POWERHOUSE PARRAMATTA (C35) Construction Environmental Health and Safety Management Plan

POWERHOUSE PARRAMATTA – Part 1
EHS MANAGEMENT PLAN

CONTENTS

1.0 INTRODUCTION

Lendlease Construction (Construction) Australia incorporating:

- Lendlease Construction Pty Limited;
- Lendlease Construction (Southern) Pty Limited; and
- Lendlease Construction (Qld/WA) Pty Limited.

Operates an integrated management system where the functions and requirements of environment management and work health and safety (WHS or equivalent) are integrated, Environment, Health and Safety (EHS).

Part 1 of the EHS Plan outlines the workplace specific EHS information such as project scope details, organisation chart, contact details, subplans, special conditions etc.

Part 2 of the EHS Plan outlines EHS information relevant to all workplaces and references back to the EHS Management System.

1.1 Initial Approval, Revisions and Amendments

1.1.1 Part 1

Initial Review

Part 1 of the Workplace EHS Management Plan and related management sub plans must be approved by the Construction Manager or nominated representative, and the Regional EHS Manager / Head of EHS Major Project prior to commencement of construction. This will either be documented on the plan or through project management portals.

Revisions and Amendments

The Construction Manager, or nominated representative, reviews the Workplace EHS Management Plan and related sub plans at maximum six (6) month intervals or where there is material change.

1.1.2 Part 2

This plan will be reviewed by the EHS team when there are changes to requirements or document, or at least 12 months.

On completion of revision of either Part 1 or Part 2:

- The revised workplace EHS Management Plan/sub plans must be issued to the Workplace team and relevant subcontractors and stakeholders
- LLC employees that are required to manage EHS as a key part of their roles and responsibilities must be inducted into this plan and related sub plans by signing the table in Appendix 1 of Part 1 of the Workplace EHS Management Plan

1.2 Workplace Description

Powerhouse Parramatta is the most significant investment into cultural infrastructure in New South Wales since the Sydney Opera House. For the first time an NSW cultural institution will be located in Western Sydney – the fourth-largest economy and the fastest growing and most culturally diverse

region in Australia. Powerhouse Parramatta will be the flagship Museum of the Museum of Applied Arts and Sciences. At 30,000sqm with 18,000sqm of exhibition and public spaces it will be the largest museum in NSW and the leading science and technology museum in the Southern Hemisphere.

The Main Works scope of the Powerhouse Parramatta includes: Construction of the new Powerhouse; and refurbishment of St Georges Terrace, including public presentation spaces, front and back-of-house spaces, education and community spaces, co-working and staff office spaces, residences and retail spaces, associated infrastructure and landscaping works. The Project is located towards the northern edge of Parramatta's CBD on the southern riverbank of the Paramatta River. The site is bound by the Paramatta River to the north, Wilde Avenue to the east, Phillip Street to the south and Dirrabarri Lane to the west.

Included are the following key milestones or specific deliverables for this project:

- Service diversions, demolition and earthworks
- Foundations and ground structure
- Building cores and simply supported structure
- Exoskeleton and primary structure
- MEP, BOH and FOH
- Public domain

1.3 Roles and Responsibilities

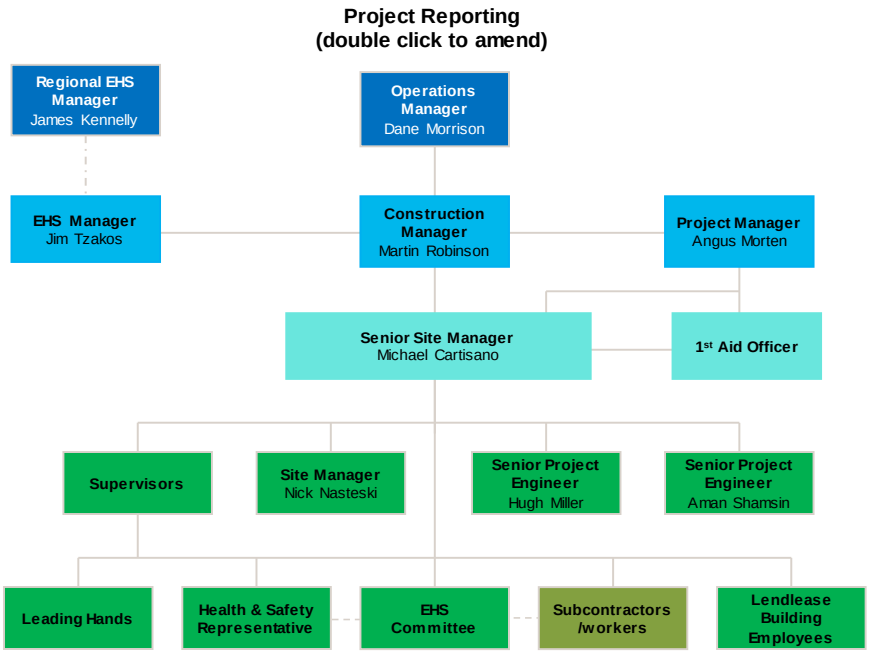
Lendlease Construction Pty Limited is the Principal Contractor with management and control of the project and it's EHS. In addition, all subcontractors, consultants, suppliers and other contractors or workers are also required to comply with their employer's EHS Management System or equivalent and related Safe Work Method Statement(s), the Construction project EHS Site/Workplace Rules, the GMRs, Workplace Delivery Code and applicable legislative requirements.

All roles detailed in the organisational chart with EHS responsibilities, must have a responsibility statement that is agreed between the person employed in that role and Construction/Line Manager.

1.4 Key Contacts

Position	Name	Contact Number	Contact Email
Construction Manager	Martin Robinson	0408 260 136	martin.robinson@lendlease.com
Senior Site Manager	Michael Cartisano	0413 041 503	michael.cartisano@lendlease.com
EHS Manager	Jim Tzakos	0428 854 844	jim.tzakos@lendlease.com

1.5 Organisational Chart



1.6 Workplace Sub Plans

Management sub plans required at the workplace are identified in the Impacts & Hazards Risk Assessment. The Construction Manager or nominated person is responsible for implementing and maintaining the management sub plan(s) and their requirements.

Sub-Plan Name	Required	Reason
Acid Sulphate Soil Management Sub Plan	☐	Works now complete
Air Quality Management Sub Plan	☒	Management of Dust
Asbestos and Hazardous Building Materials Management Sub Plan	☐	No asbestos removal
Chain of Responsibility Management Sub Plan	☒	Mandatory with all EHS MP where heavy vehicles over 4.5t GVM visit site
Conservation & Habitat Management Sub Plan	☒	Tree protection and River Frontage
Contamination Management Sub Plan	☒	Contaminate soil removal
Crane Management Sub Plan	☒	Multiple cranes
Emergency Response Management Sub Plan	☒	Mandatory with all EHS MP Includes Construction Flood Emergency Response Subplan (C39)
Fitness for Work Fatigue Management Sub Plan	☒	Mandatory with all EHS MP where project is FIFO or scheduling will exceed 5 days on / 2 days off, or a 60-hour working week.
Fitness For Work - Drugs & Alcohol Testing Management Sub Plan	☒	Mandatory with all EHS MP where D&A Testing is implemented
Hazardous Chemicals (Hazardous Products, Materials Substances or Dangerous Goods) Management Sub Plan	☒	Use of Chemicals on site
Heritage & Archaeological Management Sub Plan	☒	St Georges Terrace
Noise & Vibration Management Sub Plan	☒	Includes Construction Noise and Vibration Management Subplan (C37)
Occupational Health & Hygiene Management Sub Plan	☒	Mandatory where risk related to Occupational Health are ranked as Moderate or above
Pandemic Management Sub Plan	☐	Mandatory until further notice for the COVID-19 Pandemic
PFAS Management Sub Plan	☐	Mandatory for ground works on Defence air bases and airports
Stakeholder Engagement Plan (Sustainability)	☒	Managed by Sustainability
Stormwater, Erosion and Sedimentation Management Sub Plan	☒	Includes Soil and Water Management Subplan (C38)
Tenancy Management Sub Plan	☐	No Individual Tenancies
Traffic & Parking Management Sub Plan	☒	Includes Construction Traffic and Pedestrian Management Subplan (C36)
Waste Management Sub Plan	☒	Mandatory with all EHS MP.
Water Resource Management Sub Plan	☒	Management of General Water use.

1.7 Special Conditions and Requirements

Powerhouse Parramatta Planning Background

Powerhouse Parramatta will be the flagship Museum of the Museum of Applied Arts and Sciences. At 30,000sqm with 18,000sqm of exhibition and public spaces it will be the largest Museum in NSW and the leading science and technology Museum in the Southern Hemisphere.

The Main Works scope of the Powerhouse Parramatta includes: Construction of the new Powerhouse and refurbishment of St Georges Terrace, including public presentation spaces, front and back-of-house spaces, education and community spaces, co-working and staff office spaces, residences and retail spaces, associated infrastructure and landscaping works. The Project is located towards the northern edge of Parramatta's CBD on the southern riverbank of the Paramatta River. The site is bounded by the Paramatta River to the north, Wilde Avenue to the east, Phillip Street to the south and Dirrabarri Lane to the west.

Powerhouse Parramatta Development Planning Approval

The Powerhouse Parramatta development is a NSW State Significant Development (reference SSD-10416) and includes:

- Removal of existing buildings and trees, relocation of Willow Grove and retention of St George's Terrace;
- Construction of two buildings up to RL 79.2m, with a gross floor area of 24,516 m^2 for museum and ancillary uses;
- Vehicle servicing, coach pick up/drop off facilities, bicycle parking and road amendments; and
- Public domain improvement including publicly accessible open spaces, landscaping and creation of a through-site link.

Further references relating to SSD-10416 can be found in Powerhouse Parramatta – Part 2 EHS Management Plan.

1.8 Project Specific Initiatives

In addition to the objectives and targets previously outlined, at least two or more project specific EHS leading industry practice initiatives should be nominated at the discretion of the Construction Manager, or a nominated representative, in consultation with the Project EHS Coordinator (where appointed) or the EHS Committee / EHS Consultation Group and other relevant key stakeholders.

Outline leading practice initiatives below:

Brief Description of EHS Initiative	Expected Launch Date	Evaluation method for the initiative	Expected Evaluation Date	Related Document (e.g. plan or other)
Rewards Scheme	August 22	Monthly	September 23	
Peer EHS Reviews	January 22	High Risk/GMR	March 23	
Upskilling / Training	January 23	Number of workers trained / Certified	January 24	

2.0 DOCUMENT VERSION CONTROL

Document Revision Status				
Date	Document Issue (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by
16/09/2022	1	New Plan issued for use	Naomi Maughan	Dawid Sobczyk
04/11/2022	2	Updated name to Construction	Naomi Maughan	Dawid Sobczyk

2.1 Workplace Revision Status

Workplace Revision Status				
Date	Workplace revision (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by
18/11/22	22.7	New Plan	JT / MC	MR
16/01/23	23.1	Review of EHS Management Plan	JT / MC	MR
11/04/2023	23.2	Update to section 1.5	JT / MC	MR
14/04/2023	23.3	Update to section 1.7	JT / MC	MR
06/07/2023	23.4	Minor update to Section 1.5, 1.6 and 1.8	RS / MC	MR

APPENDIX 1: PLAN SIGNATURES

Construction project/workplace employees that are required to manage environment health and safety as a key part of their roles and responsibilities at the project are to be inducted in this Plan, and its related management sub plans relevant to their role; evidenced by completing the Table below.

I acknowledge that I have read and understood Part 1 and Part 2 of the Project EHS Management Plan and its related management sub plans relevant to my role.

Name	Position	Signature	Date

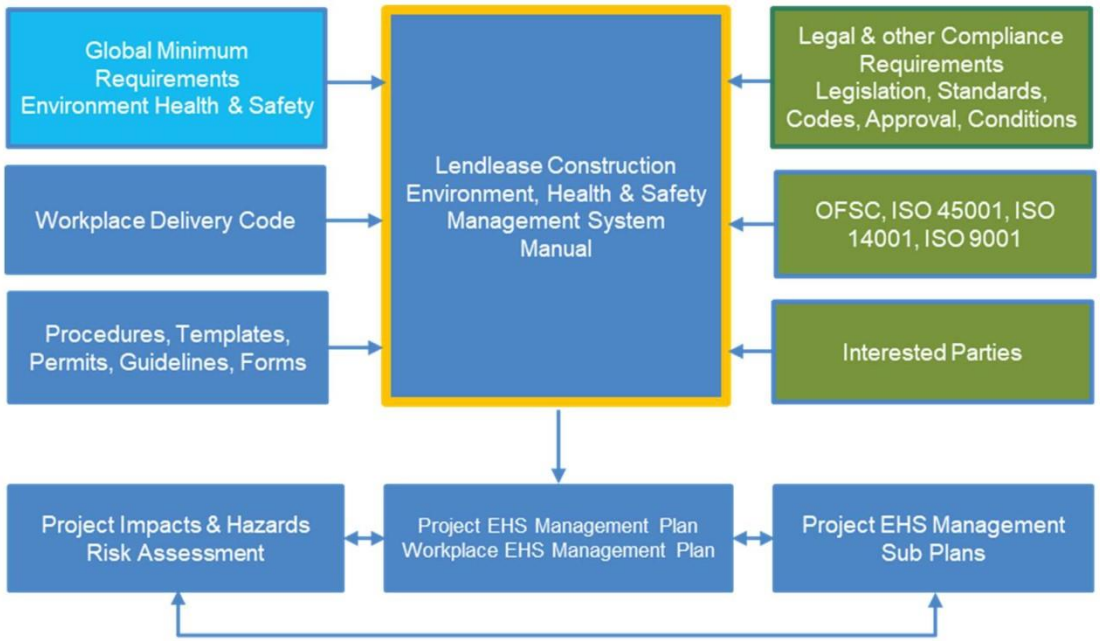
POWERHOUSE PARRAMATTA – Part 2
EHS MANAGEMENT PLAN

CONTENTS

1.0 INTRODUCTION

Part 2 of the Workplace EHS Management Plan outlines the key EHS requirements that are common across all projects

This plan forms an integral part of the Lendlease Construction (Construction) Management System as shown below:



1.1 Definitions

Terms used in this document are defined in the Construction Definitions in the Management of EHS Procedure

2.0 VISION & POLICY

Construction is committed to its purposes 'together we create value through places where communities thrive' through workplaces that are free of incidents of injury, ill-health or environmental harm wherever we have a presence. Our vision is supported by an uncompromising culture which holds the health and safety of people and the protection of the environment as a priority in all our business reviews and decision making.

The Construction EHS Policy outlines key objectives to deliver an incident and injury free workplace. The EHS Policy and other related policies are located in Source. All policies must be clearly displayed in a prominent location(s) at Construction workplaces, including the project site/workplace office and project/workplace notice board(s) so they are accessible to all employees, subcontractors and other workers, including visitors to the project.

The policies and their objectives must be clearly communicated through the project or workplace induction to all persons working at the site. The policies are also publicly available on request to interested parties.

2.1 Objectives and Targets

The Lendlease Australia EHS Strategy outlines the objectives and targets for the financial year. The relevant objectives and targets are cascaded to the CONSTRUCTION EHS implementation plan and to projects. The Construction Manager reports on progress against objectives and targets on a ***six-weekly*** basis in Project Reviews.

2.2 Document and Data control

EHS documents are identified and controlled in accordance with the Lendlease Construction Management System document identification and control process located on Source. The current version of EHS documents only is used at the workplace and are available from Source.

Procedures become 'uncontrolled' from the date of retrieval, downloading or printing from Source. The EHS Head Office Service Function circulates documents additions, changes or deletions by regular email revision updates.

All EHS records for this workplace are filed in accordance with the Construction Document Filing and Retention Procedure.

3.0 DESIGN RISK MANAGEMENT

Where Construction has management or control of a design function related to a building or structure, the Construction
Risk & Opportunity Management Procedure is followed to review design and results are detailed within the Construction Project Risk and Opportunity Assessment Template (PROA).

The PROA documents key hazards and risks associated with the design and identifies controls to eliminate or mitigate the risk as far as is reasonably practicable, consistent with legislation and Lendlease GMR.

3.1 Specific Design Reviews

There are specific design reviews required to ensure EHS hazards and risks are eliminated or mitigated as far as is reasonably practicable.

3.1.1 EHS in Design

All workplaces that control or influence design must complete an EHS in Design review in consultation with Integrated Solutions to consider the constructability, maintainability, serviceability, performance, and end user operability.

3.1.2 Safety in Design Compliance Report

Safety in design risks identified by external design consultants in a Safety Report, or other equivalent report, issued to respond to work health and safety or equivalent legislation requirements for safe design of buildings or structures are included in the PROA for the Project.

3.1.3 Pre- Construction Review

The Project Manager and relevant stakeholders undertake further review(s) of the design through the implementation of the Construction PROA process and review of the existing PROA for the project.

3.2 Design Risk Close Out/ Transfer

Where risks in design have not been eliminated through the PROA process, unresolved risks with a moderate or greater risk rating, the Project Manager in consultation with the Construction Manager and Regional EHS Manager / Head of EHS Integrated Project must ensure that these risks are transferred to the project specific Impacts & Hazards Risk Assessment.

3.3 Design Change

Design change throughout the design and construction is managed in accordance with the CONSTRUCTION
Change Management Procedure and further evaluated during project review meetings.

Where the proposed design change (including design of temporary works) has the potential to significantly (moderate or above risk ranking) negative impact EH&S, the design must be reviewed to determine a more effective design solution to eliminate the risks so far as reasonably practicable. Where this cannot be achieved the risks are included in the PROA or other related document, e.g., end user or maintenance manual to ensure effective management.

4.0 PROCUREMENT

Tendering for the provision of goods and services is undertaken in line with the requirements of the Business Rules outlined in the Procurement section of Source and is the responsibility of the Construction Manager, or nominated representative. The management of EHS in relation to procurement includes the following requirements:

4.1 Goods

Procured goods must conform with the requirements of applicable Australian Standards and be able to meet the requirements of approved codes of practice, compliance codes, product specifications, design standards and guidance notes published by the relevant government regulators or industry organisations when those goods are used, installed or commissioned for use.

4.2 Services

Procured services include the following documented activities prior to Tender Award:

4.2.1 Invitation to Tender

A standard suite of EHS information as outlined in Appendix A of the Construction Invitation to Tender is provided to each prospective tenderer at the time of tender to allow the tenderer to properly prepare their EHS documentation.

4.2.2 Subcontractor Interview Checklist

This Subcontractor Interview Checklist is completed during tender interviews for all works more than $200,000 value to ensure that the tenderer has properly prepared their tender submission to meet Construction EHS requirements and that they understand their obligations for the management of EHS if their submission is to be successful.

4.2.3 Tender Evaluation Template

The vetting and analysis of each tender is undertaken by completing the Tender Evaluation Template to ensure that each tender submission meets the requirements of the Construction EHS MS.

Following Contract Award, the following processes must be completed

4.2.4 Subcontractor Works to Proceed EHS Checklist

Prior to the subcontractor commencing on site, the subcontractor in consultation with Construction must complete the Subcontractor Works to Proceed EHS Checklist to ensure that all necessary documents have been received by Construction and meet requirements. If the Work to Proceed is not completed, works must not commence

5.0 INDUCTION

5.1 Worker Induction

Before commencing work at a Lendlease construction workplace for the first time, all workers must:

- Have completed the Lendlease Part A Induction;
- Complete a project specific induction based on Workplace Part B Induction
- Be onboarded on the relevant Lendlease subcontractor platform or another approved platform

Persons (other than escorted visitors) unable to demonstrate completion of General Construction Induction Training cannot be inducted nor enter the workplace to undertake construction works.

5.2 Student Induction

Students or other school/university candidates that seek temporary work experience at Construction projects are inducted to the requirements outlined above. In addition, the Construction Work Experience and Student Placement Procedure and/or Graduate EHS Placement Procedure must be implemented to ensure that risks related to a lack of experience in construction workplaces are minimised and a positive work experience outcome is achieved.

5.3 Visitor Induction

All visitors must sign the Construction workplace Site Visitor Register upon arrival and departure (including time of entry and exit) and be accompanied at all times by a person inducted into the workplace. .

All visitors must wear the mandatory personal protective equipment specific to the site and must be informed of emergency response arrangements at the workplace.

Tours, previews or inspections of Construction apartments or other buildings or structures under construction by prospective buyers, lessees or other is managed in accordance with the Lendlease Construction
Tours, Previews and Inspections Procedure.

6.0 TRAINING

6.1 Employees

The EHS&Q Training Matrix and Planner identifies the training requirements as outlined in the Construction EHS MS and GMRs and who is required to complete it

The Project Team (led by the Construction Manager or nominated representative) must complete the Planner at Pre-Construction Review Meeting and endorsed by the Regional EHS Manager and Quality Manager.

The Planner must be reviewed every ***three months*** and where there is material change in participation with Construction project team members.

6.1.1 Records of Training for Employees

Records of Lendlease employee training are retained and are uploaded to the Construction Learning and Development repository Workday Learning and verified by the Regional EHS team.

6.2 Subcontractors & Other Workers

The minimum training requirements for subcontractors and other workers include:

- General Industry WHS Induction (or equivalent) for the Construction Industry
- Permit to Work training for Subcontractor's supervisors who issue and manage works covered by a Permit to Works.
- Evidence of competence for mobile plant operators and quick cut / concrete saw
    - Each operator must have:
        - a copy(s) of a licence/certificate issued by a State/Territory; **OR**
        - a Statement of Attainment /Certificate issued by a Registered Training Organisation; **OR**
        - evidence of a formal verification of competence assessment against defined competency standards.
    - Certificates of competency is only valid for three years
- Relevant High Risk Work Licences
- Certificate of Competency for work activity related training
- Relevant licenses required to carry out the work. E.g. State based electrical licence

6.2.1 Records of Training for Subcontractors

Records of required qualifications, competencies and specific industry induction requirements for workers other than Lendlease employees (as required) are recorded at the time of induction.

High risk work licences and Verification of Competency obtained after a worker has commenced on site are to be provided to the nominated Construction representative as soon as possible and before operating any plant or equipment requiring a licence of verification of competency.

7.0 DELIVERY RISK MANAGEMENT

7.1 Impacts and Hazard Risk Assessment

The Construction Manager (or nominated representative) in consultation with the Site Manager, Regional EHS Manager and members of the project team must complete the project Impacts & Hazards Risk Assessment (IHRA), prior to commencement of the construction stages of the project.

The completion of the IHRA:

- is conducted in accordance with the methodology outlined in the CONSTRUCTION EHS Risk Management Procedure, which requires all key risks rated as moderate or greater specific to the project to be included in the IHRA.
- At least one engineering control or better and one mitigating control, consistent with the Hierarchy of Control and Lendlease GMR requirements must be implemented for all GMR 4 risk events and other high risk construction works.

Note: All Impacts and hazards assessed with a risk ranking of less than moderate may not be listed in the IHRA, but are controlled using routine standards and procedures as outlined in the Construction EHS MS and standards outlined or referenced in the CONSTRUCTION Workplace Delivery Code.

The IHRA must include any open (unresolved) risks that require management in the construction stages of a project that were identified in design or other PROA reviews.

To ensure that the IHRA remains current it must be reviewed:

- during project coordination meetings when reviewing the ***next 4-6 weeks*** of activities and related GMR independent engineer reviews for acute risks; and
- at ***maximum of six (6) weekly intervals*** and verified through the Project Review Meetings process by the Construction Manager, or a nominated representative, to ensure currency and accuracy. The review is to include the participation of the project team (including non-managerial workers) through a combination of Project, EHS Committee, Pre-starts and Toolbox meetings with evidence of participation documented within the minutes.
- Reviewed project high risk activities are to be tabled at the EHS Committee/HSR for consultation.

7.2 Workplace Delivery Code

The Workplace Delivery Code (WDC) is a comprehensive document that provides further information on the specific standards that are required to meet the GMRs in delivery as well as legislation. The WDC must be met for all work delivered by Construction.

7.3 Management of High Risk Construction Work and Work that Requires a High Risk Work Licence

7.3.1 Safe Work Method Statements and Review

A Safe Work Method Statement (SWMS) must be completed for all works classified as high risk construction work or high risk work that requires a high risk work licence. All SWMS must be prepared in consultation and participation with relevant workers who undertake the works.

All SWMS must be reviewed by the Construction representative in conjunction with the Foreman or Areas Supervisor who will oversee the works using the SWMS Review Checklist.

All workers involved in the work must sign into the SWMS acknowledging their consultation, participation and training in the SWMS.

7.3.2 Pre-start Meeting/Task Briefing

All pre-start meeting/task briefing must be completed by Lendlease or Subcontractor for all high risk works or works that require a high risk licence prior to the commencement of works. The pre-start must cover critical controls, relevant SWMS and Permits to Work, responsibilities and change management. Pre-start meetings completed by Lendlease will be recorded on the Daily Prestart Record Template.

7.3.3 Permit to Work

Specific high risk work activities as defined by the GMR and the Permit to Work procedures are controlled using a permit to work system. Activities include:

- Confined Space Entry
- Hot Works
- Excavation/Ground Penetration

- Isolation of Energised Systems
- Drill, Cut, Core
- Work within a Ceiling Void
- Use of a Harness as primary form of fall prevention
- Workers Near Overhead Assets
- Tower Crane Erection, Alteration, Dismantle

All permit to works must be issued in accordance with the Permit to Work Procedure.

7.4 Monitoring

All high risk works must be monitored at least once per day by the Construction Area Foreman / Supervisor.

7.4.1 Change in scope

Where a change in the scope of work is proposed and relates to high risk construction work or work that requires a high risk work licence the SWMS must be reviewed and amended where applicable to include this change before the works can proceed.

7.5 Site EHS Rules

The project team develops specific site EHS rules that are displayed on entry to the workplace and in other prominent locations.

8.0 CONSULTATION, PARTICIPATION, COMMUNICATION AND REPORTING

Consultation, participation and issue resolution is managed in accordance with the Construction Consultation Procedure. Workers, their representatives, and businesses involved in the project will consult with each other and share relevant information to ensure EHS issues are appropriately managed.

EHS consultation arrangements agreed at this workplace are identified by the 'marked-up' Construction EHS Consultation Statement. The marked-up statement is displayed in prominent locations at the workplace by the EHS Coordinator, together with the agreed Construction EHS Issue Resolution Flow Chart specific to the project.

8.1 Toolbox Talks, Pre-start Meetings, Builders Brief and other Consultative Arrangements

Construction and their subcontractors conduct a number of consultative forums with their workers to discuss key EHS requirements

8.1.1 Builder's Brief

Completed by Construction and provided to all subcontractors outlining the works that will be occurring on site that day. This is recorded on the Builder's Brief Form.

8.1.2 Daily Pre-Start Meeting

Completed by CONSTRUCTION and Subcontractors with workers under their direct control to discuss their works for the day. Pre-start meetings conducted by Construction are recorded on the Daily Prestart Record Template.

Workers must be provided with a daily pre-start briefing before they are able to commence work on site for the shift. If a worker is unable to attend the daily pre-start briefing, their supervisor must provide a briefing based on the daily pre-start before starting work.

8.1.3 Toolbox Meeting

Completed by Construction and Subcontractors with workers under their direct control to discuss specific EHS matters at the workplace. Toolbox Talks completed by Construction are recorded on the Toolbox Meeting Template.

8.1.4 Other

Any other EHS related meeting must be formally documented on the EHS Meeting Minutes form

8.2 Union Right of Entry

A holder of both a Work Health and Safety (WHS) Entry Permit Holder **AND** an Entry Permit Holder under the Fair Work Act for the specific State/Territory in which the workplace is situated may enter a workplace to consult with relevant workers on WHS matters or for the purposes of inquiry into a suspected contravention of the WHS Act or related act in other states. Details of the requirements for entry by an Entry Permit Holder are outlined in the CONSTRUCTION Union Right of Entry Guideline under WHS Legislation and further detailed in the Fair Work Right of Entry Legislative Fact Sheet.

8.3 Display of EHS Information

To ensure all workers have the opportunity to view, discuss and take note of EHS information, the EHS Coordinator or nominated representative displays the following information (as a minimum) at a prominent location(s) at the workplace, including notice board(s):

EHS information to be displayed	
Construction Manager or nominated representative	Nearest hospital or emergency centre
First aid officer(s) – photo and contact no.	Nearest medical centre
Emergency Evacuation Diagrams (refer AS3745) displayed at required exits all levels.	After hours emergency contact name and number able to be read from outside the site boundary.
Emergency Call Poster first aid room and other emergency first response team member locations	Contact details determined by the Project Emergency Response Sub Plan
Emergency evacuation required exits each level and Emergency Evacuation Assembly Area	HAZCHEM or other signage related to the storage or hazardous substances or dangerous goods at the workplace

Lendlease Construction Environment, Health & Safety Policy	Lendlease Injury Management & Return to Work Policy
Lendlease Construction Smoke Free Policy	Lendlease Construction Drug and Alcohol Policy
Lendlease Corporation Harassment & Bullying Policy	Lendlease Construction Customer Complaints and Feedback Policy
Construction EHS Consultation Statement detailing the consultation arrangements agreed at the workplace	Agreed Construction EHS Issue Resolution Flow Chart specific to the project
List and photograph(s) of Health & Safety Representative(s), EHS Committee / EHS Consultation Group members	Incident Reporting Scheme Poster (State/Territory specific) available at the Injury, Care and Recovery SharePoint.
Site or Workplace EHS Rules Including hours of work	Crisis Management Escalation Protocol
Amenities plan including first aid shed location	Current EHS Committee / EHS Consultation Minutes
Location of the Spill Kit	Current EHS Alert(s) applicable to the project < than 6 months old
Personal Protective Equipment requirements	Top 5 Hazards of the week
Designated smoking areas (if any)	Lendlease Injury Management Workplace Injury poster
Incident reporting flow chart (Commonwealth Projects)	Regulatory notices (relevant to the project) issued within the past 2 months

9.0 INCIDENT MANAGEMENT

In the event of an incident occurring, the RACE principle must be adhered to in the first instance:

- R – Remove workers from immediate danger (if safe to do so)
- A – Raise the Alarm (contact emergency services as required)
- C – Contain the incident and make area safe
- E – Evacuate if required

The Workplace's Emergency Response Management Sub Plan must be developed by the Construction Manager in accordance with the Emergency Response Procedure utilizing the Emergency Response Management Sub Plan. The plan outlines the potential emergency and response scenarios, inspection and testing requirements.

All incidents must be reported as soon as possible after the event in accordance with incident escalation protocols. All critical incidents (any incident that has the potential to result in permanent disablement or environmental damage having a large impact) must be entered into the online reporting platform within 48 hours and all other incidents within 24 hours. See Group Incident Management Standard

All critical incidents must be investigated using the 8 Step Investigation process as outlined in Group EHS Critical Incident Investigation Standard. For lost time injury (LTI), medical treatment injury (MTI) and first aid injury (FAI) a factor analysis must be completed.

10.0 EMERGENCY RESPONSE AND EVACUATION

The Construction Manager, or a nominated representative, in conjunction with other appointed Construction personnel must develop an Emergency Response Management Sub Plan (ERMSP) in accordance with the Emergency Response Procedure utilising the Emergency Response Management Sub Plan Template.

The ERMSP is reviewed and tested as follows:

Item	Action required & pass/fail requirement	Frequency						Record
		Weekly	Monthly	Quarterly	6 monthly	Yearly	5 yearly	
Emergency Response Management Sub Plan (ERMSP)	Check content and continued relevance to facility/workplace/site including assessment of Evacuation Assembly Area			☒				Review maximum quarterly intervals with revision updates. Independent Audit review
Emergency Control Organisation (ECO)	ECO personnel requirements comply with the ERMSP and AS3745			☒				Emergency Control Organisation (ECO) appointed for the project
Fire equipment	Fire extinguishers, hose reel or other. Attached compliance tags. Inspection and maintenance by service provider				☒			EHS inspections, Register of Fire Extinguishers maintained in the workplace where 10 or more extinguishers exist.
	Fire extinguishers located at each required exit, hose reels or other. Seals intact. Charged extinguishers in place at relevant locations.				☒			EHS inspections, EHS Committee Minutes. Compliance tag verification and record of inspection and testing at 6 monthly intervals displayed on the tag.
	Fire risers, hose reels and booster valves for multistorey buildings under construction greater than 12m high comply with NCC E1.9		☒					EHS Site Assessment Checklist
	Pressure alarm to risers for multistorey buildings under construction greater than12m high		☒					Logbook maintained by service provider. Monthly pressure check or test after any riser alteration Recorded in EHS Site Assessment Checklist or EHS Observation Enablon.
Evacuation equipment	Emergency lighting		☒					Logbook maintained by service provider.

Item	Action required & pass/fail requirement	Frequency						Record
		Weekly	Monthly	Quarterly	6 monthly	Yearly	5 yearly	
Emergency Warning equipment	Emergency Warning and Intercommunication System (EWIS)		☒					Logbook maintained by service provider. Monthly test or test after any relocation recorded in EHS Site Assessment Checklist
Emergency Warning equipment	Fire alarms (audible & visual) to welfare areas.		☒					Logbook maintained by service provider. Monthly test or test after any relocation recorded in EHS Site Assessment Checklist
Evacuation Drill	Evacuation exercise compliance with the emergency response plan (ERMSP) and GMR				☒			EHS Committee Minutes, Completed CONSTRUCTION form Emergency Event Evaluation Form or through the Enablon Inspection App
Emergency Event Drill	Emergency scenario response (taken from ERMSP Identified emergency scenarios)				☒			EHS Committee Minutes, Completed CONSTRUCTION form Emergency Event Evaluation Form or through the Enablon Inspection App
Emergency Evacuation Awareness Training	All workers on site have undertaken the site induction that includes emergency evacuation awareness							Induction Records
Emergency Control Organisation and Emergency Response Team Training	Project ECO & ERT members undertake formal emergency response training – wardens and others						☒	Training records
Evacuation Assembly area(s)	Nominated areas checked as suitable and relevant to ERMSP	☒						EHS Inspections

10.1 Injury Management and Return to Work

All employee injuries that occur at work, or in the course of work related travel and result in time off or an inability to complete normal duties are managed in accordance with the Lendlease Injury Management & Return To Work Policy and Lendlease Return to Work Program. Injury grab packs, letter to the doctor, project start-up checklists and other injury management resources can be found on the Lendlease Injury Management intranet site.

10.2 Unacceptable Behaviour

Unacceptable behaviour in the workplace includes harassment, bullying or discrimination.

Where unacceptable behaviour by a worker is observed and presents an imminent risk of serious harm to the individual worker or others the work activity must be stopped. The incident is then:

- Reported to the immediate supervisor of the works and other relevant stakeholders;
- Managed by Construction Manager in consultation with RBU Operations Manager and Regional EHS Manager.

A determination of the consequence management related to an incident and its potential outcome is carried out in consultation with worker's employer, supervisor and Health & Safety Representative.

A non-conformity related to the observed 'at risk' behaviour must be recorded as an observation in the Enablon App and the potential outcome of the behaviour, e.g., potential serious injury, along with the management actions implemented.

11.0 MONITORING AND ASSURANCE

Monitoring and assurance activities are completed to ensure that the workplace is meeting the requirements of the CONSTRUCTION EHSMS, LL GMRs, legislation, related codes or standards and other compliance requirements.

The workplace is monitored and inspected as follows:

Workplace Monitoring Schedule				
Task	**Type of Monitoring**	**Monitoring By**	**Frequency**	**Record**
General work areas	Hazard / Impact Observations	Engineer	Align to Objectives and Targets	Enablon Safety App Observation completed
At risk observations with potential Large/ Very Large impact	Hazard / Impact Observation	Construction Delivery Team	As required	Enablon Safety App Observation completed
HRCW/ High Risk Work requiring a licence/ or a Permit to Work	Enablon Safety App	CONSTRUCTION Area Foreman/ Supervisor	Daily	Completed CONSTRUCTION Enablon Safety App Observation
Subcontractor work activities	Work Activity EHS Inspection	Subcontractor Area Foreman/Supervisor	Daily	Completed Subcontractor's EHS Inspection Checklist

Workplace Monitoring Schedule				
Task	**Type of Monitoring**	**Monitoring By**	**Frequency**	**Record**
All general work areas including plant and equipment	Weekly EHS Inspection	Site Manager; EHS Coordinator, EHS Committee/ EHS Consultation Group Weekly inspections by CONSTRUCTION to include Subcontractor participation for the entire inspection.	Weekly	Completed EHS Weekly Site Inspection Form EHS Committee Minutes
Plant Inspection	Inspection	Competent Person	Prior to commencing on site	Plant Inspection Checklist
All general work areas including plant and equipment	EHS Inspection	Construction Manager	Maximum Monthly intervals	Completed EHS Site Assessment Checklist.
Public interface areas	Hoardings/ gates or other outward facing elements.	Competent person	Daily or as determined by the IHRA.	Completed Fencing Hoarding Inspection Checklist
EHS Monitoring DA Conditions or other	EHS monitoring identified by the IHRA e.g. noise, water quality, dust or other.	Competent person	As required	Completed CONSTRUCTION forms or equivalent: Noise Monitoring Register Monitoring outlined in EHS sub-plans such as Occupational Health & Hygiene
Heavy Vehicle Transport Laws (Chain of Responsibility	Random observations of heavy vehicles for packing, loading and load restraint; mass and dimension; fatigue; vehicle standards and maintenance	Engineers	As required, as per the COR Management Sub-Plan	Enablon Safety Observation App Any observed or recorded breach incident recorded in Enablon, e.g., load shifted during transport, or defective vehicle, or heavy vehicle recorded as overloaded at the waste facility weighbridge or road worthiness defect.

Workplace Monitoring Schedule				
Task	**Type of Monitoring**	**Monitoring By**	**Frequency**	**Record**
Subcontractor Works	EHS&Q Subcontractor Audit	Construction Manager/ Nominated Representative	High Risk Construction Work and High Risk Work trades and/or trending of At Risk Observations related to a subcontractor's performance.	Completed Schedule of Subcontractor Audits based risk profile. Completed CONSTRUCTION EHS&Q Subcontractor Audit with close out actions verified. Subcontractor and Consultant Audit Procedure (Quality)
Independent EHS Review	Workplace EHS Audit	Regional EHS Manager	At least once per year	Enablon Workplace EHS Audit

11.1 Non-Conformities and Corrective/Preventative Action

Non-conformities and their related corrective/preventative actions raised as a result of incidents, observations and audits must be entered into Enablon and corrected within ***30 days*** to prevent recurrence.

Corrective and Preventative Actions must be consistent with the GMRs and hierarchy of control.

Where the results of monitoring identify risks of moderate or above then the IHRA must be reviewed to determine:

- the adequacy of the content of the risk assessment; i.e. if the hazard and risk or aspect and impact related to the non-conformity or other monitoring is included in the risk assessment; and
- the effectiveness of control measures consistent with the Hierarchy OF Control and GMR 4; for short term and long term duration; and
- the effectiveness of monitoring activities related to each moderate or above impact or hazard listed in the IHRA.

Actions identified and implemented as a result of a critical incident must be monitored to evaluate their effectiveness for ***60 days***.

Regional EHS Managers or the Head of EHS Major Projects must monitor and track the closure of non-conformities and any corresponding corrective or preventative actions raised from incidents, observations and audits. Where non-conformities are not resolved (i.e., corrective/preventative actions implemented) within ***30 days*** they shall be elevated to the Lendlease Building Head of EHS Lendlease Building Australia for resolution.

11.2 Reporting

The Construction Manager or nominated representative must collate EHS performance data including progress against objectives and targets and productivity hours at monthly intervals and report information to the Head Office within two days after the end of the month.

Project review meetings which includes EHS performance evaluation, are completed ***every 6 Weeks***.

12.0 DOCUMENT VERSION CONTROL

Document Revision Status				
Date	Document Issue (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by
16/09/2022	1.0	New Plan issued for use	Naomi Maughan	Dawid Sobczyk
04/11/2022	2.0	Update to CONSTRUCTION to Construction as per name change and updated objective and targets	Naomi Maughan	Dawid Sobczyk
31/03/2023	3.0	Section 11 - Workplace Monitoring & Assurance section updated to state that at risk observations with potential Large/ Very Large impact must be recorded in Enablon.	Naomi Maughan	Dawid Sobczyk

Workplace Revision Status				
Date	Workplace revision (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by
18/11/2022	22.7	New Plan	JT / MC	MR
16/03/2023	23.1	Review of EHS Management Plan	JT / MC	MR
11/04/2023	23.2	Review of Part 2 due to updated document issue.	JT / MC	MR
14/04/2023	23.3	Update to appendices to include SSD 10416 requirements	JT / MC	MR
06/07/2023	23.4	Revision number updated to align with the EHS Management Subplan Part 1	RS / MC	MR

Appendices

APPENDIX 1: OBJECTIVES AND TARGETS

FY23 Lendlease Building Performance Objectives	Performance Targets	Responsibility
LEAD INDICATORS i.e. the measurement of processes, activities and conditions that define specific performance and predict future results.		
(a) **Safety Leadership Team** meets to drive EHS performance outcomes and improvement initiatives and cascade initiatives to RBU/SBU SLTs, Peer Groups and other business planning forums consistent with annual business plan objectives.	Quarterly	SLT
(b) **SLT members** schedule and achieve min. 12 project/workplace visits focusing on high-risk activities/leading critical incident circumstances (What's The Worst That Could Happen) and provide projects/workplaces with documented feedback on observations.	>12 (including 6 jointly with the EHS resource)	SLT
Acute Risks - scenario Campaign completed in the past ninety days.	Quarterly	Construction Manager
Projects In Delivery Performance - an internal independent assurance review is undertaken of projects that trigger a red/amber performance in PiD where the EHS function identifies the need for operational support (e.g. programme schedule delays, multiple incidents, regression in risk score).	Within 30 days	Construction Manager
High Risk Construction Work/High Risk Work Observations - each Lendlease Frontline Leader undertakes at least one observation of High-Risk Construction Work (HRCW)/High Risk Work (HRW) related to their area of oversight and related works and record the observation using the Enablon Safety App.	Daily	Construction Manager Foremen/ Supervisors/ Leading Hands
EHS Observations - Lendlease project based personnel undertake at Enablon Safety App EHS Observation when frequenting site, e.g. daily or visits occur, for high risk construction work/high risk work/Chain of Responsibility/Occupational Health or other activity; (any determined frequency rate to be based Lendlease site based employee personnel and their hours not total project hours)	Monitored	Engineers
Actions - all actions assigned to EHS observations /audits /incidents /acute risks or assurance are completed and closed out within the required time frame assigned.	Actions not aging greater than 14 days	Construction Manager
Critical Incidents are closed out within max. 30 days of the incident date.	Closed within 30 days	Construction Manager

FY23 Lendlease Building Performance Objectives	Performance Targets	Responsibility
An action plan is assigned following close out of a critical incident to monitor the effectiveness of preventative actions implemented and the plan is closed.	Closed within 60 days	Construction Manager
Learning & Development - GMR training completed by all employees (wages and salary) and UX contracted supervisors within 90 days of commencing work at Lendlease.	Greater than 95% completion	Construction Manager
WHS legislation training is completed by all employees including UX contracted superintendents.	Greater than 90% completion	Construction Manager
Digital Permit is in implemented and actively used across all CONSTRUCTION Operations	100% operations	Construction Manager
LAG INDICATORS i.e. the measurement of processes linked to the outcomes of past events that provide data on past performance.		
Year-on-year reduction in Critical Incident Frequency Rate (CIFR)*	≤0.75	
Year-on-year reduction in Level 3 CIFR*	≤0.16	
Year-on-year reduction in Lost Time Incident Frequency Rate (LTIFR)*	≤2.92	
Zero critical incidents with significant environmental impact requiring financial disclosure	0	
Zero corporate reportable fatalities across the organisation.	0	
GMR training completed by all employees (wages and salary) and UX contracted supervisors within 90 days of commencing work at Lendlease.	>95%	

*3 year average per million productivity hours

Estimate based on number of incidents as of 8th of June and forecasted June's hours worked

POWERHOUSE PARRAMATTA – Part 2

EHS MANAGEMENT PLAN

APPENDIX 2: EHS RESPONSIBILITY/ACCOUNTABILITY MATRIX

The EHS Responsible, Accountable, Consulted and Informed Matrix maps to the various roles in Lendlease who are involved in the completion of the task.

	Head of EHS Australia	Human Resources	Regional EHS Manager	EHS Manager Integrated Project	Project EHS Coordinator	Project Manager	Construction Manager	Project Engineer	Site Manager	Foreman/Supervisor	Subcontractor Principal	EHS Committee/ EHS Consultation Group	Construction Worker	First Aid
EHS Management System	A	-	C	I	R	I	R	I	I	-	I	-	-	I
EHS Policy	R	-	C	I	I	I	I	I	I	I	I	I	I	I
Project EHS Management Plan	-	-	A	A	C	I	R	I	I	I	I	I	I	I
PROA review	-	-	C	C	C	A/R	C	C	C	I	I	-	-	-
EHS in Design	A	-	C	C	C	A	R	-	-	-	-	-	-	-
Chain of Responsibility (Heavy Vehicle National Law)	R	-	C	C	C	R	A	R	-	-	-	-	-	-
Impacts & Hazards Risk Assessment	-	-	C	C	C	A	A/R	R	R	C	I	I	I	I
EHS Management Sub Plans	-	-	C	C	C	A	A/R	C	C	I	I	I	I	I
Legislation and Regulatory Changes	C	-	A	C	C	C	R	C	C	I	I	I	I	I
EHS Site Rules	-	-	C	C	C	-	A/R	C	C	C	I	I	I	I
CONSTRUCTION EHS Objectives & Targets	A	-	C	I	I	-	I	I	I	I	I	I	-	-
Project EHS Objectives and Targets & Initiatives	-	-	A	A	C	-	A/R	C	C	I	I	I	-	-
Workplace EHS Audit	-	-	A/R	-	C	-	A	-	-	-	-	-	-	-
Organisational Chart	-	-	-	-	-	-	A/R	C	C	I	I	I	-	-
EHS Roles and Responsibilities	C	C	C	C	I	-	A/R	C	C	I	-	-	-	-
EHS&Q Training Matrix and Planner	A	-	C	C	C	I	R	I	C	I	-	-	-	-
CONSTRUCTION Safe Work Method Statements	-	-	-	C	C	-	I	R	C/A	C	-	-	-	-
Subcontractor Safe Work Method Statements	-	-	-	C	C	-	-	A	C	C	R	-	-	-
Worker Induction	-	-	-	C	R	-	A	-	-	-	-	-	-	-
Visitor Induction	-	-	-	C	R	R	A	R	R	R	R	-	-	-
EHS Consultation	-	-	-	C	C	-	A	I	I	I	I	R	I	-
EHS Reporting	I	-	-	C	R	-	A	-	I	-	-	-	-	-
Emergency Management	-	-	A	A	I	-	R	I	I	I	I	I	I	I
Hazardous Substances and Safety Data Sheets	-	-	-	R	R	-	A	I	I	I	I	I	I	I

POWERHOUSE PARRAMATTA – Part 2

EHS MANAGEMENT PLAN

	Head of EHS Australia	Human Resources	Regional EHS Manager	EHS Manager Integrated Project	Project EHS Coordinator	Project Manager	Construction Manager	Project Engineer	Site Manager	Foreman/Supervisor	Subcontractor Principal	EHS Committee/ EHS Consultation Group	Construction Worker	First Aid
Plant and Equipment	-	-	I	I	I		-C	-	A	R	A	-	-	-
Permits to Work	-	-	-	C	C	-	-	-	A	-	R	-	-	-
Subcontractor EHS Reporting	-	-	-	-	-	-	A	R	R	R	R	-	-	-
EHS Weekly Inspection	-	-	-	I	I	-	I	-	R	-	-	-	-	-
EHS Monthly Inspection	-	-	-	-	-	-	R	I	I	I	I	-	-	-
Committee EHS Weekly Inspection	-	-	-	C	A	-	I	-	I	-	-	R	-	-
Subcontractor EHS&Q Audit & Schedule	-	-	C	I	I	-	A	R	R	R-	-	-	-	-
Non-conformities and defects	-	-	-	C	C	-	A	R	R	R	R	-	-	-
Incident notification, investigation & reporting	-	-	A	A	C	-	A	R	R	R	R	I	I	-
Toolbox meetings	-	-	-	I	C	-	A	R	R	R	R	-	-	-
Daily pre-start meetings	-	-	-	I	-	-	A	R	R	R	R	-	-	-
Display EHS Information	-	-	-	A	A	-	R	-	-	-	-	-	-	-
High Risk Construction Work/High Risk Work Licence Observations	-	-	-	-	-	-	A	-	A	R	-	-	-	-
EHS Monitoring / Calibration	-	-	A	R	R	-	A	R	R	-	-	-	-	-
Injury Management	-	-	-	I	C	-	A	R	R	R	A/R	-	-	I
EHS System Audits	A	-	A/R	A/R	R	-	C	-	C	-	-	-	-	-

APPENDIX 3: PLANT, EQUIPMENT AND PROCESSES INSPECTION & TESTING SCHEDULE

Item	Inspection by	AS/CoP	Inspection/Records/ Other Required
Atmospheric testing and monitoring equipment.	Competent Person	AS 2865	# Prior to each Confined Space entry, #Yearly. **Calibration of equipment required
Backhoe	Competent Person	Manufacturer Manual	#(D) Daily Pre-start, #250 hrs, #2,000 hrs (2 yearly) or maintenance as per manufacturer. (M) Mobile Plant Operator
® Building Maintenance Unit	Competent Person	AS1418.13	#Operation and maintenance instruction manual; #pre-operation check; # routine inspection checklist; #maintenance inspection in accordance with manufacturer's logbook. #High Risk Work Licence #GMR Independent Engineer Design Review
Concrete Line Pump ® Concrete Boom Pump	Competent Person	AS 1418.15 AS 2550.15	#(D) Daily Pre-start, #Monthly, #0-5 Yrs every 1000hrs/ Min yearly, #5-10 Yrs every 500hrs/Min yearly, # >10 Yrs every 250hrs/Min yearly #High Risk Work Licence
Concrete / Quick Cut Saw	*Competent Person	-	#Formal Operator Training, guarding # Maintenance as per the manufacturer
Confined Space	Competent Person	AS 2865	#Entry permit retained for 1 month, #risk assessment retained for 10 years, #training records for the term of employment. Permit To Work #High Risk Work Licence
Crane–mobile<10t ® Crane–mobile>10t ® Crane – Self Erecting ® Crane – Gantry >10t	Competent Person	AS 2550 AS 1418	#(D) Daily Pre-start, #monthly, #yearly, #10 yearly. (M) Mobile Plant Operator #High Risk Work Licence
® Crane–tower	#Competent Person	AS 2550 AS 1418	#(D) Daily Pre-start, #monthly, #yearly, #10 yearly. #High Risk Work Licence #Operators must provide evidence of formal VOC assessment against defined competency standards at three yearly intervals as well as the ticket/licence. #GMR Independent Engineer Design Review
Electrical – temporary switchboards and portable electrical equipment	Licensed Electrician	AS 3000 AS 3012 AS 3760	# CONSTRUCTION Electrical Equipment Inspection and Testing Procedure and Register or equivalent
Elevating work platforms ® Boom type EWP	Competent Person	AS 2550.10	#(D) Daily Pre-start, #3 Monthly, #yearly, #10 Yearly #High Risk Work Licence #(M) Mobile plant Operator
Excavator	Competent Person	Manufacturer Manual	#(D) Daily Pre-start, #250 hrs, #2,000 hrs (2 yearly) or maintenance as per manufacturer. #(M)Mobile Plant Operator

Item	Inspection by	AS/CoP	Inspection/Records/ Other Required
Explosive Power Tool	Competent Person	AS 1873	#(D) Daily Pre-start to the manufacturer's recommendations dismantled and examined for defects weekly, #yearly by manufacturer.
Fire Fighting Equipment	Competent Person	AS 1851	Regular inspection, #6 monthly test; #Where more than 10 extinguishers are installed, details must be kept on a register.
Fixed platforms and stairs	Competent Person	AS 1657	Routine inspection.
Forklift Truck/ Telehandler/ Manitou/ motorised (self-propelled) Pallet Trolleys/ Lift Trucks	*Competent Person	AS 2359.2	#(D) Daily Pre-start, #250 hrs, #2,000 hrs (2 yearly) or maintenance as per manufacturer. #High Risk Work Licence (M)Mobile Plant Operator #Operators must provide evidence of formal VOC assessment against defined competency standards at three yearly intervals as well any ticket/licence/ competency attained.
Formwork	Competent Person	AS 3610	#Regular inspection (Stage 1 – before concrete placement); #Pre-pour checklist; #GMR Independent Engineer Design Review #Independent Engineer's Certificate prior to a pour; #Engineered Drawings for suspended formwork; #Independent Engineer certification back propping
Front End Loader	Competent Person	Manufacturer Manual	#(D) Daily Pre-start, #250 hrs, #2,000 hrs (2 yearly) or maintenance as per manufacturer. (M)Mobile Plant Operator
Hazardous Chemicals - products, materials, or substances /Dangerous Goods	Health & Safety Precautions	Safe Work Australia	#Risk Assessment; #Safety Data Sheet; #Register, training. #Health Monitoring – Sch14 WHS Regulations
® Hoist (personnel and materials)	Competent Person	AS 2550.7 AS 1418	#(D) Daily Pre-start, #3 monthly, #yearly, #10 yearly. #High Risk Work Licence
Laser Level	Competent Person	AS 2211.1 AS 2397	Warning Signage; **calibration record.
Ladder	Competent Person	AS 1892.5	When purchased, each time before use, regular intervals. clearly labelled, e.g., safe working load & industrial use.
® Lifts	Competent Person	AS1735.4	#Regular maintenance to manufacturer's specification #Yearly inspection and testing. #High Risk Work Licence (Hoist)

Item	Inspection by	AS/CoP	Inspection/Records/ Other Required
Lifting Gear Flat synthetic slings Fibre Rope slings Chains	Competent Person	AS1353.2 AS1380.2 AS3775	All gear: #Labelled, inspection prior to each use, test certificate to manufacturer's recommendations. #Lifting gear register record of monthly inspection. #Labelled, inspection prior to each use; #monthly, #12 monthly.
® Mast-climbing work platforms	Competent Person	AS1418.16 AS2550.16	#Pre-operation inspection before each use, #3 monthly maintenance inspection, #12 monthly full inspection/service; #major inspection 10 yearly & 5 yearly thereafter; #logbook each climbing drive unit; #logbook for checks, faults, repairs. #High Risk Work Licence #GMR Independent Engineer Design Review
Mobile Plant (All motorised self-propelled)	Competent Person		#(D) Daily Pre-start inspection and maintenance to manufacturer's requirements or Aust. Standards. #(M)Mobile Plant Operator
Oxy / Acetylene / Flashback arresters	Competent Person	AS 4332 AS4603 AS4289	Regular inspection and adequate separation and storage. # Flashback arrester 12 month test #Hoses, gauges and other reticulation items 6 monthly.
Personal Protective Equipment	Competent Person	Specific to type of PPE	# Register of Supply
Piling Rig	Competent Person	AS2550.1	#(D) Daily Pre-start, #monthly, #yearly, #10 yearly. #(M) Mobile Plant Operator #GMR Independent Engineer Design Review of foundation.
Rope Access	Competent Person	AS 4488	Visual Inspection before each use, # 6 monthly by Competent Person. Permit To Work #High Risk Work Licence
Roof safety mesh	Competent Person	AS 4389	#Record of inspection to ensure lapped and tied to Standard.
Safety Harness	Competent Person	AS 1891.4	Visual Inspection before each use, #6 monthly by competent person. #Permit To Work #High Risk Work Licence
Safety Lines/fall arrest devices, lanyards (installation)	Competent Person	AS 1891.4	Visual Inspection before each use, #3 monthly external checks, 6 monthly inspections; #12 monthly full inspection/service. GMR Independent Engineer Design Review

Item	Inspection by	AS/CoP	Inspection/Records/ Other Required
Safe Work Method Statement High Risk Construction Work/High Risk Work requiring a licence	Competent Person	N/A	# Record of review by Competent Person # Training or Toolbox Talk Record. # Monitoring by principal contractor and subcontractor to ensure compliance. #Daily Observation by Lendlease Foreman/Supervisor
® Scaffolding	Competent Person	AS 1576 AS 4576	#Drawing/Elevations; #Handover Certificate, #monthly inspection, Scafftag #GMR Independent Engineer Design Review
Scissor Lift/Boom lift	Competent Person	AS 2550.10	#(D) Daily Pre-start, #3 Monthly, #yearly, #10 Yearly. # (M)Mobile Plant Operator
Skid steer Loader (Bobcat)	Competent Person	Manufacturer Manual	#(D) Daily Pre-start, #250 hrs, #2,000 hrs (2 yearly) or maintenance as per manufacturer. # (M)Mobile Plant Operator
Swinging Stage	Competent Person	AS1576 AS4576	#Handover Certificate, #daily pre-start; #monthly inspection. #High Risk Work Licence #GMR Independent Engineer Design Review
Traffic Control	Competent Person	AS 1742.3	#Traffic Management Plan (Approved) # High Risk Work Licence
® Work Box	Competent Person	AS1418.17	# Visual Inspection before each use Construction and welding inspection & load & stability test. #Yearly re-certification. See 'Lifting Gear'

Key:

® Means items of plant or equipment, which require registration of their design and/or the specific item of plant itself. Plant which requires 'item' registration, i.e., for the specific piece of plant which arrives at a construction project typically; includes: concrete pumps (boom type); mobile cranes > 10 tonnes SWL; tower cranes; air compressors, building maintenance units and boom type elevated work platforms.

Note: As of 1 July 2014 Victoria removed the legislative requirement for 'item' registration of specific high risk plant. Design registration of specific high risk plant is still required as denoted by ®

(#) Means records required.

(D) Means Daily prestart inspection required

** Means calibration of EHS measuring and testing equipment is required in accordance with the requirements of the CONSTRUCTION Calibration of Equipment for EHS Monitoring Procedure.

(M) **Mobile Plant Operator** means the Operator is required to evidence either i) a licence/certificate issued by a State/Territory; **OR** a Statement of Attainment /Certificate issued by a Registered Training Organisation; **OR** evidence of a formal Verification of Competency assessment against defined competency standards.

Note: See Tower Cranes and Forklift/Mobile Lift Trucks. In addition to any Licence/Ticket held by the Operator, the Operator must undertake additional ***Verification of Competency requirements at maximum 3 yearly intervals*** from the date of issue of their current qualification.

APPENDIX 4: KEY ENVIRONMENT AND WHS LEGISLATION

The construction works are to be conducted in accordance with all relevant state legislation including, but not limited to, the legislation listed below, identified in the completed project Impacts & Hazards Risk Assessment and that nominated in specific environment/WHS/OHS (VIC) implementation sub-plans, SWMS and other EHS documentation as required.

State/Region	Principal Legislation	Authority	Internet Address
Commonwealth	Work Health and Safety Act 2011 Work Health and Safety Regulations 2011	Comcare	https://www.comcare.gov.au/
		Federal Safety Commissioner	www.fsc.gov.au
	Environment Protection and Biodiversity Conservation Act 1999	Department of the Environment	https://www.environment.gov.au/epbc
	National Greenhouse and Energy Reporting Act 2007	Clean Energy Regulator National	http://www.cleanenergyregulator.gov.au/NGER
	Chain of Responsibility Heavy Vehicle Transport Laws 2014	National Heavy Vehicle Regulator	Heavy Vehicle Regulator
Aust. Capital Territory	Work Health and Safety Act 2011 Work Health and Safety Regulations 2011	WorkSafe ACT	www.worksafe.act.gov.au/
	Environment Protection Act 1997	Environment ACT	www.environment.act.gov.au
	Heavy Vehicle National Law (ACT) Act 2013 Heavy Vehicle National Law (ACT) (Transitional Provisions) Regulation 2014	National Heavy Vehicle Regulator	Heavy Vehicle Regulator
New South Wales	Work Health and Safety Act 2011 Work Health and Safety Regulation 2017	SafeWork NSW	http://www.safework.nsw.gov.au/
	Protection of the Environment Operations Act 1997 Environmental Planning and Assessment Act 1979	Office of Environment & Heritage	http://www.environment.nsw.gov.au/
	Heavy Vehicle (Adoption of National Law) Act 2013 Heavy Vehicle (Adoption of National Law) Regulation 2013	Heavy Vehicle Regulator	Heavy Vehicle Regulator

State/Region	Principal Legislation	Authority	Internet Address
	Protection of the Environment Operations Act 1997 POEO (Penalty Notices) Regulation 2004 POEO (Clean Air) Regulation 2010 POEO (Waste) Regulation 2014 Waste Avoidance and Resource Recovery Act 2001 Protection of the Environment Administration Act 1991 and Regulation 2012	NSW EPA	https://www.epa.nsw.gov.au/
	Water Management Act 2000 Water Act 1912 Environmental Planning and Assessment Act 1979	NSW Department of Planning, Industry and Environment	https://www.dpie.nsw.gov.au/
Northern Territory	Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2011	WorkSafe NT	http://www.worksafe.nt.gov.au/
	Environmental Assessment Act 1979 Environmental Offences and Penalties Act 1996	NT Environment Protection Authority	www.ntepa.nt.gov.au
Queensland	Work Health and Safety Act 2011 Work Health & Safety and Other Legislation Amendment Act 2015. Work Health & Safety and Other Legislation Amendment Act 2017 Work Health and Safety Regulation 2011	Department of Justice and Attorney-General	https://www.worksafe.qld.gov.au/
	Environmental Protection Act 1994 Environmental Protection Regulation 2008	Department of Environment and Heritage Protection	https://www.ehp.qld.gov.au/
	Heavy Vehicle National Law Act 2012 (Qld) Heavy Vehicle National Law Regulation 2014	Heavy Vehicle Regulator	Heavy Vehicle Regulator
South Australia	Work Health and Safety Act 2012 Work Health and Safety Regulations 2012	SafeWork SA	www.safework.sa.gov.au/
	Environment Protection Act 1993	Environment Protection Authority	http://www.epa.sa.gov.au

State/Region	Principal Legislation	Authority	Internet Address
	Heavy Vehicle National Law (South Australia) Act 2013 Heavy Vehicle National Law (South Australia) (Expiation Fees) Regulations 2013 Heavy Vehicle National Law (South Australia) (Fees) Regulation 2013	Heavy Vehicle Regulator	Heavy Vehicle Regulator
Tasmania	Work Health and Safety Act 2012 Work Health and Safety Regulations 2012	WorkSafe Tas	http://www.worksafe.tas.gov.au/
	Environmental Management and Pollution Control Act 1994	Environment Protection Authority	www.dpiw.tas.gov.au
	Heavy Vehicle National Law (Tasmania) Act Heavy Vehicle National Law (Tasmania) Regulations 2014	Heavy Vehicle Regulator	Heavy Vehicle Regulator
Victoria	Occupational Health and Safety Act 2004 Occupational Health and Safety Regulations 2017	WorkSafe	www.worksafe.vic.gov.au
	Environment Protection Act 2017 Environment Protection Regulation 2021 Environment Protection Amendment Bill 2018	Environment Protection Authority	www.epa.vic.gov.au/
	Heavy Vehicle National Law Application Act 2013 Heavy Vehicle National Law Application (Infringements) Regulations 2013	Heavy Vehicle Regulator	www.esv.vic.gov.au/
Western Australia	Work Health and Safety Act 2020 Work Health and Safety (General) Regulations 2022	WorkSafe WA	https://www.dmirs.wa.gov.au/
	Environmental Protection Act 1986	Environment Protection Authority	www.epa.wa.gov.au
	Road Traffic (Vehicles) Act 2012 Road Traffic (Vehicles) Regulations 2014)	Main Roads WA	https://www.mainroads.wa.gov.au/

APPENDIX 5: COMMUNITY, GOVERNMENT AGENCY AND EXTERNAL STAKEHOLDERS

Community Communication and Consultation

Lendlease will ensure that all relevant community stakeholders are consulted at appropriate times during the implementation of the Project. This will be detailed in the project Stakeholder Management and Community Engagement Strategy (SMCEP).

Specific actions will ensure that community members have adequate opportunity to be informed and provide into items that may impact them. i.e. noise impacts and proposed mitigation measures and environmental impacts. Specific actions may include:

- Issuing of community updates/newsletter and/or notifications;
- Advertising of activity timetables in local papers;
- Making documents detailed in the Planning Approval publicly available;
- Publicising a general toll free project contact number prior to construction; and
- Responding to community enquiries and complaints about the project using the web based contact management system provide by the client, and ensuring that all enquiries and complaints are dealt with promptly and properly addressed.

All communication with the local community will be undertaken in accordance with the SMCEP, which will:

- Demonstrate how the community consultation requirements of the project will be delivered
- Identify people and organisations to be consulted during the project
- Describe the overall approach that will be taken when dealing with the community and other stakeholder groups, including identification of opportunities to provide accessible information regarding the project
- Outline the methods that will be used to inform the community about the project and upcoming works, including provision of community forums.
- Set out procedures and mechanisms:
    - through which the community can discuss or provide feedback
    - through which Lendlease will respond to enquiries or feedback from the community
    - to resolve any issues and mediate any disputes that may arise in relation to environmental management and delivery of the project.

Key community groups include local businesses, residents and interest groups (environmental and commercial). Information prepared for distribution to the community will be tailored to the needs of the target group and approved by the client prior to release. It may address project progress, traffic disruptions and controls, temporary detours, work outside normal hours and may be provided through various forms including:

- As a community notice;
- As advertisements (e.g. progress updates, road closures, disruption to traffic);
- Newsletters or brochures;
- On the internet; and / or
- On noticeboards.

Please refer to the Lendlease Stakeholder Management and Community Engagement Plan (SMCEP), for all aspects and further detail relating to community management for the project.

Management of complaints is detailed within the Stakeholder Management and Community Engagement Plan (SMCEP).

Government Agencies and External Stakeholders

Consultation with a range of non-community, external stakeholders will be required throughout the project. Lendlease will consult and co-operate with all relevant regulatory agencies in meeting the Project environmental requirements and will permit those agencies to audit project activities for regulatory compliance. Initially the approval requires Lendlease to consult with specific authorities and stakeholders in the preparation of this EHSMP and associated sub plans.

External communication methods include:

- Site meetings;
- All significant incidents notified as required by the SSD approval;
- Meetings and correspondence with interested parties (e.g. Council, EPA, bus & coach operators, taxi operators, NSW Police, NSW Fire & Rescue, NSW Ambulance Service and other key stakeholders) as necessary; and
- Discussions with adjoining land owners / neighbours and the community who may be affected by the project in accordance with the SMCEP.

An up-to-date list of emergency response personnel and relevant organisations (emergency services, EPA, etc.) will also be maintained at the main office and site compounds, for any potential environmental incident reporting and management required to be undertaken in accordance with this plan. A list of relevant contacts for project stakeholders will be maintained on site.

APPENDIX 6: CONSTRUCTION HOURS

In accordance with SSD Condition D5; Construction, including delivery of materials to and from the site, may only be carried out during the following hours:

a) Between 7am and 6pm, Mondays to Fridays inclusive; and

b) Between 8am and 1pm Saturdays.

c) No work may be carried out on Sundays or public holidays.

SSD Condition D6 states that construction activities may be undertaken outside the hours in Condition D5 if required:

a) By the Police or a public authority for the delivery of vehicles, plant or materials; or
b) In an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
c) Where the works are inaudible at the nearest sensitive receptor.

SSD Condition D7 states that notification of such activities as referenced in Condition D6 must be given to affected residents before undertaking the activities as soon as is practical afterwards.

SSD Condition D8 allows for rock breaking, rock hammering, sheet piling, pile driving and similar activities only be carried out between the following hours:

a) 9am to 12pm, Monday to Friday;
b) 2pm to 5pm, Monday to Friday;
c) 9am to 12pm, Saturday.

APPENDIX 7: CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN REQUIREMENTS

This Environmental Health & Safety Management Plan (EHSMP) outlines the approach to construction management of the Main Works component of Powerhouse Parramatta. The Main Works comprise:

- Bulk excavation and earthworks
- Piling work
- Construction of new buildings
- Construction of the new public domain and landscaping

The EHSMP has been prepared in place of a CEMP. The EHSMP will be updated periodically and will be maintained during the entirety of the works.

All tasks undertaken in relation to the project whether they be physical construction activities, office duties or procedural tasks are to be undertaken in accordance with the following:

- Suppliers and Contractors shall provide assurance of the quality of all goods, materials and services to be provided; and
- All materials and works are to be undertaken to the manufacturer's specification or industry standards.

Liaison will be established with relevant authorities to co-ordinate the works. This EHSMP should be read in conjunction with other management plans prepared for the Main Works, including:

- Construction Noise and Vibration Impact Assessment: PWNA
- Construction Pedestrian & Traffic Management Plan: Stantec
- Construction Soil and Water Management Plan: Arup
- Construction Flood Risk Emergency Response Plan: Arup
- Remedial Action Plan: JBS&G

Lendlease will adhere to the Protection of the Environment Operations Act 1997 (POEO Act).

Signage

The following will be included within hoarding signage:

- Signs will be displayed in a number of areas around the site, advising of the 24hr contact details for the site manager;
- All works related signage (including particularly safety-related signage) will comply with the relevant SafeWork NSW Codes of Practice.

Management of Dust & Odour

Dust control measures for site preparation which will remain in place for the duration of works will include:

- Erection of site fencing to provide appropriate barriers at the site boundary
- Erection of effective screens and barriers around dusty activities. Cleaning of the screens and barriers should be completed as necessary.
- Communication with stakeholders and neighbouring properties prior to undertaking works in proximity to their premises.
- Establishment of a complaints management system to record details of any reason for air quality-based complaints or incidents.
- Avoidance of dry sweeping in large areas

- Use of effective water suppression where necessary especially when utilising equipment and plant
- Limit demolition activities that will create dust during times of adverse wind
- Covering of stockpiles
- Trucks to have payload covered
- Wheel washing system for trucks if necessary
- Limiting plant and equipment idling
- Implement speed limits on site.

Should these measures be undertaken it is expected that dust impacts can be kept at acceptable levels throughout the works.

Monitoring of air quality will include daily and weekly visual surveillance of dust emissions, dust controls and plant emissions. Undertaking and maintaining regular inspection logs will enable transparent monitoring of air quality throughout the works. Weather and physical parameters such as wind speed, rain, temperature and humidity will be utilised to assist in programming works (impact of rain and wind conditions on site) and recorded. Works will not be conducted during periods of rainfall where there is the potential to generate runoff, or where heavy rain is forecast.

Weather data (such as wind direction) will also be used where complaints are received in relation to dust or noise.

It is not anticipated that any odour nuisance will occur during the Main Works. All plant and machinery involved in the Works will be regularly serviced and checked for exhaust emissions.

Stormwater control & discharge

The contractor is responsible for any and all necessary protective/diversionary works together with associated approvals which should be agreed prior to commencement of the Main Works. The contractor shall familiarise themselves with the local stormwater flooding conditions and risks prior to commencing works on-site. Stormwater management and discharge will be managed in accordance with the *Construction Soil and Water Management Plan*, prepared by ARUP for the site. This Plan includes an appropriate flood risk management plan for the Main Works to minimise the risk of flooding injuring site staff or members of the public, damaging works or plant or carrying materials or debris downstream into the river.

Erosion and Sediment Control, Flooding and Groundwater

A *Construction Soil and Water Management Plan* and a *Construction Flood Risk Emergency Response Plan* have been prepared by Arup. These plans outline the required erosion and sediment control measures to be implemented prior to commencement of any works that could cause issues in relation to erosion or sedimentation.

Groundwater Management Plan

Dewatering and extraction of groundwater is not proposed as part of the Main works. Rather groundwater or surface water that collects in site sumps or piles will be collected and managed in accordance with the Construction Soil and Water Management Plan (ARUP 2022).

Lighting

All lighting within the site will be installed to comply with AS 4282-1997 Control of the obtrusive effects of outdoor lighting. Relevant information confirming compliance with the standard will be provided to the Certifier once lighting is installed.

Community consultation and complaints handling

A Stakeholder Management and Community Engagement Plan has been prepared by Lendlease which will be implemented during the Main Works. This Plan outlines the consultation processes that will be employed throughout the project and coordinates the various consultation requirements outlined in the conditions of consent.

The Strategy includes details for complaints management and community liaison as well as 24-hour contact details for the site manager and the nominated community liaison representative.

Waste

A Waste Management Sub-Plan (Lendlease Jan 2022) has been prepared for the project. The following sections describe procedures and measures to manage waste generated during construction and minimise landfill whilst maximising waste material avoidance, reuse and recycling.

Waste quantities, types, disposal and re-use/recycling

The key activities which will generate the majority of waste include piling activities, excavation and earthworks and removal of road surfaces not carried out under Early Works scope.

Details of construction waste materials types, estimated quantities and proposed methods of disposal or recycling/reuse are provided in the Waste Management Sub-Plan. The general principles of waste avoidance whereby reuse is considered first, recycling second and then disposal where the other methods cannot be used will be adopted.

Waste reuse

The Main Works scope will generate surplus spoil requiring off-site disposal. However, the Contractor will identify materials for reuse where possible during the Main Works activities. In order to allow maximum reuse, waste shall be segregated into stockpiles where space is available and as determined by the Contractor. There is likely to be opportunity for stockpiling within the work area and sufficient space must be provided to allow stockpiling of soil and material from piling and excavation activities. Refer Waste Management Sub-plan for a preliminary storage diagram.

Waste recycling

Where practical, the Contractor should separate waste material generated during the Main Works scope which could be recycled. Waste should be sorted and segregated into recyclable and non-recyclable waste streams during excavation and construction activities and stockpiled where practical before being transferred to the appropriate off-site recycling facility.

Waste disposal

Residual waste identified as unsuitable for re-use or recycling due to its category, classification or material type will be directed to a licensed waste management facility for disposal. Waste materials are to be handled in a manner that causes the least amount of harm to the environment and public health. Classification, removal, transportation and disposal will be undertaken in accordance with legislative requirements and guidelines including *Waste Classifiation Guidelines Part 1:Classifying Waste* (NSW EPA 2014).

The following procedures will be implemented in order to facilitate waste management of the above materials identified:

- Contractors shall ensure removal, transportation and disposal of all waste is carried out by appropriately qualified and licensed persons in accordance with current legislative requirements.
- In order to allow maximum chance for re-use, waste shall be segregated into individual stockpiles where practical for each material type in designated locations onsite.

- All waste generated during construction must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.
- The Contractor will supply transportation dockets, disposal points and other relevant documentation which verifies the type, quantity and disposal/recycle location of all materials removed from site
- General waste produced on site shall be handled as per Council requirements.

Existing local waste management facilities will be utilised where feasible.

Contaminated Excavated material

Any excavated material to be removed from the site is to be assessed, classified, transported and disposed of in accordance with the NSW EPA (2014) 'Waste Classification Guidelines Part 1: Classifying Waste'.

Unexpected finds - Contamination

The Unexpected Finds protocol (Flowchart 7.1 of Remedial Action Plan) is to be followed in the event of any addition unforeseen finds of hazardous waste materials that are uncovered during the Main Works activities.

Waste Classification and Validation

All waste generated will be stockpiled on-site where practical with the final location being determined by the contractor. Materials requiring disposal from site shall be classified prior to leaving site, in accordance with Waste Classification Guidelines Part 1: Classifying Waste, NSW EPA (EPA 2014a) or an appropriate exemption or general immobilisation will be sort under the Protection of the Environment Operations (Waste) Regulation 2014.

Validation of materials remaining on-site and imported to site will be conducted by the environmental consultant to demonstrate the remediation requirements have been achieved.

Tree Management

The following documents outline the trees protection requirements for the project:

- Powerhouse Parramatta Tree Protection Certification (tree iQ Dec 21)
- Tree Protection Specification – Tree 40 – Demolition Works (Tree IQ Jun 21)

Protection measures to be installed and maintained per the above, and will include:

- Installation of Tree Protection Zone (TPZ) fenzing at specified locations
- Installation of signs identifying the TPZ areas
- Ensuring polymer for dust suppression is not used withing the TPZ
- Installation of other specific measures as specified to Tree 40, including trunk and branch protection, ground protection and a drip irrigation system.

Unexpected Archaeological Finds

The following documents identified potential for archaeological resources to be encountered at the site:

- Archaeological Research Design, Curio Projects, April 2020.
- Addendum Historical Archaeological Impact Assessment Report, Curio Projects, 15 September 2020
- Aboriginal Cultural Heritage Assessment Report, Curio Projects, 21 January 2021

Whilst there is greater likelihood for archaeological resources to be uncovered during Early Works, all works that will potentially uncover archaeological resources will be undertaken under supervision of Curio Projects who will act as Excavation Directors for the project.

In the event that works uncover archaeological resources or potential archaeological resources in areas that are not expected to contain such resources, the Unexpected Finds Protocol prepared by Curio (2020) for archaeological resources will apply.

APPENDIX 8: ENVIRONMENTAL COMPLIANCE MATRX

Note – All document references in this Section are limited to the extent that they apply to the planning and environmental management requirements under planning approval SSD 10416, not the health and safety components.

SSD Planning Approval Conditions (SSD-10416)

Condition	Requirement	Document Reference
C35	Prior to the commencement of construction, the Applicant must submit a Construction Environmental Management Plan (CEMP) to the Certifier and provide a copy to the Planning Secretary. The CEMP must include, but not be limited to, the following:	EHSMP
	a. Details of:	
	I. Hours of work;	Appendix 12
	II. 24-hour contact details of site manager;	Appendix 15
	III. Management of dust and odour to protect the amenity of the neighbourhood;	Appendix 15
	IV. Stormwater control and discharge;	Appendix 15
	V. Measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the subject site;	Appendix 15
	VI. Groundwater management plan including measures to prevent groundwater contamination;	Appendix 15
	VII. External lighting in compliance with AS 4282-1997 Control of the obtrusive effects of outdoor lighting;	Appendix 15
	VIII. Community consultation and complaints handling;	Appendix 11
	IX. Detail of quantities of each waste type generated during construction and proposed reuse, recycling and disposal locations;	Appendix 15
	b. Construction Traffic and Pedestrian Management Sub-Plan (see Condition C36);	Construction Traffic and Pedestrian Management Sub-Plan
	c. Construction Noise and Vibration Management Sub-Plan (see Condition C37);	Construction Noise and Vibration Management Sub-Plan
	d. Construction Soil and Water Management Sub-Plan (see Condition C38);	Construction Soil and Water Management Sub-Plan
	e. Construction Flood Emergency Response (see Condition C39);	Construction Flood Emergency Response
	f. An unexpected finds protocol for contamination and associated communications procedure;	Flowchart 7.1 of Remedial Action Plan
	g. An unexpected finds protocol for contamination, Aboriginal and non-Aboriginal heritage and associated communications procedure; and	Unexpected Heritage Finds Protocol, Unexpected Aboriginal Finds Policy

Condition	Requirement	Document Reference
	h. Waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site.	Appendix 15
C36	The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must be prepared to achieve the objective of ensuring safety and efficiency of the road network. The CTPMSP shall be prepared in consultation with, and endorsed by, TfNSW and shall specify, but not be limited to, the following:	Construction Traffic and Pedestrian Management Sub-Plan (Stantec Dec 2021)
	a. A description of the development;	Section 1.3
	b. Location of any proposed work zone(s);	Section 2.5
	c. Details of crane arrangements, including location of any crane(s) and crane movement plan;	Section 2.6
	d. Haulage routes;	Section 2.8
	e. Proposed construction hours;	Section 2.2
	f. Predicted number of construction vehicle movements, detail of vehicle types and demonstrate that proposed construction vehicle movements can work within the context of road changes in the surrounding area, noting that construction vehicle movements are to be minimised during peak periods;	Section 2.7
	g. Construction vehicle access arrangements;	Section 2.4
	h. Construction program and construction methodology, including any construction staging;	Section 2.1
	i. A detailed plan of any proposed hoarding and/or scaffolding;	Appendix C
	j. Measures to avoid construction worker vehicle movements within the CBD;	Section 2.3, 4
	k. Consultation strategy for liaison with surrounding stakeholders, including other developments under construction and Parramatta Light Rail Builder;	Section 3.15
	l. Identify any potential impacts to general traffic, cyclists, pedestrians, bus services and any light rail within the vicinity of the site from construction vehicles during the construction of the proposed works. Proposed mitigation measures should be clearly identified and included in the CTPMSP; and	Section 3.2 - 3.5 and 3.10
	m. Identify the cumulative construction activities of the development and other projects within or around the development site, including the Parramatta Light Rail Project, Sydney Metro West Project and private development. Proposed measures to minimise the cumulative impacts on the surrounding road network should be clearly identified and included in the CPTMP.	Section 3.9
C37	The Construction Noise and Vibration Management Sub-Plan (CNVMSP) must address, but not be limited to, the following:	Construction Noise and Vibration Management Sub-Plan (PWNA Dec 21)
	a. Be prepared by a suitably qualified and experienced noise expert;	PWNA Dec 21

Condition	Requirement	Document Reference
	b. Incorporate recommendations of the noise report titled *'Noise and Vibration Impact assessment'* issue 02, prepared by Arup and dated 22 April 2020 – as amended by letter *'Powerhouse Parramatta SSDA Acoustic Response Submissions'* prepared by Arup and dated 26 August 2020;	PWNA Dec 21
	c. Describe procedures for achieving the noise management levels in EPA's *Interim Construction Noise Guideline* (DECC, 2009);	Section 5.2
	d. Hours of construction in accordance with Conditions D5 to D8;	Section 1.3
	e. Outline how noise and vibration impacts would be monitored during construction;	Section 5.3.2 and 5.4.2
	f. Describe any consultation undertaken with affected properties to develop the noise mitigation strategies;	NA
	g. Describe the measures to be implemented to manage high noise generating works, in close proximity to sensitive receivers;	Section 5.2, 5.3 and 5.8
	h. Include a complaints management system that would be implemented for the duration of the construction; and	Section 5.6
	i. Include a program to monitor and report on the impacts and environmental performance of the development and the effectiveness of the management measures in accordance with Condition C34.	Section 5.3.2 and 5.4.2
C38	The Construction Soil and Water Management Plan (CSWMSP) must address, but not be limited to the following:	Construction Soil and Water Management Plan CSWMP (ARUP 2022)
	a. Be prepared by a suitably qualified expert;	Section 1.2
	b. Describe all erosion and sediment controls to be implemented during construction as a minimum, in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book;'	Section 4.2
	c. Include an Acid Sulfate Soils management Plan including measures for the management, handling, treatment and disposal of acid sulfate soils, including monitoring of water quality at acid sulfate soils treatment areas;	Appendix C
	d. Provide a plan of how all construction works will be managed in wet weather events (i.e. storage of equipment, stabilisation of the Site);	Section 4.3.4
	e. Details of off-Site flows from the Site;	Section 3.2
	f. Describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 1 year ARI and 1 in 100 year ARI.	Section 4.3.1
C39	The Construction Flood Emergency Response Sub-Plan (CFERSP) must address, but not be limited to, the following:	Construction Flood Emergency Response Sub-Plan CSWMP (ARUP 2022)
	a. Be prepared by a suitably qualified and experienced person(s);	Section 1.2
	b. Address the provisions of the Floodplain Risk Management Guidelines (EESG);	Section 5
	c. Include details of:	

Condition	Requirement	Document Reference
	I. The flood emergency response for the construction phase of the development;	Section 5
	II. Predicted flood levels;	Section 5.1
	III. Flood warning time and flood notification;	Section 5.2
	IV. Assembly points and evacuation routes;	Section 5.3
	V. Evacuation and refuge protocols; and	Section 5.3
	VI. Awareness training for employees, contractors and any other relevant persons associated with the site.	Section 5.4
C41	Prior to the commencement of construction, the Applicant must submit a Construction Worker Transportation Strategy to the Certifier. The Strategy must detail the provision of sufficient parking facilities or other travel arrangements for construction workers in order to minimise demand for parking in nearby public and residential streets. A copy of the strategy must be submitted to the Planning Secretary and Council for information.	Construction Worker Transportation Strategy
D15-D19	Construction Noise Limits and noise mitigation measures to be applied During Construction	CNVMP (PWNA Dec 2021)
D24-D25	Air Quality Take all reasonable steps to minimise dust generation. During construction, ensure that: • Exposed surfaces and stockpiles are suppressed by regular watering • Cover all truck loads entering and leaving site • Trucks do not track dirt onto the public road network • Public roads used by site trucks are kept clean • Land stabilisation works are carried out progressively on site to minimise exposed surfaces	Air Quality Management Sub-Plan (Lendlease Jan 22)
D26	Erosion and Sediment Control Implement and maintain all erosion and sediment control measures as required during construction.	CSWMP (ARUP)
D27	Disposal of Seepage and Stormwater Any seepage or rainwater collected on-site during construction must not be pumped to the street stormwater system unless separate prior approval is given in writing by the Environment Protection Authority in accordance with the *Protection of the Environment Operations Act 1997*	Approval to be obtained, where required

Condition	Requirement	Document Reference
D30	Tree Protection (a) Street trees must not be trimmed or removed unless it forms a part of the development consent or prior written approval from Council is obtrained or is required in an emergency (b) All street trees immediately adjacent to the site must be protected at all times during construction in accordance with Council's tree protection requirements. Any street tree which is damaged or removed must be replaced to the satisfaction of Council (c) All trees on the site that are not approved for removal must be suitably protected during construction (d) If access to the area within any protective barrier is required uring the works, it must be carried out under the supervision of a qualified arborist. Alternative tree protection measures must be installed, as required. The removal of tree protection measures must be carried out under the supervision of a qualified arborist	Powerhouse Parramatta Tree Protection Certification (tree iQ Dec 2021) Tree 40 – Demolition Works (tree iQ Jun 2021)
D32-D34	Site Contamination • Undertaken remediation in accordance with the RAP (JBS&G Oct 2020) and any Auditor-approved variations • Issue of Interim Audit Advice for completed stages and a Site Audit Statement on completion of all remedial works. • Ensure the development does not result in a change of risk in relation to any pre-existing contamination on the site that would result in significant contamination.	RAP (JBS&G Oct 20)
D35-D36	Excavation and Imported Soil • Only VENM, ENM or other material approved in writing by the EPA is brought onto the site and keep accurate records • Any excavated material to be removed from the site is to be assessed, classified, transported and disposed of in accordance with the DECC 'Waste Classification Guidelines Part 1: Classifying Waste'	RAP (JBS&G Oct 20)
D37-D41	Waste Storage and Processing • All generated waste be secured and maintained within designaged waste storage areas • All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA 2014) • Ensure concrete waste and rinse water are not dispoed of on the site and are prevented from entering watercourses • Record quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations • Ensure the removal of hazardous material, particularly the control of emission of fibres to the air, and waste disposal is in accordance with the requirements of the relevant legislation, codes, standards and guidelines.	Waste Management Sub-Plan
D42	Handling of Asbestos • Consult with Safework NSW concerning the handling of any asbestos waste encountered during construction • Comply with the POEO (Waste) Regulation 2014 regarding Transportation and management of asbestos waste.	Hazardous Chemicals Management Sub-Plan

APPENDIX 9: DPE GUIDELINE EMP CONTENT CHECKLIST

DPE's Guideline for the Preparation of Environmental Management Plans EMP Content Checklist

Requirement	Included Y/N	Document Reference
Background (EMP Guideline Section 4.3.1)		
Introduction	Y	Section 1 Appendix 11
Project Description	Y	Section 1.4 Appendix 11
EMP Context	Y	Appendix 11
EMP Objectives	Y	Appendix 3 Appendix 9
Environmental Policy	Y	Building EHS Policy Statement (support document)
Environmental Management (EMP Guideline Section 4.3.2)		
Environmental Management Structure & Responsibility	Y	Appendix 4 Appendix 5 Appendix 6
Approval and Licencing Requirements	Y	Section 3.2 Appendix 2 Appendix 11
Reporting	Y	Section 5, Section 5.6, Section 5.5
Environmental Training	Y	Section 4.2 EHS Training Matrix (support document) EHS Training Planner (support document)
Emergency Contacts and Response	Y	Section 4.6 Section 4.7
Implementation (EMP Guideline Section 4.3.3)		
Risk Assessment	Y	Section 4.5 Workplace Impacts and Hazards Risk Assessment (support document)
Environmental Management Activities and Controls	Y	Section 4 Section 5 Workplace Impacts and Hazards Risk Assessment (support document)

Environmental Controls Plans or Maps	Y	Appendix 1 Environmental control maps are located within the relevant sub plans listed in Appendix 1.
Environmental Schedules	Y	EHS Weekly Site Inspection Form (support document) Incident Reporting and Management Procedure (support document) EHS Risk Management Procedure (support document)
Monitoring and Review (EMP Guideline Section 4.3.4)		
Environmental Monitoring	Y	Section 5.6
Environmental Auditing	Y	Section 5, Section 5.5 Auditing EHS Procedure (Appendix 16)
Corrective Action	Y	Section 5.3 Section 5.4
EMP Review	Y	Section 1.2

APPENDIX 10: ENVIRONMENTAL MITIGATION MEASURES

Applicable construction-related Mitigation Measures

Ref No.	EIS Mitigation Measure	Timeframe	Reference
Construction Management			
CM-1	Prepare a detailed Construction Environmental Management Plan prior to the commencement of works on the site including all required technical management plans and with consideration of other nominated mitigation measures.	Prior to construction	Construction Environmental Management Plan
CM-2	The CEMP is to include a Dust Management Sub-Plan with consideration of the recommendations in Section 6 of the Air Quality Impact Assessment prepared by Wilkinson Murray (April 2020).	Prior to construction	Dust Management Sub-Plan
CM-3	The CEMP is to be supported by a Construction Waste Management Sub-Plan detailing the waste expected to be generated during the demolition and construction phases of the project development, and the associated processes for sorting, storing and processing waste, including monitoring and reporting programs.	Prior to construction	Construction Waste Management Sub-Plan
CM-4	The detailed Construction Environmental Management Plan is to include, or be supported by, a communications strategy to communicate the progress and staging of the construction process to the local community.	Prior to construction	Communications Strategy
CM-5	A Tree Protection Plan is to be prepared by the Project Arborist which assesses the degree of impact to any Tree Protection Zones and provides strategies and mitigation measures for how to minimise or mitigate these impacts. Consideration should be afforded to the recommendations in the Arboricultural Impact Assessment prepared by Tree IQ (April 2020).	Prior to construction	Tree Protection Plan
CM-TA	**Transport and Accessibility**		
CM-TA1	A detailed Construction Pedestrian and Traffic Management Plan will be developed with the appointed contractor, confirming the detailed construction methodology and specific measures for safely managing construction traffic in the surrounding area.	Prior to construction	Construction Pedestrian and Traffic Management Plan
CM-TA2	In the event that a footpath or shared path is obstructed, appropriate diversions are to be implemented.	During construction	Construction Pedestrian and Traffic Management Plan
CM-HER	**Heritage**		
CM-HER1	Prepare and educate all on site contractors on an Unexpected Heritage Finds Protocol and Unexpected Aboriginal Finds Policy. Should any suspected archaeological resource/relic be encountered, a stop works would be required in the area of the find, and the project archaeologist contacted.	During construction	Unexpected Heritage Finds Protocol and Unexpected Aboriginal Finds Policy

CM-HER2	Archaeological excavation works within the study area should be undertaken in accordance with the research design detailed in the Historical Archaeological Research Design Report prepared by Curio Projects (April 2020), and any findings from review by Registered Aboriginal Parties.	During construction	Historical Archaeological Research Design Report
CM-HER3	Prior to any demolition, an archival photographic record will be prepared in accordance with the relevant requirements of the NSW Heritage Office's How to Prepare Archival Records of Heritage Items (2003) and Photographic Recording of Heritage Items Using Film or Digital Capture (2006) guidelines	Prior to demolition	NSW Heritage Office's How to Prepare Archival Records of Heritage Items (2003) and Photographic Recording of Heritage Items Using Film or Digital Capture (2006) guidelines
CM-NV	**Noise and Vibration**		
CM-NV1	A Construction Noise and Vibration Management Plan shall be prepared, including the final details of the types of plant to be used and updated estimates of the likely levels of noise and the scheduling of activities. The Plan will have references to the recommendations in Table 24 of the Noise and Vibration Impact Assessment prepared by Arup (April 2020).	Prior to construction	Construction Noise and Vibration Management Plan
CM-NV2	The contractor will refer to the minimum working distances in Table 25 of the Noise and Vibration Impact Assessment prepared by Arup (April 2020), and undertake vibration monitoring at the nearest potential affected building where vibration intensive works are required within these minimum distances. Vibration monitoring should be capable of real-time alerts where measured vibrations exceed the criteria.	During construction	Construction Noise and Vibration Management Plan
CM-SO	**Soils**		
CM-SO1	Where excavating at a depth greater than 2m, the appointed contractor should adhere to Management Procedures in the Acid Sulfate Soils Management Plan prepared by JBS&G (April, 2020).	During construction	Acid Sulfate Soils Management Plan
CM-SO2	The detailed Construction Environmental Management Plan must set-out clear protocols in the event of an unexpected find.	Prior to construction	Construction Environmental Management Plan