. Machinery will be free of weed material before entering and exiting the work area.	Construction	Project Director Site Foreman
BI7	Ecologist will undertake an inspection for weeds prior to clearing.	Construction	ESR
B18	Pre-clearance inspections, hold points and tree clearing will be undertaken in line with TfNSW Specification G40 Clearing and Grubbing. The inspections and relocation of any effected native fauna will be undertaken for both threatened and non-threatened species.	Pre-Construction	ESR
Soils and Water Quality			

Ref #	Management and Mitigation Measures	Timing	Responsibility
S1	An ESCP will be prepared prior to construction and is to include as a minimum: • identify site catchment and sub-catchments, high risk areas and sensitive areas • sizing of each of the above areas and catchments • the likely run-off from each sub-catchment • separation of on-site and off-site water • the direction of run-off and drainage points during each stage of construction • direction of flow of on-site and off-site water • the locations and sizing of sediment basins or sumps and associated catch drains and/or bunds • the locations of other erosion and sediment control measures (e.g. rock check dams, swales and sediment fences) • controls/measures to be implemented on wet weather events • a mapped plan identifying the above • a dewatering procedure for onsite water and basins • a process for reviewing and updating the plan on a fortnightly basis and/or when works alter.	Pre-Construction	ESR Project Director Site Foreman
S2	If dewatering is required, a procedure will be prepared for dewatering activities. The dewatering procedure is to comply with *RMS Technical Guideline – Environmental Management of Construction Site Dewatering.* The procedure will include at a minimum: • a map showing areas of the proposal that will require dewatering • detailed description and justification of all selected dewatering methods. • description of onsite water reuse requirements. • a map showing proposed discharge locations for any offsite discharge. • design requirements for each offsite discharge location to prevent erosion at the discharge location or in the receiving environment. • water quality objectives relevant to the type of dewatering activity. • description of the water quality treatment techniques to be used. • water sampling and testing regime to validate water quality prior to and (if required) during dewatering, including to establish appropriate waste disposal methods. • requirements to manage encounters with groundwater or contaminated water.	Pre-Construction	ESR
S3	Should groundwater be encountered during excavation works, groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014) and Water Discharge and Reuse Guidelines (TfNSW, 2015).	Construction	ESR Project Director Site Foreman
S4	A contingency plan will be prepared to manage a potential flood event during construction and will outline procedures to reduce risks including worker safety, removal of all plant/equipment and stabilising exposed areas.	Pre-Construction	ESR Project Director Site Foreman
S5	All stockpiles will be designed, established, operated and decommissioned in accordance with the RMS *Stockpile Site Management Guideline, 2011.*	Pre-Construction & Construction	Project Director Site Foreman

Ref #	Management and Mitigation Measures	Timing	Responsibility
S6	Controls are to be implemented at exit points to minimise tracking soil and particulates onto pavement surfaces.	Construction	Project Director Site Foreman
S7	Any material transported onto pavements will be swept and removed at the end of each working shift and prior to rainfall where practicable and safe to do so.	Construction	Project Director Site Foreman
S8	Erosion and sediment controls to be installed in all construction areas where soil disturbance is going to occur, prior to soil disturbance occurring.	Construction	Project Director Site Foreman
S9	Erosion and sediment controls will be installed to: Minimise sediment moving off-site and sediment laden water entering any water course, drainage lines, or drain inlets Reduce water velocity and capture sediment on site Minimise the amount of material transported from site to surrounding pavement surfaces Divert off site water around the site.	Construction	Project Director Site Foreman
S10	Erosion and sedimentation controls are to be checked and maintained on a regular basis and after a rain event of 10mm or greater (including clearing of sediment from behind barriers) and records kept and provided on request.	Construction	Project Director Site Foreman
S11	Weather conditions and forecasts (including rainfall prediction maps) will be monitored daily and the relevant information passed on to site personnel allow for adequate planning for significant rain events.	Construction	ESR Project Director Site Foreman
S12	Erosion and sediment control measures are not to be removed until the works are complete, and areas are stabilised.	Construction	Project Director Site Foreman
S13	Work area are to be stabilised progressively during the works.	Construction	Project Director Site Foreman
S14	Vehicle wash down and/or cement truck washout is to occur in a designated bunded area and least 50 metres away from water bodies and surface water drains.	Construction	Project Director Site Foreman
Storage and Use of Hazardous Materials			
HM1	The storage of hazardous materials, and refuelling/maintenance of construction plant and equipment to be undertaken in clearly marked designated areas that are designed to contain spills and leaks.	Construction	Project Director Site Foreman
HM2	Spill kits, appropriate for the type and volume of hazardous materials stored or in use, to be readily available and accessible to construction workers. Kits are to be kept at hazardous materials storage locations, in site compounds and on specific construction vehicles. Where a spill to a watercourse is identified as a risk, spill kits are to be kept in close proximity to potential discharge points in support of preventative controls.	Construction	Project Director Site Foreman
HM3	All hazardous materials spills and leaks to be reported to site managers and actions taken immediately to remedy spills and leaks.	Construction	Project Director Site Foreman
HM4	All refuelling and storage of fuels, chemicals and liquids are to be within an impervious bunded area within the construction compound, located a minimum of five metres away from:	Construction	Project Director Site Foreman

Ref #	Management and Mitigation Measures	Timing	Responsibility
	• rivers, creeks or any areas of concentrated water flow • areas at risk of flooding • slopes above 10%.		
HM5	Any fuel, oils or other liquids stored on site will be stored in an appropriately sized impervious bunded at least 120% larger than the greatest container and in an area least 50 metres away from water bodies.	Construction	Project Director Site Foreman
HM6	Training in the use of spill kits to be given to all personnel involved in the storage, distribution or use of hazardous materials.	Construction	Project Director Site Foreman
Contamination			
CO1	In the event that indications of contamination are encountered (known and unexpected, such as odorous or visually contaminated materials), work in the area will cease until a contamination assessment can be prepared to advise on the need for remediation or other action, as deemed appropriate. Unexpected finds procedure is to be implemented.	Construction	Project Director Site Foreman
CO2	If Asbestos Containing Material (ACM) is encountered during construction activities, work in the area will cease and unexpected finds procedure will be implemented.	Construction	Project Director Site Foreman
CO3	Where required, any materials classified as Hazardous Waste will be treated, or an immobilisation approval obtained in accordance with Part 10 of the *Protection of the Environment Operations (Waste) Regulation 2014* prior to off-site disposal.	Construction	Project Director Site Foreman
CO4	Contaminated soil will be segregated from other materials and based on the contamination present. Contaminated soils will be appropriately contained prior to waste classification and ultimate disposal.	Construction	Project Director Site Foreman
CO5	Any material requiring off-site disposal will be transported by a suitably licensed contractor and disposed of at an appropriately licensed facility.	Construction	Project Director Site Foreman
CO6	During excavation, site workers will be provided with appropriate training as part of the project induction regarding the identification and response actions for the management of potential contamination, such as presence of waste and/or other imported materials, odours, soil colouring etc.	Construction	Project Director Site Foreman
CO7	Identified contaminated materials will be classified prior to offsite disposal	Construction	Project Director Site Foreman
Traffic			
T1	Vehicular property access is to be maintained throughout construction. Where property access will have to be temporarily closed during construction: • property owners will be notified at least seven calendar days prior to the access closure • alternative access will be provided if available • access closure will be minimised, and access will be returned to the property owners as soon as possible	Construction	Project Director Site Foreman
T2	There will be advance notification of any construction works that affect pedestrians and cyclists, including signage outlining diversion routes.	Construction	Community and Stakeholder Manager

Ref #	Management and Mitigation Measures	Timing	Responsibility
T3	Vehicle delivery times will be scheduled where feasible to avoid peak hour traffic.	Construction	Project Director Site Foreman
T4	Site workforce to consider vehicle sharing to minimise parking impacts on local roads.	Construction	All personnel
T5	Workers and subcontractors to be advised of approved haulage routes during ancillary facility access. Marshalling of construction vehicles is not permitted near sensitive land users. Trucks will be directed to specific layover areas (marshalling yard) until they are able to continue their journey.	Construction	All personnel
T6	The following rules will be communicated to truck drivers using local roads: • Compression brakes and horns will only be used in emergencies • Trucks must give way to pedestrians and other vehicles in the roadway • Trucks must watch for vehicles exiting from driveways • Trucks must not transfer debris or dirt onto public roads • Trucks must be turned off when not in use.	Construction	All personnel
T7	Heavy haulage trucks will be equipped with telematics (customised GPS tracking system) so that their movements are captured in real time. This enables monitoring of driver behaviour such as speeding, idling, queueing or not using correct routes	Construction	Project Director Site Foreman
T8	In accordance with NSW CoA A94, all heavy vehicles used for construction haulage will be clearly marked on the sides and rear with the CSSI name, and the name of the stage, to enable immediate identification by a person viewing the heavy vehicle. Signage is publicly available on the DPE website: https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSI-9364-PA-4%2120210608T054816.141%20GMT.	Construction	Project Director Site Foreman
Noise and Vibration			
N1	Management measures adopted during construction will include but will not limited to the following: • Planning and conducting works in a manner to minimise the reversing of vehicles with audible reversing alarms • Use of two way radios at the minimum effective volume • Avoiding use of radios during work outside normal hours • Avoiding shouting and slamming doors • Not using vehicle warning devices, such as horns, as signalling devices • Undertaking regular maintenance of plant and equipment, including silencers • where practical, operating machines at low speed or power and switching off when not being used rather than left idling for prolonged periods • minimising reversing • Avoiding metal-to-metal contact • Avoiding dropping material from a height into unlined metal trays	Construction	Project Director Site Foreman
N2	Ancillary site layout to be arranged so that primary noise sources including noisy plant items (generators, pumps, fixed plant) are located away from nearby noise sensitive receivers, with solid structures (sheds	Pre-Construction and Construction	ESR Project Director Site Foreman

Ref #	Management and Mitigation Measures	Timing	Responsibility
	and containers) placed between sensitive receivers and noise sources (and as close to the noise sources as is practical) where practicable.		
N3	Non-tonal reversing alarms to be used on vehicles and mobile construction equipment, subject to WHS compliance requirements and risk assessments.	Construction	Contractor
N5	During work hours, a community liaison phone number and site contact will be provided to enable complaints to be received and responded to.	Construction	Project Director Site Foreman
N6	If deemed necessary, attended compliance noise and vibration monitoring will be undertaken upon receipt of a complaint. Monitoring will be reported as soon as possible. In the case that exceedances are detected, the situation will be reviewed in order to identify means to minimise the impacts to residences.	Construction	Project Director Site Foreman
N7	The environmental induction program will include specific noise and vibration issues awareness training.	Construction	ESR
N8	Undertake noise monitoring and review monitoring results and revise mitigation measures as appropriate	Construction	ESR
Air Quality			
AQ1	Management measures adopted during construction will include but will not limited to the following: • vehicles transporting soils, spoil, waste or other materials that have a potential to produce odours or dust are to be covered during transportation • dust will be suppressed on stockpiles and unsealed or exposed areas using methods such as water sprays, water trucks, temporary stabilisation methods, soil binders or other appropriate practices • disturbed areas will be minimised in extent and rehabilitated progressively • speed limits will be imposed on unsealed surfaces • stockpiles will be located as far away from residences and other sensitive receivers as practicable • works (including the spraying of paint and other materials) will not be carried out during strong winds or in weather conditions where high levels of dust or air borne particulates are likely • plant, vehicles and equipment will be maintained in good condition and in accordance with manufacturer's specifications • plant and machinery will be turned off when not in use • no burning of any timbers or other combustible materials will occur on site • visual monitoring of air quality will be undertaken to verify the effectiveness of controls and enable early intervention • work activities will be reprogrammed if the management measures are not adequately restricting dust generation.	Construction	Project Director Site Foreman
Visual impacts			
VI1	Graffiti to be removed or covered (as agreed with the Principal): • within 24 hours for graffiti of an offensive nature • within one week for any other graffiti	Construction	ESR Project Director Site Foreman
VI2	Temporary hoardings, barriers, traffic management and signage to be removed when no longer required.	Construction	Project Director Site Foreman

Ref #	Management and Mitigation Measures	Timing	Responsibility
VI3	Areas impacted by construction to be restored with appropriate landscape treatments.	Construction	Project Director Site Foreman
Socio-economic			
SE1	Residents will be informed prior to any interruptions to utility services that may be experienced as a result of utilities relocation.	Construction	Community and Stakeholder Manager
SE2	Road users, pedestrians and cyclists will be informed of changed conditions, including likely disruptions to access during construction.	Construction	Community and Stakeholder Manager
Waste and Resource Management			
W1	The following resource management hierarchy principles will be followed: • avoid unnecessary resource consumption as a priority • avoidance will be followed by resource recovery (including reuse of materials, reprocessing, and recycling and energy recovery) • disposal will be undertaken as a last resort (in accordance with the *Waste Avoidance and Resource Recovery Act, 2001).*	Pre-Construction and Construction	Contractor
W2	Procurement will endeavour to use materials and products with a recycled content where that material or product is cost and performance effective.	Pre-Construction	Sustainability Manager Project Director
W3	A dedicated concrete washout facility that is impervious will be provided during construction so that runoff from the washing of concrete machinery, equipment and concrete trucks can be collected and disposed of at an appropriate waste facility.	Construction	Project Director Site Foreman
W4	All wastes will be managed in accordance with the *Protection of the Environment Operations Act 1997* (NSW).	Construction	Project Director Site Foreman
W5	Types of waste collected, amounts, date/time and details of disposal are to be recorded in a waste register.	Construction	Project Director Site Foreman
W6	Works sites will be maintained, kept free of rubbish and cleaned up at the end of each working day.	Construction	Project Director Site Foreman
W7	Suitable waste disposal locations will be identified and used to dispose of litter and other wastes on-site. Suitable containers will be provided for waste collection.	Construction	Project Director Site Foreman
Heritage			
H1	If any unexpected heritage items (including human remains) are encountered, works potentially affecting the find will cease and the TfNSW Management Procedure – Unexpected Heritage Items (November 2015)	Construction	ESR Project Director Site Foreman
Flood			
F1	Flood emergency management measures will be developed for major ancillary facilities.	Pre-Construction	Project Director

Ref #	Management and Mitigation Measures	Timing	Responsibility
F2	Measures to manage the diversion of floodwater either through or around the construction areas will be planned, implemented and maintained.	Pre-Construction Construction	Project Director Site Foreman
F3	The 10% AEP flood extent will be marked on the Site Environment Plan and EWMS. Where feasible, spoil management and stockpile areas will be located outside the 10% AEP flood extent.	Pre-Construction Construction	Project Director Site Foreman
F3	Where possible ensure that excavated materials are not placed within 20m of drainage lines.	Construction	Project Director Site Foreman
F4	Where practicable, liquid chemical and fuel storage areas will not be located within 50 metres of natural surface drainage areas, storm drainage systems, poorly drained or flood prone areas or any area with a slope steeper than 10%.	Pre-Construction Construction	Project Director Site Foreman
F5	Key staff including the Project Manager and Site Foreman shall register with a weather forecast service provider to receive timely warnings of flood risk.	Pre-Construction Construction	Project Director Site Foreman
Cumulative Impacts			
CI1	Prior to commencing site establishment works, communication will be established with other projects in close proximity to the various support sites to ensure activities are scheduled and managed to minimise disruption to the local area	Construction	ESR Community and Stakeholder Manager

Appendix B – Indicative Site Layouts

Nearest noise sensitive receivers to each of these ancillary facilities are shown on Figure 1-1.

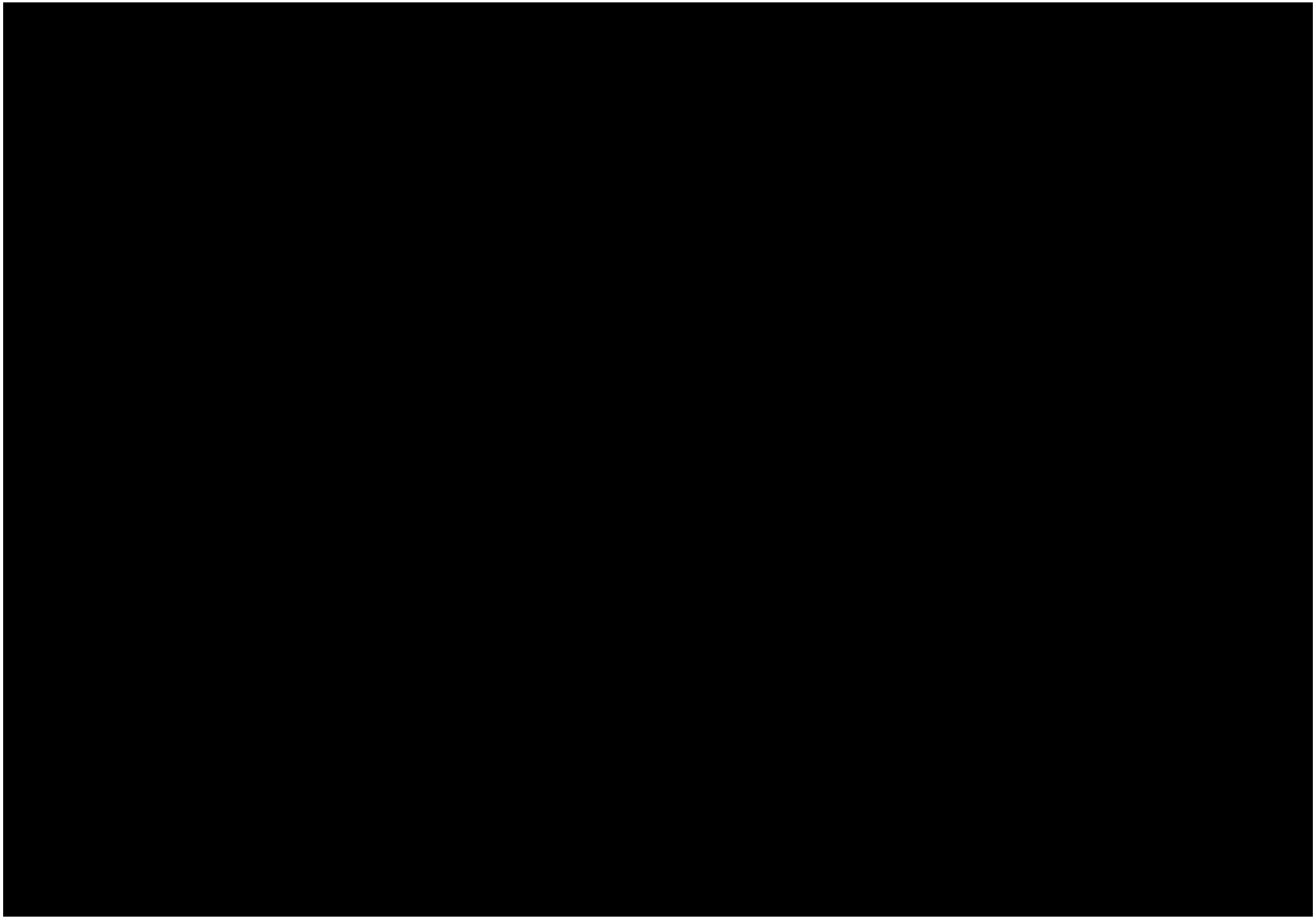


Figure B-8-1 AF1 indicative layout

Figure B-8-2 AF2 indicative layout

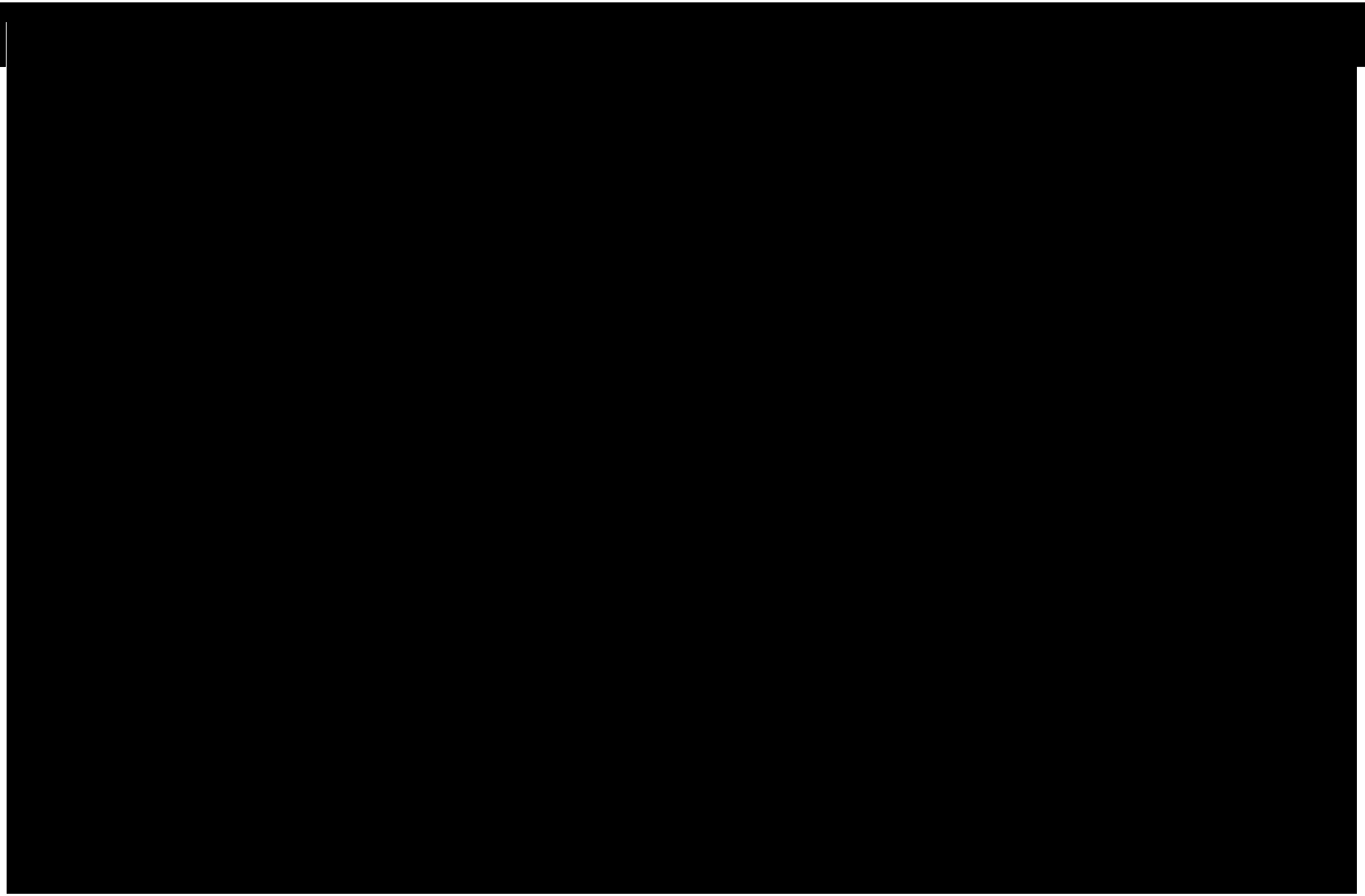


Figure B-8-3 AF3 indicative layout

Figure B-8-4 AF10 indicative layout

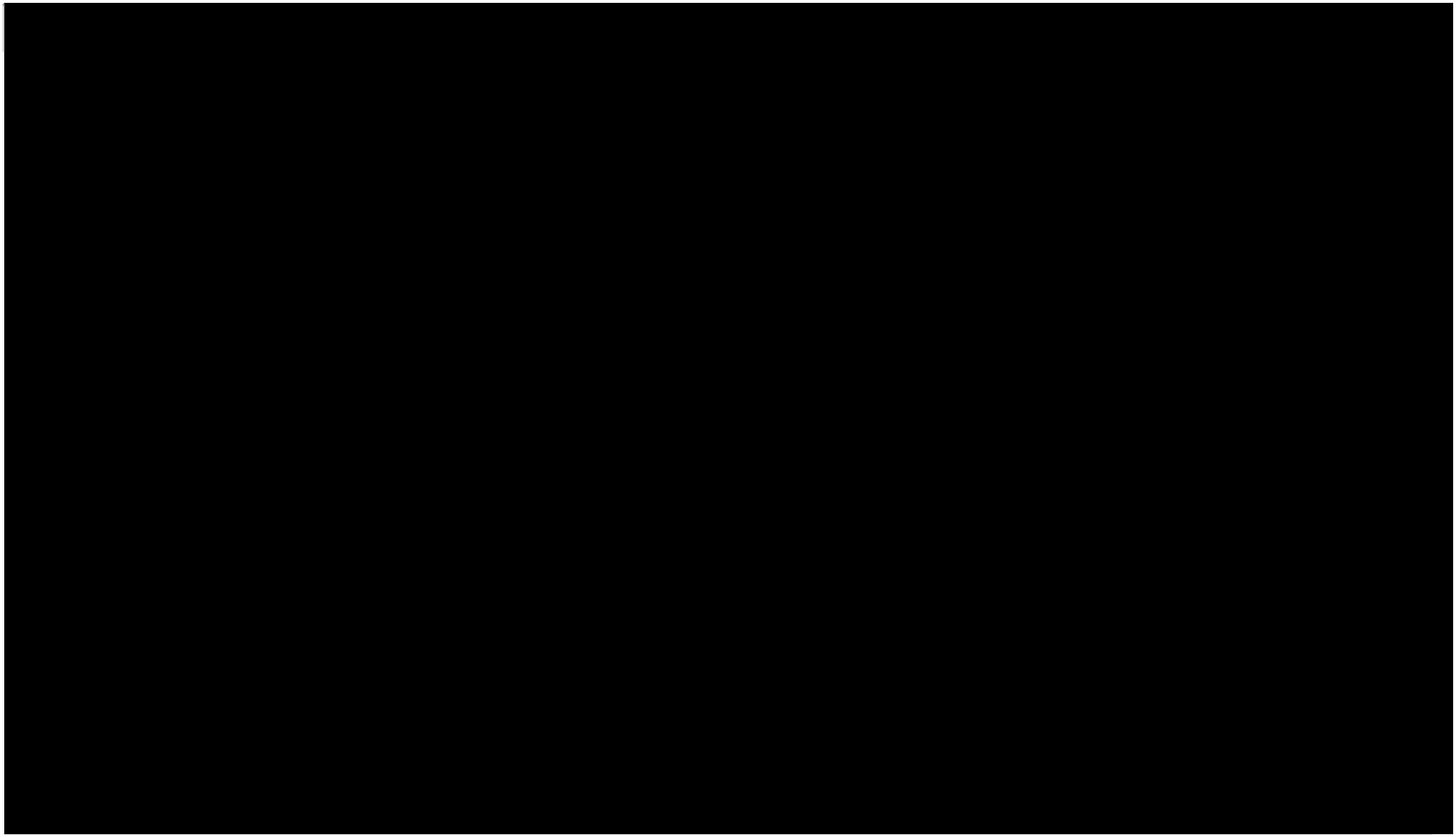


Figure B-8-5 AF11 indicative layout

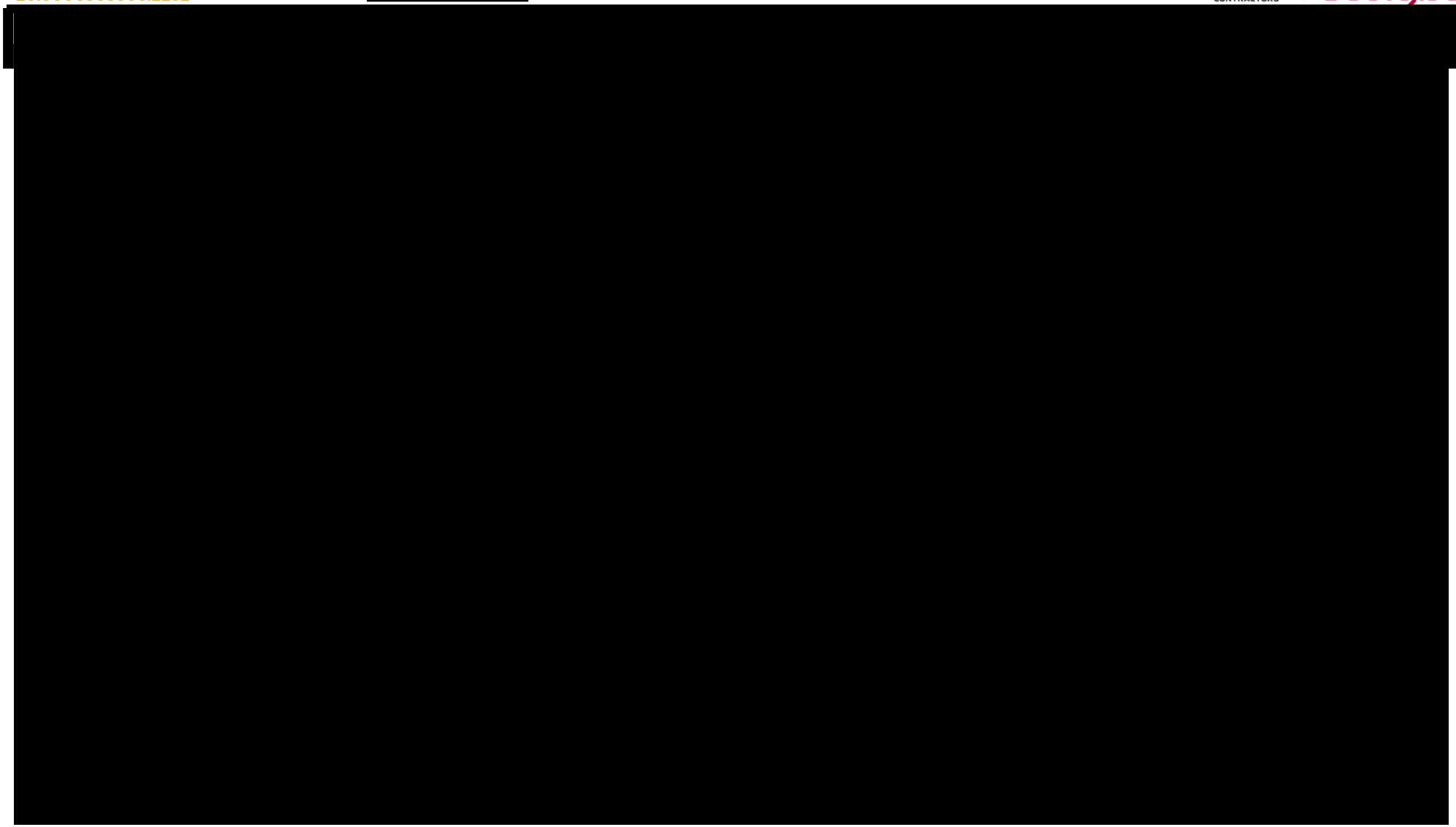


Figure B 8-6 AF17 Indicative site layout

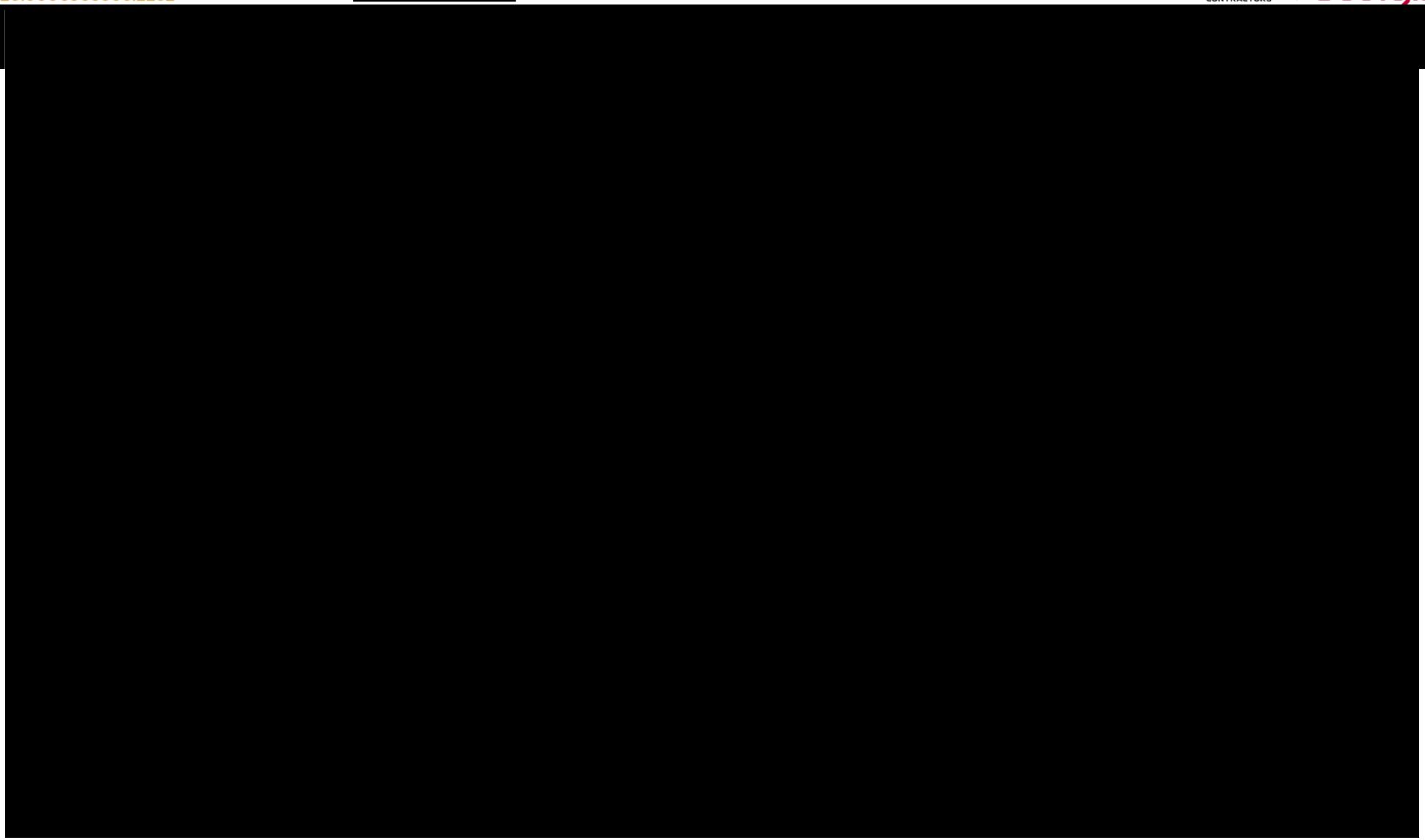


Figure B 8-7 CAF 001 Indicative site layout

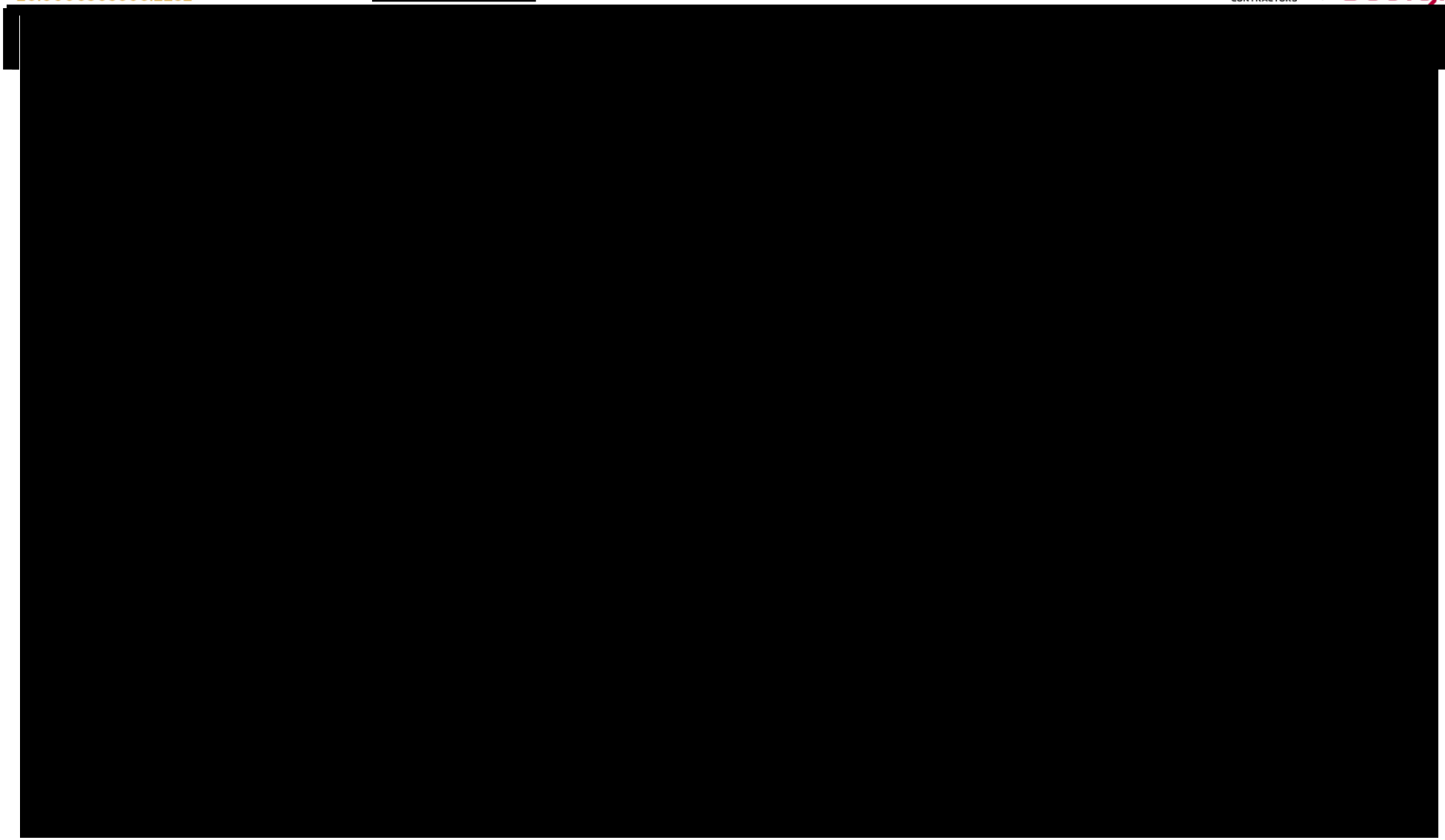


Figure B 8-8 CAF 002 Indicative site layout

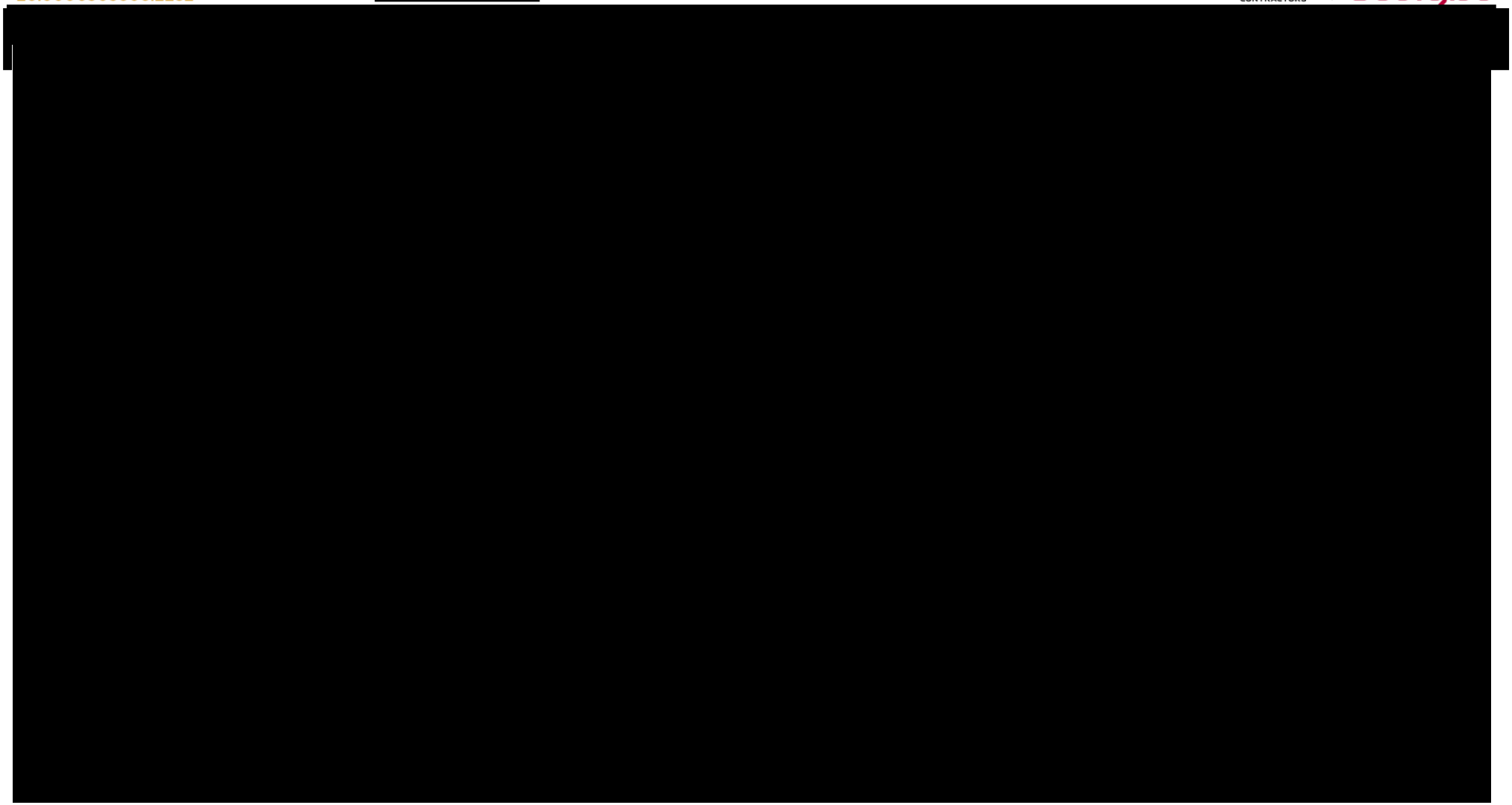


Figure B 8-9 CAF 003 Indicative site layout

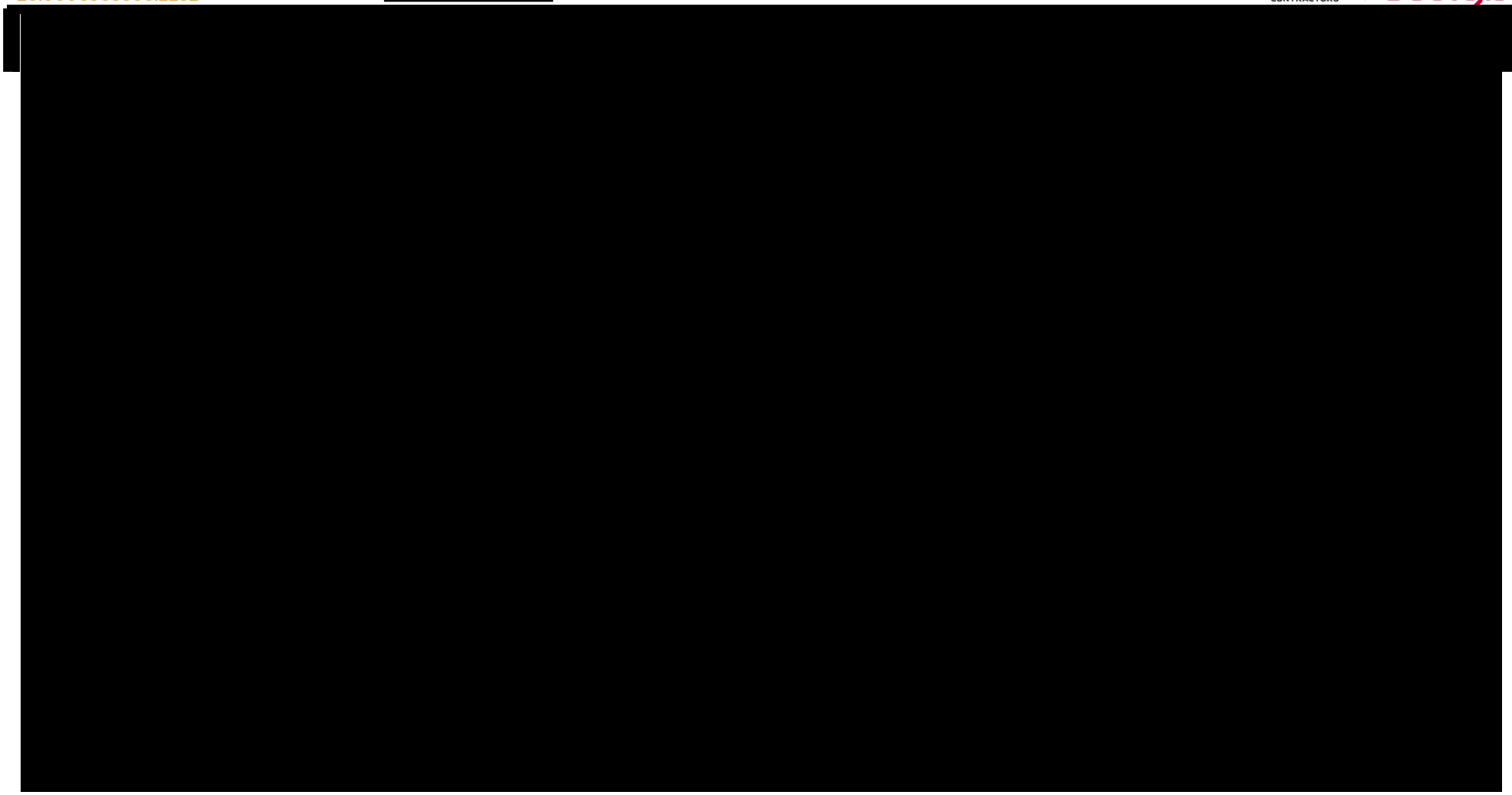


Figure B 8-10 CAF 004 Indicative site layout

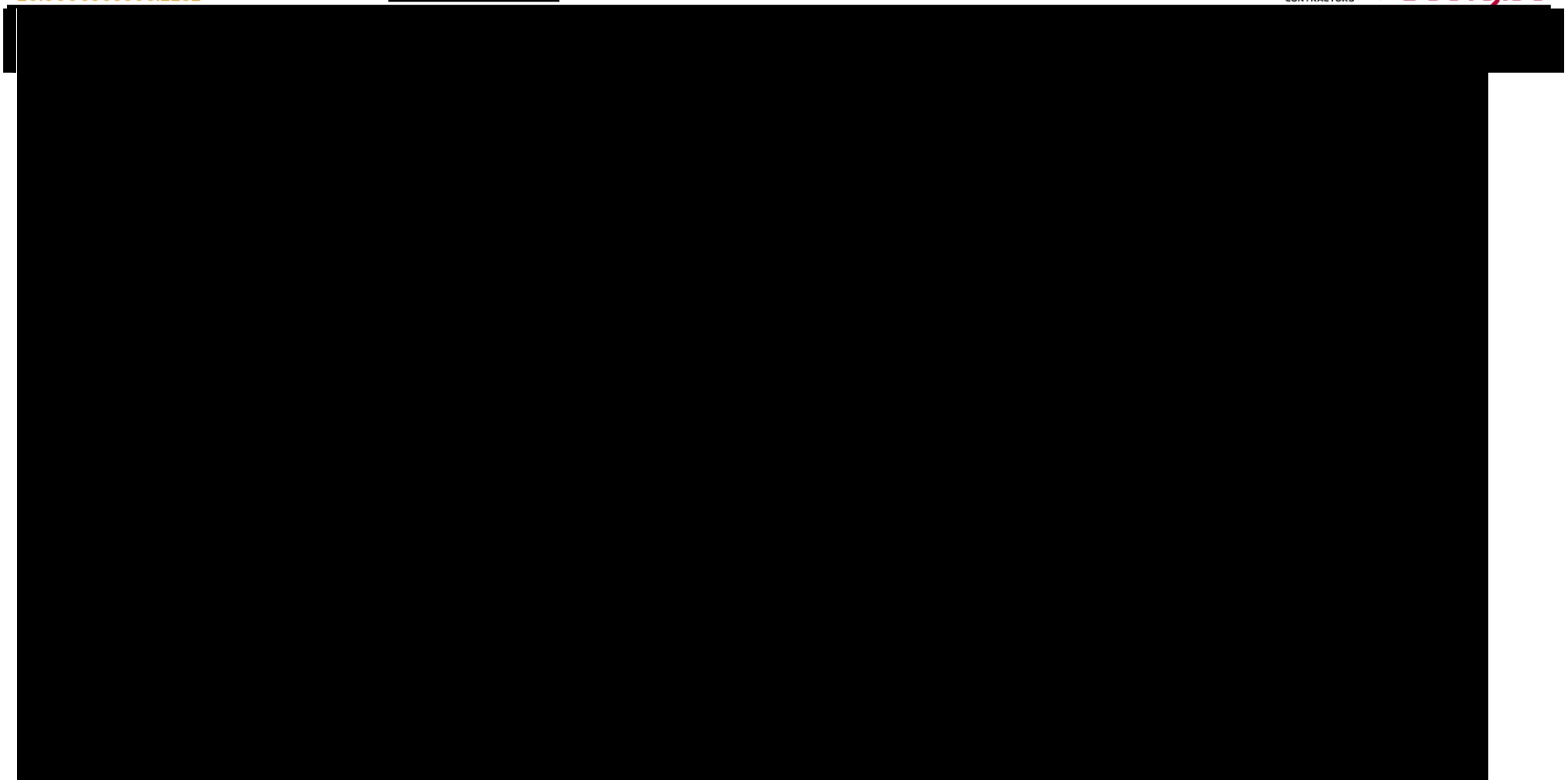


Figure B 8-11 CAF 005 – CAF 008 Indicative site layout

Appendix C – Sensitive Area Plans

Appendix D – Unexpected Contaminated Lands Finds Procedure

Appendix E – TfNSW Environmental Incident Procedure

Appendix F - Consultation Correspondence

Appendix G – Secondary CoA and REMMs

Secondary CoA

CoA No.	Condition Requirements	Document Reference
A34	For the duration of Work until the commencement of operation, or as agreed with the Planning Secretary, the approved ER must:	Section 1.4.1
	(i) Consider any minor amendments to be made to the CEMP, CEMP Sub-plans, Construction Monitoring Programs, Site Establishment Management Plans and Early Works Environmental Management Plan that involve updating or are of an administrative nature and do not increase impacts to nearby sensitive receivers, and ensure they are consistent with the terms of this approval and the documents approved by the Planning Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the terms of this approval.	
E40	Noise and Vibration Impact Statements (NVIS) must be prepared for any Work that may exceed the noise management levels and vibration criteria specified in Condition E38 at any residence outside the construction hours identified in Condition E34, or where receivers will be highly noise affected. The NVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the Work. A copy of the NVIS must be provided to the ER prior to the commencement of the associated Work. The Planning Secretary may request a copy/ies of the NVIS.	Section 6.2.7 Appendix C
E41	Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before Work that generates vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owners and occupiers must be provided with a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Noise and Vibration CEMP Sub-plan required by Condition C4 and the Communication Strategy required by Condition B1.	Appendix C
E62	The CSSI must be constructed and operated with the objective of minimising light spillage to surrounding properties. All lighting associated with the construction and operation of the CSSI must be consistent with the requirements of Australian Standard 4282-2019 Control of the obtrusive effects of outdoor lighting, relevant Australian Standards in the series AS/NZ 1158 – Lighting for Roads and Public Spaces, and the National Airports Safeguarding Framework (NASF) Guideline E: Managing the Risk of Distractions to Pilots from Lighting in the Vicinity of Airports.	Section 6.2.11
	Additionally, mitigation measures must be provided to manage residual night lighting impacts to protect properties adjoining or adjacent to the CSSI, in consultation with affected landowners.	
E83	Any property access that is physically affected by the CSSI must be reinstated to at least an equivalent standard, in consultation with the landowner or alternative access provided in consultation with the landowner.	Section 4.2.3

CoA No.	Condition Requirements	Document Reference
E93	The Planning Secretary's approval is required before any heavy vehicles used for spoil and fill haulage or concrete deliveries (for the purpose of the CSSI) are driven on local roads within one (1) kilometre of early works, construction and construction ancillary facilities and that are not identified for use by heavy vehicles in the documents listed in Condition A1. The local roads must be identified in the Early Works Environment Management Plan and Traffic Management CEMP Sub-plan.	Section 5.1.2
E94	All requests to the Planning Secretary for approval to use local roads in accordance with Condition E93, must include a traffic and pedestrian impact assessment and be prepared in consultation with the relevant local council(s). The assessment must be undertaken by appropriately qualified and experienced person and must include a swept path analysis if required by the Department. The outcomes and recommendations of the traffic and pedestrian impact assessment must be incorporated into the Site Establishment Management Plan or Traffic Management CEMP Sub-plan as relevant.	Section 5.1.2
E95	Before any local road is used by a heavy vehicle for the purposes of the CSSI, a Road Dilapidation Report must be prepared for the road unless otherwise agreed by the relevant road authority. A copy of the Road Dilapidation Report must be provided to the relevant road authority within three (3) weeks of completion of the survey and at least two (2) weeks before the road is used by heavy vehicles associated with the construction of the CSSI. If damage to roads occurs as a result of the construction of the CSSI, the Proponent must rectify the damage to restore the road to at least the condition it was in pre-construction in consultation with the relevant road authority. Rectification works must be undertaken within three (3) months of the subject road no longer being used for the construction of the CSSI unless an alternative timeframe is agreed to by the relevant road authority.	Section 5.1.2

Secondary REMMs

REMM	Condition Requirements	Document Reference
SWH01	A construction soil and water management plan (CSWMP) will be prepared for the Project. The plan will outline measures to manage soil and water impacts associated with the construction works, including contaminated land. The CSWMP will provide:	CSWMP (Appendix B8 CEMP) Appendix A
	• Measures to manage stockpiles including locations, separation of waste types, sediment controls and stabilisation.	
SWH04	Stockpiles will be managed to minimise the potential for mobilisation and transport of dust and sediment in runoff in accordance with TfNSW *Stockpile Sites Management Guideline* (Roads and Maritime, 2015). This will include:	Appendix A
	• Minimising the number of stockpiles, area used for stockpiles, and time that they are left exposed	
	• Locating stockpiles away from drainage lines, waterways and areas where they may be susceptible to wind erosion	
	• Stabilising stockpiles, establishing appropriate sediment controls and suppressing dust as required.	
AQ02	Dust generation will be minimised during construction where possible. Where practicable, specific measures will include (but not be limited to):	Appendix A
	• Regularly watering exposed and disturbed areas including stockpiles, especially during inclement weather conditions	

REMM	Condition Requirements	Document Reference
	• Adjusting the intensity of activities based on measured and observed dust levels, weather forecasts and the proximity of and direction of the works in relation to the nearest surrounding receivers	
	• Ensuring loads are covered, and any loose materials/debris are removed before vehicles exit the site	
	• Minimising the number of stockpiles and amount of material stockpiled where practicable	
	• Positioning stockpiling areas as far as possible from surrounding receivers, including potentially ecologically sensitive receivers	Section 7 of CAQMP
	• Limiting stockpiling activities during conditions where winds are blowing strongly in the direction(s) from the stockpiling location to nearby receivers.	CAQMP (Appendix B6 CEMP) Section 5.2
AQ03	• Odorous materials identified on site will be excavated in a staged process and exposed areas of odours material will be kept to a minimum to reduce the total emissions from the site where feasible.	Appendix A
W04	Suitable areas will be identified to allow for contingency management of unexpected waste materials, including contaminated materials. Suitable areas will be required to be hardstand or lined areas that are appropriately stabilised and bunded, with sufficient area for stockpile storage.	CWRMP (Appendix B5 CEMP) Appendix A

Appendix H - EIS and Amendment Report assessment of ancillary facility locations

The ancillary facilities identified in the EIS and Amendment Report were assessed in accordance with the Critical SSI Standard Conditions of Approval for linear infrastructure projects.

These standard conditions have been developed to help infrastructure providers understand the types of conditions likely to be applied to State significant projects if they are approved, including conditions related to ancillary facilities.

As discussed in the EIS, when locating ancillary facilities, the following criteria should generally be applied:

a) Located more than 50 m from a waterway unless an erosion and sediment control plan is prepared and implemented so as not to affect water quality in the waterway in accordance with Managing Urban Stormwater series
b) Within or adjacent to land where the critical state significant infrastructure is being carried out
c) With ready access to a road network
d) So as to avoid the need for heavy vehicles to travel on local streets or through residential areas in order to access the facility
e) On level land
f) So as to be in accordance with the Interim Construction Noise Guidelines (DECC, 2009) by 200 metres of the nearest residences (300 metres for a temporary batching plant)
g) So as not to require vegetation clearing beyond the extent of clearing for the Project area
h) So as not to have any impact on heritage items (including areas of archaeological sensitivity) beyond the impacts identified, assessed and approved under other terms of this approval
i) So as not to affect lawful uses of adjacent properties that are being carried out at the date upon which construction or establishment of the facility is to commence
j) To enable operation of the ancillary facility during flood events referred to in Section 7.8 of the EIS and Appendix H of the Amendment Report and to avoid or minimise, to the greatest extent practicable, adverse flood impacts on the surrounding environment and other properties and infrastructure
k) So as to have sufficient area for the storage of raw materials to minimise, to the greatest extent practicable, the number of deliveries required outside standard construction hours.

The results of the assessment of each proposed ancillary facility against the criteria above is summarised in Table H-1.

Table H-1 Ancillary facility assessment

Compound location	Ancillary facility site locations criteria (as detailed in Appendix B)									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
West										
AF1	N	Y	Y	Y Access via [redacted] with some residence adjacent	Y	N	Y	Y	Y	Y
AF2	Y	Y	Y	Y Noting there are some residences located adjacent to [redacted]	Y	N	Y	N McGarvie-Smith Farm impacted	Y	Y
AF3	Y	Y	N Access via AF2 or via construction footprint	Y Noting there are some residences located adjacent to [redacted]	Y	Y	Y	N McMaster Field Station impacted	Y	Y
AF10	Y	N Currently established AF for [redacted] located along [redacted] at Luddenham	Y	Y	Y	N	Y	Y	Y	N
AF11	Y	Y	Y	Y	Y	N	N	N	Y	Y
AF17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 001	Y Waterways have been assessed and Current ESCs are sufficient for the use of the Ancillary facility	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 002	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 003	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Compound location	Ancillary facility site locations criteria (as detailed in Appendix B)									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CAF 004	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 005	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 006	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 007	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAF 008	Y Waterways have been assessed and Current ESCs are sufficient for the use of the Ancillary facility	Y	Y	Y	Y	Y	Y	Y	Y	Y

Appendix I – RMS Noise Calculator Outputs

Appendix J –Ancillary Facility Checklist