



**HICKSON ROAD SOUTH UPGRADE**

**PRELIMINARY**

**CONSTRUCTION, TRAFFIC, ENVIRONMENTAL,  
MANAGEMENT PLAN**

November 2025

Revision 1 – REF Submission

## **Table of Contents**

1.	Executive Summary.....	4
2.	Project Understanding .....	7
2.1.	Introduction.....	7
2.2.	Background .....	7
2.3.	Project Description .....	8
2.4.	CTEMP Context.....	8
2.5.	Environment Health and Safety Management System .....	9
3.	Site Management .....	10
3.1.	Site Establishment.....	10
3.1.1.1.	Introduction.....	10
3.1.1.2.	Contact Details .....	10
3.1.1.3.	Parking .....	10
3.1.1.4.	Security and Hoarding Management .....	10
3.1.1.5.	Safety Information .....	10
3.1.1.6.	First Aid Facilities .....	11
3.1.1.7.	Approved plans to be on-site.....	11
3.1.1.8.	Dilapidation Survey .....	11
3.1.1.9.	Site Notice .....	11
3.1.1.10.	Neighbours .....	11
3.2.	Construction Methodology.....	12
4.	Environmental Management.....	13
4.1.	Environmental Management Structure and Responsibility .....	13
4.2.	Reporting.....	15
4.3.	Environmental Training.....	15
4.4.	Emergency Contacts and Response .....	16
5.	Implementation .....	17
5.1.	Construction Environmental Management.....	17
6.	Auditing, Monitoring and Review .....	21

## **Appendices**

### **Appendix A: DRAWINGS**

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## Abbreviations

INSW	Infrastructure New South Wales
DPHI	Department of Planning, Housing & Infrastructure
CTEMP	Construction, Environmental, Traffic Management Plan
EH&S	Environment, Health and Safety
EIS	Environmental Impact Statement
EMS	Environmental Management System
EPA	NSW Environment Protection Authority
GFA	Gross Floor Area
MSDS	Materials Safety Data Sheet
PM	Project Manager
RAP	Remedial Action Plan
RWP	Remedial Work Plan
SM	Site Manager
SWMS	Safe Work Method Statement
WMP	Waste Management Plan

# 1. Executive Summary

This preliminary Construction, Traffic, Environmental Management Plan (CTEMP) has been developed by Lendlease Construction for Lendlease Millers Point (hereafter referred to as Lendlease). The CTEMP is a framework to support the Review of Environmental Factors for the Hickson Road South Upgrade Works.

Ultimately a final CTEMP will be prepared by the Principal Contractor prior to the commencement of works.

The proposed extent of works for Hickson Road South Upgrade Works is from chainage 175.00 to chainage 540.00 along Hickson Road, up to chainage 33.60 along Waterman's Quay and chainage 35.16 along Barton Street. Refer Fig 1 below for the nominated extent of works.

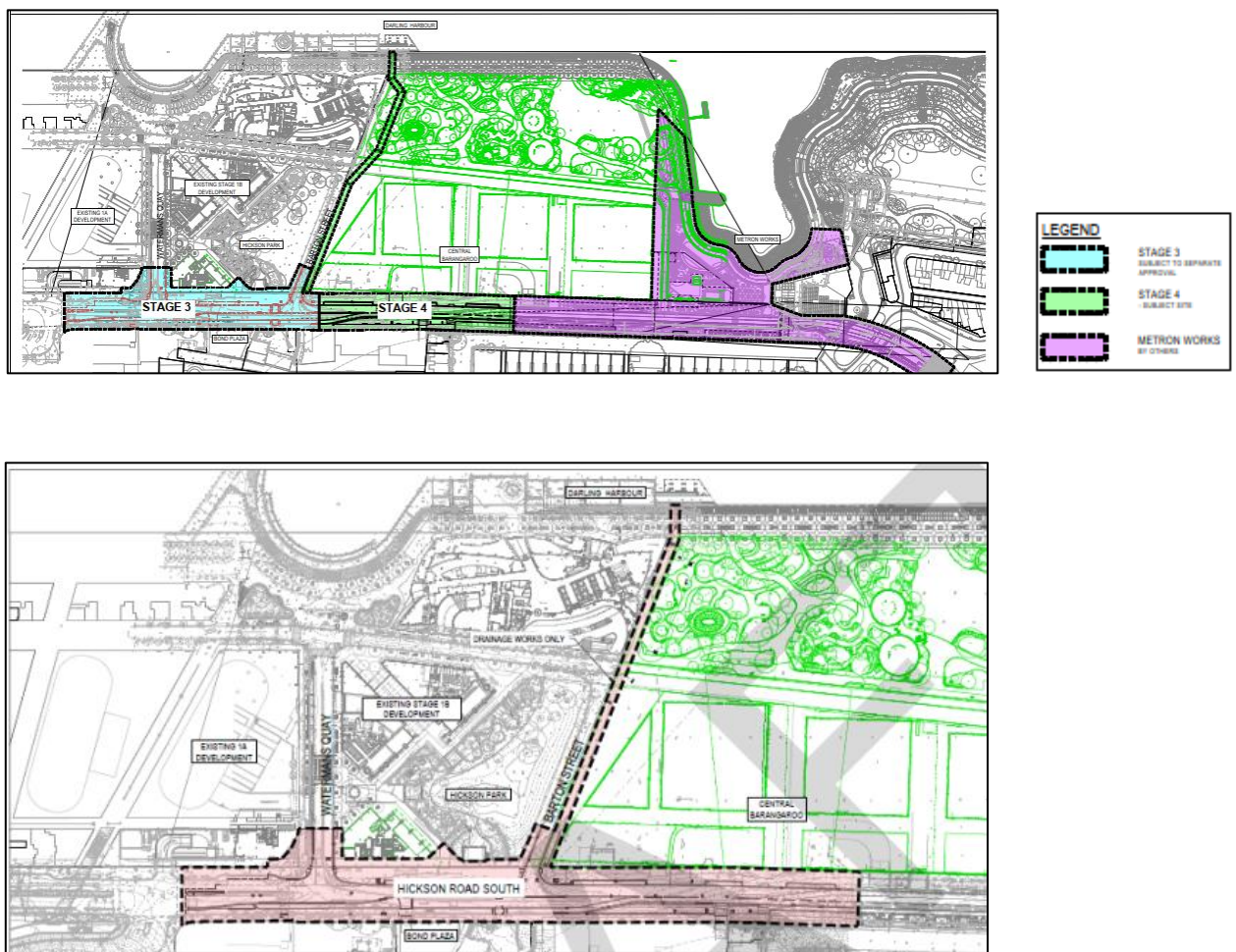


Figure 1: Location & extent of Hickson Rd South Upgrade works

The Hickson Rd South Upgrade Works involve the following activities:

- Adjustment to horizontal geometry of the existing Hickson Road, enabling the provision of:
  - Additional short term parking bays along the western side of the roadway;
  - A new two-way separated cycleway along the eastern edge of the roadway;
- Provision of two (2) un-signalised pedestrian crossings along Hickson Road, creating a pedestrian connection to Hickson Park and Central Barangaroo;
- Adjustments to two (2) existing un-signalised pedestrian crossing intersections along Waterman's Quay and Barton Street respectively;
- Installing of a formal left turn slip lane into Waterman's Quay from the north-bound approach on Hickson Road;
- Constructing new footpaths on the western and eastern sides of Hickson Road to match the already completed footpath works to the north and south of the existing extent of proposed works;
- Provision of permeable paving to accommodate existing trees;
- Landscaping works including the establishment of low-median planting between the eastern edge of the road carriageway and eastern footpath and installation of additional medium sized trees along both the eastern and western footpaths and within the landscape medians;
- Relocation and augmentation of utilities where necessary, including electrical, gas, water and telecommunications;
- Final roadworks, including kerb and gutters, road and footpath pavements, signage, lighting and line marking;
- Installation of new stormwater drainage pit and pipe infrastructure, including a trunk drainage line running adjacent Barton Street to an existing outlet to Sydney Harbour;
- Ancillary works for the project including, but not limited to, road furniture, tie-in works, earthworks, adjustments to existing stormwater drainage infrastructure and flood mitigation works

Works are proposed to be generally undertaken between the hours of 7.00am and 7.00pm Monday-Friday and between 7.00am and 5.00pm on Saturdays. Occasional night works, and works on Sundays or public holidays, would be required where dictated by authority requirements or for worker or public safety.

Construction activities would be locally enclosed by hoarding or temporary fencing. Site vehicle access would be via temporary access points, as per a Traffic Management Plan. Lunch, change and ablution facilities within Barangaroo would be available for the use of all site personnel.

All site personnel, including subcontractors and visitors, would be inducted under the Principal Contractor's Environment, Health, and Safety Management System. Records of all induction, ongoing training and reporting would be maintained.

Site specific environmental management protocols would be established by the Principal Contractor to ensure environmental responsibilities are implemented and documented.

A primary contact(s) to deal with environmental emergencies would be nominated and their 24 hour/day 7 days/week contact details prominently displayed on site.

Vehicular and pedestrian traffic management and controls would be implemented and monitored to minimise disruptions to site activities and surrounding road network.

A comprehensive stakeholder action plan would be implemented to maintain a good neighbour policy with surrounding businesses, residents and special interest groups during construction.

Dust suppression, as well as erosion and sediment control measures would be installed prior to excavation works and service installations and would be maintained for the duration of construction.

All excavation fill has been assumed to be VENM, so the removal, disposal, monitoring and remediation of any contaminated fill has not been discussed in this management plan.

This plan also excludes environmental monitoring, gas and cyanide exposure as well as associated site establishment requirements including tents, air monitors, etc.

This plan has made allowance for non-contaminated de-watering during construction and excludes on-site water treatment prior to disposal of ground water.

## **2. Project Understanding**

### **2.1. Introduction**

This report supports a Review of Environmental Factors (REF) under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act). The REF seeks approval for road works in the Hickson Road South Upgrade Works as described in the Project Description section of this plan. These works are required to provide improved road alignment, stormwater drainage and landscaping in the area adjacent to the Barangaroo South site.

The road works area extends over land generally known and identified as:

- the road and pedestrian footpath area along Napoleon Street; and
- the road and pedestrian footpath area along Hickson Road,

This report has been prepared to accompany the REF for Hickson Road South Upgrade Works.

### **2.2. Background**

Barangaroo is located on the north-western edge of the Sydney Central Business District. The Barangaroo site is bounded by Sydney Harbour to the west and north, Millers Point and The Rocks to the east; and by a range of new commercial development to the south and east. The Barangaroo site has been divided into three distinct redevelopment areas:

- Barangaroo South
- Barangaroo Central
- Barangaroo Reserve

### **2.3. Project Description**

The REF seeks approval for road works on Hickson Road, Waterman's Quay and Barton Street. The Hickson Rd South Upgrade Works involve the following activities:

- Adjustment to horizontal geometry of the existing Hickson Road, enabling the provision of:
- Additional short term parking bays along the western side of the roadway;
- A new two-way separated cycleway along the eastern edge of the roadway;
- Provision of two (2) un-signalised pedestrian crossings along Hickson Road, creating a pedestrian connection to Hickson Park and Central Barangaroo;
- Adjustments to two (2) existing un-signalised pedestrian crossing intersections along Waterman's Quay and Barton Street respectively;
- Installing of a formal left turn slip lane into Waterman's Quay from the north-bound approach on Hickson Road;
- Constructing new footpaths on the western and eastern sides of Hickson Road to match the already completed footpath works to the north and south of the existing extent of proposed works;
- Provision of permeable paving to accommodate existing trees;
- Landscaping works including the establishment of low-median planting between the eastern edge of the road carriageway and eastern footpath and installation of additional medium sized trees along both the eastern and western footpaths and within the landscape medians;
- Relocation and augmentation of utilities where necessary, including electrical, gas, water and telecommunications;
- Final roadworks, including kerb and gutters, road and footpath pavements, signage, lighting and line marking;
- Installation of new stormwater drainage pit and pipe infrastructure, including a trunk drainage line running adjacent Barton Street to an existing outlet to Sydney Harbour;
- Ancillary works for the project including, but not limited to, road furniture, tie-in works, earthworks, adjustments to existing stormwater drainage infrastructure and flood mitigation works

Drawings of the proposed works are included in **Appendix A**.

### **2.4. CTEMP Context**

This CTEMP links the approval process and the Environment Health and Safety (EH&S) management system to be implemented for construction. This CTEMP generally describes environmental management protocols that would be implemented through the EH&S management system. It is a conceptual management tool that assists in informing suitable high standards of environmental protection during construction and would provide guidance for environmental controls to be implemented before and during construction.

## **2.5. Environment Health and Safety Management System**

### **2.5.1.1. Background information**

The Principal Contractor's construction management would be implemented through the Environment Health and Safety (EH&S) management system. This CTEMP is intended to integrate the requirements of the environmental impacts noted at concept assessment with the operational systems process of the EH&S management system.

The EH&S Management System is based on the ISO14000 model and has been accredited under the NSW Government Environmental Management Systems Guidelines. The management system translates the LLC Environment, Health, and Safety Policy into processes so that environmental responsibilities and performance can be monitored, reported, and improved. The processes for monitoring procedures to ensure continual improvement in environmental performance are part of the EH&S Management System and are referred to as EH&S throughout this document.

### **2.5.1.2. Environment Health & Safety (EH&S) Management System**

The EH&S Management System will be developed to focus on production of a project specific EH&S Plan, covering construction activity risks to be identified and managed.

Both environmental and safety issues are included in the EH&S Plan, prepared specifically for each project based on a template. Mandatory company procedures (i.e. risk assessment, reporting, auditing, and emergency / incident management etc), standard forms and minimum company standards are all included in the template.

While there are common management procedures and forms used for environmental and safety assessment, a specific CTEMP and associated environmental management sub-plans are prepared for project specific conditions.

### **2.5.1.3. EH&S Standards**

Company EH&S Standards and requirements apply to all personnel on the project. Project specific rules are to be developed in accordance with Company EH&S Standards. Project specific requirements would be explained in tender packages and clarified in site inductions.

A visitor's register would be maintained on site at all times with all visitors to sign the register before accessing site with a site inducted person.

### **2.5.1.4. Roles and Responsibilities**

Project Roles and Responsibilities for EH&S would be detailed in the EH&S Plan. Key staff and service provider responsibilities for the delivery of the Environment, Health and Safety Policy would be detailed in the EH&S Plan.

More specific Site Management Issues are discussed in Section 3 discussed in and Environmental issues in Section 4.

## 3. Site Management

### 3.1. Site Establishment

#### 3.1.1.1. Introduction

The site for road works, and a general arrangement site plan, is included in **Appendix A**.

#### 3.1.1.2. Contact Details

Contact details for the senior site representative would be displayed on site.

#### 3.1.1.3. Parking

No on-site parking is proposed to be made available for general tradespersons or site personnel.

#### 3.1.1.4. Security and Hoarding Management

The site will be enclosed by fencing and visual screens during construction.

To ensure controlled access is maintained on the project, a security swipe card system would be implemented. All construction workers and visitors would be issued with a swipe card at their induction. This would allow the Principal Contractor to monitor all onsite personnel at any given time.

#### 3.1.1.5. Safety Information

All employees on site must first complete the site induction in accordance with the Principal Contractor's EH&S management system.

In addition, all subcontractors must induct their employees into their specific safe work procedures and submit evidence of appropriate management mechanisms to the Principal Contractor.

The Principal Contractor will periodically conduct internal safety audits, the audit team would consist of:

- Principal Contractor Safety Manager;
- Site EH&S Safety Coordinator; and
- Subcontractor Representative.

An EH&S information board would be erected at the Site Office, and a copy of the Principal Contractor EH&S policy would prominently be displayed on the board.

### **3.1.1.6. First Aid Facilities**

The Principal Contractor will ensure First Aid Facilities are provided in accordance with WorkCover requirements. Subcontractors are to provide a First Aider for their individual company works. A nominated first aider would be on site whenever work is being carried out. This would be either a Principal Contractor or Subcontractor representative.

### **3.1.1.7. Approved plans to be on-site**

The Principal Contractor will maintain a copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification on site at all times.

### **3.1.1.8. Dilapidation Survey**

A dilapidation survey would be undertaken for adjacent structures, domains and services infrastructure.

### **3.1.1.9. Site Notice**

The Principal Contractor will display at the boundaries of the site, the project's certifier and the relevant emergency contact name and contact number.

### **3.1.1.10. Neighbours**

The proponent (INSW) has developed a Stakeholder Engagement Strategy as part of ongoing engagement with the local community and key stakeholders. The main objective of this strategy is to provide a process that engages the community and key stakeholders in the delivery of Hickson Road South Upgrade Works. The objectives are to:

- Ensure all stakeholders and affected community members are well informed about the Hickson Road South Upgrade works and are given an opportunity to provide input into the project.
- Minimise impacts to affected residents and stakeholders; and
- Create opportunities for stakeholders to access transparent information on the project and provide forums for feedback and enquires.

The Principal Contractor has a commitment to an inclusive and pro-active community and stakeholder engagement process, which would be both responsive (to complaints) and proactive (with provision of information). The engagement would take many forms and would be agreed upon in conjunction with Infrastructure New South Wales to align with their existing communications program.

### **3.2. Construction Methodology**

All works would be carried out to satisfy the Determining Authority's requirements, ensuring safety and continuity of the works. Facilities, hoardings, notices, entrances, etc. will be established to undertake Hickson Road South Upgrade Works.

The Hickson Rd South Upgrade Works involve the following activities:

- Adjustment to horizontal geometry of the existing Hickson Road, enabling the provision of:
- Additional short term parking bays along the western side of the roadway;
- A new two-way separated cycleway along the eastern edge of the roadway;
- Provision of two (2) un-signalised pedestrian crossings along Hickson Road, creating a pedestrian connection to Hickson Park and Central Barangaroo;
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- Installation of new stormwater drainage pit and pipe infrastructure, including a trunk drainage line running adjacent Barton Street to an existing outlet to Sydney Harbour;
- Ancillary works for the project including, but not limited to, road furniture, tie-in works, earthworks, adjustments to existing stormwater drainage infrastructure and flood mitigation works

It is intended to commence road works from the western side of Hickson road and then divert traffic to the north bound lane and then complete the required works on the eastern side of the road. Nighttime works may be required for connection of utilities services or other works if required for safety or to prevent disruption to the public or neighbours.

## 4. Environmental Management

### 4.1. Environmental Management Structure and Responsibility

The relevant CTEMP responsibilities are presented below in **Table 4.1**. Responsibilities would be implemented as part of the Project EH&S Plan.

**Table 4.1 - CTEMP Responsibilities**

Individual	Responsibility
<p>All Staff including Sub-Contractors</p>	<p>All staff have responsibility for their own environmental performance and the impact they have on environmental performance. In particular, staff should:</p> <ul style="list-style-type: none"> <li>• Undertake all activities in accordance with the agreed plans of management, procedures, and work methods.</li> <li>• Ensure that they are aware of the contact person(s) regarding environmental matters.</li> <li>• Report any activity that has resulted, or has the potential to result, in an environmental incident.</li> </ul>
<p>Principal Contractor</p>	<p>The Principal Contractor has the following responsibilities under the CTEMP:</p> <ul style="list-style-type: none"> <li>• Provide clear guidance under the EH&amp;S Management System so that work undertaken is consistent with legal and contractual requirements.</li> <li>• Provide adequate resources to allow effective development, implementation, and maintenance of the EH&amp;S Management System.</li> <li>• Participate and provide guidance in the regular review of the EH&amp;S Management System and associated documents.</li> </ul>

<p>Construction Manager</p>	<p>The contractor’s project manager would nominate the Environmental Manager. The EM would have responsibility for environmental management in accordance with relevant requirements, including:</p> <ul style="list-style-type: none"> <li>• Prepare documents for the operational deployment of the guidelines of the CTEMP and related documents.</li> <li>• Provide environmental advice on matters specified in the project contracts, licences and permits.</li> <li>• Comply with the requirements of the environmental documents.</li> <li>• Facilitate induction and training programs for all persons involved in the construction works.</li> <li>• Liaise with all relevant government authorities such as the EPA and DPHI. Implement and review compliance with the EHS management system and associated environmental documents.</li> </ul> <p>In addition, the Principal Contractor Project Manager is responsible for:</p> <ul style="list-style-type: none"> <li>• Apprise the Site Foreman of requirements of the EHS management system, and their responsibilities within them.</li> <li>• Allocate resources to meet the requirement of the EHS management system.</li> <li>• Investigate complaints to determine effective resolution.</li> <li>• Nominate appropriate pollution control measures for proposed works.</li> <li>• Maintain all necessary monitoring records and reports.</li> </ul>
<p>Site Manager</p>	<p>The Site Manager is responsible to the Construction Manager and has responsibilities under the EHS management system that include:</p> <ul style="list-style-type: none"> <li>• Management of the works in accordance with the requirements of the environmental management system, work instructions, and associated documents including the implementation of environmental controls.</li> <li>• Undertake environmental duties as defined by the Project Manager.</li> <li>• Identify environmental risks.</li> <li>• Attend to spills or environmental incidents that may occur on site.</li> <li>• Report activity that has resulted, or has the potential to result in an environmental incident immediately to the Project Manager.</li> <li>• Issue instructions and related information to employees that relate to environmental risks on site.</li> <li>• Where necessary, coordinate environmental inspections and maintain environmental records as defined by the EHS management system and work instructions.</li> </ul>
<p>Sub-Contract Personnel</p>	<p>All sub-contract personnel must carry out the work in accordance with contract instructions and would conduct their activities in an environmentally sound manner. All sub-contract personnel would undergo environmental induction before they commence any work on the construction site.</p>

## **4.2. Reporting**

Reporting for environmental issues would generally be undertaken for:

- pre-construction compliance;
- construction monitoring;
- non-compliance;
- corrective action;
- complaint management;
- auditing.

The EH&S Management System would address and provide detail on safeguards outlined in this CTEMP. The EH&S Management System would coordinate and consolidate the appropriate protection and / or mitigation controls and directions before, during and after construction. The following items would generally be considered as part of the EH&S Management System:

- community consultation;
- general hazards and risk mitigation;
- noise and vibration management;
- air quality and odour control;
- contaminated soil and water management;
- stormwater and erosion management;
- waste management; and
- hazardous goods and chemical management.

## **4.3. Environmental Training**

### **4.3.1.1. Site Induction Training**

Site induction would be undertaken in accordance with the EH&S Management System. Prior to commencing work on the project, all staff and subcontractors would receive induction training that would include the following environmental information as a minimum:

- Overall EH&S Management System structure;
- Developer's and Contractor's Environment Health and Safety Policy;
- Roles and responsibilities and site management contact details;
- Relevant legislation as may be deemed appropriate;
- Key environmental issues and controls (covering environmental issues related to air quality, water quality, erosion and sedimentation, noise, traffic and access as necessary);
- Hazards, Risks and Emergency Response Plans, and
- Incident Reporting.

Those elements of the EH&S Management System that directly relate to the work to be carried out by the person or persons being inducted, would be covered as part of the induction. Records detailing the attendees and content of the induction / training would be maintained.

#### **4.3.1.2. Specialist Environmental Training**

In addition to the induction program, specialised training would be provided to personnel, when deemed necessary, to present them with the knowledge, skills and awareness to minimise impact of site activities on the environment.

#### **4.3.1.3. Training Records**

Training records would be maintained and include information on trainees, trainer, date, and training content.

### **4.4. Emergency Contacts and Response**

#### **4.4.1.1. General**

An environmental incident is an unplanned event, such as an oil or chemical spill that occurs on site and could cause significant adverse environmental impacts. The EH&S Management System would nominate specific persons to be the primary contact for environmental emergencies. The nominated persons would be available 24-hours/day, 7-days/week.

#### **4.4.1.2. Emergency Contacts**

Emergency contacts are to be clearly displayed within the Site Office and to be accessible by the project team, e.g. Project Noticeboard. The accident and corresponding contact would be clear and concise as shown below in **Table 4.2**

**Table 4.2 – Example Emergency Contacts**

<b>Accidents and Emergencies</b>	<b>Contact Telephone Number</b>
Fire Brigade	000
Police	000
Ambulance	000
EPA Pollution Line	131 555
Dangerous Good Licencing Hotline	131 050
Work Cover	(02) 9827-8600

#### **4.4.1.3. Site Information for Hazardous Materials**

Specific guidance for storage, handling and management of hazardous substances and dangerous goods on site would be implemented as part of the Project EH&S Plan.

## 5. Implementation

### 5.1. Construction Environmental Management

#### 5.1.1.1. Noise & Vibration

All road works and related activities would be carried out in accordance with the approved Noise & Vibration Management Plan prepared by RWDI.

#### **Management Controls and Mitigation Measures**

Noise and vibration will be appropriately managed and mitigated via updates to the Construction Environmental Management Plan, including providing specific abatement guidance for the cumulative construction noise, which is the most likely process to exceeding noise guideline levels.

#### **Monitoring**

Noise monitoring would be conducted:

- Intermittently, as an ongoing indicator of noise emissions from the site;
- In response to complaints; and
- Where specific monitoring is needed. For example, where noise emission is produced near sensitive structures to confirm safe working distances.

Attended or unattended long-term monitoring may be used as appropriate.

Vibration monitoring would be conducted:

- Intermittently, as deemed appropriate, to provide an ongoing indication of vibration emissions
- from the site; and
- In response to complaints.

#### 5.1.1.2. Air Quality and Odours

The air quality throughout the construction phase will be monitored and managed as per the approved Air Quality and Odours Sub-Management Plan prepared by ERM.

#### **Management Controls and Mitigation Measures**

Construction phase air quality impacts would be minimised or avoided by incorporation of appropriate air quality control measures as directed by the most recent air quality impact assessment.

The installation and application of air quality controls during the construction phase would be in accordance with the Air & Odour Management Sub-Plan, and specifically the following principles:

All equipment used and all facilities erected on site are to be designed and operated to control the excessive emission of smoke, dust, fumes and any other air impurity into the atmosphere;

Spray earthworks, roads and other surfaces as necessary with water to reduce dust generation;

- A water cart would be employed, as required, to dampen work areas and exposed soils to prevent the emission of excessive dust from the site;
- Trucks transporting material from the site would be covered after loading to prevent windblown dust emissions and spillages;
- All access roads would be surfaced in appropriately selected materials;
- Subcontractors would maintain all construction equipment to reduce exhaust emissions.

## **Monitoring**

The Site Manager (SM) would visually monitor levels of dust deposition and air quality, the effectiveness of dust emission controls and the construction site and the impacts of any nuisance on adjoining properties.

### **5.1.1.3. Stormwater and Erosion**

The majority of erosion and sediment controls would be implemented as per the Construction Environmental Management Plan. Typical erosion and sediment controls proposed for use will be shown in the Construction drawings. These include controls at stormwater drains and localised around specific works.

## **Management Controls and Mitigation Measures**

Prior to any road works or earthworks commencing on site, all erosion and sediment control measures would be implemented. These measures would generally include erosion and sediment controls as deemed necessary:

- Installation of additional sediment fencing, or jersey kerbs with bitumen to provide seals;
- Pumping captured stormwater to the existing site water treatment plant, if required;
- Installation of silt arrestors to collect site runoff and retain suspended particles; and
- Placement of sediment controls around and along any catch drains.

### **5.1.1.4. Waste Management**

The goal for construction waste management is primarily the reduction of waste generated. Waste reduction would occur through materials procurement, handling, storage and use. Waste generated during construction would be reused onsite, or recycled or disposed at a suitably licenced facility.

Waste collection would be appropriately managed through the staged nature of construction and the use of known quantities of materials. The majority of recyclable material that could be recovered during construction is likely to be off cuts and discards of concrete reinforcement (steel) and excess concrete. Waste would be managed as per the Construction Environmental Management Plan.

No hazardous materials or dangerous goods would be stored on site.

### **5.1.1.5. Traffic Management**

As part of construction activities, traffic management and controls would be implemented both within and surrounding the development site.

Refuelling performed on site would be for the construction equipment, such as excavators, mobile cranes and other plant / equipment operating on site.

The following minimum goals have been identified in relation to site and surrounding traffic management:

- Provide a safe environment during construction for construction workers;
- Provide a safe environment for road users, cyclists and pedestrians using adjacent roads and alternate routes; and
- Limit delay times within the surrounding road network.

Traffic management and control measures would be implemented within the site to clearly identify proposed haul road location(s). The placement of jersey kerbs and fencing would provide a safe environment for construction vehicles and pedestrians. Associated signage would supplement physical structures within the site.

Adequate directional and warning signage would be installed surrounding the development site to clearly inform motorists, cyclist and pedestrians of the approaching changes within Hickson Road, Napoleon Street, Waterman's Quay and Barton Street. Signage would also inform delivery drivers of the proposed entry and exit gate locations.

All proposed traffic management and controls would be documented in the detailed design stage by accredited TfNSW traffic control designers and where required, the approval obtained by the necessary statutory approval organisations. Road occupancy certificates would be obtained prior to any works commencing where appropriate.

#### **5.1.1.6. Management of Existing Service**

Existing services within the development area consist of electrical, communications, gas and stormwater drainage conduits. Associated drainage, sewer and communication services would be diverted from within the construction area with temporary connections made, as required.

#### **5.1.1.7. Consultation Strategy and Management**

A comprehensive action plan to engage with stakeholders in relation to the construction works programme would be developed to establish appropriate processes for engaging stakeholders and managing complaints and enquiries. Management of stakeholders would be undertaken in accordance with a Stakeholder Engagement Plan in order to maintain a good neighbour policy with the existing adjoining properties and other local facilities, residents and special interest groups by reducing disturbances and confining any potential loss of amenity.

The potential for negative environmental and amenity impacts during construction, although over a relatively short duration, needs to be managed through environmental monitoring during construction, ongoing community engagement of environmental performance and provision of project information such as operating hours and traffic circulation routes.

Due to the nature of the proposed construction works and the proximity of the site to the local community, appropriate mitigation measures and safeguards are required to avoid the potential for impacts such as:

- Noise and vibration generated during construction activities, affecting adjoining properties;
- Dust generated from construction activities, affecting adjoining properties; and
- Vehicles leaving the construction site depositing dirt/mud on public roads.

Existing properties directly affected by the construction program would be advised of works and provided with contact details, which would be supported by a community relations team providing:

A contacts database for registering, managing and reporting complaints & enquiries;

- A 1300 number for enquiries & complaints;
- A website with a dedicated email address and feedback forms; and

- Specific information in the form of letters, fact sheets and newsletters for the local
- community.

The intent is for all works to be conducted within approved working hours; however, if works are expected to extend beyond these hours, appropriate stakeholders would be notified prior to these activities.

## **5.2 Environmental Management Plans**

A EHS Management Plan would be developed for the project to identify key responsibilities and areas of risk.

Management sub plans would be implemented to further assess hazards and risk and to provide the framework to manage the mitigation of risk.

The Construction Manager or a nominated person would be responsible for implementing and maintaining the management sub plan(s) and their requirements.

The topics such as Air Quality Management, Contamination Management, Emergency Response Management, Fatigue Management, Drug & Alcohol Testing Management, Heritage & Archaeological Management, Noise & Vibration Management, Stormwater, Erosion & Sedimentation Management, Tenancy Management, Traffic & Parking Management and Waste Management will be either addressed in separate sub-plans or via updates to the Construction Environmental Management Plan.

## **6. Auditing, Monitoring and Review**

### **6.1 Environmental Monitoring**

Monitoring of environmental activities would be undertaken according to the procedures outlined in the EH&S Management System.

The environmental monitoring protocols would be incorporated into the EH&S Management System for the project.

Monitoring records would be collated, distributed, and stored as part of the EH&S Management System.

### **6.2 Environmental Auditing**

Auditing would be undertaken to review the effectiveness and implementation of the Principal Contractor EH&S Management System at regular intervals.

Audit methodology would be a review of written procedures and implementation activities on site to assess the effectiveness of the management system and control activities.

Audit results would be reviewed and corrective action taken, as necessary. Where corrective action or updates are required, subsequent auditing would be undertaken to confirm the appropriateness of the corrections or updates.

# **Appendix A:**

# **DRAWINGS**