

Site Establishment Management Plan – Ancillary Facilities

Supply, Operate and Maintain Contract
(Package 5)

Parramatta Light Rail

June 2022

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About this release

Title	Site Establishment Management Plan – Ancillary Facilities Supply, Operate and Maintain Contract (Package 5) Parramatta Light Rail
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Glossary / Abbreviations

Abbreviations	Expanded text
AA	Acoustics Advisor
AEI	Area of Environmental Interest
ASS	Acid Sulphate Soils
AMP	Asbestos Management Plan
Ancillary facility	A temporary facility for construction of the project including an office and amenities compound, construction compound, material crushing and screening plant, materials storage compound, maintenance workshop, testing laboratory, material stockpile area car parking compound and truck marshalling facility.
CAF	Construcciones y Auxiliar de Ferrocarriles
CEMP	Construction Environmental Management Plan
CEP	Community and Engagement Plan
CHMP	Construction Heritage Management Plan
CLMP	Construction Contaminated Land Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CNVIS	Construction Noise and Vibration Impact Statement
CoA	Conditions of Approval
CSSI	Critical State Significant Infrastructure
DPE	Department of Planning and Environment
ECM	Environmental Control Map
EIS	Environmental Impact Statement
EEC	Endangered Ecological Community
EM	GRCLR Environment Manager
EMS	Environmental Management System
ENM	Excavated Natural Materials
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>

Abbreviations	Expanded text
EPA	NSW Environment Protection Authority
EPBC Act	<i>Environmental Protection and Biodiversity Conservation Act 1999</i>
EPL	Environment Protection Licence
EPO	Environmental Performance Outcome
ER	Environmental Representative
GRCLR	Great River City Light Rail
GTP	Groundwater Treatment Plant
ESCP	Erosion Sediment Control Plan
HAMU	Historical Archaeological Management Units
HARD	Historical Archaeological Research Design
HS&E	Health, Safety and Environment
IMS	Integrated Management System
Infrastructure Approval	Approval under the <i>Environmental Planning and Assessment Act 1979</i> for SSI 8285 signed by the Minister for Planning on 29 May 2018.
LORAC	Laing O'Rourke Australia
Minor ancillary facilities	Minor ancillary facilities comprising lunch sheds, office sheds, and portable toilet facilities, that are not identified in the Approval documents but have been approved by the ER.
OEH	Office of Environment and Heritage (former; NSW Department of Planning and Environment)
OOHWP	Out of Hours Works Protocol
PIRMP	Pollution Incident Response Management Plan
PLR	Parramatta Light Rail
PMF	Probable Maximum Flood
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
PD	Project Director
The Project	Supply, Operate and Maintain Contract for PLR
RAP	Remediation Action Plan

Abbreviations	Expanded text
REMMM	Revised Environmental Mitigation and Management Measures
RMS	Roads and Maritime Services
ROL	Road Occupancy Licence
SaMF	Stabling and Maintenance Facility
SEMP/the Plan	Site Establishment Management Plan
SM	Safety Manager
SOM	Supply, Operate and Maintain Contract
SPIR	Submissions and Preferred Infrastructure Report
SSI	State Significant Infrastructure
SWMP	Construction Soil and Water Management Plan
TCP	Traffic Control Plan
TfNSW	Transport for New South Wales
TMC	Traffic Management Centre
UDRR	Urban Design Requirements Report
UFP	Unexpected Finds Protocol
VENM	Virgin Excavated Natural Material

1 Introduction

1.1 Context

This Site Establishment Management Plan (SEMP – the Plan) has been prepared by Great River City Light Rail (GRCLR) for the construction phase of the Supply, Operate and Maintain (SOM) package (Package 5) of the Parramatta Light Rail, which is referred as the ‘Project’ in this Plan.

Parramatta Light Rail (PLR) is a key element of the future transport network announced by the NSW Government. PLR will deliver a new light rail system for Western Sydney between Westmead and Carlingford via the Parramatta CBD and Camellia.

By providing connections to precincts and with transport hubs along the corridor, PLR will improve accessibility within the greater Parramatta precinct growth area as a key component of an integrated transport network supporting growth.

By 2026 approximately 28,000 people will use PLR every day and an estimated 130,000 people will be living within walking distance of light rail stops.

1.2 Background and project description

1.2.1 Parramatta Light Rail description

PLR will connect Westmead to Carlingford via Parramatta Central Business District (CBD) and Camellia. PLR is expected to be operational in 2023.

PLR will create new communities, connect great places and help both local residents and visitors move around and explore what the region has to offer. The route will link Parramatta’s CBD and train station to a number of key locations, including the Westmead Precinct, the Parramatta North Growth Centre, CommBank Stadium, the Camellia Town Centre, the new Powerhouse Museum and Riverside Theatre arts and cultural precinct, the private and social housing redevelopment at Telopea, the Rosehill Gardens Racecourse and the three Western Sydney University campuses.

In summary, the key features include:

- A new dual track light rail network of approximately twelve (12) kilometres in length, including approximately seven (7) kilometres within the existing road corridor and approximately five (5) kilometres within the existing Carlingford Line and Sandown Line, replacing current heavy rail services
- Sixteen (16) stops that are fully accessible and integrated into the urban environment including a terminus stop at each end of Westmead and Carlingford
- High frequency ‘turn-up-and-go’ services operating seven days a week from 5am to 1am. Weekday services will operate approximately every 7.5 minutes in the peak period between 7am and 7pm
- Modern and comfortable air-conditioned light rail vehicles, nominally 45 metres long and driver-operated, each carrying up to 300 passengers
- Intermodal interchanges with existing public transport services at Westmead terminus, Parramatta CBD and the Carlingford terminus
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD along Church Street (generally between Market Street and Macquarie Street) and along Macquarie Street (generally between Horwood Place and Smith Street)

- A Stabling and Maintenance Facility (SaMF) located in Camellia for light rail vehicles to be stabled, cleaned and maintained
- New bridge structures along the alignment including over James Ruse Drive and Clay Cliff Creek, Parramatta River (near the Cumberland Hospital), Kissing Point Road and Vineyard Creek, Rydalmere
- Alterations to the existing road network including line marking, additional traffic lanes and turning lanes, new traffic signals, and changes to traffic flows
- Relocation and protection of existing utilities
- Public domain and urban design work along the corridor and at Stop precincts
- Closure of the heavy rail line between Carlingford and Clyde
- Active transport corridors and additional urban design features along sections of the alignment and within Stop precincts
- Integration with the Opal Electronic Ticketing System (ETS)
- Real time information in light rail vehicles and at Stops via visual displays and audio.

An overview of PLR – stage 1 route is shown in Figure 1-1.

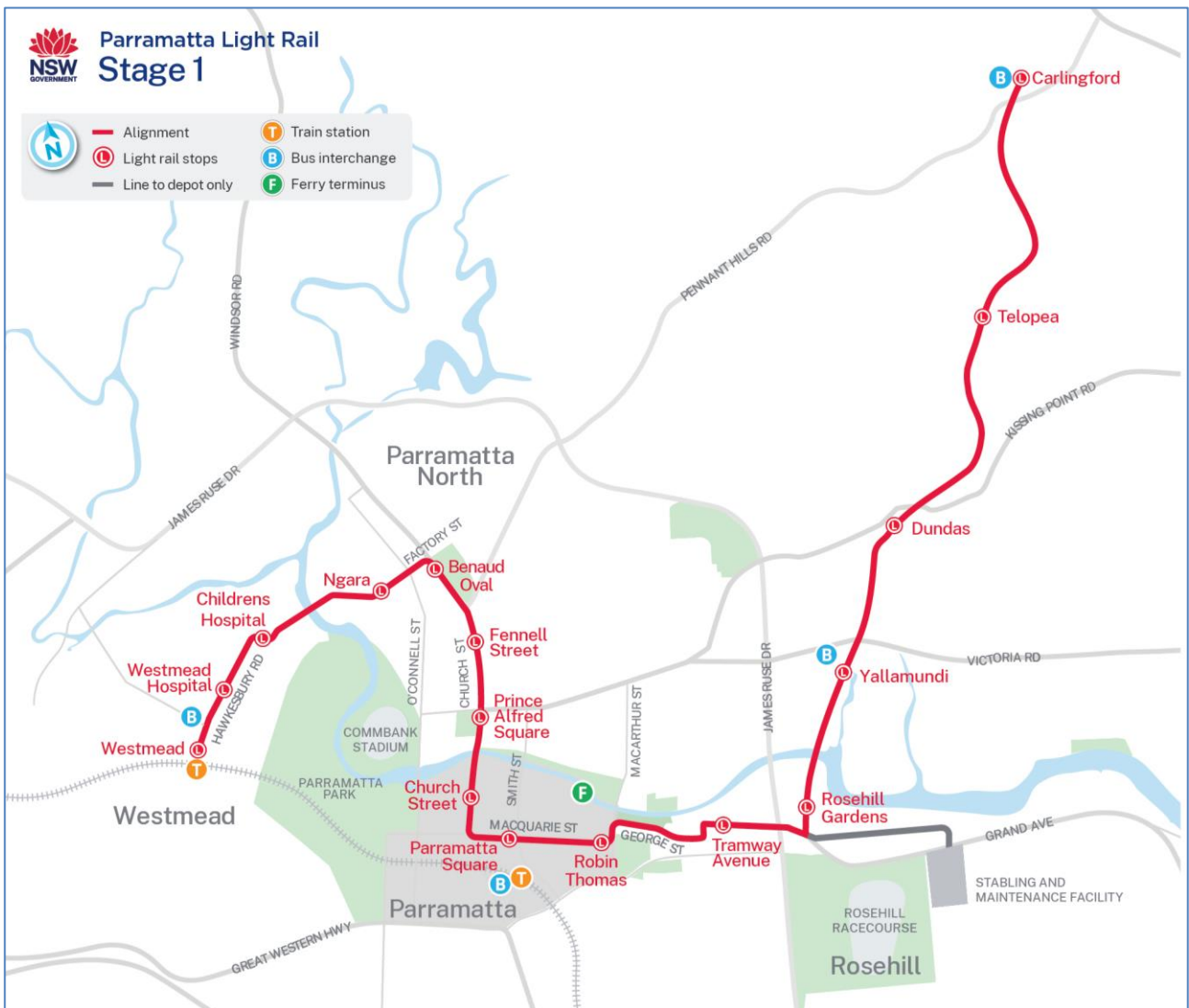


Figure 1-1 Parramatta Light Rail – Stage 1 route

1.2.2 Statutory context

The PLR is a Critical State Significant Infrastructure (CSSI) Project, approved by the Minister for Planning on 29 May 2018, under Section 5.19 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). An Environmental Impact Statement (EIS) was prepared as part of the Infrastructure Application (SSI-8285) as was a Preferred Infrastructure Report (PIR) following public exhibition of the EIS, covering the works identified in section 1.2 of this SEMP.

The Infrastructure Approval has subsequently been modified twice under Section 5.25 of the EP&A Act, with approvals issued on 21 December 2018 and 25 January 2019 respectively. The modifications related to changes to Conditions of Approval (CoAs) not the physical description of the project.

The Infrastructure Approval, modifications and related environmental assessment documents can be found at: http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=8285.

1.2.3 Staging of PLR Works

The PLR comprises approximately 12km alignment from Westmead to Carlingford via Camellia and consists of a mix of both on-street and dedicated corridor.

PLR is being delivered under five delivery packages as detailed in the Staging Report:

- Enabling Works (**Package 1**) – Local road network improvements including O’Connell Street and George Street (off-alignment).
- Westmead Precinct Works (**Package 2**) – Hawkesbury Road widening and demolition at Cumberland Hospital (east and west Campus).
- Early Works (**Package 3**) – Remediation of the SaMF site.
- Infrastructure Works (**Package 4**) – Design and construction of civil works, public domain and light rail infrastructure up to road level/top of rail and to the top of the concrete slab at stops, including provision of utility services (excluding high-voltage power supply and cabling for rail systems), and decommissioning of the T6 Carlingford Line.
- Supply Operate and Maintain Works (**Package 5**) – The Project (subject of this Plan) Design and construction of the light rail systems, high-voltage power supply and stops above slab level, the supply of light rail vehicles, and the design and construction of the SaMF, including all light rail operations, customer service and asset management.

Each package of work is to be delivered under separate contracts on behalf of the proponent Transport for NSW (TfNSW). While the packages will commence at different times under separate construction approvals, there will be periods during which the packages works will overlap. The interactions between the packages are shown in Figure 1-2.

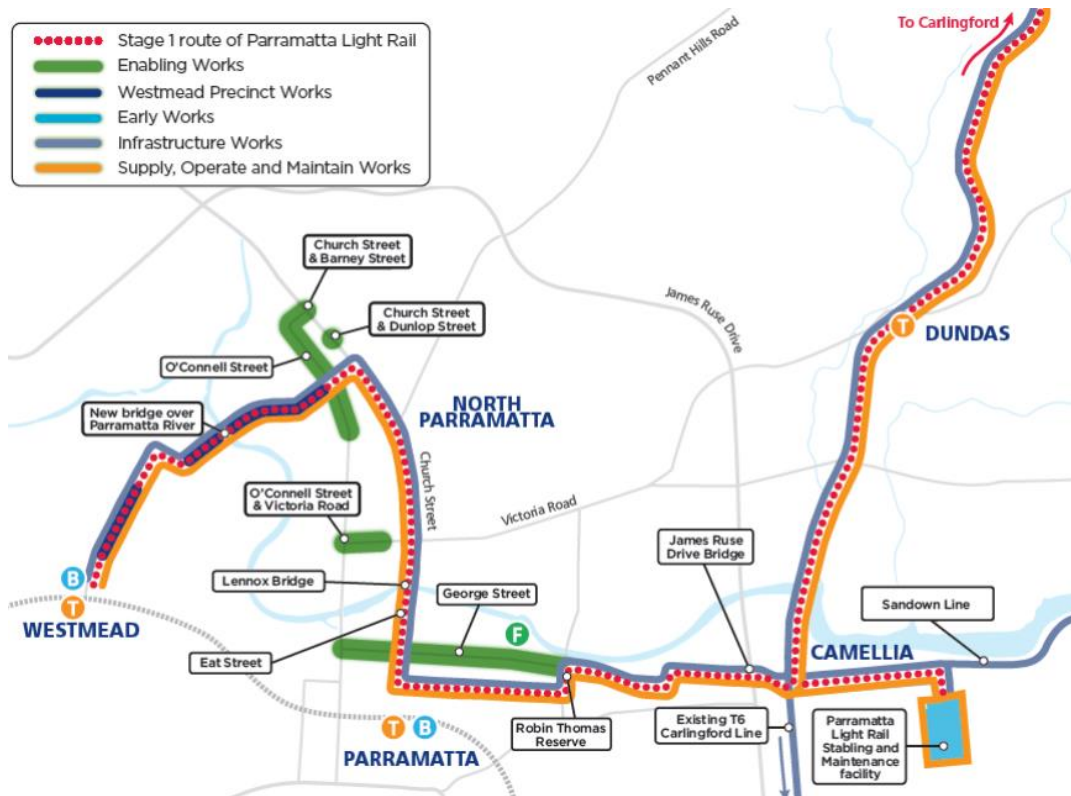


Figure 1-2: Parramatta Light Rail Delivery Package Interface

1.3 Supply, Operate and Maintain Contract (Package 5) Overview

As System Integrator for PLR, the SOM Contractor’s Activities include:

- Delivery Activities
- Light Rail Vehicles (LRV) Procurement
- Operation and Maintenance (O&M).

The delivery activities include all investigation, selection, specification, design, approvals, construction, manufacture, installation, testing & commissioning, operational readiness and activities to transition from the Delivery Phase to the Operations Phase.

In summary works include:

- All works above and additional to the platform concrete foundation slab at all Stops
- SaMF
- Central Control System
- Light Rail signalling system
- Elements of the road intersection signalling system
- Communications and passenger information systems
- Power Supply system
- Procurement of LRV
- Maintenance plant and machinery for the LRVs
- Earthing & bonding, electrolysis and electromagnetic compatibility.

An Operational Environment Management Plan (or Environmental Management System) would be prepared for the O&M stage, in accordance with CoAs D1 and D2.

1.3.1 SOM Roles and Responsibilities

GRCLR is responsible for the delivery of the SOM Works for PLR. GRCLR has sub-contracted out the Supply component of these works to Construcciones y Auxiliar de Ferrocarriles (CAF). CAF has engaged Thales, GE and Laing O’Rourke Australia (LORAC) to undertake the design and construction responsibilities associated with the Supply component of the works, which includes design and construction related activities including testing and commissioning, and excludes all operational and maintenance activities.

GRCLR is the owner of this document and is responsible for ensuring implementation of and compliance within this Plan by all subcontractors in accordance with the GRCLR management systems. For the purposes of terminology within this SEMP, GRCLR is responsible for the delivery of the entirety of SOM scope of works.

Figure 1-3 further details these and other contractual arrangements.

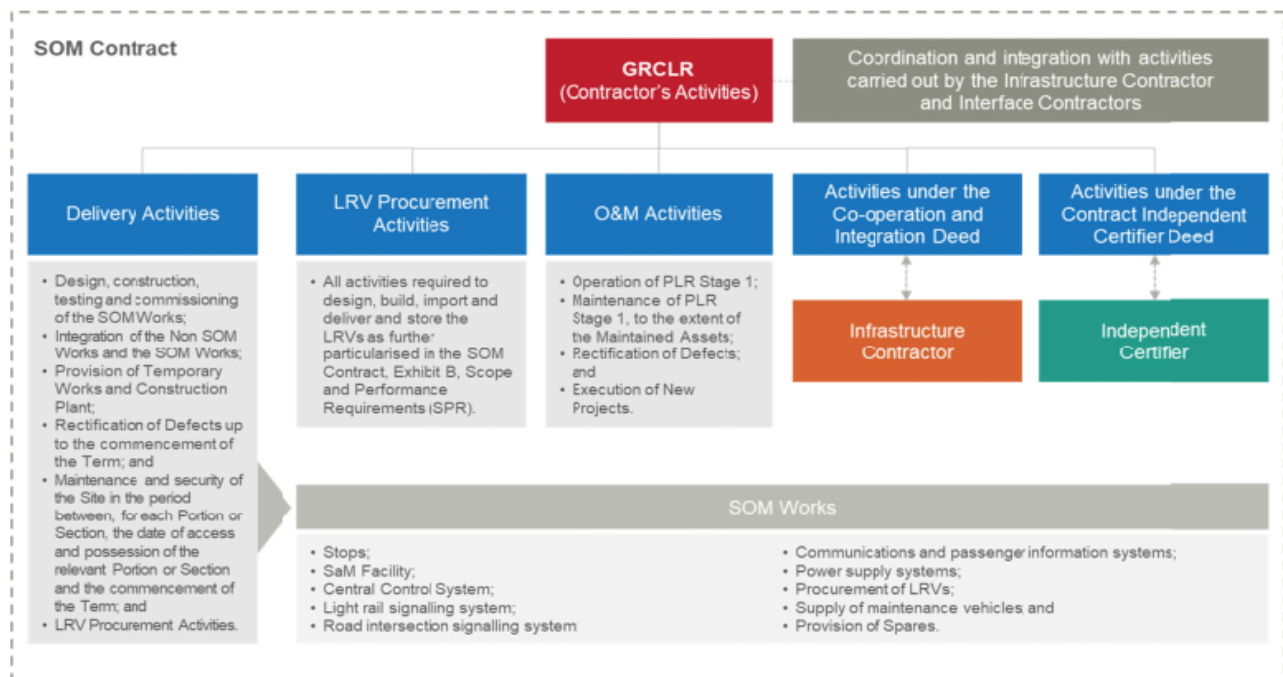


Figure 1-3: SOM contract activities for PLR (the Project)

1.4 Scope of the Plan

This SEMP covers the establishment, operation and decommissioning of the following ancillary facilities required for delivery of the Project:

- 6 Grand Avenue, Camellia (on the Stabling and Maintenance (SAM) Facility site)
- 8 Colquhoun Street, Rosehill
- Dundas Facility, Dundas (Corner of Dudley Street and Calder Road, Dundas)
- Fennell Street, Parramatta (435 Church Street, Parramatta)
- Bridge Road, Westmead.

This Plan has been prepared in accordance with CoA C18 and addresses the Revised Environmental Management and Mitigation Measures (REMMMs) and Environmental Performance

Outcomes (EPOs), relevant to the establishment of the ancillary construction facilities contained within.

The Infrastructure Approval defines an ancillary facility as:

“A temporary facility for construction of the project, including an office and amenities compound, construction compound, material crushing and screening plant, materials storage compound, maintenance workshop, testing laboratory, material stockpile area, car parking compound and truck marshalling facility”.

The EIS identified and assessed several sites required for the delivery of the PLR, including the primary construction compounds identified in Section 6, Figures 6.2a to 6.2h. However, two of the sites covered by this SEMP – 6 Grand Avenue, Camellia, and 8 Colquhoun Street, Rosehill – are not included in the EIS in these figures. The EIS anticipates at Section 6.12 the number and location of construction compounds may change during detailed design and any such change would be the subject of a Consistency Assessment against the Planning Approval. This SEMP will be updated to include the approved ancillary facilities prior to establishment, as and if required.

Appendix H of this SEMP includes a summary consistency assessment for the two sites not included in the EIS, which details how the identified sites address the factors identified in the EIS for selection of viable construction sites. A thorough Consistency Assessment in the TfNSW standard template has been submitted to TfNSW, containing further detail, for review, and approved by TfNSW separate and apart from this SEMP.

Sections 3.2, 3.3 and 3.4 provide compliance tables identifying where in this Plan relevant requirements are addressed.

All GRCLR staff and sub-contractors are required to operate fully under the requirements of this Plan and any relevant Construction Environmental Management Plans (CEMPs).

1.5 Relationship with Relevant Works Packages

1.5.1 Infrastructure Contractor – Parramatta Connect (Package 4)

The Infrastructure Works is closely aligned to the SOM Works. A graphical representation of the split in scope between the two packages is depicted in Figure 1-4. The reason for dividing this work into two packages is to ensure that suitably qualified and experienced sub-contractors are in place for each specialised component; civil infrastructure, and operational systems. The Infrastructure Works will deliver the civil infrastructure components and will not trigger the operational conditions, except for those that relate to detailed design.

An interface between the two packages has been established to monitor cumulative impacts and the coordination of environmental complaints management, site management controls, and the delineation of incident reporting and non-compliance management.

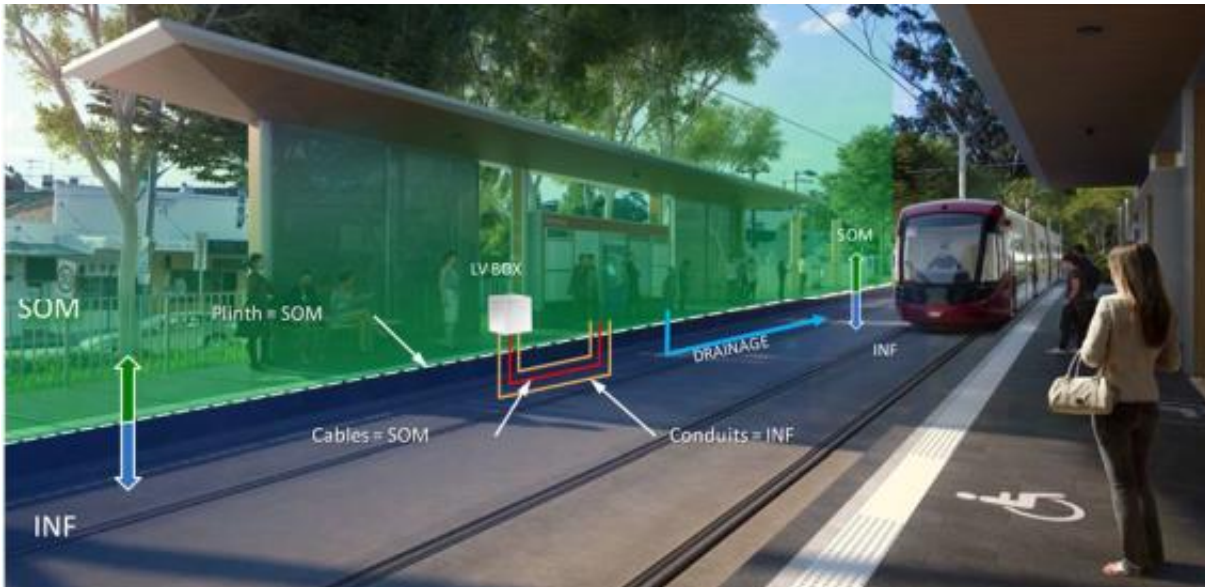


Figure 1-4: Relationship between Infrastructure Works and SOM Works

1.5.2 Remediation Contractor – Ventia (Package 3)

The SOM contract is dependent on the completion of the remediation works at the SaMF site, by the remediation contractor.

The SaMF site is subject to historical contamination and is a listed contaminated site by the Environment Protection Authority (EPA). The works have been split to ensure that appropriately qualified contractor, experienced in remediating heavily contaminated sites, is managing the remediation of the site. The remediation contractor will complete their works and provide GRCLR a remediated site, complete with a site audit statement, and supporting management documentation, fit for purpose for site establishment, construction and operational activities associated with PLR.

The remediation works will deliver the remediated site, including any details of any ongoing management requirements, and will not trigger the construction and operational conditions, except for those that relate to detailed design. The Remediation Contractor will provide GRCLR with a Long Term Environmental Management Plan (LTEMP) for the SaMF, the LTEMP will include all construction, operation, management, maintenance and monitoring requirements for the SaMF. GRCLR will implement the requirements relevant to the construction of the Stabling and Maintenance Facility.

Ongoing management for the remedial works on the SaMF site will be implemented through the LTEMP which will be approved by the Site Auditor, as part of the issuing of the Site Audit Statement (SAS) for the site. The LTEMP will be a stand-alone document, and all monitoring and reporting will be managed through the processes and procedures in the LTEMP, and not through the CEMP.

An interface between the two packages has been established to ensure the remediated site meets the design requirements for the construction, operation and maintenance of the site.

1.6 Environmental management systems overview

The ancillary facilities will be managed in accordance with the GRCLR Integrated Management System (IMS) which includes an Environmental Management System (EMS). The EMS will be adopted as the guiding environmental management framework for the Project. The EMS is compliant with AS/NZS ISO 14001:2015. The EMS is integrated with the GRCLR IMS which includes assurance, quality and health and safety, management systems

The EMS will guide the development of the Project's governance documentation, including this SEMP, the CEMP and associated sub-plans, procedures and management tools to achieve the commitments and intentions established by the GRCLR Environment and Sustainability Policy, to ensure environmental performance and sustainability objectives and targets are achieved.

All works carried out on the site will be in accordance with:

- Infrastructure Approval SSI-8285
- REMMMs
- EPOs
- AS/NZ ISO 14001
- All applicable legislation
- Project Deed
- GRCLR IMS.

1.6.1 Construction Environmental Management Plan

The CEMP and sub-plans prepared for the SOM contract (Package 5) provides the system to manage and control the environmental aspects of the SOM contract during construction. It also provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative and other requirements are fulfilled.

2 Purpose and objectives

2.1 Purpose

The purpose of this Plan is to describe how GRCLR proposes to assess and manage the establishment and decommissioning of the ancillary facilities during construction of the Project.

The operation of each ancillary facility will be undertaken in accordance with the Project CEMP and associated sub-plans.

2.2 Objectives

The key objectives of the Plan are to ensure that impacts caused by ancillary facilities are minimised within the scope permitted by the Infrastructure Approval. To achieve this objective, the following will be undertaken:

- Identify the types of ancillary facilities required for the delivery of the Project and the timing associated with the establishment, operation and decommissioning of facilities
- Describe the proposed activities, hours of operation, staging and types of plant, equipment and materials to be stored on site
- Describe the existing environment and potential environmental impacts associated with construction and operation of the facility
- Identify mitigation, monitoring and management procedures specific to the ancillary facilities, and the implementation of these procedures
- Ensure appropriate measures are implemented to address the CoA as well as relevant requirements (REMMMs and EPOs) from the EIS (See section 3 of this SEMP)
- Provide a framework for the assessment and approval of additional ancillary facilities taking into account amenity of neighbouring properties and environmental impacts.

2.3 Targets

The following targets have been established for the management of impacts resulting from the operation of the ancillary facilities during construction of the Project:

Establishment

- Establish all controls as per the environmental control maps (ECM) and set out in this Plan prior to establishment

Decommissioning

- Decommission within 6 weeks of completion of the construction works

Ensure full compliance with the CoA and REMMMs

- Zero non-conformances against CoA and REMMMs

Minimise any impacts on the surrounding sensitive receivers

- Responding to noise and vibration complaints within 2 hours of complaint being received on the 24-hour phone line
- Zero sediment runoff from stockpiles into watercourses and drains
- No unapproved harm to surrounding trees or those located within the ancillary facility

Minimise impacts and reduce risks to traffic, pedestrian and amenity, including noise impacts to nearby receivers

- Responding to all complaints within 2 hours of complaint being received on the 24 hour phone line
- Closing out complaints within 1 week (where feasible or as agreed with complainant)

Implement the relevant EPOs provided in Table 17.5 of the EIS

- The above targets will be measured during project audits as outlined in Section 8 of this SEMP.

3 Environmental requirements

This Plan has been produced to outline GRCLR's commitment to carrying out the establishment and operation of ancillary facilities for the Project in accordance with the requirements of CoA A2 of the Infrastructure Approval. This chapter describes legislative, regulatory and guidance framework that applies to ancillary facilities.

3.1 Relevant legislation and guidelines

The following legislation, guidelines and standards are relevant to this Plan.

3.1.1 Legislation

Legislation relevant to the management of ancillary facilities includes:

- *Biodiversity Conservation Act 2016*
- *Contaminated Land Management Act 1997*
- *Environmentally Hazardous Chemicals Act, 1985*
- *Environmental Planning and Assessment Act 1979 (EP&A Act)*
- *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)*
- *Heritage Act 1977*
- *National Greenhouse and Energy Report Act 2007*
- *National Parks and Wildlife Act 1974*
- *Pesticides Act 1999*
- *Protection of the Environment Operations Act 1997 (PoEO Act)*
- *Protection of the Environment Operations (General) Regulation 2009*
- *Protection of the Environment Operations (Clean Air) Regulation, 2002*
- *Work Health and Safety Act 2011.*

3.1.2 Guidelines and standards

Guidelines and standards relevant to ancillary facility management include the following publications:

- Action for Air 2009 (NSW DEC)
- Air Quality Monitoring Criteria for Deposited Dust (DEC Guideline)
- Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (DEC 2005)
- Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (DEC 2007)
- AS 3580.1.1:2007 Methods for Sampling and Analysis of Ambient Air – Guide to Siting Air Quality Monitoring Equipment.
- AS 3580.10.1-2003 Methods of Sampling Analysis of Ambient Air
- Assessing Vibration: A Technical Guideline (DEC 2006)

- British Standard 7385: Part 2 “Evaluation and measurement of vibration in buildings”
- German DIN 4150: Part 3 – 1999 Effects of Vibration on Structure (DIN 1999)
- Interim Construction Noise Guideline (ICNG) (DECC 2009)
- Managing Urban Stormwater: Soils and Construction (4th Edition) Volume 1 (Landcom 2004) (the “Blue Book”)
- Managing Urban Stormwater: Soils and Construction. Volume 2D: Main Road, DECC (2008)
- National Environment Protection Council’s (NEPC) – NEPM for Ambient Air Quality Guidelines
- NSW Industrial Noise Policy (INP) (EPA 2000)
- NSW Road Noise Policy (RNP) (DECCW 2011)
- EPA’s Waste Classification Guidelines (2016)
- Policy and Guidelines for Fish Habitat Conservation and Management (2013 update), DPI Fisheries
- Transport for NSW’s Air Quality Management Guidelines (9TP-SD-107/3.0) (TfNSW 2016)
- Transport for NSW’s Chemical Storage and Spill Response Guidelines (DMS-SD-066/6.0) (TfNSW 2019)
- Transport for NSW’s Construction Noise and Vibration Strategy (DMS-ST-157/4.1) (TfNSW 2019)
- Transport for NSW’s Guide to Environmental Control Map (DMS-SD-015/9.0) (TfNSW 2019).

3.2 Minister's Conditions of Approval

The CoAs relevant to this Plan are listed in Table 3-1. A cross reference is also included to indicate where the condition is addressed in this Plan, and a brief summary of how they are addressed is also included. Also included is the definition of “minor” ancillary works as it is relevant to the SEMP.

Table 3-1: Conditions of Approval relevant to the SEMP

CoA No.	Condition Requirements	Document Reference	How Addressed
Table 1: Definitions	<p>Includes all works required to construct the CSSI as described in the EIS/ Submissions Report (incorporating the Preferred Infrastructure Report), including commissioning trials of equipment and temporary use of part of the CSSI; but excluding the following low impact work:</p> <p>(c) establishment of ancillary facilities in approved locations including constructing ancillary facilities access roads and providing utilities to the facility.</p> <p>(d) operation of ancillary facilities if the ER has determined the operational activities will have minimal</p> <p>(k) other activities determined by the ER to have minimal environmental impact which may include construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access including access and egress to construction ancillary facilities;</p>	<p>Section 4</p> <p>Appendix A</p> <p>Appendix D</p> <p>Appendix F</p> <p>Appendix G</p>	<p>This SEMP provides at Section 4 details of the process for approving all forms of ancillary facilities, including minor facilities covered under the definition of ‘Construction’ in the Infrastructure Approval.</p> <p>Appendices A, D, F and Appendix G provide the relevant checklists for the various forms of ancillary facilities.</p> <p>This SEMP is only relevant to the establishment of ancillary facilities and not construction as defined in Table 1 of the Infrastructure Approval.</p>
A1	<p>The CSSI must be carried out in accordance with the terms of this approval and generally in accordance with the description of the CSSI in the Parramatta Light Rail Westmead to Carlingford via Parramatta CBD and Camellia Environmental Impact Statement (dated August 2017) (the EIS) as amended by:</p>	<p>This SEMP</p>	<p>This SEMP has been prepared in accordance with the Infrastructure Approval, EIS, SPIR and all relevant CoAs, REMMMs and EPOs,</p>

CoA No.	Condition Requirements	Document Reference	How Addressed
	<p>(a) the Parramatta Light Rail Westmead to Carlingford via Parramatta CBD and Camellia Submissions Report (incorporating Preferred Infrastructure Report) (February 2018) (the SPIR);</p> <p>(b) SSI 8285 Administrative modification (November 2018) (MOD 1); and</p> <p>(c) SSI 8285 Correction to Administrative modification (January 2019) (MOD 2).</p>		
A2	<p>The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the EIS as amended by the</p> <p>a) the Parramatta Light Rail Westmead to Carlingford via Parramatta CBD and Camellia Submissions Report (incorporating Preferred Infrastructure Report) (February 2018) (the SPIR)</p> <p>b) SSI 8285 Administrative modification (November 2018) (MOD 1)</p> <p>c) SSI 8285 Correction to Administrative modification (January 2019) (MOD 2)</p> <p>unless otherwise specified in, or required under, this approval.</p>	This SEMP	<p>This SEMP provides detail on how the Project will be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the EIS as amended by the SPIR.</p> <p>The CoAs, REMMMs and EPOs relevant to the establishment and operation of the ancillary facilities are listed in Tables 3-1, 3-2 and 3-3, respectively.</p>
A5	<p>Where the terms of this approval require a document or monitoring program to be prepared or a review to be undertaken in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Secretary with the document or monitoring program or review. The evidence must include:</p> <p>(a) documentation of the engagement with the party(ies) identified in the relevant condition of approval before submitting the document for approval;</p>	Section 6	<p>The terms of this approval require the SEMP to be prepared in consultation with the relevant council(s) and relevant government authorities.</p> <p>GRCLR issued the SEMP to the following council(s) and government authorities for consultation:</p> <ul style="list-style-type: none"> • Environment Protection Authority (EPA) • City of Parramatta Council (CoPC)

CoA No.	Condition Requirements	Document Reference	How Addressed
	<p>(b) log of the points of engagement or attempted engagement with the identified party(ies) and a summary of the issues raised by the identified party(ies);</p> <p>(c) documentation of any follow-up with the identified party(ies), where feedback has not been provided, to confirm the identified party(ies) has none or has failed to provide feedback after repeated requests;</p> <p>(d) outline of the issues raised by the identified party(ies) and how they have been addressed, including evidence the party(ies) is satisfied the issues have been addressed; and</p> <p>(e) where there are outstanding issues raised by the identified party(ies) that have not been adopted, the reasons why they have not been/could not be adopted must be provided, including evidence of consultation with the relevant party(ies).</p>		<ul style="list-style-type: none"> • Roads and Maritime Services (RMS) • Emergency Services • Sydney Water. <p>A summary of the outcomes of the consultation is presented in Section 6 of this Plan with detailed consultation logs and comments registers presented in the stand-alone A5 Consultation Report.</p>
C18	<p>Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities.</p> <p>The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant government authorities. The Plan must be submitted to the Secretary for approval one (1) month before establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:</p>	<p>This SEMP Sections 4 and 7 Appendix H</p>	<p>This SEMP covers the following proposed facilities:</p> <ul style="list-style-type: none"> • 6 Grand Avenue, Camellia • 8 Colquhoun Street, Rosehill • Dundas Facility, Dundas (Corner of Dudley Street and Calder Road, Dundas) • Fennell Street, Parramatta (435 Church Street, Parramatta) • Bridge Road, Westmead. <p>The 6 Grand Avenue and 8 Colquhoun Street facilities were not identified by the EIS/SPIR. A consistency assessment was prepared and approved by TfNSW, a summary of which is provided at Appendix H.</p>

CoA No.	Condition Requirements	Document Reference	How Addressed
			<p>Environmental management practices and procedures by proposed site are summarised in Section 7.</p> <p>Consultation with CoPC and RMS (now TfNSW) has been undertaken and summarised in Section 6 of this SEMP, with full details provided in the stand-alone CoA A5 consultation report submitted to DPE together with this Plan.</p> <p>This revision is to facilitate the use of additional compound sites for GRCLR as part of PLR Package 5 which have been previously established and operated by PLR Package 4 (Infrastructure) and therefore approval 1 month prior to establishment is not feasible.</p>
C18 (a)	a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site)	<p>Section 4</p> <p>Sections 5.2, 5.3 and 5.4</p> <p>Appendix E</p> <p>Appendix G</p>	Section 4 describes the construction ancillary facilities and activities that would occur there, with additional detail provided in Appendices E and G.
C18 (b)	figures illustrating the proposed operational site layout(s)	<p>Section 5</p> <p>Appendix A</p>	Figures illustrating the site layouts are provided in Section 5 and Appendix A.
C18 (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 works;	<p>Section 5</p> <p>Appendix B</p> <p>Appendix E</p> <p>Appendix G</p>	<p>Sections 5 reviews the potential impacts associated with the ancillary facilities.</p> <p>An initial risk assessment has been undertaken and is included in Appendix B.</p> <p>Facility specific impacts are provided in Appendices E and G.</p>

CoA No.	Condition Requirements	Document Reference	How Addressed
C18 (d)	<p>details of how the site establishment activities described in subsection (a) of this condition will be carried out to:</p> <p>i) meet the performance outcomes stated in the documents listed in the documents identified Condition A1,</p> <p>ii) to address traffic, pedestrian access and amenity around each site, and</p> <p>iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and</p>	<p>Appendix E Appendix G Appendix B Section 3.4</p>	<p>Environmental control measures and monitoring strategies described in the facility checklists (Appendices E and G) will ensure the impacts of the facilities meet the performance outcomes, address traffic, pedestrian access and amenity, and manage the risks identified in Appendix B.</p>
C18 (e)	<p>a program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Conditions C9 and C11.</p> <p>Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.</p>	<p>Section 8.3</p>	<p>A monitoring and inspection program for all facilities is outlined in Section 8.3.</p> <p>Monitoring will be undertaken in accordance with the approved CFFMP and CNVMonP.</p>
C19	<p>Boundary fencing that incorporates screening must be erected around all construction ancillary facilities that are adjacent to sensitive receivers for the duration of site establishment and construction of the CSSI unless otherwise agreed with Relevant Council(s), affected residents, business operators and/or landowners and in accordance with Condition B2(b).</p>	<p>Section 7 Appendix E Appendix G ECM – Appendix A</p>	<p>Environmental control measure SEM2 requires boundary fencing to be established around compound areas, prior to establishment and for the duration of construction unless otherwise agreed with Council, residents or business operators during consultation.</p> <p>Facility checklists (Appendices E and G) assign the requirement to all facilities.</p>

CoA No.	Condition Requirements	Document Reference	How Addressed
C20	Boundary screening required under Condition C19 of this approval must reduce visual, noise and air quality impacts on adjacent sensitive receivers	Section 7 Appendix E Appendix G ECM – Appendix A	Facility checklists (Appendices E and G) assign the requirement to all facilities.
C21	All construction spoil haulage vehicles and construction plant must be clearly marked as being for the CSSI in such a manner to enable immediate identification within at least 50 metres of the vehicles and plant.	Section 7	SEM21 demonstrates compliance with this CoA.
E23	Notwithstanding Condition E21, works may be undertaken in the Camellia and Rosehill precincts (east of James Ruse Drive) and the Carlingford precinct (from Parramatta River to Victoria Road) 24 hours a day, seven days a week provided that sensitive receivers are not affected by noise levels of greater than 5 dBA above the rating background level at any residence in accordance with the Interim Construction Noise Guideline (DECC, 2009), between 10.00pm and 7.00am.	Appendix E Appendix G	The facility-specific checklists (Appendices E and G) have reviewed the relevance of the condition for each facility and assigned the measures accordingly.
E42	Construction Noise and Vibration Impact Statements must be prepared and implemented for each construction site before construction noise and vibration impacts commence and include specific mitigation measures identified through consultation with affected sensitive receivers. Each Construction Noise and Vibration Impact Statement will supplement the Noise and Vibration Management Sub-Plan and must specifically address each of the major construction sites and must include but not be limited to: (a) a description of the proposed activities;	Appendix E Appendix G	The facility-specific checklists (Appendices E and G) have reviewed the relevance of the condition for each facility and assigned the measures accordingly. The Acoustic Advisor (AA) endorsed CNVIS prepared for the sites detail the required mitigation measures to be implemented as required.

CoA No.	Condition Requirements	Document Reference	How Addressed
	<p>(b) predicted noise and vibration levels based on background noise levels;</p> <p>(c) examination of alternative methods of construction that would potentially reduce noise and vibration if the potential noise and vibration exceeds the relevant criteria;</p> <p>(d) description and commitment to work practices which limit noise and vibration;</p> <p>(e) description of specific noise and vibration mitigation treatments and time restrictions, including respite periods, duration, and frequency;</p> <p>(f) justification for any activities to be undertaken outside the specified construction hours defined in Conditions E21 and E22;</p> <p>(g) internal noise audit systems including recording of daily hours of construction, progressive impact assessments as work proceeds, conducting informal checks by the AA, providing active and communication links to Council and surrounding residents and sensitive receivers;</p> <p>(h) assessment of potential noise from the proposed construction methods including noise from construction vehicles and noise impacts from required traffic diversions;</p> <p>(i) community consultation and notification;</p> <p>(j) all reasonable and feasible measures including adopting the least noisy available construction methods, systems and equipment;</p> <p>(k) additional noise and vibration mitigation measures as negotiated with affected residents and other sensitive receivers.</p> <p>Note: Existing noise levels, pre-construction noise levels, or the like for the purposes of identifying rating background noise levels,</p>		

CoA No.	Condition Requirements	Document Reference	How Addressed
	noise management levels and construction noise impacts are noise levels that do not include any other construction related noise.		
E82	Nothing in this approval permits advertising on any element of the CSSI.	Section 7	SEM2 and 52 demonstrate compliance with this CoA.
E83	The Proponent must design and construct the CSSI in a manner that minimises opportunities for graffiti.	Section 7	SEM2 demonstrates compliance with this CoA.
E86	The CSSI must be constructed in a manner that minimises visual impacts resulting from construction sites, including protecting and retaining existing vegetation around the perimeter of compound sites providing temporary landscaping and screening where appropriate to soften views of the construction sites and minimising light spill to adjacent residential areas	Section 7 Appendix E Appendix G ECM – Appendix A CEMP	Environmental control measure SEM2 requires boundary fencing to be established around compound areas, prior to establishment and for the duration of construction unless otherwise agreed with Council, residents or business operators during consultation. Any remnant screening vegetation will be retained at the ancillary facilities (SEM2) where it has not already been removed by a previous contractor. Facility checklists (Appendices D and F) assign the requirement to all facilities. Toolbox talks and training will include details of ECMs and be tailored to specific environmental issues relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
E97	All lighting to be implemented as part of the CSSI must have regard to the location of nearby residential dwellings. Lighting impacts must be minimised to the extent possible including the use of shields to reduce light spill and annoyance to adjacent residences.	Section 7 Appendix E Appendix G CEMP	SEM32 demonstrates compliance with this CoA. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.

CoA No.	Condition Requirements	Document Reference	How Addressed
			Toolbox talks and training will include details of ECMs and be tailored to specific environmental issues relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
E98	The Proponent must ensure that all external lighting associated with the operation of the CSSI (excluding light rail vehicles) is mounted, screened and directed in such a manner so as not to create nuisance to residences. The lighting must be the minimum level of illumination necessary and shall comply with AS 4282:1997 – Control of the Obtrusive Effects of Outdoor Lighting and relevant Australian Standards in the series AS/NZ 1158 – Lighting for Roads and Public Spaces.	Section 7 Appendix E Appendix G CEMP	SEM32 demonstrates compliance with this CoA. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly. Toolbox talks and training will include details of ECMs and be tailored to specific environmental issues relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
E111	Before undertaking any works and during maintenance or construction activities, erosion and sediment controls must be implemented and maintained to prevent water pollution consistent with LandCom’s Managing Urban Stormwater series (The Blue Book).	Section 7 Appendix E Appendix G	SEM13 demonstrates compliance with this CoA The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly. This CoA is not applicable to 8 Colquhoun Street.
E119	Before commencement of any activities that would result in the disturbance of land and/or soil in Areas of Environmental Interest (AEI) identified as having a high risk of contamination, or identified as medium risk subject to further desktop assessment as specified in the documents listed in Condition A1, a Site Contamination Report must be prepared by a suitably qualified person(s) in accordance with the requirements of the Contaminated Land Management Act 1997 and associated guidelines. The Site Contamination Report must outline the		This CoA is not triggered for Package 5 as all proposed Ancillary Facilities are not identified as AEIs in the EIS.

CoA No.	Condition Requirements	Document Reference	How Addressed
	potential contamination risks from the AEIs to human health and receiving waterways and detail, where relevant, whether the land is suitable (for the intended land use) or can be made suitable through remediation. For AEIs where there is insufficient information and data available to draw such conclusions, the Site Contamination Report must also detail the outcomes of Phase 2 site contamination investigations within those AEIs.		
E120	For those AEIs where a Site Contamination Report is to be prepared in accordance with Condition E119, where the investigations identify the site is suitable for the intended operations and there is no need for a specific remediation strategy, measures to identify, handle and manage potential contaminated soils, materials and groundwater must be identified in the Site Contamination Report and incorporated into the CEMP or relevant sub-plan.		This CoA is not triggered for Package 5 as all proposed Ancillary Facilities are not identified as AEIs in the EIS.
E121	For those AEIs where a Site Contamination Report concludes the site can be made suitable for its intended land use subject to remediation, the Site Contamination Report must include a Remediation Action Plan to address disturbed areas, and how the environmental and human health risks will be managed during the disturbance, remediation and/or removal of contaminated soil or groundwater.		This CoA is not triggered for Package 5 as all proposed Ancillary Facilities are not identified as AEIs in the EIS.
E122	For those AEIs where remediation is required, the Site Contamination Report and Remediation Action Plan must be accompanied by a Site Audit Statement(s), prepared by a NSW EPA Accredited Site Auditor under the Contaminated Land Management Act 1997, verifying the disturbed area has been or can be remediated to a standard consistent with the intended land use. Where land is remediated, a final Site Audit Statement(s) must be prepared by an accredited Site Auditor, certifying the		This CoA is not triggered for Package 5 as all proposed Ancillary Facilities are not identified as AEIs in the EIS..

CoA No.	Condition Requirements	Document Reference	How Addressed
	contaminated and disturbed areas have been remediated to a standard consistent with the intended land use. <i>Note: Terms used in Condition E121 and E122 have the same meaning as in the Contaminated Land Management Act 1997.</i>		
E123	For those AEIs where remediation is required, the land must not be used for the purpose approved under the terms of this approval until a Site Audit Statement determines the land is suitable for that purpose and any conditions on the Site Audit Statement have been complied with.		Compliance with this CoA will be demonstrated for the Package 5 scope of works at 6 Grand Avenue prior to the commencement of operations. The other proposed Ancillary Facilities are not identified as AEIs in the EIS.
E124	A copy of the final Site Audit Statement must be submitted to the Secretary and relevant Council no later than one month before the commencement of CSSI operations.		Where a SAS is prepared for an AEI, the Final SAS (as required by this CoA) will be issued to DPE one month prior to commencement of operations.

3.3 Revised Environmental Mitigation and Management Measures

Relevant REMMMs are listed in Table 3-2. This includes reference to required outcomes, the timing of when the commitment applies, relevant documents or sections of the environmental assessment influencing the outcome and implementation.

Table 3-2: Revised Environmental Mitigation and Management Measures relevant to this SEMP

Ref #	Commitment	Timing	SEMP Reference	How Addressed
GEN - 2	A construction compounds Plan would be prepared for the project as part of the overall CEMP. This sub -Plan would set out details for each of the approved construction compounds, including stockpile areas, laydown areas and other ancillary activities required to construct the project.	Pre-establishment	This SEMP. Section 5 ECM - Appendix A	This SEMP was prepared to comply with CoA C18, which relates to and takes precedence over this REMMM (CoA A2 and A3). The SEMP is a standalone document and is not part of or a sub-plan to the CEMP. Details on each of the ancillary facilities are provided in Section 5. Environmental control maps showing each facility layout are provided in Appendix A.
GEN - 2	Minimise the impact of construction compounds on surrounding land uses and sensitive receivers.	Pre-establishment	Section 7. Appendix A Appendix E Appendix G	Mitigation measures provided in Section 7 are designed to minimise the impact of the facilities on the environment. The relevance of the measures to each facility is shown in the checklists provided in Appendices E and G.
GEN - 2	Locate construction compounds away from sensitive land uses and receivers, wherever practical and feasible, or	Establishment/ construction / decommissioning	Section 7 Appendix A	SEM3/32/33-45 define measures to comply with this REMMM. The facility-specific

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	configure internal compound layouts in a manner that considers noise and light sensitive receivers (e.g. use of buildings to shield noisy activities, minimising the requirement for reversing vehicles, or locating noise intensive activities to maximise the distance to noise sensitive receivers).		Appendix E Appendix G ECM – Appendix A	checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly.
GEN - 2	Manage stockpile areas to minimise potential pollution of watercourses, groundwater and local air quality.	Construction	Section 7 Appendix A Appendix E Appendix G	SEM4/17/18/26/28 are designed to comply with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly.
GEN - 2	Minimise the clearing of vegetation (e.g. street trees and trees within public open spaces) to the minimum amount necessary to construct the project, particularly where construction compounds are proposed in public open spaces/parkland areas.	Establishment	Section 7	SEM5/6/7 demonstrate compliance with this this REMMM.
GEN - 2	Locate construction compounds away from (or able to be managed in such a way so as to not impact on) heritage items and high retention value trees.	Pre-establishment	Appendix B	Known Heritage items are identified in the Compound ECM included in Appendix A. Heritage items adjacent to site compounds will be managed in accordance with the SOM CHMP . . The removal of trees is

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				not required for the establishment of ancillary facilities. Any impacts to trees will be carried out in accordance with CoA E100-E107 including approval by the Independent Arborist (IA) prior to removal and supporting preparation / submission of the IA Tree Register.
GEN - 2	Flood response measures for compounds that are located on land affected by the 20-year ARI flood level (e.g. bridge support construction compounds).	Construction	Section 5	None of the facilities are located on land affected by the 20-year average recurrence interval (ARI) flood.
GEN - 2	Situate construction compounds and ancillary facilities on relatively level ground and avoid excavation in construction compounds where risk of heritage impacts or disturbance of contaminated material.	Establishment	Section 5	None of the facilities involve excavation in areas of known heritage or contamination. All are located on level ground.
GEN - 2	Minimise the visual impact of construction compounds and ancillary facilities through either siting such facilities away from sensitive receivers (where practical and feasible) and/or providing screening.	Establishment	Section 7 Appendix E Appendix G Appendix A	SEM2 demonstrates compliance with this this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measure accordingly.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
GEN - 2	<p>Reinstatement strategies for construction compounds. As a minimum, this would include:</p> <ul style="list-style-type: none"> – At the completion of construction, all plant, temporary buildings or vehicles would be removed. – All land, including roadways, footpaths or other land having been occupied temporarily would be returned to their pre-existing condition or better. – Reinstatement of community spaces, infrastructure and services would occur as soon as possible after completion of construction. – Environmental management measures for construction compounds would be developed as part of the overall CEMP, with the construction compounds sub -Plan identifying where such measures are documented within the CEMP. 	Decommissioning	Section 7 Appendix E Appendix G	<p>SEM10 demonstrates compliance with this this REMMM.</p> <p>The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure to all facilities.</p> <p>Reinstatement of the sites at the cessation of construction will be undertaken under the provisions of the CEMP and sub-plans, and not this SEMP.</p>
BI-3	<p>A requirement to prepare Environmental Control Maps in accordance with Transport for NSW's Guide to Environmental Control Map. The maps would delineate ecologically sensitive areas (such as habitat areas or locations of threatened species, populations or ecological</p>	Pre-establishment	Appendix A	ECMs have been prepared and are provided in Appendix A.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	communities), clearing extents, vegetation to be retained, and any other no-go areas.			
BI-3	Procedures for the clearing of vegetation and the relocation of flora and fauna. Where possible, the removal of native vegetation would be minimised as far as practicable. Measures to minimise the removal of native vegetation would include: Use of high visibility fencing (such as barrier mesh) to delineate vegetation to be retained or limits of clearing.	Establishment	Section 7 Appendix E Appendix G	SEM5/6/7 demonstrate compliance with this this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly. Protected vegetation or fauna habitat are identified in the ECM's included as Appendix A.
BI-3	A trained ecologist would accompany clearing crews to ensure disturbance is minimised and to assist any native animals to relocate to adjacent habitat.	Establishment	Section 7 Appendix E Appendix G	SEM6 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
BI-3	Measures to reduce disturbance to sensitive fauna. Rehabilitation requirements, including identification of flora species and sources, and measures for the management and maintenance of rehabilitated areas	Establishment	Section 7 Appendix E Appendix G	SEM5/7 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	(including for example a program of weed removal and monitoring).			assigned the measure accordingly.
BI-3	Procedure for dealing with unexpected identification of Endangered Ecological Communities or threatened species during construction.	Pre-establishment	Section 7 Appendix E Appendix G	SEM6 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
BI-3	Auditing and monitoring of the Plan.	Construction	Section 8.4 Section 8.7	Monitoring and auditing are included in Section 8.4 and 8.7, respectively
CM-1	During detailed design, a desktop risk assessment would be carried out for the following Areas of Environmental Interest (AEI) to confirm high or medium risk of contamination: <ul style="list-style-type: none"> • 435 Church Street, Parramatta (AEI 9). • 1A Barrack Lane, Parramatta (AEI 13). • 142-154 Macquarie Street, Parramatta (AEI 14). 	Pre-establishment	Section 1.5.2 Appendix A2	This REMMM is not triggered for Package 5 scope of works.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	<ul style="list-style-type: none"> • 127 Alfred Street Parramatta (AEI 16). • Former James Hardie Property at 181 James Ruse Drive, Rosehill and 1 Grand Avenue, Rosehill (AEI 21 and AEI 22). • 6 Grand Avenue, Rosehill (former Akzo Nobel site) (AEI 27). <p>This would involve a review of available data, collaboration with stakeholders and consideration of the extent of disturbance by the project in the vicinity of the AEI. Based on the results of this assessment:</p> <ul style="list-style-type: none"> • Mitigation and management measure CM-2 would apply to AEIs classified as high risk • Mitigation CM-4 would apply to AEIs classified as medium risk. 			
CM-2	<p>Prior to the commencement of construction in the vicinity of these sites, site investigations would be carried out at the following high risk AEI:</p> <ul style="list-style-type: none"> • Former gas works at Queens Wharf Reserve (AEI 15) 	Pre-establishment		This REMMM is not triggered for Package 5 scope of works

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	<ul style="list-style-type: none"> 13A Grand Avenue, Camellia (AEI 21). <p>The results from the site investigations would be assessed against criteria contained within the National Environment Protection (Assessment of Site Contamination) Measure 1999 (2013) to determine any need for remediation.</p> <p>Remediation works would be performed in accordance with the hierarchy of preferred strategies in the Guidelines for the NSW Site Auditor Scheme (DECCW 2006). Where practical, remediation works would be integrated with excavation and development works performed during construction.</p>			
CM-3	<p>For low and medium risk sites, environmental management measures would be applied as detailed in a Construction Contaminated Land Management Plan (CCLMP), as a subplan to the CEMP.</p> <p>The measures would be tailored to address any specific locations where contamination is identified through the current contaminated land investigations. This includes worker health and safety measures.</p>	Establishment		This REMMM is not triggered for Package 5 scope of works

Ref #	Commitment	Timing	SEMP Reference	How Addressed
CM-4	Visual inspections and monitoring would be performed during excavation activities at medium risk AEIs to identify potential indicators of contamination. If suspected contamination is encountered, the materials would be subject to sampling and analysis to determine management requirements and suitability for reuse, recycling or remediation.	Establishment		This REMMM is not triggered for Package 5 scope of works
CM-5	Construction activities within AEI 23 (Sandown Line, including 27 Grand Avenue, Camellia) would be carried out under asbestos control and removal conditions by an appropriately licensed asbestos contractor.	Construction		This REMMM is not applicable for Package 5 scope of works
CM-6	An unexpected finds procedure would be developed and implemented as part of the project CCLMP, outlining a set of potential contamination issues which could be encountered, and detailing the corrective actions to be implemented.	Construction		The GRCLR CLMP (as endorsed by the ER) includes an unexpected finds procedure.
HY-6	Specific measures would be identified in consultation with relevant government agencies and would be consistent with the principles and practices detailed in Landcom's (2004)	Pre-establishment	Section 1.5.2 Section 7 Appendix E Appendix G	SEM13 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	Managing Urban Stormwater: Soils and Construction.			measure for each facility and assigned the measure accordingly.
HY-6	Minimise the extent and duration of exposed surfaces (particularly those works that have the greatest potential to disturb soils that are contaminated or have a high erosion and runoff hazard).	Construction	Section 7 Appendix E Appendix G	SEMM23 and 28 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly.
HY-6	Minimise and manage impacts on water quality and downstream receiving environments during instream activities.	N/A	Section 5	This REMMM is not applicable to the Package 5 scope of works
HY-6	Flood response measures for activities located on land affected by the 20-year ARI flood level (e.g. bridge support construction compounds) or works within waterways (such as bridge works).	N/A	Section 5	This REMMM is not applicable to the ancillary facilities as none of the facilities are within the 20-year ARI flood zone.
HY-6	Where possible, reuse excavated materials as fill on other parts of the project in preference to disposing off-site in accordance with EPA Waste Classification Guidelines (2016).	N/A	Section 5	This REMMM is not applicable to the ancillary facilities as significant earthworks will not be carried out.
HY-6	Areas of potential contamination concern would be identified and works	N/A	Section 5	This REMMM is not applicable to the ancillary facilities as

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	in these areas managed to minimise disturbance.			significant earthworks will not be carried out. The establishment of 6 Grand Avenue may require shallow cable trenching. The remediation of the site by others prior to establishment would preclude the presence of contamination.
HY-6	Excavate pre-classified contaminated materials and transfer such materials directly into haulage trucks for off-site disposal at a waste facility licensed to accept the contaminated material.	N/A	Section 5	This REMMM is not applicable to the ancillary facilities as significant earthworks will not be required.
HY-6	Develop procedures for the assessment, handling and stockpiling of potentially contaminated materials, in accordance with EPA Waste Classification Guidelines (2016).	Construction	Section 7 Appendix E Appendix G	SEM14 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
HY-8	Large areas of disturbance such as compound areas and stockpile sites would, where feasible and reasonable, be located away from any surface runoff flow paths and above the 10% AEP flood levels.	Establishment	Section 5	The facilities are located outside the 1% AEP flood extent, but within the probable maximum flood zone. The facilities would not obstruct overland flow, increasing flood risk elsewhere.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
AQ-1	Apply wheel-wash or rumble grid facilities as appropriate to remove loose material and prevent the tracking of spoil debris onto local roads.	Construction	Section 5 ECM - Appendix A	Stabilised access and wheel wash facilities will be established at Ancillary Facilities where mud tracking is identified as a risk (SEM19).
AQ-1	Clean loose materials and debris from the tailgate of vehicles unloading materials to stockpiles prior to departure from site.	Construction	Section 7 The CEMP	Loose material and debris would be removed from the tailgate of vehicles unloading materials to stockpiles prior to departure from site (SEM20). Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
AQ-1	Conduct routine servicing and maintenance, and subsequent inspections to ensure that equipment continues to operate efficiently.	Construction	Section 7 The CEMP	SEM21 requires: All vehicles and equipment will be maintained and serviced to operate efficiently. All on-road trucks would comply with the relevant Australian emission standards.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				<p>Compliance checks for noise emissions from vehicles and equipment would be carried out.</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>
AQ-1	Ensure that all loads are covered when materials are being hauled to and from site.	Construction	Section 7 The CEMP	<p>All loads will be covered when travelling offsite (SEM22).</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>
AQ-1	Ensure that compound area surfaces are well compacted or sealed to limit the potential for dust generation.	Establishment / construction	Section 7 Section 5 The CEMP	<p>Unsealed ground will be managed to minimise dust emissions e.g. by being compacted or sealed as appropriate (SEM23).</p>

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				<p>Actions will be undertaken at all facilities as appropriate to minimise dust emissions (e.g. compaction, sealing, wetting).</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>
AQ-1	Ensure that structures are inspected by a suitably qualified person to confirm they do not contain any hazardous materials (e.g. asbestos) which could be broken and mobilised during demolition. Where such materials are identified, adhere to the requirements for removal and disposal listed in the Work Health and Safety Act 2011, and Work health and Safety Regulation 2011.	N/A	N/A	This REMMM is not applicable to the ancillary facilities as demolition is not required.
AQ-1	Impose low speeds limits around compound sites to limit the generation of dust from vehicle movements.	Construction	Section 7 The CEMP	Speed limits will be imposed to limit the generation of dust from vehicle movements (SEM24). Speed limits will be posted throughout the site.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
AQ-1	Install dust monitoring devices to quantify dust levels and determine whether control measures are adequate or whether further actions are required.	Construction	Appendix B Section 7	The initial risk assessment review of all facilities identified dust emissions as a low risk, therefore dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression strategies (SEM18). Dust monitoring devices would be installed if dust emissions become a repeated issue (SEM25).
AQ-1	Installation of perimeter screening around areas where there is a potential to generate emissions to air and around long-term compound and stockpile locations.	Establishment	Section 7 Appendix E Appendix G ECM – Appendix A	SEM2 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				assigned the measure accordingly.
AQ-1	Plan activities and avoid adversely windy conditions which may result in the generation of off-site dust impacts.	Construction	Section 7 Section 8.4 Appendix E Appendix G The CEMP	SEM26 demonstrates compliance with this REMMM. Weather will be monitored in accordance with Section 8.4 The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measures accordingly. Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
AQ-1	Position stockpiling areas as far as possible from surrounding receivers.	Establishment / construction	Section 7 Appendix E Appendix G ECM – Appendix A The CEMP	SEM4 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				<p>The ECM for each site identifies proposed stockpile locations as required.</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>
AQ-1	Regularly water exposed and disturbed areas and stockpiles especially during inclement weather conditions.	Construction	Section 7 Appendix E Appendix G The CEMP	<p>SEMM18/23/26/28 demonstrate compliance with this REMMM.</p> <p>The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly.</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>

Ref #	Commitment	Timing	SEMP Reference	How Addressed
AQ-1	Water demolition areas as necessary to minimise the generation of dust.	N/A	Section 5	This REMMM is not applicable to the ancillary facilities as demolition is not required.
AQ-1	Wherever possible and practical, limit the amount of materials stockpiled, extent of disturbed and exposed surfaces. Restoration of cleared areas is to occur as soon as possible.	Construction	Section 7 Appendix E Appendix G The CEMP	SEM18/23/26/28 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly. Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
AQ-1	Apply odour suppressing agents to materials as necessary to minimise related impacts should any contaminated or hazardous materials be uncovered during the works.	N/A	N/A	This REMMM is not applicable to the ancillary facilities as earthworks will not be carried out.
AQ-1	Construction plant and equipment would be well maintained and regularly serviced so that vehicular emissions	Construction	Section 7 The CEMP	All vehicles and equipment will be maintained and serviced to operate efficiently.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	remain within relevant air quality guidelines and standards.			<p>All on-road trucks would comply with the relevant Australian emission standards (SEM21).</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>
AQ-1	<p>All vehicles used on site, for transporting materials to or from site, or for any other activities associated with the project, shall be maintained to avoid the emission of excessive air impurities in accordance with Part 5.8 of the <i>Protection of the Environment Operations Act 1997</i> and the <i>Protection of the Environment Operations (Clean Air) Regulation 2010</i>.</p>	Construction	<p>Section 7 The CEMP</p>	<p>All vehicles and equipment will be maintained and serviced to operate efficiently.</p> <p>All on-road trucks would comply with the relevant Australian emission standards (SEM21).</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>

Ref #	Commitment	Timing	SEMP Reference	How Addressed
AQ-1	All on-road trucks would comply with the relevant Australian emission standards.	Construction	Section 7 The CEMP	<p>All vehicles and equipment will be maintained and serviced to operate efficiently.</p> <p>All on-road trucks would comply with the relevant Australian emission standards (SEM21).</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p>
AQ-1	All chemicals and fuels would be stored in sealed containers as per appropriate regulations and guidelines.	Construction	Section 7 Appendix E Appendix G Section 5 ECM – Appendix A The CEMP	<p>SEMM27 demonstrates compliance with this REMMM.</p> <p>The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measures accordingly.</p> <p>The location of the chemical storage areas are provided in the ECMs in Appendix A.</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air</p>

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
AQ-1	The on-site storage of fuel would be kept to a minimum.	Construction	Section 5	This REMMM is not applicable to proposed ancillary facilities as the sites are proposed to be used as a project office, laydown and carpark, respectively. To keep fuel storage to a minimum, fuel will be supplied to site equipment from a mobile fuel supplier.
AQ-1	Unloading of fuels (diesel or liquefied nitrogen gas (LNG)) would be vented via return hoses that recirculate vapours from delivery to receiver.	N/A	N/A	This REMMM is not applicable to the ancillary facilities fuel is not proposed to be stored onsite.
AQ-1	On dry days, unsurfaced haul roads would be watered to aid dust suppression.	Construction	Section 7 Appendix E Appendix G The CEMP	SEM18/23/26/28 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly. Toolbox talks and training will include details of ECMs and be

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.
AQ-1	Stockpiles left for extended periods would be grassed or covered with appropriate material.	Construction	Section 7 Appendix E Appendix G ECM in Appendix A The CEMP	SEM28 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly. Stockpile locations and mitigation measures, as required, are provided in the ECMs in Appendix A. Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
AQ-1	Chemical/fuel storage tanks would be fitted with a conservation vent (to prevent air inflow and vapour escape until a pre-set vacuum or pressure develops).	Construction	Section 7 Appendix E Appendix G Section 5	SEM27/29 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measures accordingly. Hazardous materials will be stored in the laydown area in self-bunded shipping containers in 6 Grand Avenue. This REMMM is not applicable to 8 Colquhoun Street.
HR-5	Potential environmental hazards and risks associated with construction activities would be identified prior to construction.	Pre-establishment	Appendix B Appendix E Appendix G	An initial environmental risk review and environmental checklists have been completed.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
HR-5	The storage of hazardous materials, and refuelling/maintenance of construction plant and equipment would be carried out in clearly marked and bunded areas within the construction site that are designed to contain spills and leaks in accordance with Australian Standards and DECCW guidelines.	Construction	Section 7 Appendix E Appendix G Section 5 ECM - Appendix A	SEMM27/29/31 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measures accordingly. This REMMM is not applicable to the proposed Ancillary Facilities.
HR-5	Hazardous materials would not be stored below the ten per cent AEP flood level flood level.	Construction	Section 7 Appendix E Appendix G	SEMM30 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measures accordingly.
HR-5	Chemical spill kits would be readily available and accessible to construction workers. Kits would be kept at site compounds and on specific construction vehicles, and all hazardous materials spills and leaks would be reported to site managers	Construction	Section 7 Appendix E Appendix G	SEMM31 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	and actions would be immediately taken to remedy spills and leaks.			assigned the measures accordingly.
HR-5	Employees would be trained in the correct use of spill kits.	Construction	Section 8.2	Training would include the correct use of spill kits.
VL-15	Hoardings including graphics, artwork or project information as identified during detailed design would be installed as early as feasible and reasonable in the construction process. Hoardings would be kept in good condition including the prompt removal of graffiti.	Establishment / construction	Section 7 Appendix E Appendix G	SEM2 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
VL-16	Where feasible and reasonable, the elements within worksites and construction compounds would: Be located to minimise visual impact, for example materials and machinery would be stored behind fencing/hoarding.	Establishment / construction	Section 7 Appendix E Appendix G ECM - Appendix A	SEM32 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly. The layout and features of the ancillary facilities are shown in the ECMs, provided in Appendix A.
VL-16	Include temporary lighting that would be orientated to minimise glare and light spill impact on adjacent receivers.	Establishment / construction	Section 7 Appendix E	SEM3/32 demonstrate compliance with this REMMM.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
			Appendix G	The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measure accordingly.
VL-16	Retain and protect existing vegetation around the perimeters where feasible and reasonable to act as a visual screen.	Establishment	Section 7 Appendix E Appendix G	SEM2 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly. All trees will be retained within the proximity of the proposed ancillary facilities, unless otherwise approved by the Independent Arborist with adequate justification for tree impacts.
VL-17	The footprint of the construction compounds in open space areas would be minimised where feasible to reduce visual impacts. This includes the following areas: <ul style="list-style-type: none">• Westmead compound• Parramatta North compound	Establishment	Section 7 Appendix E Appendix G Appendix A	SEM3 commits to consider open space when developing the layout of a facility.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	<ul style="list-style-type: none"> • Parramatta River Bridge (north) • Dundas • Kissing Point Road • Carlingford 			
NV-2	For construction concentrated in a single area, such as at the stops, worksites, substation construction sites, bridge sites and the SaMF site, temporary acoustic fencing/barriers around the site perimeter would be considered where feasible and reasonable to mitigate off-site noise levels.	Pre-establishment	Section 7 Appendix E Appendix G	SEM33/34 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly.
NV-2	Given the potentially high noise levels at residential receivers, adherence to daytime construction hours would be used for excavation, demolition or rock breaking activities, and for activities concentrated in a single area (i.e. activities that do not move along the alignment, and do not require out-of-hours activities for safety reasons or to minimise disruption to road networks).	N/A	Appendix B	ECMs in Appendix A contain relevant details. Minimal noise is anticipated to be generated from the facilities. Standard Construction Hours as detailed in the CEMP will be followed, with Out of Hours Works approvals to be prepared as required when this is not possible.
NV-2	Where possible, noisy works would be scheduled to minimise impacts to adjacent businesses and commercial properties, such as avoiding	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM36 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	undertaking noisy activities on Eat Street during lunch and dinner periods.			measure for each facility and assigned the measure accordingly.
NV-2	Out of hours works would be programmed to minimise the number of consecutive out of hour work periods impacting the same receptors.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM35 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Consultation would be carried out with local schools and other educational facilities prior to noise intensive works to ensure impacts are minimised during examination periods and/or other critical periods in the school calendar (where works are predicted to exceed the relevant construction noise management level for this receiver). Consultation with nearby childcare centres would be carried out to potentially avoid noisy works during rest periods at the centres (where possible).	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM36 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
NV-2	Simultaneous operation of noisy plant in close proximity to sensitive receptors would be avoided (where possible).	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM37 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Equipment which is used intermittently would be shut down when not in use.	Establishment / construction / decommissioning	Section 7	SEM38 demonstrates compliance with this REMMM.
NV-2	Where possible, the offset distance between noisy plant items and nearby noise sensitive receptors would be as great as possible.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM39 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Where possible, equipment with directional noise emissions would be oriented away from sensitive receptors.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM40 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and

Ref #	Commitment	Timing	SEMP Reference	How Addressed
				assigned the measure accordingly.
NV-2	Construction compounds would use 2.4-metre-high hoarding of solid construction where required to minimise noise on sensitive receivers, where safe to do so.	Establishment	Section 7 Appendix E Appendix G	SEM34 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Structures such as site sheds would be positioned to further shield sensitive and residential receivers from works activities.	Establishment	Section 7 Appendix D Appendix F	SEM3 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Regular compliance checks for noise emissions from all plant and machinery used for the project would be carried out to indicate whether noise emissions from plant items are higher than predicted. This would also identify	Construction	Section 7 Section 8.4	Noise emission monitoring of vehicles and equipment will be carried out (SEM21).

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	defective silencing equipment on the items of plant.			
NV-2	Ongoing noise monitoring would be carried out during construction at sensitive receptors during critical periods to identify and assist in managing high risk noise events.	Construction	Section 7 Section 8.4 Appendix E Appendix G	SEM41 demonstrates compliance with this REMMM. The monitoring requirement is included in Section 8.4 The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Where possible heavy vehicle movements should be limited to daytime hours.	Establishment / construction / decommissioning	Section 7	Where possible heavy vehicle movements would be limited to daytime hours (SEM42).
NV-2	Reversing of equipment should be minimised so as to prevent nuisance caused by reversing alarms, which would be limited to the use of non-tonal reversing alarms.	Establishment / construction / decommissioning	Section 7 ECM in Appendix A	Reversing of equipment would be minimised so as to prevent nuisance caused by reversing alarms, which would be limited to the use of non-tonal reversing alarms (SEM43).

Ref #	Commitment	Timing	SEMP Reference	How Addressed
NV-2	Loading and unloading should be carried out away from sensitive receptors, where practicable.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM44 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
NV-2	Work should be scheduled to provide respite periods from the noisiest activities, and impacted residents should be communicated with to clearly explain the duration and noise levels for the works.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM45 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
TR-9	As far as practical, the construction compounds would be configured so as to not directly impact on trees that would not already be directly impacted by the project. Where trees which can be retained are located within construction boundaries, exclusion fencing would be erected to protect these trees from construction activities. Similarly, for road network modifications away from the main	Establishment	Section 7 Appendix E Appendix G Section 4.2	SEM3/5/7 demonstrate compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measures for each facility and assigned the measures accordingly.

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	alignment, these works would be carried out, as far as practical, so as to minimise any further impact on trees as a result of the project.			
TT-25	<p>To maintain safe motorist, pedestrian and cyclist access where construction works would occur, mitigation and management measures would be detailed in the Construction Traffic Management Plan and implemented during construction. This would include:</p> <ul style="list-style-type: none"> • Use of speed awareness signs in conjunction with variable message signs near construction sites to provide alerts to drivers • Appropriate controls where vehicles are required to cross footpaths to access construction areas, including manual supervision, physical barriers or temporary traffic signals. • Consideration of shared experience educational events that allow pedestrians, cyclists or motorists to sit in trucks and understand the visibility restrictions of truck drivers, and for truck drivers to understand the visibility from a bicycle. 	Construction	Section 7 The CEMP	<p>SEM24 and Section 8.4 demonstrate compliance with the use of speed awareness signs.</p> <p>SEM49 and SEM50 undertakes appropriate controls for movement of vehicles in residential areas</p> <p>Toolbox talks and training will include details of ECMs and be tailored to management of air quality relevant to upcoming works. The toolbox talks are used to ensure environmental awareness continues throughout construction, in accordance with the CEMP.</p> <p>A Traffic, Transport and Access Management Plan will be prepared to support the CEMP and will be used to inform the SEMP.</p>

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	<ul style="list-style-type: none"> ◦ Consideration of pedestrian access needs for elderly people, children and people with disability, where reasonably practicable. • Specific construction driver training to understand route constraints, expectations, safety issues and to limit the use of compression braking. • Safety devices on construction vehicles that warn drivers of the presence of a vulnerable road user located in the vehicles' blind spots and warn the vulnerable road user that a vehicle is about to turn <p>Site specific construction traffic management plans and site specific traffic control plans would be prepared and implemented, including mitigation and management responses associated with the temporary closures (including weekend closures) of:</p> <ul style="list-style-type: none"> • Church Street and Pennant Hills Road. • Church Street and Barney Street. • Church Street and Board Street. • Church Street and Victoria Road. 			

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	<ul style="list-style-type: none"> • Smith Street and Macquarie Street. • Church Street and George Street. • James Ruse Drive. • Grand Avenue. <p>These site-specific traffic management plans would detail:</p> <ul style="list-style-type: none"> • Site access and associated route and turning movements. • Potential activities that could result in the disruption to traffic and transport networks, including pedestrian, cyclist and public transport networks and during special events. • The timing to limit disruptions to the road and transport networks. • The maintenance of access and safety of transport networks, parking and property. • Details responses to the management of an event that directly involves or impacts on traffic and transport networks. 			
WM-2	Construction waste would be managed through the waste hierarchy established under the Waste	Pre-establishment	Section 7 Appendix E	SEM 14 demonstrates compliance with this REMMM as

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	Avoidance and Resource Recovery Act 2001 management hierarchy		Appendix G	far as is relevant for the scope of this Plan. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
WM-2	Classification of waste during construction in accordance with the current guidelines	Construction	Section 7 Appendix E Appendix G	SEM14 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
WM-2	Segregation of waste into stockpiles of spoil, concrete, steel, timber, paper and cardboard and vegetation to make it easier to recycle components and prevent cross contamination.	Establishment / construction / decommissioning	Section 5	Segregation of waste will be carried out by a licenced waste contractor.
PR-5	The design and placement of construction hoardings would consider opportunities to minimise privacy impacts on adjacent residents or other	Establishment	Section 7 Appendix E¶ Appendix G	SEM2 demonstrates compliance with this REMMM. The facility-specific checklists (Appendices E and G) have

Ref #	Commitment	Timing	SEMP Reference	How Addressed
	adjacent land uses sensitive to privacy concerns.		ECM in Appendix A	<p>reviewed the relevance of the measure for each facility and assigned the measure accordingly.</p> <p>All facilities will have boundary hoarding installed.</p> <p>The ECMs in Appendix A shows the placement of the hoarding.</p>

3.4 Environmental Performance Outcomes

Relevant EPOs are listed in Table 3-3 below. This includes reference to required outcomes, the timing of when the commitment applies relevant documents or sections of the environmental assessment influencing the outcome and implementation.

Table 3-3: Environmental Performance Outcomes relevant to this SEMP

ID Ref#	Environmental Performance Outcome	Timing	SEMP reference	How Addressed
EPO-TT-1	The project would implement measures to minimise impacts on the road network, including staging.	Establishment / construction / decommissioning	Section 7	The scheduling of road deliveries would be managed to make sure that road congestion is minimised (SEM48).
EPO-TT-2	Pedestrian and cyclist safety would be maintained.	Establishment / construction / decommissioning	Section 7 ECM/TCP in Appendix A	Traffic Control Plans are developed for all ancillary facilities which manage pedestrian and cyclist interface.
EPO-TT-3	Effective coordination would be carried out to minimise cumulative network impacts.	Establishment / construction / decommissioning	Section 7	The scheduling of road deliveries would be managed to make sure that road congestion is minimised (SEM48).
EPO-TT-4	Access to property would be maintained.	Establishment / construction / decommissioning	Section 7 Appendix B Appendix E Appendix G	Vehicles would be prevented from waiting in public areas where they block access to adjacent properties (SEM50).
EPO-NV-1	Noise levels would be minimised with the aim of achieving the noise management levels where feasible and reasonable.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM 33-45 are designed to minimise noise levels. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the

ID Ref#	Environmental Performance Outcome	Timing	SEMP reference	How Addressed
				measures for each facility and assigned the measures accordingly.
EPO-NV-2	The project would avoid any damage to buildings or heritage items from vibrations.	Establishment / construction / decommissioning	Section 7 Appendix E Appendix G	SEM33 demonstrates compliance with this EPO. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the measure for each facility and assigned the measure accordingly.
EPO-HE-2	The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts to non-Aboriginal heritage items and archaeology.	Establishment	Appendix E Appendix G	Heritage items located adjacent to proposed compounds would be managed in accordance with the Construction Heritage Management Plan.
EPO-AB-1	The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts to Aboriginal heritage items and archaeology.	Establishment	Appendix E Appendix G	Heritage items located adjacent to proposed compounds would be managed in accordance with the Construction Heritage Management Plan.
EPO-F-1	No aspect of the project would materially adversely affect existing flood behaviour in the vicinity of the project.	Establishment	Section 5	The facilities are located outside the 1% AEP flood extent, but within the probable maximum flood zone. The facilities would not obstruct overland flow, increasing flood risk elsewhere.
EPO-SG-1	Erosion and sediment controls during construction would be implemented in accordance with Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom, 2004) and Managing Urban Stormwater: Soils and Construction Volume 2 (Department of Environment and Climate Change, 2008a).	Establishment	Section 7 Appendix E Appendix G ECM in Appendix A	SEM13 demonstrates compliance with this EPO. The facility-specific checklists (Appendices E and G) have reviewed the relevance of the

ID Ref#	Environmental Performance Outcome	Timing	SEMP reference	How Addressed
				<p>measure for each facility and assigned the measure accordingly.</p> <p>The location of the erosion sediment controls is shown in the ECMs, provided in Appendix A.</p>
EPO-SU-1	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy.	Establishment / construction / decommissioning	Section 7	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy (SEM46).
EPO-SU-2	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy.	Establishment / construction / decommissioning	Section 7	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy (SEM47).

4 Ancillary Facilities Approval Process

An overview of the approvals proposed for all ancillary facilities included in the EIS and potential new/changed ancillary facilities for the Project is set out in Table 4-1. These are based on the Infrastructure Approval outlined in Section 1.2 of this Plan.

Table 4-1: Ancillary facilities approval opportunities

	Approved Facility included in EIS / SPIR	CoA C18 [^] Compliant	EIS Section 6.12 Compliant	Additional Actions	Actions for this SEMP
Approved Facilities	✓	✓	N/A	N/A	Include in SEMP for Secretary's Approval
Proposed Facility	✗	N/A	✓	Prepare New/Amended Ancillary Facilities Application Form and Minor Ancillary Facilities Checklist. Consistency Assessment for Environment Manager's review and TfNSW Approval. Prepare Construction Ancillary Facilities Checklist (Appendices C and G).	Include in SEMP
Proposed Minor* Facility	✗	N/A	✓	Prepare New/Amended Ancillary Facilities Application Form and Minor Ancillary Facilities Checklist for Environment Manager's review.	Refer to the ER's approval of the minor facility as being minor

[^] Refer to CoA C18 in Section 1.4 of this Plan for criteria

* Minor as defined by Definition of Construction – Part (K) and Minor Ancillary Facilities Checklist (Appendix C)

*Minor facility must be endorsed and approved by the ER and AA in accordance with A23 and A29

The possible approvals pathways for proposed ancillary facilities are summarised in Figure 4-1. None of the ancillary facilities currently proposed for the Project fall under ancillary facilities assessed in the EIS or SPIR. The process for these compounds is shown in darker grey. A detailed flow chart of approvals for new or amended facilities is provided at Appendix C.

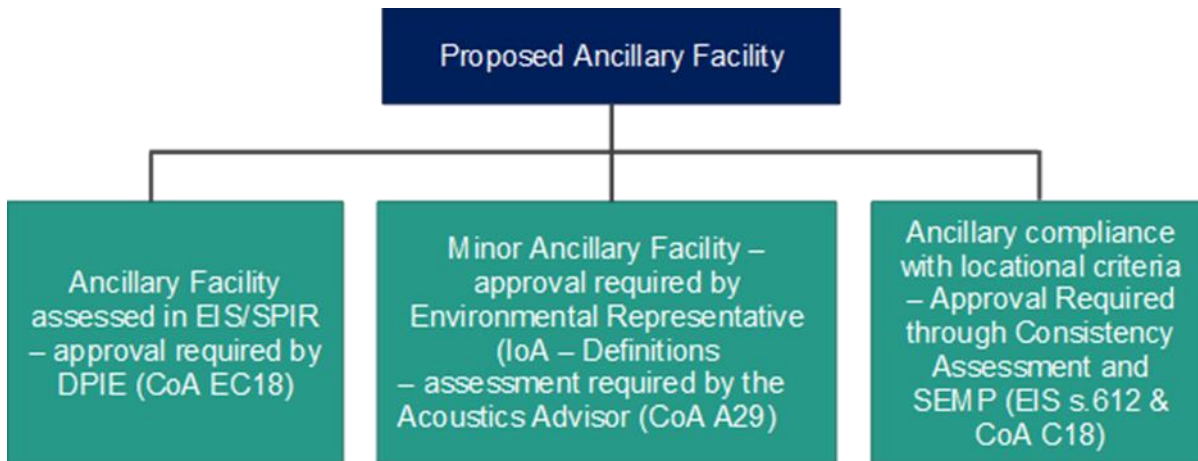


Figure 4-1: Ancillary facility approvals pathway

The EIS and SPIR identify key construction ancillary facilities, for which a SEMP is required to be prepared. CoA C18 provides that a SEMP is required for ancillary sites that are not considered “minor” under the definition of “non-construction works” under the Infrastructure Approval. Minor construction ancillary facilities can be approved by the ER.

C18 - Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities.

The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant government authorities. The Plan must be submitted to the Secretary for approval one (1) month before establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:

(a) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site);

(b) figures illustrating the proposed operational site layout(s);

(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 works;

(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 the documents identified Condition A1,

ii) to address traffic, pedestrian access and amenity around each site, and

iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and

(e) a program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Conditions C9 and C11.

Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.

Where a new site is proposed a consistency assessment will need to be prepared against the EIS, as provided in Section 6.12 of the EIS, to demonstrate consistency of the anticipated impacts and

proposed management and mitigation measures against the EIS and SPIR. The consistency assessment will be provided to TfNSW and the Environmental Representative (ER) or Secretary (as required).

Changes that are not consistent with the Infrastructure Approval will require modification under Section 5.25 of the EP&A Act and determination by the Minister for Planning and Public Spaces. The ER will be informed, and a modification application prepared and be lodged by TfNSW to the Secretary for determination.

4.1 Minor Construction Ancillary Facilities

Minor ancillary facilities are required to service the construction activities along the project alignment. Minor facilities will generally consist of minor site sheds, lunch/crib sheds and portable toilets. These compounds may be co-located near construction activities and generally located within the construction footprint to support the construction workforce. Due to the minor nature and impact of these facilities they are not required to comply with CoA C18 and will be assessed against the following criteria using the Minor Ancillary Facilities template provided in Appendix D and the process in Appendix C. The criteria for minor facilities include that facilities:

- Be located within an active construction zone within the approved project boundary
- Have minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts
- Have minimal impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project
- Have environmental and amenity impacts that can be managed through the implementation of environmental measures detailed in the CEMP for the project.

A minor ancillary facility checklist will be prepared by the Contractor to determine whether a new or amended site is considered minor or not. If determined to be minor the checklist then requires approval by the ER. Once approved these sites will be included on the register contained in (Table A, Appendix A).

A minor ancillary facility must be assessed by the AA in accordance with condition A29.

4.2 Approved Construction Ancillary Facilities under the EIS/SPIR

Key construction compounds and ancillary facilities sites have been previously assessed for the project in the EIS and SPIR. All sites identified in the EIS and SPIR, if used, will be the subject of a SEMP. As provided in CoA C18 a separate SEMP may be prepared for each of the sites.

Approved Ancillary Facilities, as identified in the EIS, include:

- Westmead Station;
- Hawkesbury Road;
- Cumberland Hospital (also known as Bridge Road compound);
- Parramatta North;
- Factory Street;
- Fennell Street;
- Ross Street;
- O'Connell Street;

- Barrack Lane;
- Alfred Street;
- Parramatta River Bridge South;
- Parramatta River Bridge North;
- Vineyard Creek;
- Rydalmere Station (west);
- Rydalmere Station (east);
- Dundas Station;
- Kissing Point Road;
- Adderton Road Compound;
- Telopea Station; and
- Carlingford Station.

GRCLR may require all of the sites listed above. If required, this SEMP will be updated prior to establishment of any of the approved sites listed above.

4.3 New / Amended Construction Ancillary Facilities

The EIS anticipates at Section 6.12 the number and location of construction compounds may change during detailed design. Any new facility would be the subject of a Consistency Assessment against the Infrastructure Approval and an assessment conducted by the AA, while amended ones may require a consistency assessment or may be able to be approved by the ER if the change is deemed to be minor.

For all newly identified construction ancillary sites, a Consistency Assessment will need to be prepared to demonstrate how the new site(s) meet and address the factors identified in Section 6.12 of the EIS for selection of viable construction sites, which includes:

- Location on relatively level ground of sufficient size to accommodate the required facilities;
- Accessible for construction traffic and deliveries;
- Close to key construction activities to minimise transport of materials and equipment;
- On public land to avoid impacts on private land uses/property;
- On sites where acquisition of private property is required for the project alignment;
- Located away from (or able to be managed in such a way so as to not significantly impact on) heritage items, native vegetation, waterways and areas prone to flooding;
- Ability to manage public safety and access around the construction compound;
- Undeveloped nature of the site (i.e. parks) to minimise impacts on existing structures, services, and utilities.

The EIS also provides at Section 9.3 that as a minimum, the construction management plans would incorporate measures, where feasible, to manage cumulative construction impacts, including the SEMP (referred to in the EIS as *Construction compounds and ancillary facilities management Plan*) should identify:

“opportunities to collate compounds with those from other developments to minimise widespread impact and considers the location of the compound in the context of the surrounding areas and access roads required for operation of the compound”.

New ancillary facilities are also to be assessed against the following performance criteria, in accordance with Section 6.12.4 of the EIS:

- Works comply with all relevant mitigation measures as outlined in the CEMP as required under the conditions of the approval.
- Does not increase daytime or night time maximum noise levels or average noise predictions identified within the EIS.
- Not require native vegetation clearing beyond that already required for the project.
- Not have any more than a minor impact on heritage items beyond those already required for the project.
- Not unreasonably affect the land use of adjacent properties.

Appendix C contains a flow chart that outlines the approvals pathways for new and amended ancillary facilities.

4.4 Construction Noise and Vibration Impact Statement

Construction Noise and Vibration Impact Statements (CNVISs) would be prepared and implemented for each ancillary facility. The CNVIS would be prepared and implemented before activities that could potentially generate noise and vibration impacts commence and will include specific mitigation measures to address the predicted impacts. Each CNVIS will be provided to the AA for review and endorsement in accordance with Condition A23(d) and Condition A29(e), respectively. The content of each CNVIS will be prepared by an appropriately qualified acoustic consultant, and will include but not be limited to:

- A description of the proposed activities (construction scenarios), duration and associated plant proposed to be used;
- Predicted noise and vibration levels based on background noise levels;
- Examination of alternative methods of construction or innovative technologies that would potentially reduce noise and vibration if the potential noise and vibration exceeds the relevant criteria;
- Description and commitment to work practices which limit noise and vibration
- Description of site-specific noise and vibration mitigation measures, including such things as respite periods;
- Justification for any activities to be undertaken outside the specified construction hours defined in CoA E21, E22 and E23.

The 6 Grand Avenue and 8 Colquhoun Street facilities are located in the Rosehill and Camellia precinct, east of James Ruse Drive, where under CoA E23, the sites are permitted to operate 24 hours a day, 7 days a week.

5 Ancillary facilities

Ancillary facilities are a temporary facility, normally in an enclosed area used to support construction works in nearby areas. As defined in Table 1 of the Infrastructure Approval, an ancillary facility can include one or more of the following:

- Office and amenities
- Construction compound
- Material crushing and screening plant
- Materials storage compound
- Maintenance workshop
- Testing laboratory
- Material stockpile area
- Car parking
- Truck marshalling.

5.1 Location of Ancillary Facilities and Proposed Uses

Site specific details of the proposed Ancillary Facilities are detailed in the following sections.

5.1.1 6 Grand Avenue, Camellia

The site of the future Stabling and Maintenance Facility, this site has undergone subsurface remediation works subject to render the site suitable for its proposed land use as a SaMF which involved the removal of all vegetation from the site.

The Local heritage listed tram alignment (I6) passes adjacent to the northern end of the site. Grand Avenue lies within the curtilage of the heritage tram alignment.

The site will be established with the following:

- Site security fence with hoarding around the site perimeter.
- Cattle grid and wheel wash facilities at the exit point on Grand Avenue.
- The boundary of the site will be enclosed by an erosion sediment control fence to prevent any offsite flow, ensuring all surface flows are directed to the site's stormwater basin through gravity flow.
- Low-lying stormwater basin in the North East corner to capture stormwater.
- Laydown area, including concrete washout area and hazardous material storage.
- Concrete washout area will be a lined and bunded area where washout will be allowed to solidify before it is disposed of offsite.
- Hazardous materials will be stored in the laydown area in self-bunded shipping containers in accordance with the relevant Australian Standards.
- No fuel will be stored at the site. Fuel will be supplied to site equipment from a mobile fuel tanker. This tanker may park within the laydown area when it is not required.
- Breezeways and emergency muster/meeting points.

- Site-wide lighting (faced into site and down to avoid light spill). Lighting will initially be provided by generator powered tower lights. These will be replaced by grid-powered lighting after establishment of the facility.
- General construction waste bins General construction waste will be removed offsite by a licenced contractor. No general waste segregation will occur onsite.
- Hazardous waste bins will be located in the laydown area. Hazardous waste will be removed offsite by a licenced contractor.
- Power, water and sewer connection to the local grid. Temporary power may be required until the site is connected to the grid.

Ancillary facilities are temporary and only established to assist with construction.

The facility will be used for the following:

- Storage of equipment, materials (hazardous and non-hazardous) and plant prior to mobilisation to the construction sites.
- Refuelling of plant and equipment.

The facility will operate 24 hours each day, seven days a week, in accordance with the EIS and CoA E23 of the Infrastructure Approval.

The layout of 6 Grand Avenue is shown in the ECM provided in Appendix A.

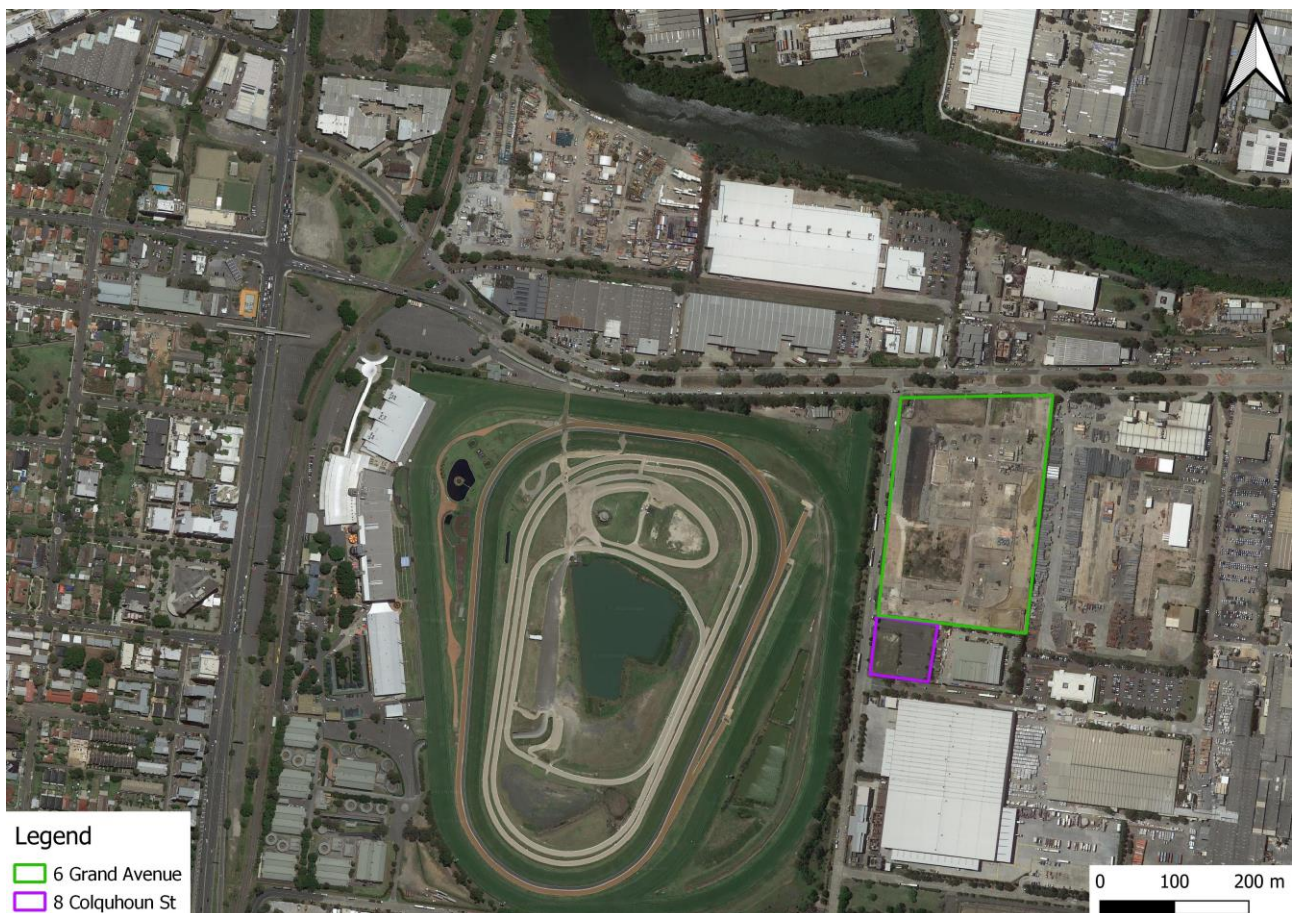


Figure 5-1: Location of the facilities in the Rosehill and Camellia precinct

5.1.2 8 Colquhoun Street, Rosehill

8 Colquhoun Street (Figure 5-2) is an existing private carpark adjacent to the southern boundary of the Stabling and Maintenance Facility. A commercial agreement has been established to allow this site to be used for the project. The site is tarmac-sealed with scattered landscaping including an area of unsealed grassed land located in the south western corner. The facility is surrounded by industrial land uses, with Rosehill Gardens racetrack to the west. There are no environmental sensitivities near the facility.



Figure 5-2: 8 Colquhoun Street

This facility will be the main Construction Ancillary Facility for the construction of the SAMF.

The site will be established with the following:

- Construction Site Offices, Ablutions and Crib rooms,
- Site security fence with hoarding around the site perimeter.
- Breezeways and emergency muster/meeting points.
- Site-wide lighting (faced into site and down to avoid light spill). Lighting will initially be provided by generator powered tower lights. These will be replaced by grid-powered lighting after establishment of the facility.

- General construction waste bins General construction waste will be removed offsite by a licenced contractor. No general waste segregation will occur onsite.
- Power, water and sewer connection to the local grid. Temporary power may be required until the site is connected to the grid.

The facility is already fenced and has existing drainage and lighting. The layout of 8 Colquhoun Street, and its interface with 6 Grand Avenue, is shown in the ECM provided in Appendix A.

5.1.3 Ancillary Facility, Dundas

The Ancillary Facility at Dundas Station (address: Lot 1, DP1021694) is an existing sealed carpark and unsealed area adjacent to the rail alignment, which is an established compound used during the Package 4 – Infrastructure works of the Project. It will be used as an ancillary office compound, lunch-room, materials storage, ablutions area and light vehicle car park for staff and workforce throughout the Package 5 – SOM works, and is adjacent to the location of the Back-up Operational Control Centre (BOCC) to be installed, which will remain in place during operations.

It will be accessed via a driveway to the corner of Dudley Street and Calder Road. There are no pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facility. There is a large significant tree located within the ancillary facility at Dundas which will be retained with necessary protection measures implemented. The location of the facility is shown in Figure 5-3, below, with the layout shown in the ECM provided in Appendix A.



Figure 5-3: Dundas Compound location

5.1.4 Fennell Street, Parramatta

The Fennell Street ancillary facility (also referred to as 435 Church Street) is an established compound used during the Package 4 – Infrastructure works of the Project, which is a combination

of several adjacent commercial properties fronting onto Church Street, Harold Street., Fennell Street and Villiers Street. It will be used as an ancillary office compound, lunch-room, ablutions area, material storage and light vehicle car park for staff and workforce throughout the Package 5 – SOM works.

Access to and from the ancillary facility will be via Villiers Street, Fennell Street and Church Street. Alternative pedestrian and vehicular routes installed during the establishment of the compound in Package 4 will be maintained. No additional impacts to pedestrians or other road users are expected from the continual use of the compound in Package 5. It is noted that, in accordance with REMMM TT-26, heavy vehicle construction traffic is prohibited from using the nearby Trotts Street. The location of the facility is shown in Figure 5-4, below, with the layout shown in the ECM provided in Appendix A.



Figure 5-4: Fennell Street Compound location

5.1.5 Bridge Road, Westmead

The Bridge Road ancillary facility is an established compound used during the Package 4 – Infrastructure works of the Project, which is located to the north-west of Bridge Road, between the Parramatta River and Cumberland Hospital. The facility will be used as an ancillary office compound, lunch-room, ablutions area, material storage and light vehicle car park for staff and workforce throughout the Package 5 – SOM works.

Access to and from the ancillary facility will be via the entrance driveway onto Bridge Road, which is not expected to pose any significant issues to other road users. Pedestrian access across the driveway along the footpath adjacent to Bridge Road will be maintained. There is a significant Aboriginal heritage site located within the compound, identified as 'B14.10d'. The location of the facility is shown in Figure 5-5, below, with the layout shown in the ECM provided in Appendix A.



Figure 5-5: Bridge Road Compound location

5.2 Site establishment, Construction, and decommissioning and rehabilitation

Key activities during establishment of ancillary facility sites that could result in impacts to the environment include:

- Use of public roads, including workforce transit, transportation and delivery of equipment, sheds, materials and wastes
- Civil works including but not limited to, installation/removal of fences, access and egress points, internal access roads, sheds and facilities
- Works around watercourses
- Connection to utilities (e.g. water, power)
- Installation of environmental site controls, including sediment fences, basins, cattle grids, etc
- Storing and stockpiling of construction materials, including hazardous substances, and wastes
- Use of temporary lighting towers during night-time activities
- Unmanaged vegetation clearance.

A pre-condition assessment will be conducted prior to establishment of each site and will include a survey of any buildings and infrastructure (footpaths etc). This assessment will be undertaken to thoroughly inspect the condition of the facility prior to establishment. This report will be reviewed

during decommissioning to ensure the property and surrounding areas are returned to the same or better condition.

An initial environmental risk register is provided in Appendix B, which reviews the key activities for each facility (Section 5.1) and related environmental aspects to identify the potential for impact associated with each facility.

5.3 Impacts

Likely and/or potential impacts associated with the establishment, operation and decommissioning of the ancillary facility sites include:

- Local traffic, pedestrian movements in the public domain and access to properties
- Loss of amenity or visual and landscape character
- Nuisance impact to nearby sensitive receivers (noise, dust, vibration, lighting)
- Impacts to offsite water quality or overland flow paths
- Direct and or indirect impacts to heritage items and trees
- Temporary reduction in privacy for surrounding residents and businesses.

5.4 Management of ancillary facilities

Section 7 of this SEMP provides a suite of control measures that meet the requirements of the CoAs, REMMMs and EPOs, designed to avoid or minimise impacts and maximise the environmental performance of the facilities.

A site-specific Risk assessment has been undertaken for each of the proposed ancillary facilities in accordance with the *Transport for New South Wales (TfNSW) Environment Risk Assessment Procedure (3TP-PR-206/3.0)* which reviews the risk, consequence and likelihood (as defined by TfNSW Project Risk Management - 3TP-PR-086) considering standard controls and assumptions, to calculate a risk rating.

Ancillary checklists are provided in Appendices E and G, which review the environmental impacts for each facility and identify relevant mitigation measures that would be implemented to achieve the performance standards set by the CoAs, REMMMs and EPOs. The relevance of control measures provided in Section 7 to each facility is identified in Table 7-1.

The risk assessment and facility checklists will be live documents throughout the project, which will be reviewed following community complaints or incidents which are related to the establishment, operation or decommissioning of the ancillary facilities.

6 Consultation

Consultation on this SEMP was undertaken with the following stakeholders:

- TfNSW (former Roads and Maritime);
- City of Parramatta Council;
- Environment Protection Authority (EPA).

Stakeholders were provided a hard copy and electronic of this SEMP, and supporting documentation, and asked to provide comments and feedback.

This consultation was undertaken between 29 October 2020 and 10 March 2021, during which time the following stakeholders provided feedback:

- TfNSW Roads and Maritime.

Feedback from stakeholders was considered in the final revision of this SEMP as appropriate.

Full details of consultation undertaken, feedback received, and the GRCLR response is contained in a stand-alone A5 Consultation Report, submitted together with this SEMP to DPE.

Consultation was not required for other facilities as they are to be established at existing compounds.

7 Environmental control measures

Environmental control measures and requirements to meet the objectives of this SEMP (in accordance with the requirements of the CoAs, REMMMs and EPOs) and to address impacts identified in the risk assessment (Appendix B) are outlined in Table 7-1: . The control measures would be implemented at each facility where found to be relevant following review as part of the ancillary facility checklist Appendix E, Appendix G and Table 7-1.

Table 7-1: Construction compounds and ancillary facilities management and mitigation measures

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
SEM1	Site establishment checklists to be completed and approved prior to establishment of an ancillary facility. Refer to Appendix C and D for template checklists.	Site establishment checklist	Pre-establishment	Project Environment and Sustainability Manager	C18 GEN-2/HR-5	Y	Y	Y	Y	Y
SEM2	Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation. Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required. This would include removal of advertising and graffiti. Natural screens created by vegetation would be retained where possible.	Boundary fencing and screens	Pre-establishment	Facility Manager	C19/C20 AQ-1 VL-16 E82/83/86 PR-5	Y	Y	Y	Y	Y
SEM3	Configure facility layout to minimise use of space and consider noise and light sensitive receivers, as well as minimising impact to trees. Use structures to shield sensitive receivers	Layout Plan	Pre-establishment	Facility Manager	GEN-2 NV-2 TR-9 VL-16/17	N	N	Y	Y	Y
SEM4	Manage stockpile areas to minimise potential pollution of watercourses, groundwater and local air quality. Where possible, stockpiles will be located to minimise the potential for impact on nearby receivers.	Appropriately designed stockpile areas and dust suppression systems	Construction	Facility Manager	GEN-2 AQ-1	N	Y	N	N	N
SEM5	Minimise the clearing of vegetation, particularly high value trees and native vegetation Sensitive fauna would be identified and measures developed by a trained ecologist to minimise disturbance by the activities of the ancillary facility	All clearing will be undertaken by other contractors prior to handover to GRCLR.	Pre-establishment	Facility Manager	GEN-2 TR-9	Y	N	Y	Y	Y
SEM6	Vegetation to be cleared should be reviewed by a trained ecologist to determine its biodiversity value and the potential for protected threatened species. Dense vegetation would be cleared with the oversight of a trained ecologist If relevant, procedures for the relocation of flora and fauna would be developed by a trained ecologist	All clearing will be undertaken by other contractors prior to handover to GRCLR.	Pre-establishment / establishment	Project Environment and Sustainability Manager	BI-3	N	N	Y	Y	Y

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
SEM7	Retained vegetation would be protected from damage. Strategies could include barriers and fencing. Damaged areas would be rehabilitated, including ongoing management and maintenance.	Barriers/fencing	Establishment	Facility Manager	BI-3 TR-9	Y	N	Y	Y	Y
SEM8	Facilities within the 20-year ARI flood level must have flood response measures.	Not applicable to establishment of the sites.	Pre-establishment	Facility Manager	GEN-2	N	N	N	N	N
SEM9	Minimise risk to unknown heritage by avoiding excavation in facilities in areas of known heritage.	None of the sites required excavation works for establishment.	Pre-establishment	Facility Manager	GEN-2	N	N	Y	Y	Y
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better	6 Grand Avenue will be the location of the permanent Stabling and Maintenance facility and therefore this does not apply. This will be undertaken as appropriate for all other sites.	Decommissioning	Facility Manager	GEN-2	Y	N	Y	Y	Y
SEM11	Environmental control maps would be prepared for each facility in accordance with TfNSW's Guide to Environmental Control Maps. Each environmental control map would be approved by the ER.	Environmental control map	Pre-establishment	Project Environment and Sustainability Manager	GEN-2 BI-3 AQ-1 HR-5 PR-5 NV-2	Y	Y	Y	Y	Y
SEM12	The potential for acid sulphate soils and contamination would be reviewed prior to any excavation	None of the sites required excavation works for establishment.	Pre-establishment / construction	Project Environment and Sustainability Manager	BI-4	N	N	N	N	N
SEM13	Erosion sediment control measures would be implemented in accordance with Landcom's (2004) Managing Urban Stormwater: Soils and Construction and Construction Volume 2 (DECC, 2008)	Erosion sediment control measures	Establishment	Facility Manager	E111 HY-6	N	Y	Y	Y	Y

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
					EPO-SG-1					
SEM14	Waste would be classified according to OEH's Waste Classification Guidelines (2016) and appropriately managed in accordance with its classification.		Establishment / construction / decommissioning	Facility Manager	HY-6 WM-2	N	Y	Y	Y	Y
SEM15	Waste would be managed through the waste hierarchy established under the <i>Waste Avoidance and Resource Recovery Act 2001</i> management hierarchy		Establishment / construction / decommissioning	Facility Manager	WM-2	N	Y	Y	Y	Y
SEM16	General site housekeeping will form part of compulsory site inductions for all personnel.		Establishment / construction / decommissioning	Facility Manager	WM-2	Y	Y	Y	Y	Y
SEM17	Stockpile sites would, where feasible and reasonable, be located away from any surface runoff flow paths and above the 10% AEP flood levels.		Construction	Facility Manager	HY-8	N	Y	N	N	N
SEM18	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression strategies.	Water cart/other dust suppression methods	Establishment / construction / decommissioning	Project Environment and Sustainability Manager	AQ-1	Y	Y	Y	Y	Y
SEM19	Wheel-wash or rumble grid facilities would be located at the exit of each facility where the vehicles traverse unsealed ground prior to exiting	Wheel-wash or rumble grid facilities	Construction	Project Environment and Sustainability Manager	AQ-1	N	Y	Y	Y	Y
SEM20	Loose material and debris would be removed from the tailgate of vehicles unloading materials to stockpiles prior to departure from site.	Brushes	Construction	Facility Manager	AQ-1	N	Y	Y	Y	Y
SEM21	All vehicles and equipment will be maintained and serviced to operate efficiently. All on-road trucks would comply with the relevant Australian emission standards Compliance checks for noise emissions from vehicles and equipment would be carried out		Establishment / construction / decommissioning	Facility Manager	AQ-1 NV-2	N	Y	Y	Y	Y

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
SEM22	All loads will be covered when travelling offsite		Establishment / construction / decommissioning	Facility Manager	AQ-1	N	Y	Y	Y	Y
SEM23	Unsealed ground will be managed to minimise dust emissions e.g. by being compacted or sealed as appropriate		Establishment / construction /	Facility Manager	AQ-1	N	Y	Y	Y	Y
SEM24	Speed limits will be imposed to limit the generation of dust from vehicle movements	Speed limit signs	Establishment / construction /	Facility Manager	AQ-1	N	Y	Y	Y	Y
SEM25	Dust monitoring devices would be installed if dust emissions become a significant issue	Dust monitoring devices	Construction	Facility Manager	AQ-1	N	Y	Y	Y	Y
SEM26	Activities which may result in the generation of off-site dust impacts would avoid adversely windy conditions		Construction	Facility Manager	AQ-1	Y	Y	Y	Y	Y
SEM27	All chemicals and fuels would be stored in sealed containers as per appropriate regulations and guidelines.	Storage systems	Construction	Facility Manager	AQ-1	N	Y	Y	Y	Y
SEM28	Stockpiles would be covered with an appropriate material if left undisturbed for a long period		Construction	Facility Manager	AQ-1	N	Y	N	N	N
SEM29	Hazardous materials and wastes would be stored in appropriately designed storage facilities, in accordance with Australian Standards and DECCW guidelines	Storage systems	Pre-establishment / construction	Facility Manager	HR-5	N	Y	Y	Y	Y
SEM30	Hazardous materials would not be stored below the ten per cent AEP flood level flood level.		Pre-establishment / construction	Facility Manager	HR-5	N	Y	Y	Y	Y
SEM31	Chemical spill kits would be readily available and accessible to facility workers. Kits would be kept across the facility and on specific construction vehicles, and all hazardous materials spills and leaks would be reported to site managers and actions would be immediately taken to remedy spills and leaks. Employees would be trained in the correct use of spill kits.	Spill kits	Construction	Facility Manager	HR-5	N	Y	Y	Y	Y
SEM32	The facility lighting strategy would be designed to minimise glare and light spill on adjacent properties	Lighting	Construction	Facility Manager	E97 E98 VL-16	Y	Y	Y	Y	Y

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
SEM33	A CNVIS would be developed for the establishment, operation and decommissioning of ancillary facilities if there is the potential for noise impacts to sensitive receivers, including vibration impacts to heritage features. Resulting control measures would be implemented at the facility	CNVIS	Pre-establishment	Project Environment and Sustainability Manager	E42 C20 NV-2 EPO-NV-1 EPO-NV-2	N	Y	N	Y	Y
SEM34	Acoustic barriers and other noise mitigation strategies (e.g. 2.4-v, metre-high hoarding of solid construction) would be considered and implemented for each facility when required to mitigate off-site noise levels.	Acoustic barriers/mitigation strategies	Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM35	Out of hours works would be programmed to minimise the number of consecutive out of hour work periods impacting the same receptors, when noise sensitive receptors are present.		Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM36	When relevant, noise intensive activities would be programmed to avoid critical period for impacted schools, education facilities, childcare centres and other highly sensitive receivers. Where possible, noisy works would be scheduled to minimise impacts to adjacent businesses and commercial properties.		Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM37	When relevant and possible, simultaneous operation of noisy plant in close proximity to sensitive receptors would be avoided (where possible).		Construction	Facility Manager	NV-2	N	Y	Y	Y	Y
SEM38	Equipment which is used intermittently would be shut down when not in use.		Construction	Facility Manager	NV-2	N	Y	Y	Y	Y
SEM39	Where relevant, the offset distance between noisy plant items and nearby noise sensitive receptors would be as great as possible.		Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM40	Where relevant and possible, equipment with directional noise emissions would be oriented away from sensitive receptors.		Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM41	When noise-sensitive receptors are subject to impact from the activities of the facility, noise monitoring would be carried out to identify and assist in managing high risk noise events.		Construction	Project Environment and Sustainability Manager	NV-2	N	N	Y	Y	Y

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
SEM42	Where possible heavy vehicle movements would be limited to daytime hours.		Construction	Facility Manager	NV-2	N	Y	Y	Y	Y
SEM43	Reversing of equipment would be minimised so as to prevent nuisance caused by reversing alarms, which would be limited to the use of non-tonal reversing alarms.		Construction	Facility Manager	NV-2	N	Y	Y	Y	Y
SEM44	Loading and unloading would be carried out away from sensitive receptors, where practicable.		Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM45	Where relevant, activities would be scheduled to provide respite periods from the noisiest activities, and impacted residents should be communicated with to clearly explain the duration and noise levels for the works.		Construction	Facility Manager	NV-2	N	N	Y	Y	Y
SEM46	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy.		Construction	Project Environment and Sustainability Manager	EPO-SU-1	Y	Y	Y	Y	Y
SEM47	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy.		Construction	Project Environment and Sustainability Manager	EPO-SU-2	Y	Y	Y	Y	Y
SEM48	The scheduling of road deliveries across the Project would be managed to make sure that road congestion is minimised. Scheduling would consider special events and other factors that could influence the volume of traffic on the road.		Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-1/3	N	Y	Y	Y	Y
SEM49	Gate keepers will meet arriving deliveries and make sure pedestrians and cyclists are kept clear of turning vehicles.	Gate keeper	Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-2	N	Y	Y	Y	Y
SEM50	Vehicles would be prevented from waiting in public areas where they block access to adjacent properties	Gate keeper	Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-4	N	N	Y	Y	Y

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference	Relevance to facility: (Y-Yes/N-No)				
						8 Colquhoun St	6 Grand Ave	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
SEM51	All construction spoil haulage vehicles and construction plant must be clearly marked as being for the CSSI in such a manner to enable immediate identification within at least 50 metres of the vehicles and plant.		Construction	Senior Construction and Staging Manager	C21	Y	Y	Y	Y	Y
SEM52	GRCLR would not use the ancillary facilities for advertising purposes		Construction	Senior Construction and Staging Manager	E83	Y	Y	Y	Y	Y

8 Compliance management

8.1 Roles and responsibilities

Roles and responsibilities for ancillary facilities and compound management are provided in Table 8-1. Specific responsibilities for the implementation of environmental controls are detailed in Section 7 of this Plan.

Table 8-1: GRCLR Roles and Responsibilities

Title	Roles, responsibilities and authorities relevant to this Plan
GRCLR Project Director	<ul style="list-style-type: none"> Provide environmental leadership across the entire SOM package of works and ensure all SOM obligations under the CoA, legislation and contract to appropriately implement this SEMP are fulfilled.
GRCLR Communications Manager	<ul style="list-style-type: none"> Ensure environmental complaints and enquiries regarding the establishment of ancillary facilities are recorded and responded to appropriately Identify residential and/or commercial stakeholders who are adjacent to or adjoin the ancillary facilities and consult them prior to ancillary facilities establishment.
GRCLR Environment, Planning and Sustainability Manager	<ul style="list-style-type: none"> Provide environmental oversight, direction and leadership regarding the environmental management of the Project Ensure this SEMP satisfies legal and Project requirements Act as the primary contact for TfNSW, the ER and the AA Oversee the development, implementation, assessment and verification of sustainability measures for all works Oversee environmental monitoring, inspections and audits Oversee investigation and close out of any environmental complaints Attend all EPS meetings, inspections undertaken by the ER and monthly Environment Reference Group meetings Interface and co-ordinate with INFRA and other PLR contractors to achieve environmental alignment and management of cumulative impacts (including, but not limited to: OOHW, heritage, tree impacts) Meet all requirements and data collection required to achieve an ISCA score of 70 (as built)
Design and Construct Project Director	<ul style="list-style-type: none"> Provide environmental leadership and ensure adequate resources are provided to effectively implement this SEMP.
Senior Construction and Staging Manager	<ul style="list-style-type: none"> Manage the delivery of the construction process including establishment of ancillary facilities Ensure work is planned and executed to maintain compliance with environmental requirements. Ensure work is planned and executed to maintain compliance with environmental requirements.
Civil Construction Team	<ul style="list-style-type: none"> Ensure appropriate mitigation and management measures are implemented and maintained on site

Title	Roles, responsibilities and authorities relevant to this Plan
	<ul style="list-style-type: none"> • Implement corrective or preventative actions as required to fulfil the requirements of this Plan. • Ensure appropriate mitigation and management measures are implemented and maintained on site • Ensure regular inspections and monitoring requirements are undertaken to check effectiveness of environmental controls • Report environmental incidents and complaints immediately. • Attend Project inductions and environmental awareness training relevant to the ancillary facility • Understand and comply with environmental responsibilities • Be aware of surrounding sensitive environmental and social constraints and act in a manner that minimises impacts to those sensitive areas • Notify their supervisor immediately of any environmental incidents, near misses and hazards.
Project Environment and Sustainability Manager	<ul style="list-style-type: none"> • Is responsible for the on site environmental management and reports to the GRCLR Environment, Planning and Sustainability Manager • Ensure this SEMP is implemented and that appropriate training is provided regarding the requirements of this Plan • Obtain all necessary environmental approvals prior to commencing ancillary facilities establishment • Ensure inspections, observations, monitoring and audits are performed so that compliance is maintained • Ensure all non-compliances are reported • Ensure environmental risks and controls are regularly reviewed • Act as the main point of contact for the GRCLR Environment, Planning and Sustainability Manager • Notify TfNSW, the ER and agencies as required in response to environmental incidents • Ensure corrective and preventative actions are taken after incidents and lessons are shared with other projects or parent companies. • Assist in the development and delivery of environmental training and awareness related to the establishment and operation of ancillary facilities • Undertake inspections, observations, monitoring and audits as required.
TfNSW Representative	<ul style="list-style-type: none"> • Receive a copy of this SEMP • Review documentation provided by GRCLR, where required.
Environmental Representative (ER)	<ul style="list-style-type: none"> • Review and endorse this SEMP prior to submission to DPE • Monitor the implementation of the SEMP and advise TfNSW on the achievement of this Plan • Consider and advise TFNSW, and be the principal point of advice for the Project in relation to the environmental performance of the ancillary facilities

Title	Roles, responsibilities and authorities relevant to this Plan
	<ul style="list-style-type: none"> • Ensure that environmental auditing is undertaken in accordance with TFNSW’s environmental management system • Recommend additional or site-specific environmental controls for proposed ancillary facilities or existing ones in response to observations, inspections and/or complaints • Approve/reject additional ancillary facilities and minor amendments to this SEMP • Be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts • Conduct inspections and audits to monitor the implementation of this SEMP • Be consulted in responding to the community concerning the environmental performance of the ancillary facilities where the resolution of points of conflict between TFNSW and the community is required.
Acoustics Advisor (AA)	<ul style="list-style-type: none"> • CoA A26 requires a suitably qualified and experienced AA to be engaged for the duration of construction and for no less than six months following completion of construction in accordance with the Planning Approval. • CoA A29 requires the nominated AA to fulfil the following requirements: <ul style="list-style-type: none"> ◦ Receive and respond to communication from the Secretary about the performance of the CSSI in relation to noise and vibration ◦ Consider and inform the Secretary on matters specified in the terms of this approval relating to noise and vibration ◦ Consider and recommend, to the Proponent, improvements that may be made to work practices to avoid or minimise adverse noise and vibration impacts ◦ Consider consultation outcomes with affected receivers to determine the adequacy of noise mitigation and management measures including work hours and respite periods ◦ Review all noise and vibration documents required to be prepared under the terms of this approval and, should they be consistent with the terms of this approval, endorse them before submission to the Secretary (if required to be submitted to the Secretary) or before implementation (if not required to be submitted to the Secretary) ◦ Regularly monitor the implementation of all noise and vibration documents required to be prepared under the terms of this approval to ensure implementation is in accordance with what is stated in the document and the terms of this approval • In conjunction with the ER, the AA must: <ul style="list-style-type: none"> ◦ as may be requested by the Secretary, help plan, attend or undertake audits of noise and vibration management of the CSSI including briefings, and site visits; ◦ if conflict arises between the Proponent and the community in relation to the noise and vibration performance during construction of the CSSI, follow the procedure in the Community Communication Strategy approved under Condition B3 of this approval to attempt to resolve the conflict, and if it cannot be resolved, notify the Secretary; ◦ consider relevant minor amendments made to the CEMP, relevant sub-plans and noise and vibration monitoring programs that require updating or are of an administrative nature, and are consistent with the terms of this approval

Title	Roles, responsibilities and authorities relevant to this Plan
	<p>and the management plans and monitoring programs approved by the Secretary and, if satisfied such amendment is necessary, endorse the amendment. This does not include any modifications to the terms of this approval;</p> <ul style="list-style-type: none"> ◦ assess the noise impacts of minor construction ancillary facilities; and ◦ prepare and submit to the Secretary and other relevant regulatory agencies, for information, a monthly Noise and Vibration Report detailing the AAs actions and decisions on matters for which the AA was responsible in the preceding month (or another timeframe agreed with the Secretary). The Noise and Vibration Report must be submitted within seven days following the end of each month for the duration of construction of the CSSI, or as otherwise agreed with the Secretary. <ul style="list-style-type: none"> • Additionally, the AA is to: <ul style="list-style-type: none"> ◦ Be consulted and involved in the preparation and implementation of the Out of Hours Works Protocol in accordance with CoA E28, and Report to the Secretary on outcomes of the community consultation, the identified works and respite periods and the scheduling of the likely out-of-hour works in accordance with CoA E37.

8.2 Training

All employees, contractors and utility staff working at a facility will undergo site induction training relating to the development and operation of the ancillary facility. Environmental requirements will be explained to attendees during site induction and on-going training via tool box meetings, pre-start briefings and notifications. All employees (including subcontractors) will receive induction/ training in the following:

- GRCLR Environment and Sustainability Policy
- Facility environmental objectives and targets
- Understanding individual authorities and responsibilities
- Site environmental rules
- Potential consequences of departure from rules
- Emergency procedure and response (e.g. spill clean-up)
- Basic understanding of their legal obligations.

A record of all environment inductions will be maintained on-site. The GRCLR Environment, Planning and Sustainability Manager may authorise amendments to the induction at any time. Possible reasons for changes to the induction may be modifications to the Infrastructure Works, legislative changes or amendments to this SEMP.

An Induction Register is maintained within the Project Safety Records.

Personnel performing tasks which can cause significant environmental impacts will be competent on the basis of appropriate education, training and / or experience. Specific training for high risk aspects would include the following, as relevant according to the sensitivities of the ancillary facility:

- Erosion and sediment control

- Heritage awareness
- Contamination awareness
- Environmental legal obligations
- Energy and resource usage
- Community and stakeholder awareness
- Biodiversity.

8.3 Environmental incident and emergency response

8.3.1 Environmental incident classification

TfNSW Environmental Incident Classification and Reporting 9TP-PR-105 defines an incident as ‘an occurrence or set of circumstances, as a consequence of which pollution (air, water, noise and land) or an adverse environmental impact has occurred, is occurring, or is likely to occur. Table 8.2 provides incident definitions and Table 8.3 displays the five levels of environmental incident, as defined by the GRCLR Incident Management Plan.

Table 8-2 Environmental Incident Definitions

Type	Definition	Source
Environmental Incident	An occurrence or set of circumstances that causes, or threatens to cause, material harm.	Infrastructure Approval
Material harm	Is harm that: a) Involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or b) Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)	Infrastructure Approval
Notifiable event	Any environmental incident or non-compliance that triggers a specific statutory requirement to notify a regulatory authority.	<i>TfNSW Environmental Incident Classification and Reporting 9TP-PR-105</i>
Non-compliance	An occurrence, set of circumstances or development that is a breach of the planning approval but is not an environmental incident.	<i>TfNSW Environmental Incident Classification and Reporting 9TP-PR-105</i>

Table 8-3 Incident Classification

GRCLR Incident Level	Incident Level Description	Example Events
Level 1	<ul style="list-style-type: none"> Managed at the site level but may need external resourcing over and above that which is usually used by local work teams to manage incidents. 	<ul style="list-style-type: none"> Minor spills.
Level 2	<ul style="list-style-type: none"> Requires off-site co-ordination with moderate levels of external resourcing and support; and/or Causes or has the potential to cause a moderate impact on the environment. 	<ul style="list-style-type: none"> Minor fire.
Level 3	<ul style="list-style-type: none"> Major incident/event that impacts the community beyond the scope of a Level 2 incident. 	<ul style="list-style-type: none"> Emergency evacuation of all or part of the work site; or LRV serious collision, fire or derailment.
Level 4	<ul style="list-style-type: none"> Major incident which requires the activation of the IMT for operational and strategic direction. 	<ul style="list-style-type: none"> Any emergency that significantly impacts on Delivery Activities; Any incident that requires the deployment of EMLOs to external agencies; and Incident involves multiple emergency agencies i.e. Police Forward Command Post.
Level 5	<ul style="list-style-type: none"> Requires or has incurred Combat Agency support/ input. State-wide emergency protocols have been triggered for this level of incident. 	<ul style="list-style-type: none"> Major disaster.

8.3.2 Emergency works and incident response

In accordance with CoA E26, on becoming aware of the need for emergency construction works, GRCLR will notify the ER and TfNSW of the need for those activities or works. GRCLR will also use best endeavours to notify all affected sensitive receivers of the likely impact and duration of those works.

The immediate response to all incidents is to make the area safe and then undertake any reasonable actions to prevent further environmental harm without posing additional risk to staff, workforce or the public. The following steps will also be taken.

All incidents will be immediately reported to the Project Environment and Sustainability Manager or Facility Manager who will assess the situation and manage the following steps according to the scope of incident:

- Stop works
- Immediately take all reasonable steps to contain further damage or danger to personnel, public, property and the environment

- Inform Facility Environmental Manager or Facility Manager
- Contact emergency service personnel as necessary (e.g. fire dept., spill clean-up services, etc). Site emergency response team will also be contacted
- Verbally report incident to TfNSW and the ER
- TfNSW will inform relevant authorities in accordance with the regulatory requirements (EPA immediately and DPE within 24 hours in accordance with CoA A47)
- Provide notification to the HSE General Manager and Head of Legal immediately via phone and email
- Inform the Client's Representative as necessary and in accordance with contractual requirement
- Complete a detailed report of the incident
- Liaise with the Client's Representative regarding corrective and preventive actions required and the timeframes within which these actions must occur
- The designated personnel will undertake the corrective and preventive actions.

The incident response process is to be periodically tested via an environmental emergency drill at intervals not exceeding 12 months.

8.3.3 Notification and Reporting of Incidents

TfNSW and the ER will be notified verbally immediately in the event of an environmental incident, and in writing within 4 hours, in accordance with the *TfNSW Environmental Incident Classification and Reporting Procedure (9TP-PR-105)*. Additional details of the incident would be provided within 48hrs.

Initial notifications will include the following information as a minimum:

- Time, date, nature, duration and location of the incident
- Location of the place where incident has occurred
- Nature, the estimated quantity or volume and the concentration of any pollutants involved
- Circumstances in which the incident occurred and cause of the incident, if known
- Action taken or proposed to be taken to deal with the incident.

A report of the incident, including the results of the incident investigation will be provided to TfNSW within a week of the incident in accordance with the *TfNSW Guide to Environmental Incident and Non-compliance Reporting using the INX System 9TP-SD-005 and CoA A45*, unless otherwise agreed. The report would include the time and date of the incident, details of the incident and would identify any consequent non-compliance with the environmental requirements of the Project. All incidents are also recorded in the Incident Register PLR1SOM-GLR-ALL-PM-REG-000011.

TfNSW hold the primary responsibility for notifying and reporting incidents to DPE (CoA A44) in writing (compliance@planning.nsw.gov.au). The notification must identify the Project (including the CSSI application number) and set out the location and nature of the environmental incident.

If an incident requires EPA notification under the POEO Act, GRCLR hold the primary responsibility for notifying and reporting incidents to EPA. In accordance with CoA A47, TfNSW will also notify DPE within 24 hours after a notification is provided to the EPA. GRCLR will assist and cooperate with TfNSW to fulfil these obligations. TfNSW and GRCLR will implement all written requirements of the Secretary, which may be given at any point in time, to address the cause or

impact of an incident within any timeframe specified by the Secretary or relevant public authority in accordance with CoA A46.

Notification and reporting of an incident as defined in Table 8.2, to the relevant authorities, ER and other stakeholders will also be undertaken as required. This will generally be undertaken by TfNSW with the support of the GRCLR Environment, Planning and Sustainability Manager.

Subcontractors on the Project will be required to notify GRCLR of all environmental incidents, with verbal notification to be provided immediately. Failure to complete the required notifications will be considered a system non-compliance.

8.3.4 Incident Investigation

Incident investigation will consider the following:

- Sequence of events that led to the incident.
- The key findings of the investigation (i.e. what are the main causes of the incident).
- The management methods to be changed and/or implemented to avoid the incident reoccurring
- What can we learn from this investigation into the incident?

Section 2.8 of the *TfNSW Standard Requirements* specifies the following incident investigation protocols:

- GRCLR will undertake a preliminary investigation of all Class 3 incidents within five business days of the incident, unless otherwise agreed by TfNSW. Major investigations must be completed within 20 business days of the incident. Terms of reference for major investigations will be issued by TfNSW. If TfNSW requires the appointment of an external independent investigator, GRCLR will bear the cost of that appointment
- TfNSW may participate in any investigation being undertaken by GRCLR or initiate its own investigations. If TfNSW instigates its own investigation GRCLR will provide TfNSW with all assistance reasonably required for the purposes of the investigation, this includes the waiver of legal professional privilege over any investigation report prepared by, or on behalf of, GRCLR. The parties may agree that any investigation report that is subject to legal professional privilege may, between GRCLR and TfNSW, be subject to a common interest privilege
- In the event of an incident or issue, GRCLR will not contact or provide information to any person (other than that which is required to directly manage the Incident or to comply with law), including any stakeholder, the media or the public, without the prior approval of the TfNSW. GRCLR will make available senior personnel to respond to the community, the media and other stakeholders when required by TfNSW.

8.4 Monitoring and inspection

Key characteristics of the facility operations and activities which have a potential to impact the environment will be regularly monitored and measured with the goal to achieve the targets set out in Section 2.3 of this Plan. Table 8-3 sets out the monitoring strategy for each of the facilities. The results of the monitoring will be recorded by the Project Environment and Sustainability Manager to track performance.

Table 8-4: Monitoring requirements

Subject of monitoring – method of monitoring	Location of monitoring	Frequency of monitoring	Responsibility	Target/exceedance level	Relevant to:				
					6 Grand Ave	8 Colquhoun St	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
Condition of boundary fence and hoarding - visual	Site perimeter	Weekly	Facility Manager	No tears/graffiti with a clean appearance	Y	Y	Y	Y	Y
Efficacy of erosion and sediment control - visual	Site perimeter	Weekly	Facility Manager	Control measures are in good condition and functioning as designed	Y	Y	Y	Y	Y
Site housekeeping, including contamination and escape of wastes and materials - visual	Site wide	Weekly	Project Environment and Sustainability Manager	No litter, wastes or materials outside of their designated storage area	Y	Y	Y	Y	Y
Sensitive area barriers/fencing - visual	Site wide	Weekly	Project Environment and Sustainability Manager	Barriers are in good condition and the sensitive area has not been compromised	N	N	N	N	N

Subject of monitoring – method of monitoring	Location of monitoring	Frequency of monitoring	Responsibility	Target/exceedance level	Relevant to:				
					6 Grand Ave	8 Colquhoun St	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
Dust emissions - visual	Site wide	Daily	Project Environment and Sustainability Manager	Observation of dust emissions would trigger dust suppression strategies to prevent dust becoming airborne.	Y	Y	Y	Y	Y
Dust emissions - equipment	Specific locations	Dust monitoring devices would be installed if dust emissions become a significant issue at offsite properties	Project Environment and Sustainability Manager	No dust impacts to offsite properties.	Y	N	Y	Y	Y
Clean public roads - visual	Exit of facility	Daily	Facility Manager	Clean road free of debris and soil	Y	N	Y	Y	Y
Noise emissions from vehicles and equipment - equipment	All site vehicles and equipment	Monthly	Facility Manager	Noise emissions would meet the manufacturers' specifications.	Y	N	Y	Y	Y

Subject of monitoring – method of monitoring	Location of monitoring	Frequency of monitoring	Responsibility	Target/exceedance level	Relevant to:				
					6 Grand Ave	8 Colquhoun St	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
Site speed limit - equipment	Site wide	Periodically	Facility Manager	Speed limit set to minimise dust emission. Vehicles adherence to the speed limit to be monitored	Y	N	N	N	N
Weather – online forecast	Site wide	Daily	Project Environment and Sustainability Manager	Dust generating activities to be restricted or suitably mitigated on dry windy days	Y	N	Y	Y	Y
Glare/light spill - visual	Site wide	Monthly	Facility Manager	No light spill into adjacent properties	Y	Y	Y	Y	Y
Idling equipment - visual	Site wide	Weekly	Project Environment and Sustainability Manager	No plant to be left idling	Y	N	Y	Y	Y
Noise emissions at sensitive receivers - equipment	Noise-sensitive receivers	During high noise activities where a CNVIS has identified a potential impact	Project Environment and Sustainability Manager	No noise affected sensitive receivers.	N	N	Y	Y	Y

Subject of monitoring – method of monitoring	Location of monitoring	Frequency of monitoring	Responsibility	Target/exceedance level	Relevant to:				
					6 Grand Ave	8 Colquhoun St	Dundas	Fennell Street, Parramatta	Bridge Road, Westmead
Waste tracking – tracking register	Site wide	Monthly	Project Environment and Sustainability Manager	No waste non-conformances	Y	Y	Y	Y	Y

8.4.1 Environmental performance management and reporting

Environmental Inspection Report

An Environmental Inspection Report will be used to monitor environmental issues and performance at each facility. The report will be completed on an at least weekly basis and submitted to the Facility Manager.

Non-conformances

Non-conformance to the requirements of this Plan that cannot be rectified immediately will be recorded and addressed by raising a Non-conformance and Corrective Action Report. The Corrective Action Report will document the agreed actions and timeframes for addressing the environmental non-conformance. If required, works in the affected area are to cease until corrective actions are made and the non-conformance is closed out. Environmental non-conformances of a serious nature are to be closed out immediately.

Non-conformances shall be managed and recorded in accordance with:

- TfNSW Guide to Environmental Incident and Non-compliance Reporting using the INX System 9TP-SD-005
- TfNSW Environmental Incident Classification and Reporting 9TP-PR-105.

Subsequent corrective and preventive actions may include:

- Undertaken an environmental investigation or monitoring program to determine risk or impact to identified receptors
- Site remediation and rehabilitation
- Increased site inspections and monitoring requirements
- Increase environmental awareness (re-training, tool-box meetings)
- Review and improve existing environmental controls - job safety analyses/ work method statements and management plans.

The Project Environment and Sustainability Manager (or delegate) will monitor non-conformances closely and track their close out. Re-inspection of the work or item is to be conducted before close out.

Environmental Monitoring Report

A monthly Environmental Monitoring Report will be produced and submitted to TfNSW, which will report on the following:

- Result on the monitoring strategy presented in Table 8-4
- Environmental improvements and initiatives or corrective measures
- Environmental incident management, including the outcomes from incident investigations and corrective actions.

8.5 Compliance reporting

A Project-wide Compliance Tracking Program (CTP) has been developed and is maintained by TfNSW in accordance with CoA A30. GRCLR provides updates to TfNSW to incorporate into the CTP. The CTP contains all the CoAs (Table 3-1), REMMMs (Table 3-2) and EPOs (Table 3-3) in this Plan and satisfy the requirements of CoA A30 to A34. The compliance reporting required under the CTP will record the progress and status of compliance.

The CTR will be reviewed and endorsed by the ER every six months, and will be maintained by TfNSW for the duration of the Project, and for a minimum of one (1) year following the commencement of operations.

8.6 Licences and permits

To undertake the establishment of the ancillary facilities, the following licenses and permits may be required:

- Road Occupancy License – these will be sought directly from Sydney Co-Ordination Office
- Sydney Water permit to connect services (sewer / water)
- Electrical permit to connect site power (Endeavour Energy / Ausgrid).

Based on Clause 33(4)(d) of Schedule 1 of the POEO Act the Project is only required to have an Environment Protection Licence (EPL) for the construction of rail infrastructure, however it is not required for establishment of the ancillary sites. Reporting under the EPL will include activities at ancillary sites identified in the premise maps as being subject to the provisions of the EPL.

8.7 Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental controls, compliance with this Plan, CoAs/REMMMs/EPOs and other relevant approvals, licenses and guidelines.

8.7.1 Internal audits

Internal auditing will be undertaken generally on a six-monthly basis throughout the Project. The purpose of internal auditing is to verify compliance with:

- The CEMP and sub-plans (including this Plan)
- Planning Approval requirements (CoAs, REMMMs and EPOs)
- Any relevant legal and other requirements (e.g. licenses, permits, regulations, TfNSW contract documentation).

The internal audit scope will focus on activities of high environmental risk as identified in the Project environmental risk assessment. The findings of the internal audits will be used to update the CTP and this Plan.

An audit report will be issued to management for action. Actions will be followed up for close-out of actions within 1 month of the issue of the audit report.

8.7.2 Independent audits

An Independent Environmental Audit will be conducted every year (alternate six months to the internal audit) for the duration of the construction program against the relevant terms of the Infrastructure Approval, the CEMP and management sub plans, including this Plan.

Internal and external environmental audits would be undertaken in accordance with *AS/NZS ISO 19011:2014 Guidelines for Auditing Management Systems* and follow an environmental audit programme submitted to the Secretary for information no later than one month before commencement of construction. The environmental audit programme, as submitted to the Secretary, will implemented for the duration of construction. An indicative audit programme is provided in the CEMP, which will be updated following approval of TfNSW and the Secretary. TfNSW has submitted the audit program to DPE as part of the CTP.

The Independent Environmental Audits will be undertaken by a suitably qualified, experienced and independent auditor.

In accordance with CoA A43, the Independent Environmental Audit Report will be submitted to the Secretary for information, with a response to any recommendations contained in the audit report within six weeks of completing the audit.

8.7.3 Sub-contractor audits

Where they are required by the Project risk assessment, sub-contractors will be audited as determined by the Project Environment and Sustainability Manager using a risk-based approach and/or in response to repeat incidents.

9 Review and improvement

9.1 Continuous improvement

Continuous improvement of this Plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance
- Determine the cause or causes of non-conformances and deficiencies
- Develop and implement a Plan of corrective and preventative action to address any non-conformances and deficiencies
- Verify the effectiveness of the corrective and preventative actions
- Document any changes in procedures resulting from process improvement
- Make comparisons with objectives and targets.

9.2 SEMP update and amendment

Periodic assessments and reviews of this SEMP will be conducted by project management personnel as required in response to issues identified during inspection of establishment works, or in response to an incident or non-conformance.

The review will generate actions for the continual improvement of the SEMP. The responsible environmental manager will record the outcomes of the review, including subsequent changes, how the site/project team will be informed of the changes and when the reviewed SEMP will be submitted to the ER for review and approval.

Only the GRCLR Environment, Planning and Sustainability Manager, or delegate, has the authority to change any of the environmental management documentation.

A copy of the updated Plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure.

Appendix A – Approved and proposed ancillary facilities and associated ECMs

A1. Approved facilities

Table A provides details of ancillary facilities that are approved for use by the Project. The table will be updated when new facilities are approved.

Table A: Identified locations of the ancillary facilities for this Project, approved in accordance with EIS / SPIR

Facility ID	Lot ID	Facility Name	Chainage / Location	Identified and assessed in the SPIR (C18)	Proposed boundary changes from SPIR?	SPIR Proposed Use (including hours of use)	Proposed Use
Westmead Precinct							
WP02	Lot 3 DP 808447	Bridge Road	Bridge Road, Westmead	Y	N	The ancillary facility will support construction activities of the Westmead Precinct and will operate during standard construction hours.	The proposed use is consistent with those assessed in the SPIR. The ancillary facility will include site offices, a crib facility, a first aid facility, laydown/parking and ablutions.

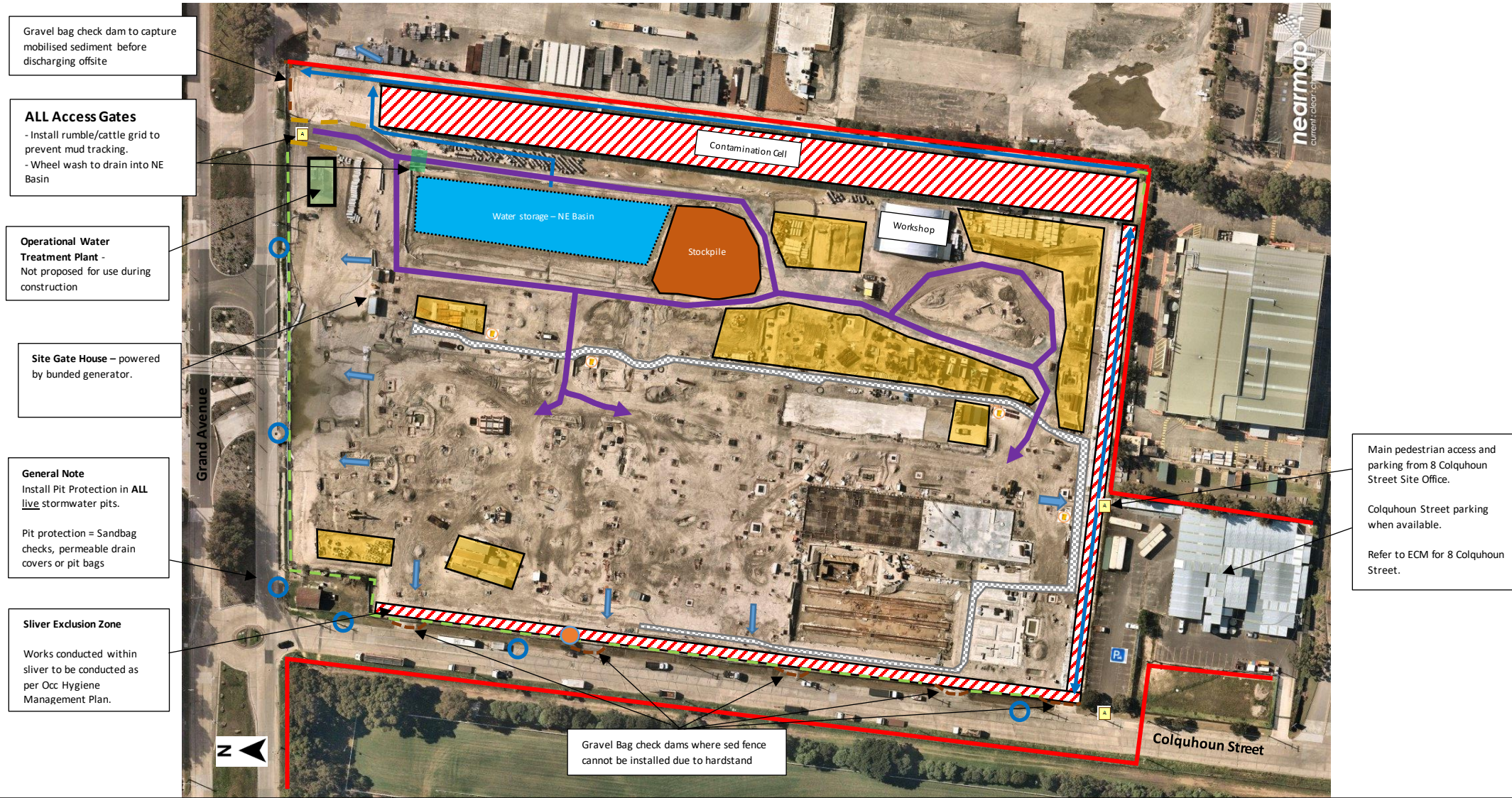
Parramatta North Precinct							
PNP03	Lot 1 / 2 DP 320697 Lot 6 DP 79601 Lot 1 DP 859830 Lot 1 DP 631527 Lot 9 DP 73282 Lot A/B DP 159311 Lot 1 DP 998949 Lot 7 DP 843045 Lot 1 / 2 / 3 DP 436171	Fennell Street	CH 1500-CH 1280	Y	N	The ancillary facility will support construction activities within the Parramatta North precinct and will operate on a 24/7 basis.	The proposed use is consistent with the SPIR. The ancillary facility will include site offices, a crib facility, a first aid facility, laydown/parking and ablutions.
Parramatta CBD Precinct							

Rosehill and Camellia Precinct							
RCP01	Lot 3 DP 843591	6 Grand Avenue, Rosehill	Grand Avenue, Rosehill	N	N	The ancillary facility will support construction of the PLR Stabling and Maintenance Facility and will operate 24/7.	The proposed use is consistent with those assessed in the SPIR. The ancillary facility will include a first aid facility, laydown / parking and ablutions.
RCP02	Lot 11 DP 1240758	8 Colquhoun Street, Rosehill	Colquhoun Street, Rosehill	N	Y	The ancillary facility will support construction of the PLR Stabling and Maintenance Facility and will operate 24/7.	The proposed use is consistent with those assessed in the SPIR. The ancillary facility will include site offices, a crib facility, a first aid facility, laydown / parking and ablutions.
Carlingford Precinct							
CP05	Lot 1 DP 1021694	BOCC Ancillary Facility	CH3760 – CH3920	Yes	No	The ancillary facility will support construction activities within the Carlingford Precinct and will operate during standard construction hours	The proposed use is consistent with the SPIR. The ancillary facility will include site offices, a crib facility, a first aid facility and ablutions.

A2. Environmental control maps

6 Grand Avenue, Rosehill

PLR SOM ECM/ESCP 001 – Stabling and Maintenance Facility



Gravel bag check dam to capture mobilised sediment before discharging offsite

ALL Access Gates
- Install rumble/cattle grid to prevent mud tracking.
- Wheel wash to drain into NE Basin

Operational Water Treatment Plant - Not proposed for use during construction

Site Gate House – powered by bundled generator.

General Note
Install Pit Protection in ALL live stormwater pits.
Pit protection = Sandbag checks, permeable drain covers or pit bags

Silver Exclusion Zone
Works conducted within silver to be conducted as per Occ Hygiene Management Plan.

Main pedestrian access and parking from 8 Colquhoun Street Site Office.
Colquhoun Street parking when available.
Refer to ECM for 8 Colquhoun Street.

Legend									
	Project Boundary		Storage Area (Waste / bins / Materials)		Material Stockpile		Water Storage		Stockpile Area
	Water Course		Parking		Gravel Bag Check Dam		Access Gate		Mulch berm
	Sensitive Receiver		Hazardous Chemical Store		Clean Water Diversion		Asbestos Stockpile		Dust Gauge location
	Exclusion Zone		Habitat Tree		Dirty Water Swale/Berm		Vegetation to be retained		Fall Direction
	Site Compounds		Spill Kit		Sediment Fence		Concrete washout		Water Treatment Plant (unused)
	Office Compound		Site Traffic Movement		Live stormwater Pit		Temporary stabilisation (Jute/Spraygrass)		
	Wheel Wash		Day makers		Pedestrian Path				

Scope of Works: Stabling and Maintenance Facility Construction Works – Drainage, FRP, Structural steel and Rail encapsulation works

Revision No	Date	Developed By	Reviewed By
Revision 04	28/4/2022	M.Watts	Gillian Lehn

ER ECM Signoff
Name: [REDACTED]
Date: [REDACTED]
Signature: _____

Key Contacts		
Michael Watts	E, P & S Manager (CAF)	0451 415 610
Robert Salisbury	E, P & S Manager (GRCLR)	0416 034 054
Mark O'Farrell	Superintendent	0437 336 888
TfNSW	Project Delivery Office	1800 684 490
Community Info Line	Community Enquiries	1800 139 389
Nev Panici	Construction Manager (CAF)	0400 693 426

- Key Environmental Risks & Controls**
No works are permitted outside the red project boundary or within protected areas
- Report all incidents and any complaints
 - Notify Environment manager of any unusual finds (odours, discoloured soil, asbestos, remains, suspected artefacts, injured wildlife)
- SURFACE AND GROUND WATER:**
- Hazardous substances used on site must be stored in either a secure bunded container, or temporary bunded areas correctly to prevent spills
 - Spill kits are available on site near the pedestrian path. Spill kits to be utilised in the event of a chemical spill as per the GRCLR Spill Response Procedure.
 - No water to be pumped without a permit to pump
- CONTAMINATION:**
- All requirements of the PLR SaM Facility Long Term Environmental Management Plan (PLR-VNT-SAM-CV-PLN-090005), as per the advice of the project contamination consultant, must be adhered to during all ground disturbance/excavation activities, such as:
 - No Excavation below the high visibility geotextile marker layer installed as part of the Integrated Capping System.
 - No Disturbance to the contamination cell located along the eastern part of the site.
- SOIL AND LAND:**
- As drainage is installed, pit protection to be installed progressively to prevent mobilisation of sediment and debris into the stormwater.
 - Ground cover to be placed on finished areas e.g. geofabric, polymer, mulch.
 - No mud/ sediment to be tracked outside the site area, stabilise access gates e.g. rumble grids installed.
- WASTE:**
- Place rubbish in appropriate bins, do not litter.
 - Concrete washouts must be lined with plastic and ONLY used for washing concrete truck & pumps chutes.
 - Waste must only be disposed off-site at licenced waste facilities.
- MATERIAL MOVEMENT:**
- Waste classifications are required for the movement of all waste offsite.
 - All importation of sandstone to be tracked (e.g collation of all dockets and capture in a register)
- AIR QUALITY:**
- Dust suppression measures, such as water carts and polymer must be used to prevent dust leaving project boundaries. All loads must be covered.
 - Sweeper cart to be engaged to manage tracking if required
 - Wet sweeping to be undertaken as required.
- NOISE AND VIBRATION:**
- Standard Construction Hours are:
 - 7am to 10pm Monday to Sunday
 - Any works outside of Standard Construction Hours must be approved by the Environment Manager.
 - No works outside the project boundary unless approved by the Environment Manager
- FLORA AND FAUNA**
- No Clearing of vegetation to be undertaken without prior approval from the Environment Manager
- APPROVALS:**
- Works that require approvals include working outside of standard working hours, working outside the current project boundary and works outside the project scope.
 - Approvals are also required for working in designated heritage, ecological areas, including the Environmental Conservation or Environmental Exclusion Zones.
 - All plant, equipment and vehicles to have undergone plant inspection and display unique plant identifier for PLR.

8 Colquhoun Street, Rosehill

PARRAMATTA LIGHT RAIL - STAGE 1

SUPPLY - OPERATE - MAINTAIN CONTRACT (SOM)
ATTACHMENT 2 - ENVIRONMENTAL

PLANNING AND ENVIRONMENT MANAGEMENT
SITE ESTABLISHMENT
8, COLQUHOUN STREET

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Unclassified

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FOR STAGE APPROVAL**

REV	DESCRIPTION	DESIGNER INITIAL DATE	VERIFIED INITIAL DATE	APPROVED INITIAL DATE
A	ISSUED FOR APPROVAL	M.W/07.04.21	L.S/07.04.21	L.S/07.04.21

COORDINATE SYSTEM: HEIGHT DATUM: SCALE: NTS

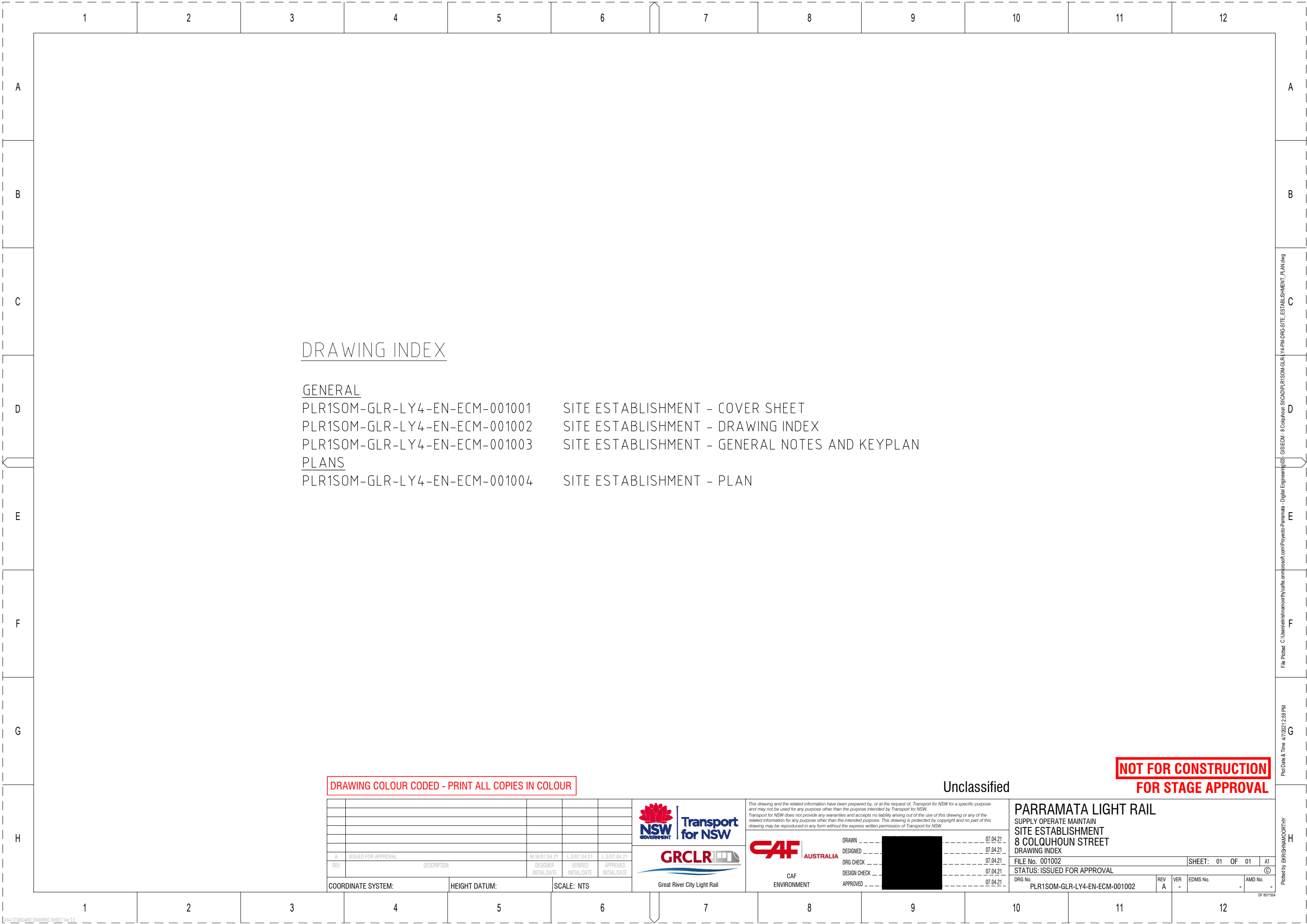


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DESIGNED	MICHAEL WATTS	07.04.21
DRG CHECK	JULIAN O'NEILL	07.04.21
DESIGN CHECK	LIA CAMILLOS	07.04.21
APPROVED	LIA CAMILLOS	07.04.21

PARRAMATTA LIGHT RAIL			
SUPPLY OPERATE MAINTAIN			
SITE ESTABLISHMENT			
8 COLQUHOUN STREET			
COVER SHEET			
FILE No.	001001	SHEET:	01 OF 01 A1
STATUS: ISSUED FOR APPROVAL			
DRG No.	PLR1SOM-GLR-LY4-EN-ECM-001001	REV	A
VER	-	EDMS No.	-
AMD No.	-		

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 Plot Date & Time: 4/7/2021 12:59 PM
 Plotted by: EKRISHNAMOORTHY



DRAWING INDEX

GENERAL

PLR1SOM-GLR-LY4-EN-ECM-001001	SITE ESTABLISHMENT - COVER SHEET
PLR1SOM-GLR-LY4-EN-ECM-001002	SITE ESTABLISHMENT - DRAWING INDEX
PLR1SOM-GLR-LY4-EN-ECM-001003	SITE ESTABLISHMENT - GENERAL NOTES AND KEYPLAN
<u>PLANS</u>	
PLR1SOM-GLR-LY4-EN-ECM-001004	SITE ESTABLISHMENT - PLAN

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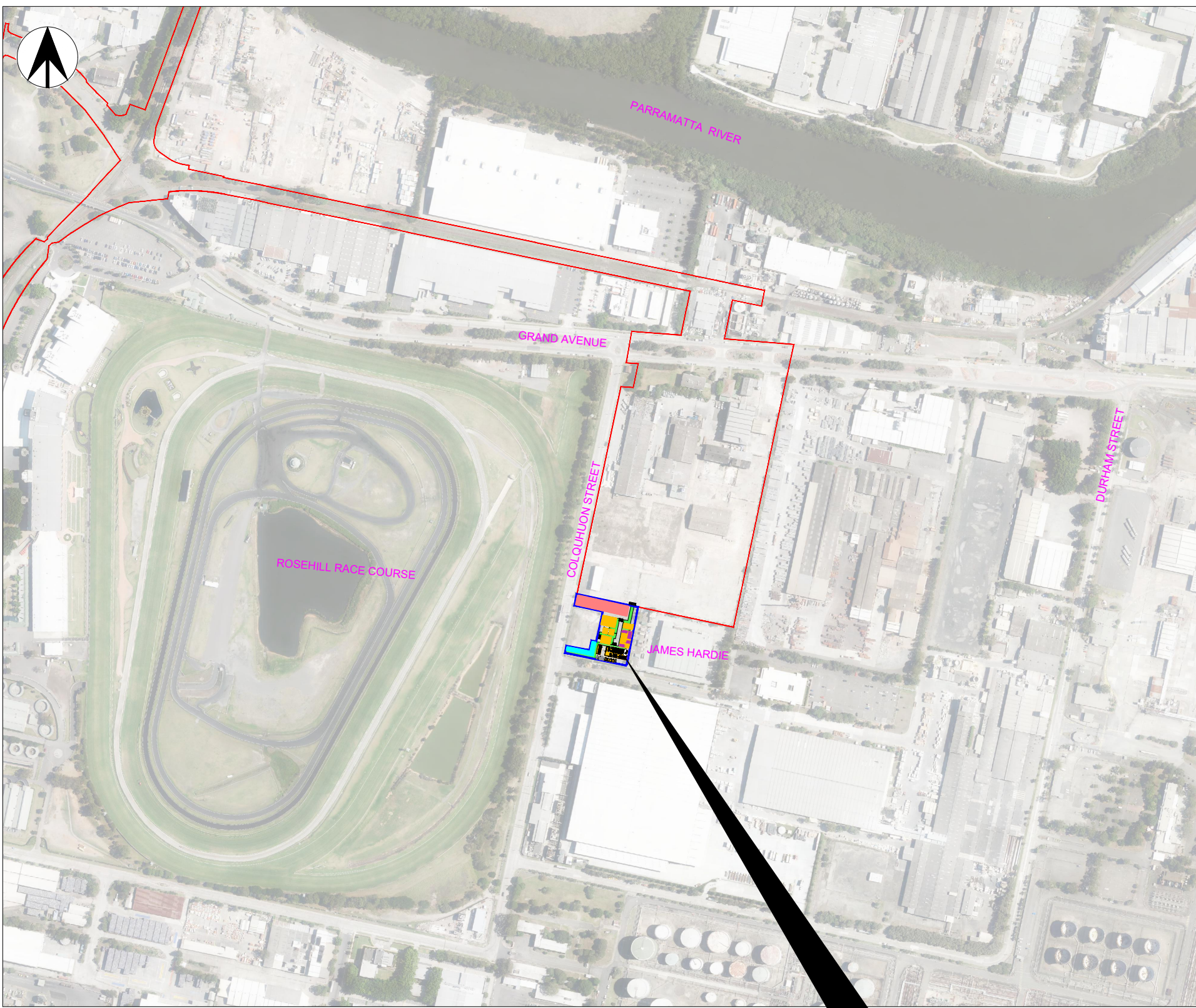
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PARRAMATA LIGHT RAIL			
SUPPLY OPERATE MAINTAIN			
SITE ESTABLISHMENT			
8 COLQUHOUN STREET			
DRAWING INDEX			
FILE No. 001002	SHEET: 01	OF 01	A1
STATUS: ISSUED FOR APPROVAL			
DRG No. PLR1SOM-GLR-LY4-EN-ECM-001002	REV A	VER -	EDMS No. - AMD No. -



- KEY ENVIRONMENTAL RISKS**
- 1) NOISE - ALL WORKS TO BE UNDERTAKEN DURING NOMINATED CONSTRUCTION HOURS.
 - 2) NO SLAMMING OF VEHICLE'S DOORS, DROPPING EQUIPMENT FROM HEIGHT OR SHOUTING, IDLING OF VEHICLES.
 - 3) WASTE - ALL WASTE TO BE DISPOSED IN ON-SITE SKIP BINS AND DISPOSED OF AT A NOMINATED LICENCED FACILITY BY THE WASTE CONTRACTOR.
 - 4) WATER / ERSED - NO WATER DISCHARGING DURING WORKS; PIT BAGS TO BE INSTALLED IN ALL STORMWATER PITS PRIOR TO COMMENCEMENT
 - 5) VEGETATION - EXCLUSION ZONES TO BE ESTABLISHED AROUND ALL RETAINED TREES/VEGETATION.
 - 6) AIR QUALITY - NO UNNECESSARY IDLING OF VEHICLES, EXHAUST EMISSIONS TO BE INSPECTED TO ENSURE CONTINUOUS VISIBLE EMISSIONS ARE NOT GENERATED FOR >10 SECONDS
 - 7) HERITAGE AND CONTAMINATION - NO EXCAVATION WORKS TO BE UNDERTAKEN.
 - 8) HAZARDOUS MATERIAL - SPILL KITS TO BE AVAILABLE FROM LIGHT VEHICLES, IF A VEHICLES HAS A LEAK; ANY FUELS ON SITE MUST BE STORED IN BUNDED CONTAINERS.
 - 9) THE REQUIREMENTS OF THIS ECM ARE TO BE TOOLBOXED AND DISCUSSED AS PART OF PRE-START PRIOR TO COMMENCING WORKS. HARD COPIES TO BE AVAILABLE WITH SITE SUPERVISOR.

CONTACT DETAILS

GREAT RIVER CITY LIGHT RAIL ENVIRONMENTAL MANAGER: 0417630652.
 CONSTRUCTION RESPONSE LINE NUMBER: 1800 775 465
 TRANSPORT PROJECTS DELIVERY OFFICE INFOLINE: 1800 684 490
 COMMUNITY ENQUIRIES: 1800 139 389
 GRCLR SAFETY MANAGER: 0407214793

TIMEFRAME:
 START DATE: APRIL 2021
 END DATE: JULY 2021

WORKING HOURS:
 WORKING HOURS - MONDAY TO FRIDAY - 7AM TO 6PM
 SATURDAY - 8AM TO 6PM

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DESIGNED	07.04.21
DRG CHECK	07.04.21
DESIGN CHECK	07.04.21
APPROVED	07.04.21

CAF AUSTRALIA
 CAF ENVIRONMENT

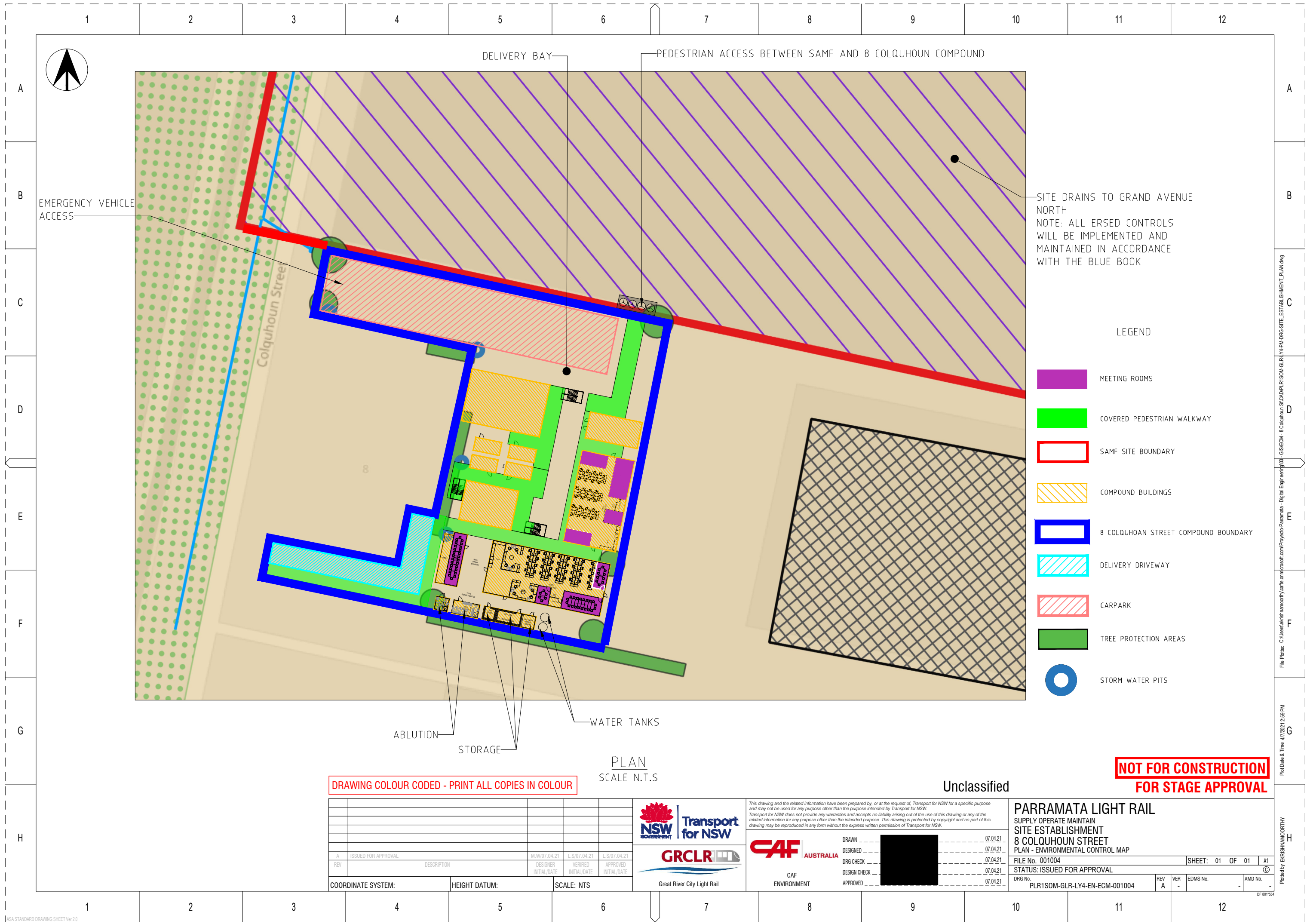
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PARRAMATA LIGHT RAIL
 SUPPLY OPERATE MAINTAIN
 SITE ESTABLISHMENT
 8 COLQUHOUN STREET
 GENERAL NOTES AND LEGEND

FILE No. 001003	SHEET: 01 OF 01	A1
STATUS: ISSUED FOR APPROVAL		
DRG No. PLR1SOM-GLR-LY4-EN-ECM-001003	REV A	VER -
EDMS No. -	AMD No. -	07.04.21

SITE OF WORKS

**NOT FOR CONSTRUCTION
 FOR STAGE APPROVAL**



EMERGENCY VEHICLE ACCESS

DELIVERY BAY

PEDESTRIAN ACCESS BETWEEN SAMF AND 8 COLQUHOUN COMPOUND

SITE DRAINS TO GRAND AVENUE NORTH
NOTE: ALL ERSED CONTROLS WILL BE IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH THE BLUE BOOK

LEGEND

- MEETING ROOMS
- COVERED PEDESTRIAN WALKWAY
- SAMF SITE BOUNDARY
- COMPOUND BUILDINGS
- 8 COLQUHOUN STREET COMPOUND BOUNDARY
- DELIVERY DRIVEWAY
- CARPARK
- TREE PROTECTION AREAS
- STORM WATER PITS

ABLUTION STORAGE WATER TANKS

PLAN SCALE N.T.S

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FOR STAGE APPROVAL

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COORDINATE SYSTEM: HEIGHT DATUM: SCALE: NTS



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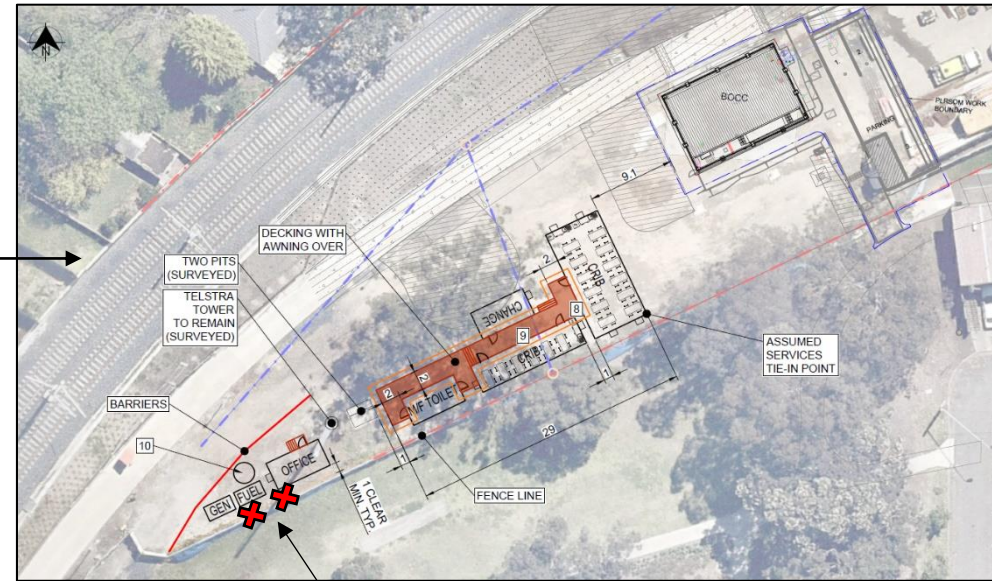
CAF AUSTRALIA
CAF ENVIRONMENT

PARRAMATA LIGHT RAIL
SUPPLY OPERATE MAINTAIN
SITE ESTABLISHMENT
8 COLQUHOUN STREET
PLAN - ENVIRONMENTAL CONTROL MAP

FILE No. 001004 SHEET: 01 OF 01 A1
STATUS: ISSUED FOR APPROVAL
DRG No. PLR1SOM-GLR-LY4-EN-ECM-001004 REV A VER - EDMS No. - AMD No. -

Dundas Ancillary Facility, Dundas

PLR SOM ECM/ESCP 024 – Dundas Ancillary Facility



Compound to be power by mains – generator no longer required.

No Parking of project vehicles in nearby Dundas shops Carpark

Key Contacts		
Michael Watts	E, P & S Manager (CAF)	0451 415 610
Robert Salisbury	E, P & S Manager (GRCLR)	0416 034 054
Mark O'Farrell	Superintendent	0437 336 888
TfNSW	Project Delivery Office	1800 684 490
Community Info Line	Community Enquiries	1800 139 389
Nev Panici	Construction Manager (CAF)	0400 693 426

Key Environmental Risks & Controls

No works are permitted outside the red project boundary or within protected areas

- Report all incidents and any complaints
- Notify Environment manager of any unusual finds (odours, discoloured soil, asbestos, remains, suspected artefacts, injured wildlife)

LIGHT SPILL

- Existing boundary fencing to be retained and lights to be orientated to prevent light spill into adjacent properties.

SURFACE AND GROUND WATER:

- No water to be pumped without a permit to pump

CONTAMINATION:

- The site has potential asbestos contamination.
- Excavation activities to be undertaken with care and unexpected finds to be treated in accordance with the unexpected finds procedure.

SOIL AND LAND:

- Ground cover to be placed on finished areas e.g. geofabric, polymer, mulch.
- No mud/ sediment to be tracked outside the site area, stabilise access gates installed.
- Compound footprint to be stabilised with Gravel / Aggregate to minimise dust/mud.

WASTE:

- Place rubbish in appropriate bins, do not litter.
- Waste must only be disposed off-site at licenced waste facilities.

MATERIALS:

- Waste classifications are required for the movement of all waste offsite.
- All importation of materials to be tracked (e.g collation of all dockets and capture in a register)
- Hazardous substances used on site must be stored in either a secure bunded container, or temporary bunded areas correctly to prevent spills.

AIR QUALITY:

- Dust suppression measures, such as water suppression must be used to prevent dust leaving project boundaries. All loads leaving site must be covered.
- Sweeper cart to be engaged to manage tracking if required
- Wet sweeping to be undertaken as required.

NOISE AND VIBRATION:

- Standard Construction Hours are:
 - 7am to 7pm Monday to Friday
 - 8am to 6pm Saturday
- Any works outside of the nominated Construction Hours must be approved by the Environment Manager.
- No high noise work activities permitted before 8am, and must be undertaken in 3 hour on - 1 hour off blocks.
- No works outside the project boundary unless approved by the Environment Manager
- All Vibratory activities to be assessed against the Safe Working Distance table included in the work pack. If works within the safe working distances contact the Environment Manager.

FLORA AND FAUNA

- Existing tree's / vegetation to be protected with exclusion zone fencing.
- No Clearing of vegetation to be undertaken without prior approval from the Environment Manager

APPROVALS:

- Works that require approvals include working outside of standard working hours, working outside the current project boundary and works outside the project scope.
- Approvals are also required for working in designated heritage, ecological areas, including the Environmental Conservation or Exclusion Zones.

Legend

	General Waste Bin		Weeds		Material Stockpile		Stormwater		Fall Direction
	Project Boundary		Parking		Flow Direction		Asbestos Stockpile		SOM Work Area
	Sensitive Receiver		Hazardous Chemical Store		Clean Water Diversion		Vegetation to be retained		Residential Receiver
	Exclusion Zone		Tree Protection		Dirty Water Swale/Berm		Concrete washout		Commercial Receiver
	Site Compounds		Spill Kit		Sediment Fence		Temporary stabilisation (Jute/spraygrass)		
	Office Compound		Sediment Basin		Stormwater Pit				
	Water Course		Day makers		Gravel Bag Check Dam				

GRCLR

Great River City Light Rail

Scope of Works: Dundas Ancillary Facility – Site Establishment and Operations

Revision No	Date	Developed By	Reviewed By
Revision 01	04/02/2022		

ER ECM Signoff

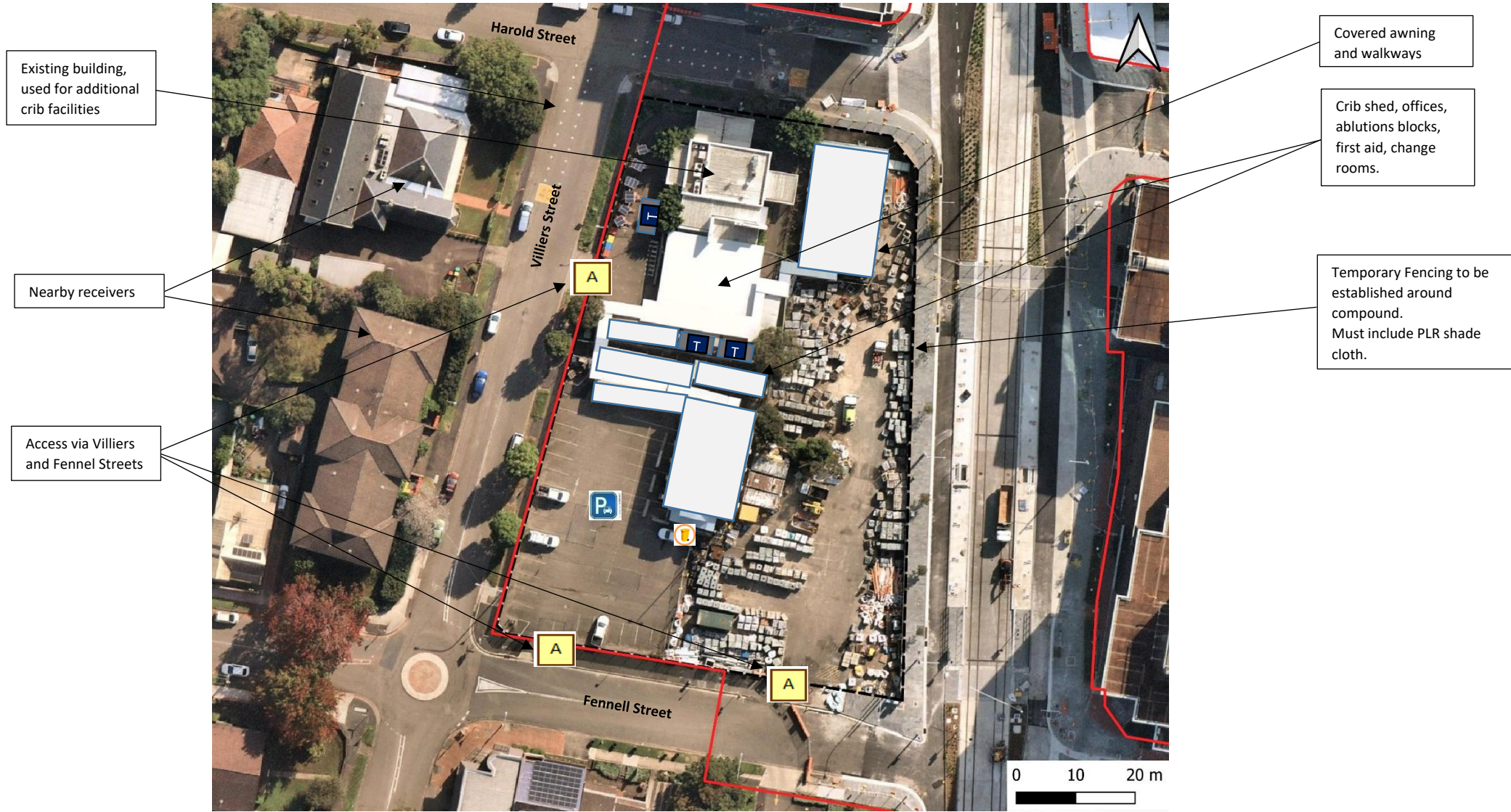
Name:

Date:

Signature:

Fennel Street Compound, Parramatta

PLR SOM ECM/ESCP 025 – Fennell Street Ancillary Facility



Key Contacts
[Redacted]

Key Environmental Risks & Controls

No works are permitted outside the red project boundary or within protected areas

- Report all incidents and any complaints to the site supervisor
- Notify Environment manager of any unusual finds (odours, discoloured soil, asbestos, remains, suspected artefacts, injured wildlife)

SOIL AND WATER:

- No mud/sediment to be tracked outside the site area, conduct regular inspections to monitor for sediment tracking
- No water to be pumped without a permit to pump
- Existing stormwater pits to be protected with sediment bags/sandbag traps to control ingress of surface water runoff. All activities requiring water use to be locally controlled/captured to prevent runoff into track drainage.

FLORA AND FAUNA

- All existing / planted vegetation area to be protected (fencing) as required

WASTE:

- Place rubbish in appropriate bins, do not litter.
- Concrete washouts must be lined and ONLY used for washing concrete truck & pumps chutes.
- Waste classifications are required for all waste before disposal off-site at licenced waste facilities.

MATERIALS:

- All importation of materials to be tracked (e.g collation of all dockets and capture in a register)
- Hazardous substances used on site must be stored in either a secure bunded container, or temporary bunded areas correctly to prevent spills.

AIR QUALITY:

- Dust suppression measures, such as water suppression must be used to prevent dust leaving project boundaries. All loads leaving site must be covered.
- Sweeper cart to be engaged to manage tracking if required
- Wet sweeping to be undertaken as required.

NOISE AND VIBRATION:

- Standard Construction Hours are:
 - 7am to 7pm Monday to Friday
 - 8am to 6pm Saturday
- Any works outside of Standard Construction Hours must be approved by the Environment Manager in accordance with the GRCLR OOHW Procedure.
- No high noise work activities permitted before 8am, and must be undertaken in 3 hour on - 1 hour off blocks.
 - High Noise Impact Works must only be conducted between:
 - 8am – 11am,
 - 12pm – 3pm and
 - 4pm – 6pm
- Where possible, temporary noise screening / noise blankets to be installed around high noise activities to maximise noise shielding for nearby receivers.
- Switch off any equipment not in use for extended periods.
- All Vibratory activities to be assessed against the Safe Working Distance table included in the CEMP. Foreman to contact Environment Manager prior to any vibratory works for approval.

APPROVALS:

- Approvals are required for working in designated heritage or ecological exclusion Zones.
- No works outside the project boundary unless approved by the Environment Manager

Legend									
	General Waste Bin		Weeds		Material Stockpile		Stormwater		Fall Direction
	Project Boundary		Parking		Flow Direction		Stabilized Access Gate		Traffic Movement
	Sensitive Receiver		Hazardous Chemical Store		Clean Water Diversion		Asbestos Stockpile		Residential Receiver
	Exclusion Zone		Habitat Tree		Dirty Water Swale/Berm		Vegetation to be retained		Commercial Receiver
	Site Compounds		Spill Kit		Sediment Fence		Concrete washout		Medical Facility
	Office Compound		Gravel Bag Check Dam		Stormwater Pit		Toilet		Heritage Area
	Water Course		Crane Pad		Crib buildings: Store rooms, first aid, office, changing etc.		Ablutions block		Waste tank

Scope of Works: Fennell Street Ancillary Facility – Use as an office compound, lunch-room, ablutions area, construction materials storage and light vehicle car park for workers.

Timeframe of Works: June 2022 – December 2023

Revision No	Date	Developed By	Reviewed By
Revision 01	13/6/2022	[Redacted]	[Redacted]

ER ECM Signoff

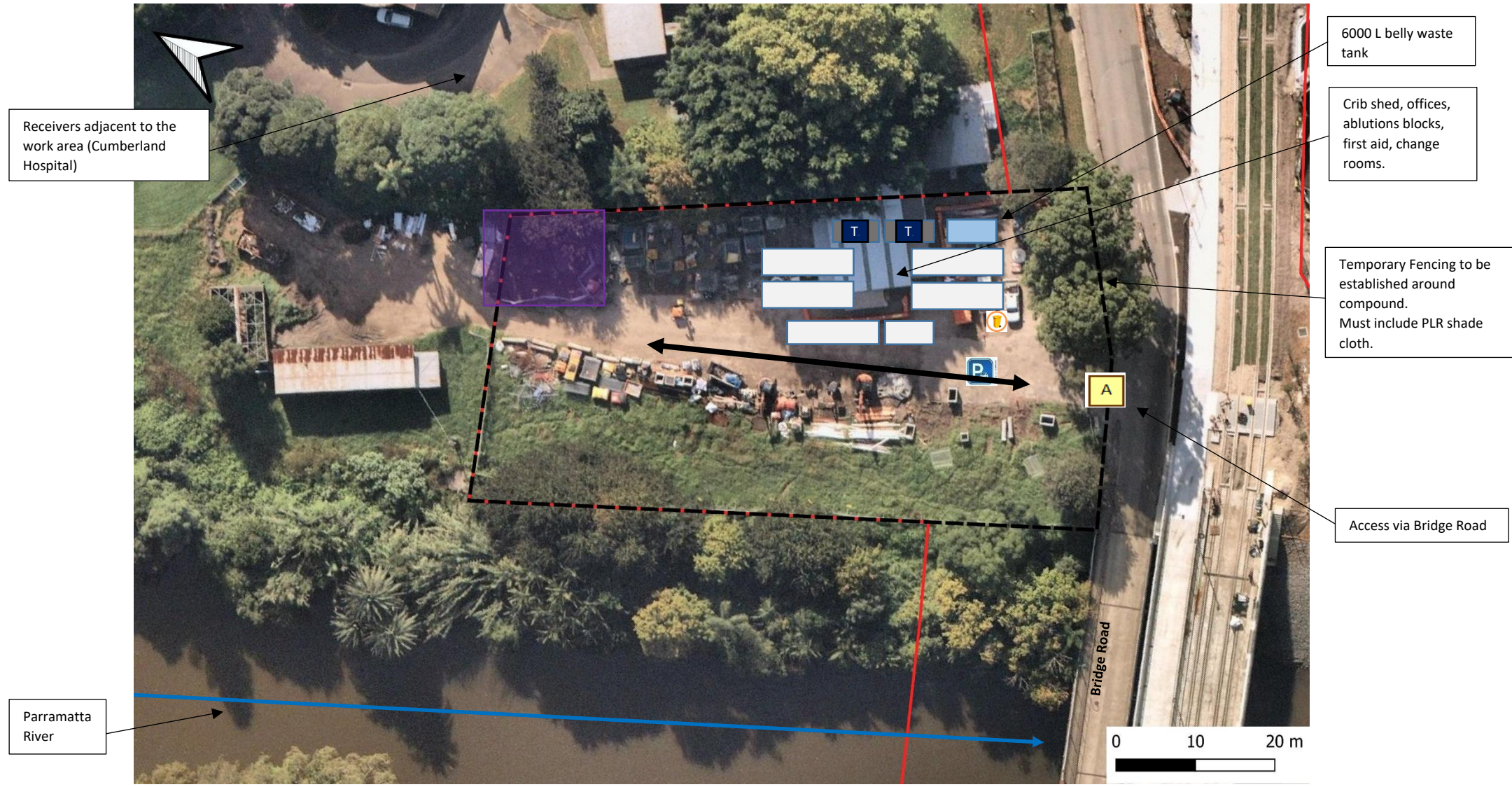
Name: [Redacted]

Date: _____

Signature: _____

Bridge Road Compound, Westmead

PLR SOM ECM/ESCP 026 – Bridge Road Ancillary Facility



Key Contacts	

Key Environmental Risks & Controls

No works are permitted outside the red project boundary or within protected areas

- Report all incidents and any complaints to the site supervisor
- Notify Environment manager of any unusual finds (odours, discoloured soil, asbestos, remains, suspected artefacts, injured wildlife)

- SOIL AND WATER:**
- No mud/sediment to be tracked outside the site area, conduct regular inspections to monitor for sediment tracking
 - No water to be pumped without a permit to pump
 - Existing stormwater pits to be protected with sediment bags/sandbag traps to control ingress of surface water runoff. All activities requiring water use to be locally controlled/captured to prevent runoff into track drainage.
 - Work crew to be aware of nearby Waterway (Parramatta River).

- HERITAGE**
- Exclusion zone around the heritage area to be maintained.
 - No excavation permitted within compound footprint due to heritage significance of the area**

- FLORA AND FAUNA**
- All existing / planted vegetation area to be protected (fencing) as required

- WASTE:**
- Place rubbish in appropriate bins, do not litter.
 - Concrete washouts must be lined and ONLY used for washing concrete truck & pumps chutes.
 - Waste classifications are required for all waste before disposal off-site at licenced waste facilities.

- MATERIALS:**
- All importation of materials to be tracked (e.g. collation of all dockets and capture in a register)
 - Hazardous substances used on site must be stored in either a secure bunded container, or temporary bunded areas correctly to prevent spills.

- AIR QUALITY:**
- Dust suppression measures, such as water suppression must be used to prevent dust leaving project boundaries. All loads leaving site must be covered.
 - Sweeper cart to be engaged to manage tracking if required
 - Wet sweeping to be undertaken as required.

- NOISE AND VIBRATION:**
- Standard Construction Hours are:
 - 7am to 7pm Monday to Friday
 - 8am to 6pm Saturday
 - Any works outside of Standard Construction Hours must be approved by the Environment Manager in accordance with the GRCLR OOHW Procedure.
 - No high noise work activities permitted before 8am, and must be undertaken in 3 hour on - 1 hour off blocks.
 - High Noise Impact Works must only be conducted between:
 - 8am – 11am,
 - 12pm – 3pm and
 - 4pm – 6pm
 - Where possible, temporary noise screening / noise blankets to be installed around high noise activities to maximise noise shielding for nearby receivers.
 - Switch off any equipment not in use for extended periods.
 - All Vibratory activities to be assessed against the Safe Working Distance table included in the CEMP. Foreman to contact Environment Manager prior to any vibratory works for approval.

- APPROVALS:**
- Approvals are required for working in designated heritage or ecological exclusion Zones.
 - No works outside the project boundary unless approved by the Environment Manager

Legend									
	General Waste Bin		Weeds		Material Stockpile		Stormwater		Fall Direction
	Project Boundary		Parking		Flow Direction		Stabilized Access Gate		Traffic Movement
	Sensitive Receiver		Hazardous Chemical Store		Clean Water Diversion		Asbestos Stockpile		Residential Receiver
	Exclusion Zone		Habitat Tree		Dirty Water Swale/Berm		Vegetation to be retained		Commercial Receiver
	Site Compounds		Spill Kit		Sediment Fence		Concrete washout		Medical Facility
	Office Compound		Gravel Bag Check Dam		Stormwater Pit		Toilet		Heritage Area
	Water Course		Crane Pad		Crib buildings: Store rooms, first aid, office, changing etc.		Ablutions block		Waste tank

Scope of Works: Bridge Road Ancillary Facility – Installation of temporary buildings (office compound, lunch-room, ablutions area, waste tank), construction materials storage and light vehicle car park for workers.

Timeframe of Works: June 2022 – December 2023

Revision No	Date	Developed By	Reviewed By
Revision 01	16/06/2022		

ER ECM Signoff

Name: [REDACTED]

Date: _____

Signature: _____

Appendix B – Initial Environmental Risk Assessment

Environmental Risk Identification								Risk analysis and evaluation**** using existing standard controls and assumptions		
Risk Ref #	Environmental Aspect*	Impact **	Environmental Impact Category	Site Specific Risk Description ***	Risk category	Project-specific Location(s)	Existing Standard Controls and Assumptions	Consequence	Likelihood	Rating
1.1	Project vehicle movements in the public domain	Congestion of public roads	Traffic, Transport and Access	Vehicle movements to and from the facilities will include both light (workers) and heavy vehicles (equipment and materials), including some long slow-moving vehicles (up to 19m). The additional volume of traffic and the type of vehicles could cause congestion to the public roads, although the facilities are all accessible from high-capacity roads.	Reputation - Community	All facilities	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.2	Project vehicle movements in the public domain	Noise impacts to sensitive receivers	Noise and Vibration	The project vehicles will use established busy roads; therefore, it is unlikely the project vehicles will contribute significantly to the existing noise environment, which is already dominated by road noise.	Reputation - Community	All facilities	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Negligible	Likely	Low
1.3a	Project vehicle movements in the public domain	Preventing access to adjacent properties and free movement of pedestrians	Traffic, Transport and Access	Project vehicles entering and exiting the facilities may temporarily impact pedestrian access, however as these are based at established facilities the impact is expected to be minor. Note: 6 Grand Avenue & 8 Colquhoun Street do not have pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facilities.	Reputation - Community	Dundas, Fennell Street, Bridge Road	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.4	Project vehicle movements in the public domain	Reducing the number of available public car parking spaces	Traffic, Transport and Access	All facilities have staff parking, therefore there should not be a significant impact to public parking. Note the purpose of the site at 8 Colquhoun Street is to provide additional off street parking for the 6 Grand Avenue site.	Reputation - Community	All facilities	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Unlikely	Low
1.5a	Facility establishment	Reduction in visual and landscape character	Community	All facilities would be obvious to visual receptors in the existing environment. The industrial nature of the area precludes any significant impact for the 6 Grand Avenue & 8 Colquhoun Street facilities. All other facilities are to be established at existing compounds and activities undertaken at each facility will be minor.	Reputation - Community	All facilities	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.6a	Civil works and facility activities (establishment/operation/decommissioning)	Dust emissions reducing nearby air quality	Air and Dust	Vehicle movements and establishment activities could result in the emission of dust. Potential for dust impacts are expected to be minimal due to the small size of the facilities and the mostly sealed surfaces.	Reputation - Community	All facilities	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low

Environmental Risk Identification								Risk analysis and evaluation**** using existing standard controls and assumptions		
Risk Ref #	Environmental Aspect*	Impact **	Environmental Impact Category	Site Specific Risk Description ***	Risk category	Project-specific Location(s)	Existing Standard Controls and Assumptions	Consequence	Likelihood	Rating
1.7a	Civil works and facility activities (establishment/)	Heritage impacts	Heritage	N/A - Remediation Works already underway have involved heavy earthworks, and have resulted in the discovery, and salvage of disturbed the heritage, prior to the Stage 2 Remedial Works commencing		6 Grand Avenue	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Negligible	Likely	Low
1.7c	Civil works and facility activities (establishment/)	Heritage impacts	Heritage	N/A – no ground intrusive works would be required at this facility. There are no known heritage features nearby.		8 Colquhoun Street	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Negligible	Likely	Low
1.7d	Civil works and facility activities (establishment/)	Heritage impacts	Heritage	There is one heritage feature adjacent to the facility (mound). This item is outside of the fenced compound and should not be impacted.	Environment - Environment Effects / Cultural Heritage	Bridge Road	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Moderate	Unlikely	High
1.8a	Civil works and facility activities (establishment)	Noise impacts to sensitive receivers	Noise and Vibration	Noise emissions would be limited to vehicle movements and minor civil works. No high level noise emissions would occur from the facilities. There are no sensitive receivers within 0.5km of the 6 Grand Avenue & 8 Colquhoun Street facilities.	Environment - Environment Effects / Cultural Heritage	All facilities	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.9a	Accidental release of hazardous and non-hazardous materials/wastes	Contamination of the physical environment (water quality and land)	Land and Water Contamination	Hazardous materials and waste will be stored within appropriately designed storage systems. The unsealed nature of the facility could result in localised land contamination. The erosion sediment control fence and water treatment system would prevent a spill from impacting local water quality.	Environment - Environment Effects / Cultural Heritage	6 Grand Avenue	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Minor	Unlikely	Low
1.9b	Accidental release of hazardous and non-hazardous materials/wastes	Contamination of the physical environment (water quality and land)	Land and Water Contamination	N/A - no materials or wastes would be stored in this facility	Environment - Environment Effects / Cultural Heritage	8 Colquhoun Street	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Negligible	Likely	Low
1.9c	Accidental release of hazardous and non-hazardous materials/wastes	Contamination of the physical environment (water quality and land)	Land and Water Contamination	Minimal hazardous materials and waste (i.e. chemicals) will be stored at these facilities, and where present will be stored within appropriately designed storage systems. Unsealed surfaces could result in localised land contamination, spill kits will be present. Erosion sediment control fence will be installed if	Environment - Environment Effects / Cultural Heritage	Dundas, Fennell Street, Bridge Road	Relevant control measures provided in Section 7 of this Plan and ECMS/TCPs in Appendix A and industry-standard control measures	Minor	Unlikely	Low

Environmental Risk Identification								Risk analysis and evaluation**** using existing standard controls and assumptions		
Risk Ref #	Environmental Aspect*	Impact **	Environmental Impact Category	Site Specific Risk Description ***	Risk category	Project-specific Location(s)	Existing Standard Controls and Assumptions	Consequence	Likelihood	Rating
				required to prevent any potential off-site impacts, but is not expected to be necessary. The Bridge Road facility is located in proximity to the Parramatta River.						
1.10a	Light emissions during night-time activities	Social impacts - disturbance of nearby receivers	Community	Both facilities will be operational 24hrs a day, therefore will require lighting. The absence of sensitive receivers near to the facilities would preclude an impact.	Reputation - Community	6 Grand Avenue & 8 Colquhoun Street	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.10b	Light emissions during night-time activities	Social impacts - disturbance of nearby receivers	Community	Facilities will generally only be open during the Standard Construction Hours as detailed in the CEMP (i.e. not during the night). If night-time activities are proposed, light emissions will be minimised/direct as possible to limit the potential to impact receivers.	Reputation - Community	Dundas, Fennell Street, Bridge Road	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.11a	Vegetation clearance	Loss of biodiversity of value	Flora and Fauna	The grass located in this site, will be covered with hardstand material, if required to increase the capacity of the facility. This would be limited to species-poor grass/lawn that is considered of limited biodiversity value. The trees would be retained.	Environment - Environment Effects / Cultural Heritage	8 Colquhoun Street	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Minor	Likely	Low
1.11b	Vegetation clearance	Loss of biodiversity of value	Flora and Fauna	N/a - the facility site will be provided to GRCLR cleared of vegetation by the remediation contractor.	Environment - Environment Effects / Cultural Heritage	6 Grand Avenue	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Negligible	Likely	Low
1.11c	Vegetation clearance	Loss of biodiversity of value	Flora and Fauna	N/A – No additional vegetation will require clearing for the establishment of these facilities, as they are in existing compounds.	Environment - Environment Effects / Cultural Heritage	Dundas, Fennell Street, Bridge Road	Relevant control measures provided in Section 7 of this Plan and ECMs/TCPs in Appendix A and industry-standard control measures	Negligible	Likely	Low
1.12	Damage to capping layer (at either site)	Exposure to contaminated material	Workforce	This risk is applicable to both sites, as both have containment cells and capping layers. No excavation works into the capping layer/in proximity to contaminated material are proposed as part of the site establishment, operation of the compounds or demobilisation of the sites.	Environment – Impact to workers	6 Grand Avenue & 8 Colquhoun Street	Relevant control measures in the case of interaction with contamination are included in the respective LTEMP for each site.	Major	Unlikely	Low

* An Environmental Aspect is an element of the organisations activities or products or services that can interact with the environment. (AS/NZS ISO14001:2004)

** An Environmental Impact is defined as any change to the environment or a component of the environment, whether adverse or beneficial, wholly or partially resulting from an organisations environmental aspects.(AS/NZS ISO14001:2004)

*** Risk description . This is the articulation of the resultant risk given the aspect and impact at the site.
**** Risk consequence and likelihood as defined by TfNSW Project Risk Management – 3TP-PR-086 (provided below)

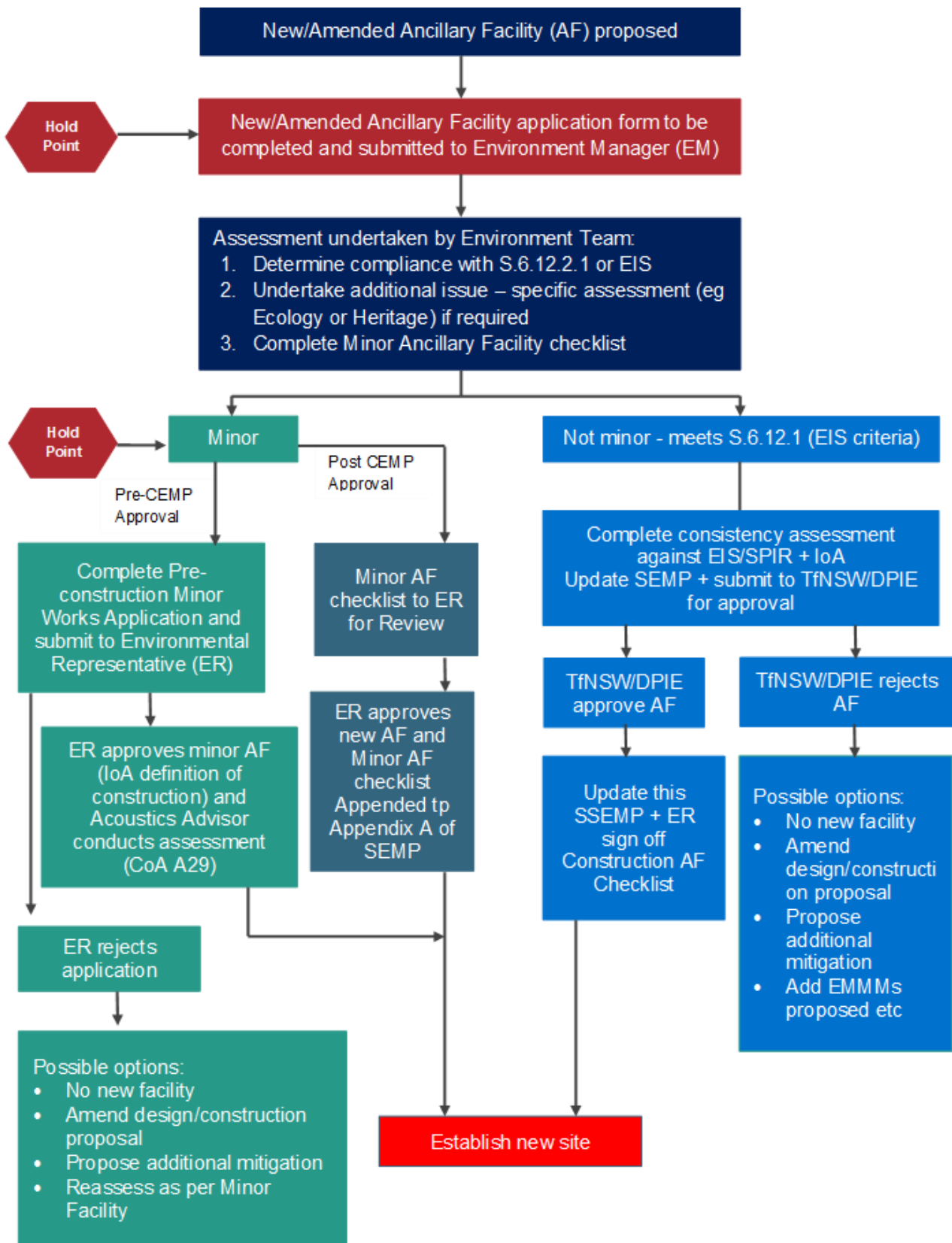
Potential Consequence							
Rating	Safety & Health	Environment & Heritage	Financial Impact*	Human Resources / Industrial Relations	Reputation, Community and Media	Legal & Regulatory	Business Interruption
Substantial 5	Fatal Incident (Class 1)	Permanent widespread damage (Class 1)	Impact greater than 7% annual profit / EBITDA	Consequences of an event materially affect Ventia Group.	Sustained national negative media coverage. Loss of long term key client	Major litigation by regulatory body. Possibility of custodial sentence.	Delay / Business interruption > 5 days or as relevant**
Major 4	Permanent Injury (Class 1) Damage, which permanently alters a person's future (e.g. quadriplegia, paraplegia, amputation of a limb)	Major but recoverable damage (Class 1)	Impact between 4% and 7% annual profit / EBITDA	Consequences of an event affect more than one division / business unit within the Ventia Group	Regional/short negative media coverage. Loss of Client/Project	Major breach of regulation with punitive fine, significant litigation involving many weeks of senior management time	Delay / Business interruption between, 3-5 days or as relevant**
Moderate 3	Lost Time Injury or Restricted Work Case (Class 2) Damage, which temporarily alters a person's future	Moderate, medium term but recoverable damage (Class 2)	Impact between 2% and 4% annual profit / EBITDA	Consequences of an event affect more than 1 line of business within a business unit / division	Local negative media coverage. Site or project problem.	Breach of regulation with investigation or report to authority with prosecution and/or moderate fine possible	Delay / Business interruption between, 1-3 days or as relevant**
Minor 2	Medical Treatment (Class 2) Damage, which temporarily inconveniences a person	Minor, short term and onsite damage (Class 3)	Impact between 0.5% and 2% annual profit / EBITDA	Consequences of an event are restricted within a single line of business within a business unit / division	Public concern restricted to local complaints	Minor legal issues, non-compliances and breaches of regulation.	Delay / Business interruption up to 1 day or as relevant**
Negligible 1	First Aid Treatment (Class 3) Actual injury which requires no treatment or simple first aid	Negligible damage (Class 3)	Impact less than 0.5% annual profit / EBITDA	Consequences of an event are restricted to the project where the concern arose	Single stakeholder concern.	Minor technical breach of regulation	Negligible business interruption

Likelihood Criteria			
Rating	Probability or chance of occurring in the next year	For commercial and financial purposes	For safety, health and environment purposes
Almost Certain 5	≥75%	Very confident the risk or opportunity will materialise. A small but significant chance it may not however. Not yet 100% certain.	Common / Frequent occurrence when performing this task
Likely 4	50% to 75%	Better than even chance of occurring. Current perception is that it is more likely than not to occur	Is known to occur or "it has happened regularly" when performing this task
Possible 3	25% to 50%	Becoming an almost even chance of occurring. Too much uncertainty at present however to judge the risk as being likely to occur	Could occur when performing this task
Unlikely 2	5% to 25%	Not yet confident the risk or opportunity will materialise. Much more confident it won't occur	Unlikely to occur when performing this task

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

Risk Ranking	Response Obligations
EXTREME (Risk Level 23-25)	A major control weakness or issue that exposes the organisation to a Extreme level of risk. The issue is raised with management (general manager or above) upon interim recommendations and immediate mitigation is required, even if shutdown of operations are the only remedies. This compulsory immediate mitigation can only be lifted by the Executive General Manager when fully briefed on the risks associated with continuing with the existing operations. ESCALATION TO GENERAL MANAGER LEVEL FOR SIGN OFF ON THIS RISK.
VERY HIGH (Risk Level 17-22)	A control weakness or an issue that exposes the organisation to a major level of risk. Mitigation measures for this risk are required to be implemented, even if disruption to the normal operational process is the only remedy. This mitigation can only be lifted by Project Manager level or above and sign off on acceptance of this risk. ESCALATION TO PROJECT MANAGER/DIRECTOR OR DELGATE FOR SIGN OFF ON THIS RISK.
HIGH (Risk Level 12-16)	A control weakness or an issue that exposes the organisation to a moderate level of risk. Mitigation measures for this risk are required to be implemented. This mitigation can only be lifted by Line Manager level or above and sign off on acceptance of this risk. ESCALATION TO LINE MANAGER FOR SIGN OFF ON THIS RISK.
MODERATE (Risk Level 8-11)	A control weakness or an issue that exposes the organisation to a minor risk. Requires mitigation measures and supervisor resolution. ESCALATION TO SUPERVISOR FOR SIGN OFF ON THIS RISK.
LOW (Risk Level 1-7)	An issue that represents a negligible risk resolution of which will improve the organisation's control. Expected improvement within local monitoring framework at area or location level. SUPERVISOR TO SIGN OFF ON ALL RISK MANAGEMENT TOOLS EXCEPTING EXCEPT PERSONAL RISK ASSESSMENT TOOLS.

Appendix C – Ancillary Facility Flow Chart



Appendix D – Minor Ancillary Facility Checklist Template

Minor ancillary facility checklist

[site name]

1. Criteria for minor ancillary facilities

Chapter 6 of the Site Establishment Management Plan (SEMP) outlines the procedure for the approval of construction compound and ancillary facilities.

As outlined in the procedure, this minor ancillary facility checklist is to be used for minor construction related ancillary facilities including minor site sheds, lunch sheds and portable toilets or other ancillary facilities determined by the ER to have a minor environmental impact. These facilities will be located in accordance with the criteria listed in Table 1 and submitted to the [Transport for NSW/ ER/AA] Environment Manager for approval prior to installation. Once approved they will be included on the register contained in Attachment A.

Table 1: Criteria for minor ancillary facilities

Site Name	
Precinct	
Chainage / Address	

Criteria	Compliant (Yes / No)	Comments
Located within an active construction zone within the approved project boundary.		
Have minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts.		
Have minimal impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project.		
Have environmental and amenity impacts that can be managed through the implementation of environmental measures been detailed in the construction environmental management Plan for the project.		

A locational map including site layout and environmental constraints is attached in Attachment A.

[site name]

2. Mitigation measures

Table 2: Site specific mitigation measures additional to the CEMP

	Measure/ Requirement	Responsibility	Timing / frequency	Reference
INSERT TOPIC				
	<i>Insert mitigation measure</i>			

3. Certification

This minor ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

The noise and vibration impacts for this Project has been assessed by the AA in accordance with A29.

Signed		
Name		
Position: TfNSW/Contractor Engineer		Date

Signed		
Name		
Position: Environment Representative		Date

Appendix E – Completed Minor Ancillary Facility Checklists

Minor ancillary facility checklist – 8 Colquhoun Street

[8 Colquhoun Street]

1. Criteria for minor ancillary facilities

Chapter 6 of the Site Establishment Management Plan (SEMP) outlines the procedure for the approval of construction compound and ancillary facilities.

As outlined in the procedure, this minor ancillary facility checklist is to be used for minor construction related ancillary facilities including minor site sheds, lunch sheds and portable toilets or other ancillary facilities determined by the ER to have a minor environmental impact. These facilities will be located in accordance with the criteria listed in Table 1 and submitted to the Transport for NSW/ ER/AA Environment Manager for approval prior to installation. Once approved they will be included on the register contained in Attachment A.

Table 1: Criteria for minor ancillary facilities

Site Name	8 Colquhoun Street
Precinct	Rosehill
Chainage / Address	8 Colquhoun Street

Criteria	Compliant (Yes / No)	Comments
Located within an active construction zone within the approved project boundary.	N	The facility is located adjacent to the construction zone.
Have minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts.	Y	<p>The purpose of this facility is for use as a light vehicle carpark to support the works and compound at the SaMF site at 6 Grand Avenue.</p> <p>It will continue to be used as a light vehicle car park for staff and workforce throughout the construction of the Project.</p> <p>Noise and vibration – Noise emissions would be limited to vehicle movements and minor civil works. No high-level noise emissions would occur. There are no sensitive receivers within 0.5km of this facility.</p> <p>Traffic and access – The facility will be used for parking of up to 300 light vehicles. The inclusion of this site will remove those 300 light vehicles (used by staff and workforce during construction) from the street parking in the area. The facility will be access via high-volume roads, therefore congestion is not expected. There are no pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facility.</p>

Criteria	Compliant (Yes / No)	Comments
		<p>Dust and odour – Clearance of the grassed area of 8 Colquhoun Street to increase its capacity could result in dust emissions. Once sealed with bitumen, the potential for dust emissions will be reduced. There are no sensitive receivers near to the facility that could be impacted.</p> <p>The facility would only be used as a carpark and therefore would not involve any activities that generate odours.</p> <p>Visual – The facility would be obvious to visual receptors in the existing environment. The industrial nature of the area precludes any significant impact.</p> <p>The site is currently a disused carpark owned by an adjoining neighbour. The proposed use of this site as an ancillary facility is purely for use as a carpark, and therefore the anticipated impacts are no different to those of the existing use of the site.</p>
<p>Have minimal impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project.</p>	<p>Y</p>	<p>Waste – The facility will not generate waste as its sole purpose is to be used as a carpark for staff and workforce during construction.</p> <p>Flora and fauna – Any existing trees and shrubs will be retained. There is some species-poor lawn in the centre of the site that may be covered with road base, should additional parking be required. The lawn is of no ecological significance.</p> <p>Soil and water – The facility will have no unsealed land or involve the storage of hazardous substances. The site already drains to the existing stormwater and drainage network in the area and the proposed use of the site will not result in any change to the interaction of the site with the drainage network. The placement of road base over the lawn in the centre of the site will ensure the permeability of the site and runoff generated during rain events remains unchanged</p> <p>Heritage – No ground intrusive works would be required at this facility. There are no known heritage features nearby.</p> <p>The site is currently a disused carpark owned by an adjoining neighbour. The proposed use of this site as an ancillary facility is purely for use as a carpark, and therefore the anticipated impacts are no different to those of the existing use of the site.</p> <p>Note that no works undertaken by GRCLR in establishing the site would require excavation</p>

Criteria	Compliant (Yes / No)	Comments
		works that could expose contaminated materials.
Have environmental and amenity impacts that can be managed through the implementation of environmental measures been detailed in the construction environmental management Plan for the project.	N	<p>The CEMP is not relevant to the establishment of this site. The CEMP is being developed and will be approved prior to commencement of construction and operation of this site.</p> <p>This SEMP is for the site establishment activities for this site <u>only</u>, and the mitigation measures relevant to the facility are included in section 2.</p>

A locational map including site layout and environmental constraints is attached in Attachment A.

2. Mitigation measures

Table 2: Site specific mitigation measures additional to the CEMP

	Measure/ Requirement	Timing / frequency	Responsibility	Reference
General				
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better	Decommissioning	Facility Manager	GEN-2
SEM16	General site housekeeping will form part of compulsory site inductions for all personnel.	Establishment / construction / decommissioning	Facility Manager	WM-2
Visual				
SEM2	<p>Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation.</p> <p>Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required.</p>	Pre-establishment	Facility Manager	C19/C20 AQ-1 VL-16

	Measure/ Requirement	Timing / frequency	Responsibility	Reference
SEM32	The facility lighting strategy would be designed to minimise glare and light spill on adjacent properties	Construction	Facility Manager	VL-16
Flora and fauna				
SEM5	Minimise the clearing of vegetation, particularly high retention trees.	Pre-establishment	Facility Manager	GEN-2 TR-9
Air quality				
	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression strategies.	Establishment / construction / decommissioning	Facility Manager	HY-6 WM-2
SEM26	Activities which may result in the generation of off-site dust impacts would avoid adversely windy conditions	Construction	Facility Manager	
Soil and Water				
	There will no digging or excavation at this facility therefore no risk in exposure of potential contaminated soil and groundwater.	Establishment / construction / decommissioning	Facility Manager	
	Environmental Control Map for the site will be prepared including erosion and sediment controls.	Establishment / construction / decommissioning	Facility Manager	BI-3

3. Certification

This minor ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

The noise and vibration impacts for this Project has been assessed by the AA in accordance with A29.

Signed	
Name	
Position: TfNSW/Contractor Engineer	Date
Signed	

Name

Position: Environment Representative

Date

Minor Ancillary Facility Checklist – BOCC Ancillary Facility

1. Criteria for minor ancillary facilities

Chapter 4 of the Site Establishment Management Plan (SEMP) outlines the procedure for the approval of construction compound and ancillary facilities.

As outlined in the procedure, this minor ancillary facility checklist is to be used for minor construction related ancillary facilities including minor site sheds, lunch sheds and portable toilets or other ancillary facilities determined by the ER to have a minor environmental impact. These facilities will be located in accordance with the criteria listed in Table 1 and submitted to the Transport for NSW/ER/AA for approval prior to installation. Once approved they will be included on the register contained in Appendix A of the SOM SEMP.

Table 1: Criteria for minor ancillary facilities

Site Name	BOCC Ancillary Facility
Precinct	Dundas
Chainage / Address	Lot 1, DP1021694, Rippon Avenue, Dundas, NSW

Criteria	Compliant (Yes / No)	Comments
Located within an active construction zone within the approved project boundary.	Yes	The facility is located within the existing project boundary.
Have minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts.	Yes	<p>The purpose of this facility is to support the SOM work activities undertaken in the Area 3 portion of PLR.</p> <p>It be used as an ancillary office compound, lunch-room, ablutions area and light vehicle car park for staff and workforce throughout the construction of the Project.</p> <p>Noise and vibration – Noise emissions would be limited to vehicle movements, minor civil works and staff movements.</p>

Criteria	Compliant (Yes / No)	Comments
		<p>No high-level noise or vibration activities are proposed during establishment or operation of the proposed facility.</p> <p>Establishment works will be restricted to daytime construction hours only.</p> <p>Traffic and access –The facility will be accessed via an access gate and driveway off Dudley/Calder Street.</p> <p>There are no pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facility.</p> <p>Dust – The site is previously disturbed by the PLR Infrastructure Contractor and currently consists of exposed earth.</p> <p>The site establishment for the proposed ancillary facility will include placement of a coarse aggregate / gravel to minimise dust and prevent muddy conditions post rainfall.</p> <p>Odour – No activities at the site are expected to generate odour impacts to nearby receivers.</p> <p>Visual – The facility would be obvious to visual receptors in the existing environment but is consistent with the construction compounds and activities along the PLR alignment. Temporary fencing and shade cloth installed on the boundary will be retained to minimise direct line of site visual impacts.</p>
<p>Have minimal impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project.</p>	<p>Yes</p>	<p>Waste – No impacts to waste management processes are expected. Waste facilities such as general waste and recycling skip bins will be located within the facility to ensure waste is properly managed and disposed.</p> <p>Flora and Fauna – No clearing is required for site establishment.</p> <p>The existing vegetation will be retained, and tree protection/exclusion zone fencing installed in accordance with the project Flora and Fauna Management Plan.</p>

Criteria	Compliant (Yes / No)	Comments
		<p>Soil and Water – No soil and water impacts are expected as site erosion and sediment controls will remain in place during establishment and operation of the facility.</p> <p>Heritage – No heritage items are within the proposed footprint. Nearby heritage item (Dundas Station Group) is not impacted by the proposal.</p>
<p>Have environmental and amenity impacts that can be managed through the implementation of environmental measures been detailed in the Construction Environmental Management Plan (CEMP) for the project.</p>	<p>Yes</p>	<p>All works will be undertaken in accordance with the approved project CEMP and Sub-plans.</p>

An Environmental Control Map (ECM) including site layout and environmental constraints is attached in Attachment A.

2. Mitigation measures

Table 2: Site specific mitigation measures additional to the CEMP

Ref	Measure/ Requirement	Timing / Frequency	Responsibility	Reference
General				
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better	Decommissioning	Facility Manager	GEN-2
Visual				
SEM2	Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation. Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required.	Handover / Establishment	Facility Manager	C19/C20 AQ-1 VL-16
SEM32	The facility lighting would be designed to minimise glare and light spill on adjacent properties	Construction	Facility Manager	VL-16
Air quality				
	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression measures.	Establishment / Construction / Decommissioning	Facility Manager	HY-6 WM-2

3. Certification

This minor ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

The noise and vibration impacts for this Project have been assessed by the AA in accordance with CoA A29.

Signed	
Name	
Position	GRCLR Environment, Planning and Sustainability Manager
Date	07/02/2022

Signed	
Name	
Position	Environmental Representative
Date	

Minor Ancillary Facility Checklist – Eat Street Ancillary Facility

1. Criteria for minor ancillary facilities

Chapter 6 of the Site Establishment Management Plan (SEMP) outlines the procedure for the approval of construction compound and ancillary facilities.

As outlined in the procedure, this minor ancillary facility checklist is to be used for minor construction related ancillary facilities including minor site sheds, lunch sheds and portable toilets or other ancillary facilities determined by the ER to have a minor environmental impact. These facilities will be located in accordance with the criteria listed in Table 1 and submitted to the Transport for NSW/ER/AA for approval prior to installation. Once approved they will be included on the register contained in Appendix A of the SOM SEMP.

Table 1: Criteria for minor ancillary facilities

Site Name	Eat Street Stop Compound
Precinct	PLR Portion 1B
Chainage / Address	Church Street, Parramatta

Criteria	Compliant (Yes / No)	Comments
Located within an active construction zone within the approved project boundary.	Yes	The facility is located within the existing project boundary.
Have minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts.	Yes	The purpose of this construction compound is to support the SOM work activities undertaken in the Portion 1B / “Eat Street” area of PLR. The proposed compound will be used to facilitate construction, include a “caravan” style lunch-room and ablutions block, and provide some light vehicle parking for staff and workforce.

Criteria	Compliant (Yes / No)	Comments
		<p>Noise and vibration – Noise emissions are assessed as per the project CNVIS – CBD Precinct.</p> <p>Establishment works will be restricted to daytime construction hours only.</p> <p>Traffic and access –The facility will be accessed via an access gate, with traffic entering via George Street, Parramatta.</p> <p>All traffic impacts and appropriate mitigation measures are identified in the site specific traffic and transport management plan for “Eat Street” (PLR1SOM-GLR-L11-CX-PLN-001004)</p> <p>Dust – The site consists of a stable paved/ concrete work area. Dust impacts are limited only to specific work activities which will be managed in accordance with the GRCLR Air Quality Management Plan.</p> <p>Odour – No ongoing odour impacts to nearby receivers are expected as a result of the proposed facility. Some temporary impacts may occur during ablation pump out activities.</p> <p>Visual – The facility would be obvious to visual receptors in the existing environment but is consistent with the construction compounds and activities along the PLR alignment. Temporary fencing and shade cloth installed on the boundary will be retained to minimise direct line of site visual impacts.</p>
<p>Have minimal impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project.</p>	<p>Yes</p>	<p>Waste – No impacts to waste management processes are expected. Waste facilities such as general waste and recycling skip bins will be located within the facility to ensure waste is properly managed and disposed.</p> <p>Flora and Fauna – No clearing is required for site establishment.</p> <p>The existing vegetation will be retained, and tree protection/exclusion zone fencing installed in accordance with the GRCLR Flora and Fauna Management Plan.</p>

Criteria	Compliant (Yes / No)	Comments
		<p>Soil and Water – No soil and water impacts are expected as erosion and sediment controls will be installed as per the GRCLR Soil and Water Management Plan for any construction activities with the potential to impact the local stormwater system.</p> <p>Heritage – Heritage items are identified within close proximity to the proposed compound, however external to the proposed footprint of the compound.</p> <p>Impacts to nearby heritage items will be managed in accordance with the GRCLR Construction Noise and Vibration Management Plan and Heritage Management Plan.</p>
<p>Have environmental and amenity impacts that can be managed through the implementation of environmental measures been detailed in the Construction Environmental Management Plan (CEMP) for the project.</p>	<p>Yes</p>	<p>All works will be undertaken in accordance with the approved project CEMP and Sub-plans.</p>

An Environmental Control Map (ECM) including site layout and environmental constraints is attached in Attachment A.

2. Mitigation measures

Table 2: Site specific mitigation measures additional to the CEMP

Ref	Measure/ Requirement	Timing / Frequency	Responsibility	Reference
General				
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better	Decommissioning	Facility Manager	GEN-2
Visual				
SEM2	Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation. Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required.	Handover / Establishment	Facility Manager	C19/C20 AQ-1 VL-16
SEM32	The facility lighting would be designed to minimise glare and light spill on adjacent properties	Construction	Facility Manager	VL-16
Air quality				
	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression measures.	Establishment / Construction / Decommissioning	Facility Manager	HY-6 WM-2

3. Certification

This minor ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

The noise and vibration impacts for this Project have been assessed by the AA in accordance with CoA A29.

Signed	
Name	
Position	GRCLR Environment, Planning and Sustainability Manager
Date	02/03/2022

Signed	
Name	
Position	Environmental Representative
Date	

Appendix F – Construction Ancillary Facility Checklist Template

Construction ancillary facility checklist template

[facility name]

1. Introduction

Chapter 4 of the Site Establishment Management Plan (SEMP) outlines the process for the approval of construction compounds and ancillary facilities.

As outlined in the process, this ancillary facility checklist is to be used for construction compounds and ancillary facilities that were identified in the Submission/ Preferred Infrastructure Report (SPIR) and/or Environmental Impact Statement and comply with the approved usage, boundary layout and all applicable safeguards.

2. Conditions of approval

The CoAs relevant to this checklist are listed in Table 1. A cross reference is also included to indicate where the condition is addressed in this checklist.

Table 1: Conditions of approval relevant to the ancillary facility checklist memo

CoA No	Condition Requirements	Document Reference
C18	Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant government authorities. The Plan must be submitted to the Secretary for approval one (1) month before establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:	This document
	(a) A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site)	Part of the SEMP w proposed activities +
	(b) Figures illustrating the proposed operational site layout(s)	Figures showing location of compound (i.e. 5.1) / ECMs
	(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 works	Re a) – see IERA

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 the documents identified Condition A1, ii) to address traffic, pedestrian access and amenity around each site, and iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and	
	(e) A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Conditions C9 and C11 .	CEMP
	Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.	Noted

3. Site description

(a) A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site).

Table 2: Site description

Item	Description
Facility number / precinct	
Chainage or address	
Location	
Lot ID	
Size	
Activities at site	Include details of the activities to be carried out at the facility, including the hours of operation, staging of operation and predicted date of commissioning.

(b) Figures illustrating the proposed operational site layout(s)

A locational map with layout and environmental constraints has been included in Appendix A of the SEMP.

4. Program for key environmental risks

(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 works

An initial environmental risk assessment has been included in Appendix A of the SEMP.

5. Environmental impacts and performance outcomes

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 the documents identified Condition A1,

ii) to address traffic, pedestrian access and amenity around each site, and

iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition

3: Potential environmental impacts

Issue	Impact

6. Monitoring

A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of **Conditions C9 and C11**.

7. Mitigation measures

[Add additional site specific mitigation measures to the below table]

Table 4: Site specific mitigation measures additional to the CEMP

	Measure/ Requirement	Responsibility	Timing / frequency	Reference
INSERT TOPIC				
	<i>Insert mitigation measure</i>			

8. Certification

This construction ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

Signed	
Name	
Position: TfNSW/Contractor Engineer	Date

Signed	
Name	

Position: Environment Representative

Date

Appendix G – Completed Construction Ancillary Facility Checklists

Construction ancillary facility checklist template -- 6 Grand Avenue, Camellia

6 Grand Avenue, Camellia

1. Introduction

Chapter 6 of the Site Establishment Management Plan (SEMP) outlines the process for the approval of construction compounds and ancillary facilities.

As outlined in the process, this ancillary facility checklist is to be used for construction compounds and ancillary facilities that were identified in the Submission/ Preferred Infrastructure Report (SPIR) and/or Environmental Impact Statement and comply with the approved usage, boundary layout and all applicable safeguards.

2. Conditions of approval

The CoAs relevant to this checklist are listed in Table 1. A cross reference is also included to indicate where the condition is addressed in this checklist.

Table 1: Conditions of approval relevant to the ancillary facility checklist memo

CoA No	Condition Requirements	Document Reference
C18	Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant government authorities. The Plan must be submitted to the Secretary for approval one (1) month before establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:	SEMP.
	(a) A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site)	Section 5 of the SEMF.
	(b) Figures illustrating the proposed operational site layout(s)	Appendix A of SEMF.
	(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 works	Appendix B of SEMF. Section 7 of this checklist.

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 the documents identified Condition A1, ii) to address traffic, pedestrian access and amenity around each site, and iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and	Section 7 of this checklist.
	(e) A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Conditions C9 and C11 .	Section 6 of this checklist.
	Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.	N/A

3. Site description

Table 2: Site description

Item	Description
Facility number / precinct	RCP01
Chainage or address	6 Grand Avenue
Location	Rosehill
Lot ID	DP843591
Size	580m ²
Activities at site	<p>The facility will be used for the following:</p> <ul style="list-style-type: none"> Storage of equipment and materials (hazardous and non-hazardous) and plant prior to mobilisation to the construction sites. Refuelling of plant and equipment. <p>The facility will operate 24 hours each day, seven days a week.</p> <p>The facility will be established commencing when the remediation contractor has completed the required works.</p>

A map with layout and environmental constraints has been included in Appendix A of the SEMP.

Below is a schedule of facility establishment activities:

- Install TfNSW branded shade cloth on existing perimeter chain wire fencing
- Install access/ egress gates
- Install erosion and sediment controls
- Connect to services (water / power / sewer)
- Install site-wide signage, waste bins and lighting

- Set out laydown area(s) and install concrete washout area
- Install spill kits where required.

4. Program for key environmental risks

An initial environmental risk assessment has been included in Appendix B of the SEMP. All environmental impacts are considered to have a low or nil environmental risk owing to the location of the facility, its environmental setting and the activities that would take place. Monitoring of environmental performance will continue throughout the lifetime of the facility, as described in Section 6 (Table 4).

5. Environmental impacts and performance outcomes

Table 3 reviews the potential environmental impacts of the establishment and activity of the facility. Section 6 sets out the monitoring strategy that will review the facility’s environmental performance. Section 7 provides a list of mitigation measures designed to minimise the environmental impact of the facility.

Table 3: Potential environmental impacts

Issue	Impact
Project vehicle movements in the public domain	<p>Traffic, Transport and Access - Vehicle movements to and from the facilities will include both light (workers) and heavy vehicles (equipment and materials), including some long slow-moving vehicles (up to 19m). The additional volume of traffic and the type of vehicles could cause congestion to the public roads, although the facilities are all accessible from high-capacity roads.</p> <p>The facility has no pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facility</p> <p>The facility has staff parking, therefore there should not be a significant impact to public parking</p>
Project vehicle movements in the public domain	Noise and Vibration - The project vehicles will use established busy roads; therefore, it is unlikely the project vehicles will contribute significantly to the existing noise environment, which is already dominated by road noise.
Facility establishment	Visual and landscape character – The facility would be obvious to visual receptors in the existing environment. The industrial nature of the area precludes a significant impact.
Facility establishment	Air quality - Vehicle movements and laydown activities in 6 Grand Avenue could result in the emission of dust due to the unsealed nature of the site.
Civil works	Heritage - Ground remediation works would have disturbed the heritage, precluding its relevance here.
Facility establishment	<p>Noise and vibration - Noise emissions would be limited to vehicle movements and minor civil works. No high-level noise emissions would occur.</p> <p>There are no sensitive receivers within 0.5km of the facility</p>

Issue	Impact
Accidental release of hazardous and non-hazardous materials/wastes	Land Contamination - Hazardous materials and waste will be stored within appropriately designed storage systems, which meet the required Australian Standards. All refuelling will be undertaken in designated areas, which are appropriately bunded, and which will be supplied with spill kits. The site will be on top of a capping layer which forms part of the Stage 2 Remediation Works for the site, which are currently being completed by the remediation contractor and which will be complete prior to the handover of the site to GRCLR. The capping layer will prevent penetration of any spilled contaminants. The erosion sediment control fence and water treatment system would prevent a spill from impacting local water quality.
Accidental damage to capping layer.	The facility will be established on top of the 400mm clean fill layer, which is to be installed on top of the remediation capping layer. No excavation works will be undertaken as part of the establishment, operation, or demobilisation of the facility.
Light emissions during night-time activities	Community – The facility will be operational 24hrs a day, therefore will require lighting. The location of the site within an industrial precinct, which has other occupants operating 24hrs a day, means the establishment of the site will be in keeping with the surrounding land uses. There are no sensitive receivers near to the facility, with the closest being over 0.5kms away.
Vegetation clearance	Flora and Fauna - The facility site will be provided to GRCLR cleared of vegetation. All vegetation clearing will be undertaken by the remediation contractor prior to GRCLR taking possession.

6. Monitoring

Table 4 provides a list of monitoring activities that will be undertaken to analyse the environmental performance of the facility.

Table 4: Monitoring requirements

Subject of monitoring – method of monitoring	Location of monitoring	Frequency of monitoring	Responsibility
Condition of boundary fence and hoarding - visual	Site perimeter	Weekly	Facility Manager
Efficacy of erosion sediment control - visual	Site perimeter	Weekly	Facility Manager
Site housekeeping, including contamination and escape of wastes and materials - visual	Site wide	Weekly	Project Environment and Sustainability Manager
Dust emissions - visual	Site wide	Daily	Project Environment and Sustainability Manager
Clean public roads - visual	Exit of facility	Daily	Facility Manager

Subject of monitoring – method of monitoring	Location of monitoring	Frequency of monitoring	Responsibility
Noise emissions from vehicles and equipment - equipment	All site vehicles and equipment	Monthly	Facility Manager
Site speed limit - equipment	Site wide	Periodically	Facility Manager
Weather – online forecast	Site wide	Daily	Project Environment and Sustainability Manager
Glare/light spill - visual	Site wide	Monthly	Facility Manager
Idling equipment - visual	Site wide	Weekly	Project Environment and Sustainability Manager

7. Mitigation measures

Table 5 sets out the mitigation measures that will be applied at the facility.

Table 5: Site specific mitigation measures

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM2	<p>Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation.</p> <p>Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required.</p> <p>Natural screens created by vegetation would be retained where possible.</p>	Boundary fencing and screens	Pre-establishment	Facility Manager	C19/C20 AQ-1 VL-16
SEM4	Manage stockpile areas to minimise potential pollution of watercourses, groundwater and local air quality.	Appropriately designed stockpile areas and dust suppression systems	Construction	Facility Manager	GEN-2 AQ-1
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better		Decommissioning	Facility Manager	GEN-2
SEM11	Environmental control maps would be prepared for each facility in accordance with TfNSW's Guide to Environmental Control Maps.	Environmental control map	Pre-establishment	Project Environment and Sustainability Manager	GEN-2 BI-3 AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
					HR-5 PR-5 NV-2
SEM13	Erosion sediment control measures would be implemented in accordance with Landcom's (2004) Managing Urban Stormwater: Soils and Construction and Construction Volume 2 (DECC, 2008)	Erosion sediment control measures	Establishment	Facility Manager	HY-6 EPO-SG-1
SEM14	Waste would be classified according to EPA's Waste Classification Guidelines (2016) and appropriately managed in accordance with its classification.		Establishment / construction / decommissioning	Facility Manager	HY-6 WM-2
SEM15	Waste would be managed through the waste hierarchy established under the <i>Waste Avoidance and Resource Recovery Act 2001</i> management hierarchy		Establishment / construction / decommissioning	Facility Manager	WM-2
SEM16	General site housekeeping will form part of compulsory site inductions for all personnel.		Establishment / construction / decommissioning	Facility Manager	WM-2
SEM17	Stockpile sites would, where feasible and reasonable, be located away from any surface runoff flow paths and above the 10% AEP flood levels.		Construction	Facility Manager	HY-8
SEM18	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression strategies.	Water cart/other dust suppression methods	Establishment / construction / decommissioning	Project Environment and Sustainability Manager	AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM19	Wheel-wash or rumble grid facilities would be located at the exit of each facility where the vehicles traverse unsealed ground prior to exiting	Wheel-wash or rumble grid facilities	Construction	Project Environment and Sustainability Manager	AQ-1
SEM20	Loose material and debris would be removed from the tailgate of vehicles unloading materials to stockpiles prior to departure from site.	Brushes	Construction	Facility Manager	AQ-1
SEM21	All vehicles and equipment will be maintained and serviced to operate efficiently. All on-road trucks would comply with the relevant Australian emission standards Compliance checks for noise emissions from vehicles and equipment would be carried out		Establishment / construction / decommissioning	Facility Manager	AQ-1 NV-2
SEM22	All loads will be covered when travelling offsite		Establishment / construction / decommissioning	Facility Manager	AQ-1
SEM23	Unsealed ground will be managed to minimise dust emissions e.g. by being compacted or sealed as appropriate		Establishment / construction /	Facility Manager	AQ-1
SEM24	Speed limits will be imposed to limit the generation of dust from vehicle movements	Speed limit signs	Establishment / construction /	Facility Manager	AQ-1
SEM25	Dust monitoring devices would be installed if dust emissions become a significant issue	Dust monitoring devices	Construction	Facility Manager	AQ-1
SEM26	Activities which may result in the generation of off-site dust impacts would avoid adversely windy conditions		Construction	Facility Manager	AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM27	All chemicals and fuels would be stored in sealed containers as per appropriate regulations and guidelines.	Storage systems	Construction	Facility Manager	AQ-1
SEM28	Stockpiles would be covered with an appropriate material if left undisturbed for a long period		Construction	Facility Manager	AQ-1
SEM29	Hazardous materials and wastes would be stored in appropriately designed storage facilities, in accordance with Australian Standards and DECCW guidelines	Storage systems	Pre-establishment / construction	Facility Manager	HR-5
SEM31	Chemical spill kits would be readily available and accessible to facility workers. Kits would be kept across the facility and on specific construction vehicles, and all hazardous materials spills and leaks would be reported to site managers and actions would be immediately taken to remedy spills and leaks. Employees would be trained in the correct use of spill kits.	Spill kits	Construction	Facility Manager	HR-5
SEM32	The facility lighting strategy would be designed to minimise glare and light spill on adjacent properties	Lighting	Construction	Facility Manager	VL-16
SEM37	When relevant and possible, simultaneous operation of noisy plant in close proximity to sensitive receptors would be avoided (where possible).		Construction	Facility Manager	NV-2
SEM38	Equipment which is used intermittently would be shut down when not in use.		Construction	Facility Manager	NV-2
SEM42	Where possible heavy vehicle movements would be limited to daytime hours.		Construction	Facility Manager	NV-2

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM43	Reversing of equipment would be minimised so as to prevent nuisance caused by reversing alarms, which would be limited to the use of non-tonal reversing alarms.		Construction	Facility Manager	NV-2
SEM46	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy.		Pre-establishment / construction / decommissioning	Project Environment and Sustainability Manager	EPO-SU-1
SEM47	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy.		Pre-establishment / construction / decommissioning	Project Environment and Sustainability Manager	EPO-SU-2
SEM48	The scheduling of road deliveries across the Project would be managed to make sure that road congestion is minimised. Scheduling would consider special events and other factors that could influence the volume of traffic on the road.		Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-1/3
SEM49	Gate keepers will meet arriving deliveries and make sure pedestrians and cyclists are kept clear of turning vehicles.	Gate keeper	Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-2

8. Certification

This construction ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

The noise and vibration impacts for this Project has been assessed by the AA in accordance with A29.

Signed		
Name		
Position: TfNSW/Contractor Engineer	Date	

Signed		
Name		
Position: Environment Representative	Date	

Construction ancillary facility checklist – Bridge Road, Westmead.

1. Introduction

Chapter 4 of the Site Establishment Management Plan (SEMP) outlines the process for the approval of construction compounds and ancillary facilities.

As outlined in the process, this ancillary facility checklist is to be used for construction compounds and ancillary facilities that were identified in the Submission/ Preferred Infrastructure Report (SPIR) and/or Environmental Impact Statement and comply with the approved usage, boundary layout and all applicable safeguards.

2. Conditions of approval

The CoAs relevant to this checklist are listed in Table 1. A cross reference is also included to indicate where the condition is addressed in this checklist.

Table 1: Conditions of approval relevant to the ancillary facility checklist memo

CoA No	Condition Requirements	Document Reference
C18	Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant government authorities. The Plan must be submitted to the Secretary for approval one (1) month before establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:	The SEMP to which this Appendix is attached.
	(a) A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site)	Section 5.1.5 of SEMP
	(b) Figures illustrating the proposed operational site layout(s)	Section 5.1.5 of SEMP and ECMs in Appendix A.
	(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 works	Table 7-1 of the SEMP details the management and mitigation measures for each facility. Table 8-4 of the SEMP details

CoA No	Condition Requirements	Document Reference
		<p>monitoring requirements for each facility.</p> <p>An initial risk assessment was undertaken for the facility which is provided in Appendix B of the SEMP.</p>
	<p>(d) Details of how the site establishment activities described in subsection (a) of this condition will be carried out to:</p> <p>i) meet the performance outcomes stated in the documents listed in the documents identified Condition A1,</p> <p>ii) to address traffic, pedestrian access and amenity around each site, and</p> <p>iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and</p>	Section 7 of this checklist
	<p>(e) A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Conditions C9 and C11.</p>	Section 6 of this checklist
	<p>Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.</p>	N/A

3. Site description

(a) A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site).

Table 2: Site description

Item	Description
Facility number / precinct	WP02
Chainage or address	Bridge Road, Westmead
Location	Cleared area on the eastern bank of Parramatta River near the Parramatta River Bridge at Westmead
Lot ID	Part of Lot 3 DP808447
Size	Approx. 2,300 m ²
Activities at site	<p>The facility will be used as an ancillary office compound, lunch-room, ablutions area, material storage and light vehicle car park for staff.</p> <p>Standard operating hours: 0700-1900 Monday to Friday, 0800-1800 Saturdays. Activities outside of operating hours to be undertaken in line with the requirements of the EPL.</p>

	Commissioning date: June 2022
--	-------------------------------

(b) Figures illustrating the proposed operational site layout(s)

A locational map with layout and environmental constraints has been included in Appendix A of the SEMP.

4. Program for key environmental risks

(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 works

An initial environmental risk assessment has been included in Appendix A of the SEMP.

5. Environmental impacts and performance outcomes

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 the documents identified Condition A1,*
- ii) to address traffic, pedestrian access and amenity around each site, and*
- iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition*

3: Potential environmental impacts

Issue	Impact
Project vehicle movements in the public domain	<p>Traffic, Transport and Access - Vehicle movements to and from the facilities will include both light (workers) and heavy vehicles (equipment and materials), including some long slow-moving vehicles (up to 19m). The additional volume of traffic and the type of vehicles could cause congestion to the public roads, although the facilities are all accessible from high-capacity roads.</p> <p>The facility has no pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facility</p> <p>The facility has staff parking, therefore there should not be a significant impact to public parking</p>
Project vehicle movements in the public domain	<p>Noise and Vibration - The project vehicles will use established busy roads; therefore, it is unlikely the project vehicles will contribute significantly to the existing noise environment, which is already dominated by road noise.</p>
Facility establishment	<p>Noise and vibration - Noise emissions would be limited to vehicle movements and minor civil works. No high-level noise emissions would occur.</p> <p>Works would be undertaken in accordance with the project Construction Noise and Vibration Management Plan.</p>

Issue	Impact
Light emissions during night-time activities	Community – The facility will operate during standard construction hours. Any out of hours works will be assessed and approved in accordance with the PLR SOM out of hours works protocol.

6. Monitoring

*A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of **Conditions C9** and **C11**.*

The operation of this facility will be subject to routine inspection and monitoring as per the approved project CEMP and sub-plans.

7. Mitigation measures

Table 4: Site specific mitigation measures additional to the CEMP

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM2	<p>Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation.</p> <p>Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required.</p> <p>Natural screens created by vegetation would be retained where possible.</p>	Boundary fencing and screens	Pre-establishment	Facility Manager	C19/C20 AQ-1 VL-16
SEM4	Manage stockpile areas to minimise potential pollution of watercourses, groundwater and local air quality.	Appropriately designed stockpile areas and dust suppression systems	Construction	Facility Manager	GEN-2 AQ-1
SEM9	Minimise risk to unknown heritage by avoiding excavation in facilities in areas of known heritage.		Pre-establishment	Facility Manager	GEN-2
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better		Decommissioning	Facility Manager	GEN-2
SEM11	Environmental control maps would be prepared for each facility in accordance with TfNSW's Guide to Environmental Control Maps.	Environmental control map	Pre-establishment	Project Environment and Sustainability Manager	GEN-2 BI-3 AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
					HR-5 PR-5 NV-2
SEM13	Erosion sediment control measures would be implemented in accordance with Landcom's (2004) <i>Managing Urban Stormwater: Soils and Construction and Construction Volume 2</i> (DECC, 2008)	Erosion sediment control measures	Establishment	Facility Manager	HY-6 EPO-SG-1
SEM14	Waste would be classified according to EPA's <i>Waste Classification Guidelines</i> (2016) and appropriately managed in accordance with its classification.		Establishment / construction / decommissioning	Facility Manager	HY-6 WM-2
SEM15	Waste would be managed through the waste hierarchy established under the <i>Waste Avoidance and Resource Recovery Act 2001</i> management hierarchy		Establishment / construction / decommissioning	Facility Manager	WM-2
SEM16	General site housekeeping will form part of compulsory site inductions for all personnel.		Establishment / construction / decommissioning	Facility Manager	WM-2
SEM17	Stockpile sites would, where feasible and reasonable, be located away from any surface runoff flow paths and above the 10% AEP flood levels.		Construction	Facility Manager	HY-8
SEM18	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression strategies.	Water cart/other dust suppression methods	Establishment / construction / decommissioning	Project Environment and Sustainability Manager	AQ-1
SEM19	Wheel-wash or rumble grid facilities would be located at the exit of each facility where the vehicles traverse unsealed ground prior to exiting	Wheel-wash or rumble grid facilities	Construction	Project Environment and	AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
				Sustainability Manager	
SEM20	Loose material and debris would be removed from the tailgate of vehicles unloading materials to stockpiles prior to departure from site.	Brushes	Construction	Facility Manager	AQ-1
SEM21	All vehicles and equipment will be maintained and serviced to operate efficiently. All on-road trucks would comply with the relevant Australian emission standards Compliance checks for noise emissions from vehicles and equipment would be carried out		Establishment / construction / decommissioning	Facility Manager	AQ-1 NV-2
SEM22	All loads will be covered when travelling offsite		Establishment / construction / decommissioning	Facility Manager	AQ-1
SEM23	Unsealed ground will be managed to minimise dust emissions e.g. by being compacted or sealed as appropriate		Establishment / construction /	Facility Manager	AQ-1
SEM24	Speed limits will be imposed to limit the generation of dust from vehicle movements	Speed limit signs	Establishment / construction /	Facility Manager	AQ-1
SEM25	Dust monitoring devices would be installed if dust emissions become a significant issue	Dust monitoring devices	Construction	Facility Manager	AQ-1
SEM26	Activities which may result in the generation of off-site dust impacts would avoid adversely windy conditions		Construction	Facility Manager	AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM29	Hazardous materials and wastes would be stored in appropriately designed storage facilities, in accordance with Australian Standards and DECCW guidelines	Storage systems	Pre-establishment / construction	Facility Manager	HR-5
SEM31	<p>Chemical spill kits would be readily available and accessible to facility workers. Kits would be kept across the facility and on specific construction vehicles, and all hazardous materials spills and leaks would be reported to site managers and actions would be immediately taken to remedy spills and leaks.</p> <p>Employees would be trained in the correct use of spill kits.</p>	Spill kits	Construction	Facility Manager	HR-5
SEM42	Where possible heavy vehicle movements would be limited to daytime hours.		Construction	Facility Manager	NV-2
SEM43	Reversing of equipment would be minimised so as to prevent nuisance caused by reversing alarms, which would be limited to the use of non-tonal reversing alarms.		Construction	Facility Manager	NV-2
SEM46	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy.		Pre-establishment / construction / decommissioning	Project Environment and Sustainability Manager	EPO-SU-1
SEM47	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy.		Pre-establishment / construction / decommissioning	Project Environment and Sustainability Manager	EPO-SU-2
SEM48	The scheduling of road deliveries across the Project would be managed to make sure that road congestion is minimised. Scheduling would consider special events		Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-1/3

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
	and other factors that could influence the volume of traffic on the road.				
SEM49	Gate keepers will meet arriving deliveries and make sure pedestrians and cyclists are kept clear of turning vehicles.	Gate keeper	Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-2

8. Certification

This construction ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

Signed

Name

Position: TfNSW/Contractor Engineer

Date

Signed

Name

Position: Environment Representative

Date

Construction ancillary facility checklist – Fennel Street, Parramatta

1. Introduction

Chapter 4 of the Site Establishment Management Plan (SEMP) outlines the process for the approval of construction compounds and ancillary facilities.

As outlined in the process, this ancillary facility checklist is to be used for construction compounds and ancillary facilities that were identified in the Submission/ Preferred Infrastructure Report (SPIR) and/or Environmental Impact Statement and comply with the approved usage, boundary layout and all applicable safeguards.

2. Conditions of approval

The CoAs relevant to this checklist are listed in Table 1. A cross reference is also included to indicate where the condition is addressed in this checklist.

Table 1: Conditions of approval relevant to the ancillary facility checklist memo

CoA No	Condition Requirements	Document Reference
C18	Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and relevant government authorities. The Plan must be submitted to the Secretary for approval one (1) month before establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:	The SEMP to which this Appendix is attached.
	(a) A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site)	Section 5.1.5 of SEMP
	(b) Figures illustrating the proposed operational site layout(s)	Section 5.1.5 of SEMP and ECMs in Appendix A.
	(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 works	Table 7-1 of the SEMP details the management and mitigation measures for each facility. Table 8-4 of the SEMP details

CoA No	Condition Requirements	Document Reference
		<p>monitoring requirements for each facility.</p> <p>An initial risk assessment was undertaken for the facility which is provided in Appendix B of the SEMP.</p>
	<p>(d) Details of how the site establishment activities described in subsection (a) of this condition will be carried out to:</p> <p>i) meet the performance outcomes stated in the documents listed in the documents identified Condition A1,</p> <p>ii) to address traffic, pedestrian access and amenity around each site, and</p> <p>iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and</p>	Section 7 of this checklist
	<p>(e) A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of Conditions C9 and C11.</p>	Section 6 of this checklist
	<p>Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.</p>	N/A

3. Site description

(a) *A description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site).*

Table 2: Site description

Item	Description
Facility number / precinct	PNP03
Chainage or address	Fennel Street and Church Street Parramatta, 2150
Location	West (adjacent) to light rail alignment, bounded by Villiers, Harold, Church, and Fennell Streets.
Lot ID	Lot 1/2 DP 320697, Lot 6 DP 79601, Lot 1 DP 859830, Lot 1 DP 631527, Lot 9 DP 73282, Lot A/B DP 159311, Lot 1 DP 998949, Lot 7 DP 843045, Lot 1/2/3 DP 436171
Size	Approx. 7,500 m ²
Activities at site	The facility will be used as an ancillary office compound, lunch-room, ablutions area, material storage and light vehicle car park for staff.

	<p>Standard operating hours: 0700-1900 Monday to Friday, 0800-1800 Saturdays. Activities outside of operating hours to be undertaken in line with the requirements of the EPL.</p> <p>Commissioning date: June 2022</p>
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(b) Figures illustrating the proposed operational site layout(s)

A locational map with layout and environmental constraints has been included in Appendix A of the SEMP.

4. Program for key environmental risks

(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 works

An initial environmental risk assessment has been included in Appendix A of the SEMP.

5. Environmental impacts and performance outcomes

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 the documents identified

Condition A1,

ii) to address traffic, pedestrian access and amenity around each site, and

iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition

3: Potential environmental impacts

Issue	Impact
Project vehicle movements in the public domain	<p>Traffic, Transport and Access - Vehicle movements to and from the facilities will include both light (workers) and heavy vehicles (equipment and materials), including some long slow-moving vehicles (up to 19m). The additional volume of traffic and the type of vehicles could cause congestion to the public roads, although the facilities are all accessible from high-capacity roads.</p> <p>The facility has no pedestrian pathways or adjacent properties that could be affected by vehicles accessing the facility</p> <p>The facility has staff parking, therefore there should not be a significant impact to public parking</p>
Project vehicle movements in the public domain	<p>Noise and Vibration - The project vehicles will use established busy roads; therefore, it is unlikely the project vehicles will contribute significantly to the existing noise environment, which is already dominated by road noise.</p>
Facility establishment	<p>Noise and vibration - Noise emissions would be limited to vehicle movements and minor civil works. No high-level noise emissions would occur.</p> <p>Works would be undertaken in accordance with the project Construction Noise and Vibration Management Plan.</p>

Issue	Impact
Light emissions during night-time activities	Community – The facility will operate during standard construction hours. Any out of hours works will be assessed and approved in accordance with the PLR SOM out of hours works protocol.

6. Monitoring

*A program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements of **Conditions C9** and **C11**.*

The operation of this facility will be subject to routine inspection and monitoring as per the approved project CEMP and sub-plans.

7. Mitigation measures

Table 4: Site specific mitigation measures additional to the CEMP

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM2	<p>Boundary fencing with screening is to be established around ancillary facilities prior to establishment and for the duration of construction unless otherwise agreed with councils, affected residents or business operators/landowners during consultation.</p> <p>Fencing and screens will be regularly inspected during site inspections and repaired/cleaned when required.</p> <p>Natural screens created by vegetation would be retained where possible.</p>	Boundary fencing and screens	Pre-establishment	Facility Manager	C19/C20 AQ-1 VL-16
SEM4	Manage stockpile areas to minimise potential pollution of watercourses, groundwater and local air quality.	Appropriately designed stockpile areas and dust suppression systems	Construction	Facility Manager	GEN-2 AQ-1
SEM10	Decommissioning of facilities would return the site to their pre-establishment condition, or better		Decommissioning	Facility Manager	GEN-2
SEM11	Environmental control maps would be prepared for each facility in accordance with TfNSW's Guide to Environmental Control Maps.	Environmental control map	Pre-establishment	Project Environment and Sustainability Manager	GEN-2 BI-3 AQ-1 HR-5 PR-5

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
					NV-2
SEM13	Erosion sediment control measures would be implemented in accordance with Landcom's (2004) <i>Managing Urban Stormwater: Soils and Construction and Construction Volume 2</i> (DECC, 2008)	Erosion sediment control measures	Establishment	Facility Manager	HY-6 EPO-SG-1
SEM14	Waste would be classified according to EPA's <i>Waste Classification Guidelines</i> (2016) and appropriately managed in accordance with its classification.		Establishment / construction / decommissioning	Facility Manager	HY-6 WM-2
SEM15	Waste would be managed through the waste hierarchy established under the <i>Waste Avoidance and Resource Recovery Act 2001</i> management hierarchy		Establishment / construction / decommissioning	Facility Manager	WM-2
SEM16	General site housekeeping will form part of compulsory site inductions for all personnel.		Establishment / construction / decommissioning	Facility Manager	WM-2
SEM17	Stockpile sites would, where feasible and reasonable, be located away from any surface runoff flow paths and above the 10% AEP flood levels.		Construction	Facility Manager	HY-8
SEM18	Dust emissions would be monitored visually by facility staff. The occurrence of dust emissions would trigger dust suppression strategies.	Water cart/other dust suppression methods	Establishment / construction / decommissioning	Project Environment and Sustainability Manager	AQ-1
SEM19	Wheel-wash or rumble grid facilities would be located at the exit of each facility where the vehicles traverse unsealed ground prior to exiting	Wheel-wash or rumble grid facilities	Construction	Project Environment and Sustainability Manager	AQ-1

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM20	Loose material and debris would be removed from the tailgate of vehicles unloading materials to stockpiles prior to departure from site.	Brushes	Construction	Facility Manager	AQ-1
SEM21	All vehicles and equipment will be maintained and serviced to operate efficiently. All on-road trucks would comply with the relevant Australian emission standards Compliance checks for noise emissions from vehicles and equipment would be carried out		Establishment / construction / decommissioning	Facility Manager	AQ-1 NV-2
SEM22	All loads will be covered when travelling offsite		Establishment / construction / decommissioning	Facility Manager	AQ-1
SEM23	Unsealed ground will be managed to minimise dust emissions e.g. by being compacted or sealed as appropriate		Establishment / construction /	Facility Manager	AQ-1
SEM24	Speed limits will be imposed to limit the generation of dust from vehicle movements	Speed limit signs	Establishment / construction /	Facility Manager	AQ-1
SEM25	Dust monitoring devices would be installed if dust emissions become a significant issue	Dust monitoring devices	Construction	Facility Manager	AQ-1
SEM26	Activities which may result in the generation of off-site dust impacts would avoid adversely windy conditions		Construction	Facility Manager	AQ-1
SEM29	Hazardous materials and wastes would be stored in appropriately designed storage facilities, in accordance with Australian Standards and DECCW guidelines	Storage systems	Pre-establishment / construction	Facility Manager	HR-5

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM31	<p>Chemical spill kits would be readily available and accessible to facility workers. Kits would be kept across the facility and on specific construction vehicles, and all hazardous materials spills and leaks would be reported to site managers and actions would be immediately taken to remedy spills and leaks.</p> <p>Employees would be trained in the correct use of spill kits.</p>	Spill kits	Construction	Facility Manager	HR-5
SEM42	Where possible heavy vehicle movements would be limited to daytime hours.		Construction	Facility Manager	NV-2
SEM43	Reversing of equipment would be minimised so as to prevent nuisance caused by reversing alarms, which would be limited to the use of non-tonal reversing alarms.		Construction	Facility Manager	NV-2
SEM46	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy.		Pre-establishment / construction / decommissioning	Project Environment and Sustainability Manager	EPO-SU-1
SEM47	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy.		Pre-establishment / construction / decommissioning	Project Environment and Sustainability Manager	EPO-SU-2
SEM48	The scheduling of road deliveries across the Project would be managed to make sure that road congestion is minimised. Scheduling would consider special events and other factors that could influence the volume of traffic on the road.		Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-1/3

ID	Measure/Requirement	Resources needed	When to implement	Responsibility	Reference
SEM49	Gate keepers will meet arriving deliveries and make sure pedestrians and cyclists are kept clear of turning vehicles.	Gate keeper	Pre-establishment / construction / decommissioning	Facility Manager	EPO-TT-2

8. Certification

This construction ancillary facility checklist provides a true and fair review of the proposed activity for Parramatta Light Rail project.

Signed

Name

Position: TfNSW/Contractor Engineer

Date

Signed

Name

Position: Environment Representative

Date

Appendix H – Consistency with EIS, SPIR and Infrastructure Approval

The EIS for Parramatta Light Rail did not identify the ancillary facilities the subject of this SEMP, being:

- 6 Grand Avenue, Camellia
- 8 Colquhoun Street, Rosehill.

Tables provide a summary discussion of the assessment of the proposed facilities against the criteria for consistency, and the criteria set out in the EIS for new sites.

A Consistency Assessment in the TfNSW standard template will be submitted to TfNSW, containing further detail, for review and approval separate and apart from this SEMP..

Table G-1: Assessment of the new proposed ancillary facilities – 6 Grand Avenue, Camellia

Assessment criteria	Assessment
Works comply with all relevant mitigation measures as outlined in the CEMP as required under the conditions of the approval.	The CEMP for the SaMF area of the PLR Project has been approved by DPIE. All relevant mitigation measures both from the CoA/REMMMs/EPOs and considering best industry practises will be applied. Section 7 displays the measures that will be implemented across the ancillary facilities. Site specific measures are displayed in the respective facility checklists.
Does not increase daytime or night time maximum noise levels or average noise predictions identified within the Environmental Impact Statement.	Although 6 Grand Avenue was not considered in the EIS, the noise and vibration impact assessment assessed piling, concrete works and steel erection at the SaMF site. The assessment concluded there would be only 2 receivers that would experience a minor impact from piling works as a result of exceedance of the NML (Table 40 –Technical Paper 13). The activities of the facilities (vehicle and equipment movements) would be unlikely to emit noise levels as high as the assessed activities, further reducing the potential for an exceedance of the NML and an impact to receivers.
Not require native vegetation clearing beyond that already required for the project.	The facility is located within the future SaMF site. The clearance of all vegetation within the site was considered in the EIS. All clearing has already been undertaken by the Remediation Contractor prior to commencement of SOM site establishment works.
Not have any more than a minor impact on heritage items beyond those already required for the project.	Ground remediation works has already disturbed the heritage, and salvaged items found. Therefore this is not relevant for the establishment and operation of the facility
Not unreasonably affect the land use of adjacent properties.	The facilities are located within a commercial/industrial area. The facilities' activities are synonymous with activities of adjacent properties (i.e. truck movements, equipment noise) therefore the land use of adjacent properties would not be unreasonably affected by the facilities.

Table G-2: Assessment of the new proposed ancillary facilities – 8 Colquhoun Street, Rosehill

Assessment criteria	Assessment
Works comply with all relevant mitigation measures as outlined in the CEMP as required under the conditions of the approval.	The CEMP for the SaMF area of the PLR Project has been approved by DPIE. All relevant mitigation measures both from the CoA/REMMMs/EPOs and considering best industry practises will be applied. Section 7 displays the measures that will be implemented across the ancillary facilities. Site specific measures are displayed in the respective facility checklists.
Does not increase daytime or night time maximum noise levels or average noise predictions identified within the Environmental Impact Statement.	Although 8 Colquhoun was not considered in the EIS, the noise and vibration impact assessment assessed piling, concrete works and steel erection at the SaMF site. The assessment concluded there would be only 2 receivers that would experience a minor impact from piling works as a result of exceedance of the NML (Table 40 –Technical Paper 13). The activities of the facilities (vehicle and equipment movements) would be unlikely to emits noise levels as high as the assessed activities, further reducing the potential for an exceedance of the NML and an impact to receivers.
Not require native vegetation clearing beyond that already required for the project.	The use of the facility would require the clearance of approximately 0.2ha of grassland within an otherwise developed area of land. This was not considered in the EIS
Not have any more than a minor impact on heritage items beyond those already required for the project.	No ground intrusive works would be required at this facility. There are no known heritage features nearby.
Not unreasonably affect the land use of adjacent properties.	The facilities are located within a commercial/industrial area. The facilities' activities are synonymous with activities of adjacent properties (i.e. truck movements, equipment noise) therefore the land use of adjacent properties would not be unreasonably affected by the facilities.

Appendix J – Consistency Assessment Approval (TfNSW Template – if required)

Appendix K – ER Endorsement



21 June 2022

Transport for NSW

Attention to: [REDACTED]
Senior Manager Environment
Parramatta Light Rail
130 George St, Parramatta, NSW 2150

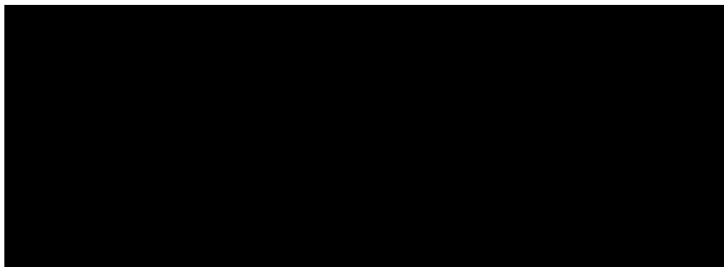
**Review of Site Establishment Management Plan – Ancillary Facilities
Supply, Operate and Maintain (SOM) Contract (Package 5) Parramatta Light Rail
(PLR1SOM-GLR-ALL-PE-PLN-001002 Rev 1)**

Pursuant to SSI8285 Condition of Approval A23 (d) i), as the approved Environmental Representative, I confirm that I have reviewed the updated Site Establishment Management Plan – Ancillary Facilities, Supply, Operate and Maintain (SOM) Contract (Package 5) Parramatta Light Rail (PLR1SOM-GLR-ALL-PE-PLN-001002 Rev 1), dated June 2022, prepared by Great River City Light Rail, for consistency with the requirements of the Conditions of Approval.

In my opinion the aforementioned document updated to include additional compound sites is consistent with the requirements included in or required under the terms of the Conditions of Approval for the Parramatta Light Rail (Stage 1) development.

Yours sincerely,

Australian Quality Assurance & Superintendence Pty Ltd (AQUAS)



Filename : AQ1148.05 PLR GLR SEMP rev1 endorsement 220621

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