



REMEDICATION  
INFRASTRUCTURE  
ROADWORKS  
BULK EARTHWORKS  
ENVIRONMENTAL  
LANDSCAPING

## Project Environmental Management Plan (EMP)



Project	Westmead Children's Hospital Stage 2 Enabling Works
Site Address	Corner of Redbank Rd and Labyrinth Way, Westmead
Client	Health Administration Corporation
Contract no.	H121427
Date	4.05.2022

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# Project Environmental Management Plan

## Document issue register

Revision #	Issue date	Update summary	Prepared/ Revised by	Reviewed By	Approved by
A	02.02.2022	Project Document	Danielle Simpson	Lawrence Saliba	Danny Khal
B	28.02.2022	Project updated to reflect DPE commentary	Danielle Simpson	Lawrence Saliba	Danny Khal
C	03.03.2022	Updated to reflect DPE commentary for MSCP	Danielle Simpson	Lawrence Saliba	Danny Khal
D	23.03.2022	Updated to reference HVNL CoR Policy	Danielle Simpson	Lawrence Saliba	Danny Khal
E	27.04.2022	Updated to reference Unexpected Finds Protocol	Danielle Simpson	Lawrence Saliba	Danny Khal
F	4.05.2022	Updated to reflect DPE commentary for MSCP received on 2.05.2022	Danielle Simpson	Lawrence Saliba	Danny Khal

## Distribution

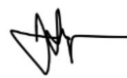


Controlled Copy No.	Issue Holder	Revision	Issue Date
1	1	F	4.05.2022

## Authority

Ford Civil's Chief Operating Officer has authorised 'Danny Khal' as a Project Manager and allocated overall project delivery responsibility for the project to him.

This Project Environmental Management Plan has been prepared for use to manage applicable statutory and regulatory requirements as well as contractual and organisational requirements for the project.

The issue and revision of this Management plan is made under the authority of the Project Manager. This document and its effectiveness will be reviewed and evaluated during project monthly review meetings.

Function	Name	Position	Signature	Date
Prepared by	Danielle Simpson	Project HSEQ Representative		4.05.2022
Reviewed by	Lawrence Saliba	HSEQ Manager		4.05.2022
Approved by	Danny Khal	Project Manager		4.05.2022

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## 1 Introduction

### 1.1 About Ford Civil

Ford Civil offers a full range of civil construction services from site remediation to road works, demolition and commercial landscaping. Our emphasis is on safety the environment and quality, and values open partnerships and clear communication with our clients. The Ford Civil team strives to exceed client expectations and augment our reputation for excellence by delivering even the most complex and challenging projects on schedule and to budget.

Ford Civil is a financially sound company, with long-term stability, coupled with our insurance policies, licenses and fully implemented safety, environmental and quality management systems.

Ford Civil Head office is located at

9 Hattersley Street,  
Arncliffe NSW 2205  
Main telephone number is 02 9597 4122

### 1.2 About Ford Civil Management Systems

Ford Civil has certified management systems. The scope of the management systems includes Project Management, Supervision & Construction of Civil Engineering Works, including Structural Works, Road Construction, Bridge Construction, Earthworks, Demolition, Marine Works, Environmental and Remediation Works and Landscaping. Certification was first achieved in 2008.

Ford Civil currently holds the following certifications:

- ISO 14001:2015 Environmental Management System
- ISO 9001:2015 Quality Management System
- ISO 45001:2018 Occupational Health and Safety Management System

The Environmental Policy supports the environmental management system. All employees will be made aware of this policy and are required to actively work towards achieving its objectives in their specific areas of responsibilities.

The Environmental management system is periodically reviewed at the corporate and project levels. Modifications and improvements resulting from reviews are integrated into the management system and communicated to promote consistent, best practice standards and continual improvement.

Ford Civil management system includes other project plans including but not limited to:

- Quality Management Plan
- WHS Management Plan
- Emergency Management Plan

#### 1.2.1 Certifying Body

Company: QMS Certification Services  
Auditor: As nominated by QMS Certification Services  
Website: <https://www.qms.com.au/>  
Phone: 1800 065 800  
Address: Level 2, 161 King St Newcastle, NSW 2300

## 1.3 Purpose and Scope of the Project Environmental Management Plan (EMP)

Ford Civil has developed this Environmental Management Plan for implementation during the construction/delivery of this project. The main purpose of the EMP is to describe Ford Civil's environmental management system and associated procedures for this project that will guide, manage, and control the environmental aspects of the design and construction aspects of delivery of this project and ensure that all project activities are carried out in a manner that minimises environmental impacts, conform to the relevant regulations, codes and specifications.

The EMP sets the overall context for Ford Civil works. It describes Ford Civil's system for environmental management, and includes policy, objectives, legislation, responsibilities, auditing and document control.

The management system for this project has been developed based on company policies, procedures and in consultation with senior management and employees.

The purpose of this plan is to outline how Ford Civil will:

- deliver this project;
- describe how construction will be managed;
- comply with legislation;
- comply with client requirements;
- comply with requirements of the Ford Civil Directors;
- Meet the requirements of the accredited Ford Civil Safety, Quality and Environmental Management Systems.

This plan has been prepared in accordance with:

- AS/NZS ISO 14001:2016 Environmental Management Systems
- Contract specification
- Environmental Management Plan Guideline: Guideline for Infrastructure Projects (DPIE April 2020)
- Relevant environmental legislation, regulations, industrial standards and guidelines

This plan will be accessible to site personnel at all times and will be used to induct all personnel who will be working on site.

The EMP and associated processes are to be used as a reference guide for all Ford Civil site personnel and will also be applicable to Ford Civil subcontractors during the term of the project.

The EMP provides the framework to manage the environmental issues that may arise throughout the life of this project. The EMP;

- Includes all safeguards required of Ford Civil in regards to Client's Environment Strategy;
- Defines the environmental policy for the project and Ford Civil and summarises the legislative and regulatory obligations applicable to the project;
- Provides a framework for Ford Civil to monitor, audit, report on, review and improve;
- Includes procedures for investigating and resolving non-conformances, and initiating corrective and preventative measures.

This plan will be reviewed every 3 months (review may not lead to revision - this review will be carried out by HSEQ Manager) or when it is required to ensure that it is current and reflects the current project activities and risks. This document will be revised to reflect any adjustments due to the following:

- Changes to standards;
- Changes to Project Risk Register;
- Management System changes;

- Conditions on site differ significantly;
- Work processes differ significantly;
- following a significant incident;
- an internal or external audit finding requiring that the plan is updated.

Based on the duration of the project and client requirements an internal inspection will be carried every month in alignment with the start date on site. In addition, an internal audit may be conducted as per Ford Civil internal audit schedule. The inspection/audit outcomes will be presented to the site staff, Project Manager and Senior Management. The client representative may participate in internal audits or inspections if so desire.

This document is a live document and is developed through the life of the project to ensure all stakeholders and compliance regulations are met. This plan may be updated by site personnel with hand written notes. These hand marked up changes are required to be communicated via a toolbox.

This plan will be made available to all stakeholders (employees, subcontractors, labour hire etc.) upon request and a hard copy will be held on site in the project office.

## 1.4 Development of Project Environmental Management Plan (EMP)

The purpose of this Plan is to ensure that Ford Civil carry out all project activities in a manner that minimises environmental impacts, conform to the relevant regulations, codes and specifications.

This EMP describes how the corporate environmental policy, objectives and targets are implemented to ensure that our corporate, customer and legislative requirements are recognised and that consistent and uniform control of the requirements is adequately maintained.

The key stages in the project environmental management process include:

- Identification of Ford Civil objectives and targets;
- Undertake risk assessments;
- Client review / approval of EMP;
- Ford Civil to Client consultation;
- Site implementation;
- Monitoring, reporting, reviewing and improving.

This EMP includes provision for:

- Identification of significant environmental aspects and the handling of them;
- the prompt detection of discrepancies and for the timely and effective corrective action;
- Identifying environmental non-conformances and follow up of corrective action implementation to ensure correct standards are applied throughout the project.

The structure of the organisation and management for this project is identified and makes clear the reporting relationships, the responsibility of each position and the authority exercised by that position.

This EMP includes the provision of evidence that conformity to the Client brief and environmental requirements has been achieved through the generation of this documentation following implementation of the planned inspection and testing process. This EMP also covers the identification of non-conformance including the corrective actions and controls to achieve compliance with specified requirements.

This EMP requires that all environmental records be completed by personnel with the experience and judgment necessary to make objective decisions regarding the compliance of the work.

To provide confidence in the accuracy and reliability of this EMP's Records, these will be reviewed during the project delivery period to ensure that they accurately reflect the environmental status of the project.



# Project Environmental Management Plan

This EMP is to be applied to all facets of the works on the project carried out by Ford Civil.

A Project Environmental Management Plan is to be developed before commencement of work. This document lays out how the project environmental requirements will be executed, monitored, and controlled.

It's the Project Manager's main responsibility to execute the Project Environmental Management Plan successfully. This document to be approved and signed off by the Project Manager.

## 2 Project integration plan

### 2.1 Project details

Project details	
Project	CHW Stage 2 Enabling Works (Project) – Combined Civils
Contract No	H121427
Location	Corner of Redbank Road and Labyrinth Way, Westmead
Start Date	6.12.2021
Completion Date	27.08.2022
Scope of Works	Refer to Clause 1.8
Client details	
<input checked="" type="checkbox"/> Principal	
<input type="checkbox"/> Principal Contractor	
Client Project Manager	Mary Sakr
Contact number	0420 886 877
Client Address	PricewaterhouseCoopers One International Towers Sydney Watermans Quay, Barangaroo NSW 2000
Contractor details	
Business Name	Ford Civil Contracting Pty Ltd
ABN	24 002 542 814
Physical Address	9 Hattersley Street, Arncliffe NSW 2205
Postal Address	P O Box 26, Arncliffe, NSW 2205
Project Manager	Danny Khal
Contact number	0409 212 374
Civil Supervisor	Zac Hudson 0448 423 747 Daniel Mifsud 0408 696 863 Alain Brock 0468 422 784 Steve Franks 0452 577 519
Safety Rep/First Aider	Adam Khan
Contact number	0424 217 524
Rehab Co-ordinator	Lawrence Saliba
Contact number	0408 653 267

## 2.1.1 Principal contactor

Ford Civil Contracting Pty Ltd is the Principal Contractor for this project.

## 2.1.2 Project Description / Scope of work

Ford Civil Contracting Pty Limited has been awarded the Contract as sub-contractor for the works. The work consists of two sites along Redbank in North Eastern Corner of Westmead children's hospital.

### **Multi Story Carpark:**

- Design finalisation
- Demo of existing lodge building
- Salvage playground equipment
- Clear site (Trees & Pavements)
- Earthworks (Approx. 3500m<sup>3</sup> C/Fill) up to 'BOC'
- Retaining wall & ramp upstand walls
- Wall piles and capping beam footings
- Stormwater drainage incl GPTs and filtration units
- Service trenching for electrical/ comms + conduit install
- Marker layer and temp capping layer to all areas
- No piling platform required for building platform
- Redbank Rd realignment
  - Temporary widening
  - Stormwater drainage
  - Pavement
  - Asphaltting
  - Line marking
  - K&G
  - Reinstating existing light poles
- HV trenching

### **Paediatric Services Building development:**

- Design finalisation
- Demo pavement and clear trees
- Piling for retaining wall
- Borrow pit excavation (approx. 9500m<sup>3</sup>) – VENM disposal
- Earthworks cut/fill (approx. 8000m<sup>3</sup>)
- Retaining wall and associated footings
- Stormwater drainage incl GPTs & filtration units
- Services trenching and conduits within building platform
- Hydraulic from building to park and across entry to north building
- Piling platform and marker layer
- Temp capping layer & marker layer to all external areas
- Bike cage construction

## 2.1.3 Project reference documents

- CHW Stage 2 Enabling Works – Combined Civils Project - Scope of Works V2
- MSCP at CHW Stage 2 Redevelopment – Remedial Action Plan – 56200/131434 (Rev C) (9/02/2021)
- PSB at CHW Stage 2 Redevelopment – Remedial Action Plan – 56200/133598 (Rev 0) (29/07/2021)
- CHW-ARP-CV-RP-MP-91-XX013 MSCP Flood Impact Assessment
- CHW-ARP-CV-RP-MP-91-XX012 PSB Flood Impact Assessment
- JK Geotechnics – PSB & MSCP Geotechnical Investigation – 33303Brpt2 (20/01/2021)
- JK Geotechnics – PSB Geotechnical Investigation – 33303Brpt1 (20/01/2021)

## 2.1.4 Site amenities and emergency equipment

- Site sheds
- Lunch rooms
- Ablution blocks
- Decontamination units (where required)
- Spill kits
- Fire extinguishers

## 2.1.5 Plant and equipment on site

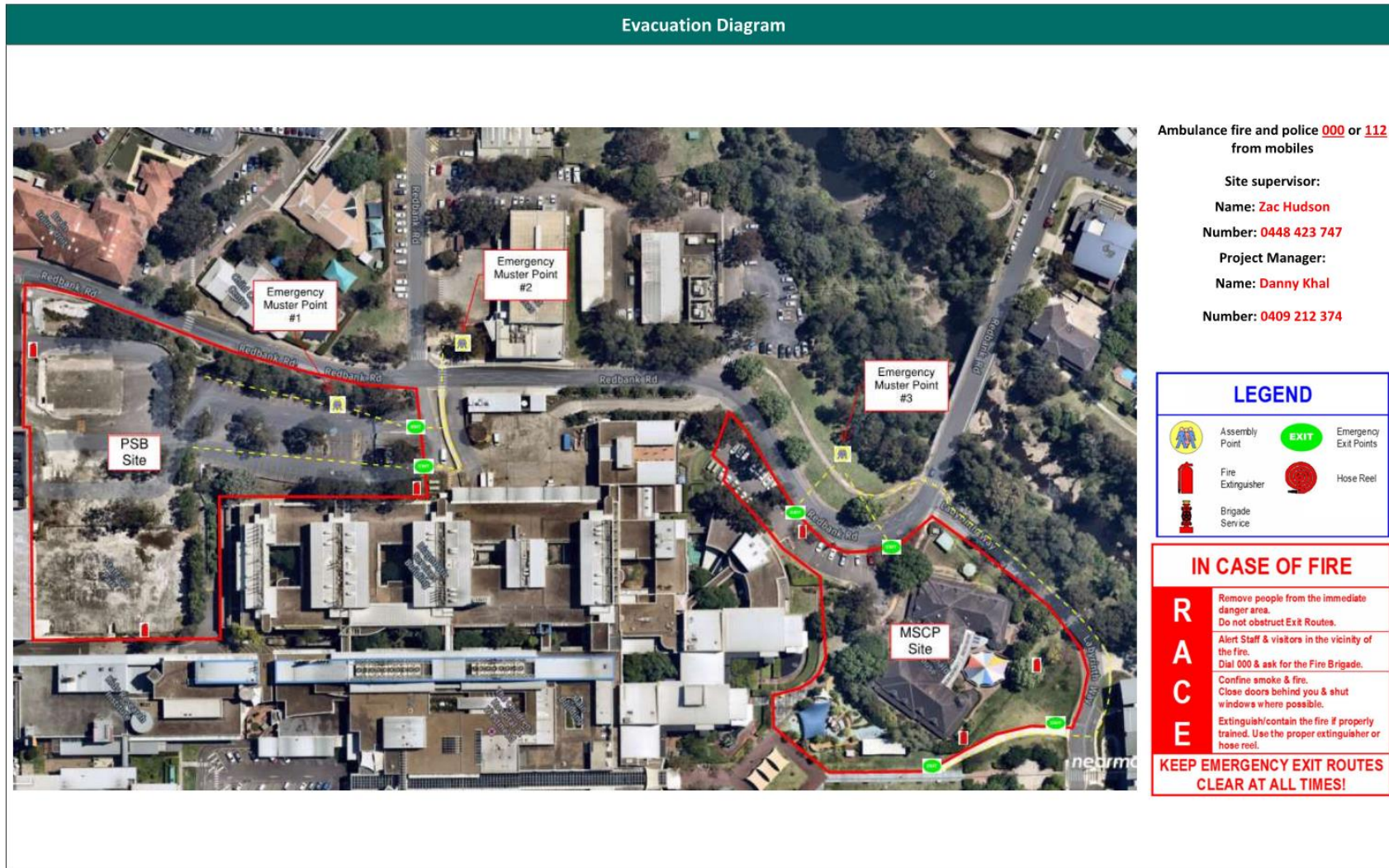
- Trucks – tippers, rigids, semi-trailers, concrete agitator
- Excavators
- Fork lifts
- Piling rig
- Mobile & franna cranes
- Rollers
- Asphalt pavers
- Concrete pumps

## 2.1.6 Contractors on site

- ARUP (Design Consultants)
- Titan Demolitions (Demolition)
- Douglas Partners (Geotech Consultants)
- Concreters (TBC)
- Hydraulics (TBC)
- Piling (TBC)
- Asphalt (TBC)
- Hygienists (TBC)

# Project Environmental Management Plan

## 2.1.7 Site emergency evacuation map



# Project Environmental Management Plan

## 2.1.8 Emergency contact details

Service		Phone Number
Project team		
Client Project Manager	Ahmed Jaradat	0405 113 054
Project Manager (24 hr contact)	Danny Khal	0409 212 374
Electrical Supervisor	TBC	
Civil Supervisor	Zac Hudson	0448 423 747
	Daniel Mifsud	0408 696 863
	Grant Rutherford	0403 265 461
Safety Rep	Lawrence Saliba	0408 653 267
First Aider(S)	Zac Hudson	0448 423 747
	Daniel Mifsud	0408 696 863
	Grant Rutherford	0403 265 461
Emergency Services		
Emergency	Fire/Ambulance/Police	000
Storms / Floods	S.E.S.	132 500
Environmental Emergency	Environmental Protection Agency	131 555
Water	Sydney Water Emergency Service	132 090
Telecommunications	Telstra Emergency Service	132 203
Electricity	Endeavour Energy	131 003
Gas Authority	Jemena	131 909
Explosives	Dept of Mines & Energy	
	After Hours	
Poisons	Poisons Information Centre	131 126
Work Health and Safety	SafeWork NSW	
	All Enquiries	13 10 50
	After Hours	13 10 50
Pollution	Environmental Protection Agency	13 15 55
Animal emergency	RSPCA Animal Ambulance	
	Domestic Animals	
	Native Animals	1300 094 737
Local services		
Local Council	Parramatta Council	1300 617 058 9806 5050
Local Police Station	Wentworthville Police Station	9688 8499
Local Hospital	Westmead Hospital	8890 5555
Local Medical Centre	Westmead Medical Centre	9863 4470

Danny Khal the FCC Project Manager is the 24hr contact. His contact details are documented on each gate entrance.



## 2.2 Interested parties

Relevant stakeholders and interested parties that will be involved with the Project and its outcomes are listed below:

- Health Infrastructure (HI)
- Sydney Children's Hospital Network (SCHN)
- Western Sydney Local Health District (WSLHD)
- City of Parramatta Council (CoPC)
- Workers
- Neighbours

### 2.2.1 Community Consultation

As the Project sites are within the Westmead Hospital Precinct, this plan has been prepared in consultation with HI, SCHN and WSLHD. FCC will continue to liaise with these stakeholders through weekly meetings and Disruption Notices. The templates used for these disruption notices have been included in Section 15.6.

Following these meetings and prior to key events, precinct wide staff and community updates will also be distributed by the Redevelopment Team (HI/SCHN) in the way of fact sheets and notices. Monthly construction updates will also be distributed via the project website:

<https://westmeadkidsredevelopment.health.nsw.gov.au/>

Additional consultation pre-construction was also undertaken with CoPC during the planning phase. For any works that may impact CoPC assets, FCC will also liaise directly with council.

### 2.2.2 Complaints Procedure

A complaint procedure will also be implemented where internal stakeholder complaints are tracked weekly and reported back to the principal during weekly contractor and interface meetings.

These complaints, whether it be from the community members or from hospital stakeholders, will be tracked in FCC's Community Contacts and Complaints Register.

Clear signage, including a 24-hour contact, will be displayed on all site compounds should a stakeholder wish to make a complaint.

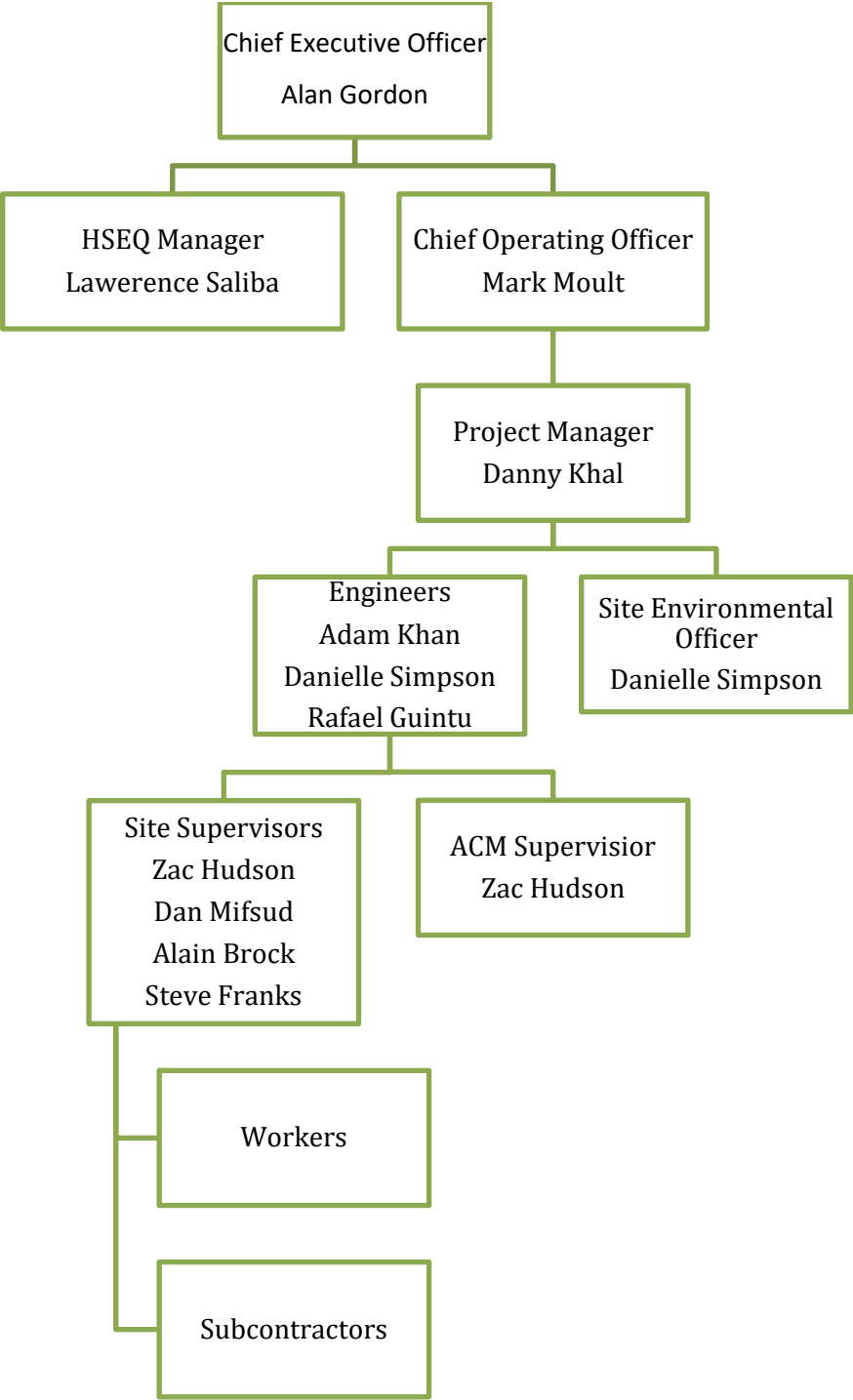
Any additional contact/input from the community will also be tracked in FCC's Community Contacts and Complaint Register.

#### Relevant documents:

- FCC-FOR-198-Community Contacts, Complaints Register

Further to the above, a complaints management process has also been developed by HI and SCHN for the Stage 2 Redevelopment Project. This is outlined in Section 15.7.

2.3 Project organisation structure





## 2.4 Roles, responsibilities and authorities

### 2.4.1 Chief Executive Officer

The **Chief Executive Officer** will:

- a) allocate adequate time and resources (human, financial, and technical) for the Environmental program to be established at all sites;
- b) review significant incidents and near misses and their investigations;
- c) review environmental performance of senior management;
- d) advise project management to achieve the highest standard of environmental performance on the project;
- e) initiate changes from recommendations from the HSEQ Manager;
- f) review project environmental performance;
- g) conduct senior management site inspections and consult with workforce on HSEQ issues.

### 2.4.2 Chief Operating Officer

The **Chief Operating Officer** will:

- a) review significant incidents and near misses and ensure closeout of investigation and implement any improvements or corrective actions. Where required participate in investigations;
- b) review environmental performance of middle management;
- c) advise to site management and the site environmental officer to achieve the highest standard of environmental performance on the site;
- d) initiate changes from recommendations from the HSEQ Manager;
- e) review site environmental performance;
- f) assess the suitability of site staff / resource availability to carry out the works in environmentally responsible manner;
- g) provide information resources on all environmental matters and obtain information from other sources as needed;
- h) conduct senior management site inspections and consult with workforce on HSEQ issues.

### 2.4.3 HSEQ Manager

The **HSEQ Manager** is responsible for the implementation of environmental requirements through the company resources and the implementation of company policy and processes to ensure that the environmental requirements are met and will:

- a) Prepare and review the Ford Civil project EMP to provide guidance as to whether or not it fulfils the following obligations;
  - i. follows the formats / intentions of the Ford Civil systems;
  - ii. follows the intent of AS/NZS ISO 14001:2016 Environmental Management Systems;
  - iii. incorporates Client requirements;

- b) Regularly review the EMP implementation status to ensure all environmental obligations are met;
- c) advise the Project Manager and project team on changes in statutory requirements;
- d) Prepare documentation to demonstrate compliance and report on compliance;
- e) Conduct system environmental audits in accordance with the project audit schedule;
- f) Provides assistance as required to the project team to fulfil the requirements of the EMP and the expectations of Client;
- g) identify any skills/training needs and arrange appropriate training and update skill/competency registers as required;
- h) provide information resources on all environmental matters and obtain information from other sources as need;
- i) compile environmental stats for senior management based on the information supplied from site;
- j) identify environmental aspects and assess the environmental impacts associated with the work, and document the risk control measure to be taken;
- k) in conjunction with the project manager, prepare a systematic audit program to monitor the effectiveness of the EMP;
- l) carry out site environmental audits and inspections;
- m) Respond to environmental incidents;
- n) investigate significant incidents, and advise project team on implementing corrective actions;
- o) maintain records of accidents/incidents including significant near misses;
- p) develop the site induction handout covering all aspects of site environmental issues;
- q) responsible for the reporting to relevant external bodies of any incident that requires notification (e.g. NSW EPA). This information is to be coordinated with the Project Manager,

## 2.4.4 Project Manager

The Project Manager is responsible for the implementation of company policy and processes to ensure that the environmental requirements of the work place are met and will:

- a) lead and manage the project in accordance with environmental requirements;
- b) ensure all appropriate actions are taken to implement the Environmental policy, processes and legal requirements;
- c) allocate adequate time and resources (human, financial, and technical) for the environmental management system to be established and maintained at all sites;
- d) ensure the development and implementation of emergency procedures;
- e) identify environmental aspects and assess the environmental impacts associated with the work, and document the risk control measure to be taken, in a project risk register;
- f) ensure all significant environmental aspects/impacts are eliminated or reduced as far as practicable according to the hierarchy of control;
- g) demonstrate commitment to environmental protection through formal participation in Risk Assessment and Control Planning, workplace inspections etc. and informally through work site visits and discussions with staff;

- h) review any environmental related reports, significant incidents /near misses and monitor corrective actions;
- i) participate in the environmental incident investigations;
- j) advise site management and the site environmental officer to achieve the highest standard of environmental compliance on the site;
- k) Initiate changes from recommendations from the HSEQ Manager;
- l) monitor and supervise the environmental performance within their area of responsibility;
- m) participate where required in the resolution of environmental issues;
- n) communicate regularly on relevant environmental matters both internally and to the client immediately in terms of significant incident including government notifications and monthly for all other statistics to the client representative;
- o) manage environmental communication and consultation provisions in accordance with the regulatory and other requirements;
- p) carry out ongoing review of SHEWMS versus works being carried out on site and document in the task observation form;
- q) ensure all employees/contractors are inducted and receive regular training as required to perform jobs in environmentally responsible manner;
- r) responsible for reporting to Senior Management & relevant external parties including client representative of any incident or accident both in verbal and written communications;
- s) ensure all employees/contractors are informed about environmental policies, management system requirements and project plans during induction and they receive regular training as required to perform jobs in environmentally responsible manner;
- t) ensure employees and the relevant environmental representative are consulted in relation to identification of aspects, impacts, and the assessment and control of risks associated with any significant aspects;
- u) stop works where noncompliance is found;
- v) implement corrective actions where sub contractors are lacking both in terms of compliance on site and in the required documentation;
- w) provide all subcontractors engaged on the project a copy of the relevant sections of the EMP or access to the whole document;
- x) manage notification to adjoining sites, properties of upcoming works / emergencies as required;
- y) coordinate resources for the project EMP to be implemented, monitored, maintained to ensure all environmental obligations are met;
- z) ensure compliance with the Client incident reporting systems.

## 2.4.5 Site Supervisor

The **Site Supervisor** is responsible for the implementation on site of company policy and processes to ensure that the environmental requirements of the work place are met and will:

- a) directs and implements on site environmental management measures
- b) monitor and supervise the environmental performance within their area of responsibility by ensuring environmental protection controls are implemented by all site personnel as required;

- c) ensure all appropriate actions are taken to implement the environmental policy, processes and legal requirements;
- d) lead by example and promote sound environmental practices at every opportunity;
- e) participate where required in the resolution of environmental issues;
- f) review any environmental related reports, and take appropriate action;
- g) ensure that environmentally responsible work practices, procedures, site rules are implemented and adhered to;
- h) conduct daily prestart meetings;
- i) conduct toolbox meetings no less than fortnightly or when significant changes of works occur;
- j) trial and implement emergency response procedures;
- k) identify environmental aspects and impacts and assess risk associated with the work, and document the risk control measure to be taken;
- l) report to Project Management of any incident or near miss that requires notification;
- m) ensure all significant environmental aspects and related impacts are eliminated or reduced as far as practicable according to the hierarchy of control;
- n) ensure employees and the relevant environmental representative are consulted in relation to the identification of aspects and impacts, and the assessment and control of risks associated with any significant aspects;
- o) carry out workplace monitoring and provide assistance and advice;
- p) ensure that employees receive training in the applicable SHEWMS prior to doing any work
- q) ensure all works being undertaken is in accordance with the SHEWMS and site environmental rules applicable to the project;
- r) ensure that the employees have training and competency to perform the work tasks that they have been asked to do
- s) implement corrective actions where sub contractors are lacking both in terms of compliance on site and in the required documentation;
- t) be first point of contact for environmental related matters
- u) ensure that all goods and services purchased/engaged for the project are assessed for suitability in relation to the company's environmental policies and procedures;
- v) assist in the identification of problem areas, including workplace monitoring and provision of assistance and advice;
- w) assist in the monitoring of sub-contractors' obligations to meet their environmental commitments.
- x) maintain environmental documentation and records in accordance with Ford Civil system requirements;
- y) stop works where noncompliance is found;

## 2.4.6 Project Engineer / Environmental Representative

The **Project Engineer** is responsible for the implementation on site of company policy and processes to ensure that the environmental requirements of the work place are met and will:

- a. directs and implements on site environmental management measures in accordance with this EMP and the relevant Safety Health & Environmental Work Method Statements (SHEWMS);
- b. ensure that environmentally responsible work practices and environmental controls as required are implemented and adhered to by site personnel;
- c. ensure all personnel working at site are inducted and signed onto the relevant SHEWMS for their activity;
- d. ensure that all goods and services purchased/engaged for the project are assessed for suitability in relation to the company's environmental policies and processes;
- e. approve Ford Civil and subcontractors' SHEWMS prior to commencing works on site;
- f. ensure all SHEWMS are forward to the client's Project Manager 2 weeks in advance of the works.
- g. assist in the identification of problem areas, including environmental monitoring and provision of assistance and advice;
- h. assist in the monitoring of subcontractors' obligations to meet their environmental commitments;
- i. identify environmental aspects and impacts and assess the risk associated with the work, and document the risk control measure to be taken;
- j. assist in identifying training and competency requirements and organise for training, including refresher training, in consultation with HSEQ Manager;
- k. issue environmental documentation to all sub-contractors and service providers engaged on the site;
- l. manage all subcontractors and their employees to comply with the relevant environmental requirements;
- m. carry out ongoing review of SHEWMS versus works being carried out on site and document in the task observation form;
- n. maintain environmental documentation and records in accordance with Ford Civil system requirements;
- o. update and monitor the hazardous substance register as required;
- p. keep all persons informed of the site environmental rules and other environmental issues relating to the project.

## 2.4.7 Workers

The site-based employees/contractors are responsible for implementing environmental controls and will:

- a. adhere to all environmental policies/processes in accordance with instructions;
- b. take reasonable care of the environment that may be affected by their actions;

- c. will participate in consultation and comply with the environmental management system and their Safety, Health and Environmental Work Methods Statement (SHEWMS) or Standard Operating Procedures (SOP);
- d. ensure they have current licenses, registration and competency certificates;
- e. ensure they are able to competently and safely perform any work they undertake and are aware of the environmental impacts associated with their work;
- f. report any environmental aspects/impacts or potential situations that may rise due to works being conducted, to the Site Supervisor;
- g. report all environmental incidents to the Site Supervisor;
- h. identify environmental aspects and impacts and assess risk associated with the work, and document the risk control measures to be taken providing suggestions, on how to improve environmental issues;
- i. seek assistance if unsure of environmental requirements;
- j. comply with site rules;
- k. comply with emergency and evacuation procedures.

## 3 Senior Management Commitment

### 3.1 Leadership and commitment

Ford Civil's top management team demonstrate their leadership and commitment with respect to the HSEQ Management System by:

- taking overall responsibility and accountability for the prevention of significant environmental aspects and impacts;
- fully integrating Environmental Management System in to Ford Civil HSEQ Management System;
- taking accountability for the effectiveness of the HSEQ Management System;
- ensuring that the quality, environmental and WHS policies and related objectives are established and are compatible with the strategic direction of the organisation;
- ensuring the integration of the quality, environmental and WHS management system requirements into the organisation's business processes;
- ensuring that the resources needed to establish, implement, maintain and improve the HSEQ Management System are available;
- communicating the importance of effective HSEQ Management System and of conforming to the HSEQ Management System requirements;
- ensuring that the HSEQ Management System achieves its intended outcome;
- directing and supporting persons to contribute to the effectiveness of the HSEQ Management System;
- ensuring and promoting continual improvement;
- supporting other relevant management roles to demonstrate their leadership as it applies to their areas of responsibility;

- developing, leading and promoting a culture in the organisation that supports the intended outcomes of the HSEQ Management System;
- protecting workers from reprisals when reporting incidents, hazards, risks and opportunities.

## 3.2 Environmental Policy statement

Ford Civil has established, implemented and maintained an Environmental Policy that is appropriate to the purpose and context of the Ford Civil and supports its strategic direction.

This policy provides our commitment to take care of environment through prevention of incidents that could significantly impact the environment. Refer **Attachment 1** – Environmental Policy Statement.

## 3.3 Company objectives and targets

Ford Civil corporate environmental key performance objectives are to:

- Eliminate all breaches of environmental legislation and regulatory requirements;
- Reduce pollution and waste generation;
- Avoid unnecessary environmental impacts;
- Ensuing company policies are understood and implemented. Copies of company policies can be requested at any time by employees;

The key project environmental targets of Ford Civil are:

- Zero significant environmental incidents on the project;
- Prevent repeat of environmental incidents;
- Investigate actual and potential incidents;
- 100% close out of unsafe environmental conditions within specified timeframes;
- 100% compliance with scheduled inspections by nominated persons.

The HSEQ Manager will prepare monthly Corporate HSEQ Performance Report (FCC-FOR-200) by collating all project HSEQ reports and submit it to senior management for their review. Senior management, in consultation with the project manager initiate corrective actions as required.

 Relevant documents:

→ FCC-FOR-200- Corporate HSEQ Performance Report

## 3.4 Project objectives and targets

Ford Civil has established project Environmental objectives and targets considering the business and project risk management outcomes. The environmental objectives set for this project are consistent with Ford Civil corporate objectives.

The key environmental objectives of the project are to:

- Provide the client with confidence of Ford Civil delivery of the prescribed environmental outcomes during construction of the project;
- Comply with all environmental obligations of the Contract and any other applicable legislation and non-legislative requirements;

- Allocate responsibility and timing of the environmental actions;
- Develop management and audit strategies to ensure ISO14001 – Environmental Management Systems and ISO 19011 – Guidelines for Auditing Management Systems are met and maintained;
- Develop processes for implementing any corrective action required, including review and modification of the EMP;
- Ensure that the construction work procedures minimise potential impacts on the environment and community;
- Develop, implement and monitor measures that minimise pollution and optimise resource use.


The key environmental targets for this project are:

Target	Key Performance Indicators
Zero significant environmental incidents on the project  No identified non compliances to Ford Civil or Client	Works are conducted within scope of Ford Civil, Client's conditions of approval and legislative and other requirements. All other necessary approvals gained prior to works commencing, recorded and filed.
All Ford Civil site personnel are aware of project specific environmental issues and their required management.	All Ford Civil personnel are inducted into site specific environmental management processes and records kept of Ford Civil personnel inducted.
Client directions and suggestions are considered and implemented	System deficiency notices issued by Client are actioned and closed within the specified timeframes.
Prevent repeat of any potential incidents	100% compliance with scheduled inspections by nominated persons  100% close out of unsafe environmental conditions within specified timeframes  Investigate actual and potential incidents and close out 100% of unsafe environmental conditions within specified timeframes
Engage in consultation with Client representative	Undertake regular inspections by Ford Civil and correspond with Client representative.

The overall strategies for achieving these environmental objectives and targets are incorporated into the Ford Civil environmental procedures, safety, health and environmental work method statements (SHEWMS), pre-start meetings and on-site toolbox sessions on the project.

To meet these objectives, Ford Civil requires the full co-operation of everyone: Management, Site Supervision and all others employed both directly and indirectly and to talk about environmental impacts and utilise the controls in place.

Progress of project objectives is reviewed monthly during the Project Performance Review Meeting. Summary of the results also will be monitored during the annual HSEQ Management System review process.

 Relevant documents:



- FCC-FOR-001 – HSEQ Development Plan, tab #5 Corporate HSEQ Management System Objectives
- FCC-FOR-201- HSEQ Statistics Report

## 3.5 Management of resources

Ford Civil top management team is committed to provide the resources needed for the implementation and continual improvement of the project in line with the corporate HSEQ Management System.

Project resource planning and determining the requirements will be carried out during the project risk assessment process.

Status of project resources is reviewed monthly during the Project Performance Review Meeting.

## 4 Training Arrangements

Ford Civil has determined the necessary competence of its workers that affects or can affect the project environmental performance. Training and induction process is in place to ensure that workers are competent on the basis of appropriate education, training or experience. Ford Civil will take actions such as the provision of training to, the mentoring of, or the re-assignment of currently employed persons, or the hiring or contracting of competent persons, to acquire and maintain the necessary competence throughout the organisation.

All new employees of Ford Civil will undergo appropriate company induction on the commencement of their duties. The site-specific induction process which includes environmental induction must be undertaken by all new and existing Ford Civil personnel, subcontractors and visitors including client representatives, prior to works commencing on site. In addition, all workers on site will be inducted in to EMP and specific SHEWMS which incorporate environmental risks and mitigation measure.

Regular environmental toolbox and managers meetings will be held on site to held to maintain and improve environmental issues' awareness and to address any concerns or potential issues.

A training matrix and individual personnel files are established, maintained and reviewed monthly during the Project Performance Review Meeting to make sure that any specified HSEQ Management System training, competency, qualification and licensing requirements are identified and documented for the workers on the project.

Trainees / apprentices can perform high risk work that could cause environmental harm if they are being trained and supervised by a person who has the appropriate training/certificate in accordance with a documented training plan and comply with other requirements of the environmental legislation including keeping appropriate records of the training.

### **Communication and Interface:**

The site supervisor will communicate the environmental issue to workforce through daily pre-start meetings and toolbox meetings. These meetings will highlight / discuss specific community or environmental issues which are relevant to site personnel and will be recorded with topics discussed, date, etc. The subcontractors will be included in all environmental / community toolbox meetings / prestart meetings

In addition, SHEWMS which will be communicated to workforce will detail the environmental aspects/ impacts and the controls to be followed at site.

The project manager will conduct project meetings with the site team covering environmental management as an agenda item.

## Relevant documents:

- FCC-PRO-005-Competence and Awareness
- FCC-FOR-058-Competency Register (Project Specific)
- FCC-FOR-052-Project Induction Presentation
- FCC-FOR-054-Project Induction Information

## 5 Environmental Aspects and Impacts

Hazard identification, risk assessment and control (HIRAC) process has been established that is ongoing and proactive. Ford Civil will identify and record the potential environmental aspects and impacts, assess the level of risk associated with each of the potential impact and define the controls necessary to manage the impacts.

Process of managing the project risks including environmental aspects and impacts are outlined in the Risk Management Procedure (FCC-PRO-003). The risk assessment process as prescribed in this procedure was used to determine the potential level of risk for the project environmental hazards.

Project activities that have the potential to cause environmental harm are outlined in the Project HSEQ Risk Register (FCC-FOR-023). The identification of the significant environmental aspects and impacts that could eventuate during construction on this project is central to the selection of appropriate environmental safeguards. Refer Attachment 3 Project HSEQ Risk Register for risk matrix and initial environmental risk assessment.

The initial identification process involves review of Client documentation and other reference materials as required. Key environmental elements of the project that may result in an environmental impact for Ford Civil have been identified with one or more of the following criteria;

- Construction activities that have the potential to cause the discharge or release of pollutants to water, air or land;
- Construction activities that impact on flora, fauna or heritage;
- Construction activities that have the potential to create change to the environment;
- Construction activities that generate waste;
- Vehicle and Plant decontamination.

The risk management process involves an assessment of all specific project activities in or near environmentally sensitive areas and results in the development of a list of risks and a corresponding risk mitigation strategy and risk rating. Each risk is categorised, based on the following:

- Relative scale of the potential impact;
- Type of potential impact;

- Likelihood of occurrence.

The Ford Civil project team along with its subcontractors will review and itemise the risk assessments and strategies of works / storage etc. to minimise potential of incidents.

Operational controls are established for identified aspects and impacts in accordance with the hierarchy of controls and applicable legislation, codes of practice and Australian standards. These controls are detailed in this plan and in Safety, Health and Environmental Work Method Statements (SHEWMS)

The risk management process including risk register will be reviewed at regular intervals or at certain milestones such as starting of new process or subcontractor, throughout the life of the project.

SHEWMS will be prepared to address the hazards and risks of a particular construction method, task or discrete worksite. SHEWMS will include information about the environmental controls to be implemented to address the environmental impacts and risks.

Ford Civil will not engage with the community or any members of the media in relations to works being undertaken on the project unless authorised by the client.

## Relevant documents:

- FCC-PRO-003-Risk Management Procedure
- FCC-FOR-023-Project HSEQ Risk Register
- FCC-FOR-024-Project Risk Workshop Meeting Minutes

## 6 Environmental Emergency and Incident Management

Ford Civil has established a process to identify all of the foreseeable emergencies at the business and project level that may occur, and the method of recording them.


The type and level of incident that would be regarded as critical by the company, and the process to make sure that any defined critical incidents are managed, is documented in the Emergency Management Procedure (FCC-PRO-035).

Ford Civil's project specific emergency procedures are set out in the Project Emergency Response Plan (FCC-PRO-045/047). All workers at the business and project level and any visitors will be informed of the site-specific emergency response procedures /emergency response arrangements during induction process.

All staff and subcontractors must follow Client's emergency response procedures where required. All emergency incidents should be reported to the Client Representative. All environmental complaints (noise, dust, traffic etc.) will be documented and addressed. They will be reported to the client as required.

Ford Civil ensures:

- relevant information communicated and provided to all workers on their duties and responsibilities;
- relevant information communicated to subcontractors, visitors, emergency response services, government authorities and, as appropriate, the local community;
- the needs, capabilities and involvement of all relevant interested parties are considered in the development of the planned response;
- emergency response plans are tested through planned emergency response drills.

 Relevant documents:

- FCC-PRO-035-Emergency Management Procedure
- FCC-PRO-034-Incident Management Procedure
- FCC-FOR-023-Project HSEQ Risk Register
- FCC-FOR-024-Project Risk Workshop Meeting Minutes
- FCC-FOR-045/047-Project Emergency Response Plan
- FCC-FOR-191-Incident Report
- FCC-FOR-192-Incident Register
- FCC-FOR-194-Incident Investigation Report

## 7 Subcontractor and Interface Contractor Management

All Ford Civil subcontractors are required to operate within the requirements of this EMP, Client's environmental management system, and associated approval documents. All Ford Civil subcontractors will be inducted into Client's environmental requirements and Ford Civil SHEWMS prior to commencing work on site and will be required to adhere to them whilst working on site.

Depending on the complexity of the Ford Civil subcontractors' work or based on a risk assessment, the Ford Civil Project Manager will establish whether a subcontractor is required to develop a project specific EMP or SHEWMS to confirm that their processes and procedures conform to Ford Civil's approved EMP, SHEWMS and procedures. Any subcontractor EMP or SHEWMS submitted as requested by the Project Manager will be approved by the Project Manager prior to the subcontractor commencing works on site.

The work of subcontractors will be monitored by the Ford Civil site supervisors through the site inspection process and compliance to the EMP will be determined.

Ford Civil will report to Client as required on the environmental issues relating to Subcontractors by the following:

- Subcontractors' SHEWMS for works being undertaken will be reviewed / approved by Ford Civil and or Client Environmental Manager or representative,
- Subcontractors will be advised by induction / toolbox meeting on the requirement to report to Ford Civil on environmental incidents which in turn will be reported to Client,
- Ford Civil Project Management will advise Client of Subcontractor environmental incidents by:
  - Telephone call to Client management with 20 minutes of the incident
  - Ford Civil initial incident report issued to the Client with 24 hours containing the subcontractor's incident report
  - Ford Civil incident report close out as soon as practicable

### Relevant documents:

- FCC-PRO-022-Procurement Procedure

## 8 Legal requirement

Ford Civil has established a process for identifying and recording environmental legislation, state environmental planning policies (SEPPs), Guidelines and Australian standards applicable to the business, and then to adjust the company register to reflect the project-based health and safety requirements relevant to the scope of works for the project.

Applicability of these legal requirements and what needs to be communicated are considered within the Register of Legal and Other Requirements (FCC-FOR-021).

Ford Civil will ensure all current environmental legislation, codes of practice and Australian standards relevant to the project are readily available on site and workers are informed of the method of access.

All changes relevant to the business and project are reviewed and processes updated as required. The impact of any identified change and the prompt to review the relevant procedures that may be affected will be considered.

The company's legal requirements will be reviewed as follows:

- As a consequence of any amendments to the business/project activities;
- As a consequence of any relevant changes to Local, State or Federal Law;
- As a member of EPA, Workcover, business websites and industry forums who all inform the company of regulatory requirements;
- As part of the annual management review process.

Compliance with legal requirements will be evaluated at least once a year during the management review process. Following methods are identified as part of the ongoing evaluation of compliance process:

- Conformity of the processes, products and services at the business and project level;
- Notifications, complaints and warnings from authorities;
- Result of the audits and inspections;
- Outcomes of the management review process.

### 8.1 Legislative Requirements

The environmental legislation applicable to this project is listed in project legal register (FCC-FOR-021) and is detailed below

Relevant legislation	Brief summary of the legislation requirements
<i>Contaminated Land Management Act, 1997 and amendments in 2003</i> (NSW EPA)	Establishes a process for investigating, where appropriated remediating land, where contamination presents a significant risk of harm to the environment.
<i>Environmentally Hazardous Chemicals Act, 1985</i> (NSW EPA)	Regulates the disposal of wastes issued with a 'chemical control order' and designates chemical wastes. Designated chemical wastes that have been identified as potential contaminants of concern, for example via synthetic organic contaminants (SOC's), asbestos, PCB's and presides wastes. For disposing of asbestos and classified wastes, refer to the <i>Protection of the Environment Operations Act 1997</i> .
<i>Heritage Act, 2002</i>	Protects all items of environmental heritage in NSW older than 50 years regardless of cultural heritage significance.

Relevant legislation	Brief summary of the legislation requirements
<i>National Parks and Wildlife Act, 1974</i>	Provides protection for most fauna species and protected flora. Provides protection for Indigenous heritage in NSW. It is an offence: to harm any animal that is part of a threatened species, population or ecological community; to pick any plant that is part of threatened species, population or ecological community. It is also an offence, if a person knows that an area of land is the habitat of a threatened species, population or ecological community, to do something or fail to do something that causes damage to the habitat.
<i>Noxious Weeds Act, 1993</i> (Department of Primary Industry (DPI))	Provides for the identification, classification and control of noxious weeds in NSW. Applies to the management and disposal of noxious weeds if found and removed during the works.
<i>Protection of the Environment Operations (POEO) Act 1997</i> (NSW EPA)	Provides for the control of polluting activities in NSW to prevent pollution of the environment. Provides a duty to notify NSW EPA of any environmental harm from site activities.
<i>Roads Act 1993</i> (RMS)	Consent/approval required for the following: <ul style="list-style-type: none"> <li>• Erection of a structure in, on or over a public road</li> <li>• Carrying out of work in, on or over a public road</li> <li>• Digging up or disturbance of the road surface</li> <li>• Altering of the standard operation of traffic on a road (e.g. through speed zone restrictions, closures, or temporary parking changes, detours).</li> </ul>
<i>Soil Conservation Act, 1938</i> (NSW Department of Environment, Climate change and water)	Controls activities causing or likely to cause soil erosion or land degradation. Projects activities must prevent soil erosion or land degradation.
<i>Threatened Species Conservation Act, 1995</i>	This Act protects certain species, population's ecological communities when they are at a particular level of endangerment, e.g. the Green and Golden Bell Frog.
<i>(Commonwealth) Environmental Protection and Biodiversity Conservation Act, 1999 (EPBC Act)</i> (Department of the Environment)	The Act is triggered by developments that will have a significant impact on Matters of National Environmental Significance, including endangered ecological communities, threatened species and migratory species. The EPBC Act requires approvals to be sort by a commonwealth agency for any activity that may have a significant impact on the environment.
<i>Water Management Act 2000</i> (NSW Office of Water)	Under the Act, a licence would be required if water was to be extracted from a creek/bore or if any waterways were to realigned during construction.
<i>Native Vegetation Act 2003</i>	The Act protects state-protected land and native vegetation as identified in the Act.
<i>Waste Avoidance an Resource Recovery Act 2001 (WARR Act)</i>	This Act repeals and replaces the <i>Waste Minimisation and Management Act 1995</i> and amalgamates Resource NSW, which replaces the existing Waste Planning and Management Boars and the State Waste Advisory Council. Resources NSW has subsequently been amalgamated with NSW EPA. The Act introduces a scheme to promote extended producer responsibility in place of industry waste reduction plans.
<i>Pesticide Act 1999</i> (NSW EPA)	This act aims to reduce the risks associate with the use of pesticides to human health, the environment, property, industry and trade while safeguarding proper pesticide use.
<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984</i>	Provides general protection for Indigenous cultural property, and operates concurrently with State Legislation.

Relevant legislation	Brief summary of the legislation requirements
(DEWHA)	
<i>National Environment Protection (Assessment of Site Contamination) Measure (NEPM) 1999</i>	Promotes due process for site contamination assessment.
<i>Protection of the Environment Operations (Noise Control) Regulation, 2000</i>	Provides provisions on matters relating to noise emissions, maintenance of control equipment, use of certain articles and inspection and testing procedures.
<i>NSW Fisheries Management act 1994 (DPI)</i>	This Act aims to conserve threatened species, populations and ecological communities of fish and marine vegetation.
<i>Airport Act 1996</i>	This Act is part of the planning framework; airports are required to prepare a Master Plan that incorporates an Environment Strategy. The Master Plan is a 20 year strategic vision for the airport site which is renewed every five years. The Master Plan includes future land uses, types of permitted development, and noise and environmental impacts.
<i>HEPA, 2020, PFAS National Environmental Management Plan</i>	This plan provides guidance about per- and poly-fluoroalkyl substances referred to as PFOS, PFOA, and perfluorohexane sulfonate (PFHxS), and the obligations around classification, reuse, treatment and remediation and landfill disposal requirements.
<i>Airports (Environment Protection) Regulations 1997</i>	The Commonwealth has an integrated regime to protect the environment at leased federal airports. Airport operators are required to implement their Airport Environment Strategy. While the airport operator has the main responsibility of protecting the environment, everyone operating or working at an airport needs to be aware of their environmental obligations.
<i>EPA Waste Classification Guidelines (for waste disposal)</i>	Classifying wastes into groups that pose similar risks to the environment and human health facilitates their management and appropriate disposal. Wastes in NSW can be classified for disposal or transport into one of the following categories: <ul style="list-style-type: none"> <li>• Special waste (includes clinical waste, asbestos waste and waste tire's)</li> <li>• Liquid waste</li> <li>• Hazardous waste</li> <li>• Restricted solid waste</li> <li>• General solid waste (putrescible)</li> <li>• General solid waste (non-putrescible)</li> </ul>

## 8.2 Approvals, Licences, Permits

The following environmental approvals/ licences/ permits are applicable to this project:

- Asbestos Removal Licence
- Asbestos Removal Permit



## 8.3 Compliance Standards

The following compliance standards are applicable to this project:

### Acts, Regulations, Legislation

- Protection of the Environment Operations Act (NSW 1997)
- Protection of the Environment Operations (Clean Air) Regulation (NSW 2010)
- Protection of the Environment Operations (General) Regulation (NSW 2009)
- Protection of the Environment Operations (Noise Control) Regulation (NSW 2008)
- Protection of the Environment Operations (Waste) Regulation (NSW 2008)
- Contaminated Land Management Act (NSW Department of Environment and Climate Change (DECC) (NSW 1997)
- Environmentally hazardous chemicals Act (NSW 1985)
- Local Government Act (NSW 1993)
- Soil Conservation Act, (DWE) (NSW 1938)
- Water Management Act (DWE) (NSW 2000)
- Waste Avoidance and Resource Recovery Act (WARR Act) (NSW 2001)
- National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (Commonwealth 1994)
- NSW - Waste classification guidelines - Part 1: Classifying waste (NSW 2014)
- NSW - Waste classification guidelines - Part 2: Immobilisation of waste (NSW 2014)

### Australian Standards

- AS 2436 Guide to noise Control on Construction, Maintenance and Demolition sites (1981)
- AS 1055 Acoustics – Description and Measurement of Environmental Noise (1997)
- AS 1940 the Storage and Handling of Flammable and Combustible Liquids
- AS 2107 Acoustics – Recommended Design Sound Levels and Reverberation Times for Building Interiors (2000)

### Codes of Practices

- Code of Practice - How to safely remove asbestos 2019
- Code of Practice – Managing risks of hazardous chemicals in the workplace 2019
- NOHSC:1003(1995) Exposure Standards for Atmospheric Contaminants in the Occupational Environment
- NOHSC:1005(1994) National Code of Practice for the Control of Workplace Hazardous Substances
- NOHSC:1007(2000) National Code of Practice for Noise Management and Protection of Hearing – 3rd Edition
- NOHSC:1010(1994) National Standard for Plant
- NOHSC:1013(1995) National Standard for Occupational Noise
- NOHSC:2007(1994) National Code of Practice for the labelling of Workplace Substances

## Relevant documents:

- FCC-PRO-006-Legal and Other Requirements Procedure
- FCC-FOR-021-Register of Legal and Other Requirements

## 9 Operational Controls

### 9.1 Erosion and sedimentation control

Prior to commencement of any construction works, including any earthmoving or vegetation removal works, erosion and sediment control measures are to be installed to prevent pollution of water ways.

All operations of soil and water management works are to be inspected, repaired and maintained to be initiated as required.

Soil and water management works include all measures to control erosion and sediment such as sediment filters, drains, ponds, basins, stormwater run-off and run-off controls, site stabilisation works, temporary water crossings and vehicular access controls.

The following control measures will be considered to minimise erosion:

- Land clearance should be kept to a minimum;
- Clearing areas of highly erodible soils and steep slopes which are prone to water and wind erosion should be avoided wherever possible;
- The interval between clearing and re-vegetation should be kept to an absolute minimum. Re-vegetate progressively as each section of works is completed;
- Keep vehicles to well-marked and graded access roads;
- Divert clean storm water by small levees away from those parts of site where the soil is exposed;
- Storm water drainage is to exit the site via a sedimentation control installation such as silt fencing or sedimentation basins/tanks/ponds. When sedimentation traps are up to 1/3 full of silt, the silt should be removed;
- Timber, logs and rubbish should be removed from site so soil removal and re spreading should not be interfered with;
- All excavated material should be temporarily stockpiled on the high side of the trench for periods less than 1 month;
- Where practicable, all trenches should be backfilled at the end of the working day;
- Areas should be rehabilitated progressively to reduce the potential for sediments to flow into waterways;
- Machine activity to be kept away from drainage lines unless absolutely necessary and then machine activity is to be kept to an absolute minimum;
- All works being undertaken will be carried out within the confines of the approved Site boundaries (EPL where defined by client);
- Construction plant and machinery is to remain within the construction site for the duration of the contract thus limiting the transfer of mud from the site and also the transportation of weeds;
- All drainage channels carrying storm water runoff are to be stabilised;
- Earth berms constructed in front of silt fences to reduce velocity of water striking fences

Erosion and sedimentation control devices used during construction will be provided by Ford Civil as and where required. Sediment and erosion control measures will be adequately maintained during the works and will be specifically inspected and repaired/maintained. Ford Civil will undertake the following actions on the Project in order to minimise erosion and sedimentation:

- Coordinate and oversee all erosion and sediment control aspects whilst employed on the Project;
- Address relevant erosion and sedimentation control matters at Toolbox Talk Meetings;
- Conduct regular environmental inspections using the Environmental Inspection Checklist to assess and monitor environmental control measures during the course of the Project;
- Locate and stabilise stockpiles of soil material in low hazard areas clear of watercourses (if any);
- Progressively and continually implement erosion and sediment controls to reflect changes within the construction process.

Due to the vast area covered by the project, a general description of the sediment controls to be adopted, have been provided in this section. Prior to commencing works in an area, site-specific erosion and sediment control plans for each area would be developed for approval by the Client, applying the controls outlined in accordance with the reference documents. These plans are included as Section 15.5 Attachment 5.

## Best Practice/Reference

- EPA Publication 275 Construction Techniques for Sediment Pollution Control.
- EPA Publication 480 Environment Guidelines for Major Construction Sites.
- Department of Land & Water Conservation NSW “Urban Erosion & Sediment Control Field Guide” May 1996 (The BLUE book.)

## 9.2 Working near waterways

The following control measures will be considered to protect the water front from damage due to works being undertaken.

- Any works within 40m of a waterway to be undertaken as per the requirements under the 3A permit issued by the Department of Energy and Climate;
- Under the Strahler System, the first 10m of existing vegetated riparian zone and the creek itself will remain untouched during the works;
- Spill response kits to be onsite during works;
- Silt curtains to be installed prior to commencing sea wall works;
- Isolate spoil stockpiles, plant, and equipment from waterways;
- No storage of fuels or hazardous chemicals near waterways. Fuels stored within site compound to be bunded.

## Best Practice/References

- National Parks & Wildlife Act. 1974
- Department of Primary Industries – Office of Water, Guidelines for riparian corridors on waterfront land
- POEO Act 1997

## 9.3 Water quality management

The following construction processes may have a detrimental effect on water quality:

- Wastewater from construction activities entering the stormwater channels;
- Spillage of diesel, petrol, oils, chemicals etc. on site.

### Water quality management strategy

Various controls that will be implemented around the construction site in order to maintain water quality are as follows:

- Proper receptacles provided for waste oils and emergency clean up materials at hand. Fuel storage areas imperviously bunded to 110% of the largest drum's storage volume;
- All fuel and oil storage areas are bunded;
- Plant and equipment inspected daily through Daily Plant Inspections to ensure there are no leakages of fuel, oil and hydraulic fluid;
- Re-fuelling will not occur in the vicinity of waterways (unless absolutely necessary e.g. piling equipment);
- When concrete is delivered to the site, cleaning out of concrete truck agitators will be conducted at designed areas. These areas will be cleaned up on completion of the works, and the concrete will be incorporated in the fill or disposed of at an inert waste landfill site.

## 9.4 Dewatering of Work Sites

The following control measures will be considered to ensure that dewatering operations do not result in turbid water entering natural waterways.

- Treat turbid water to remove sediment prior to being pumped into storm water system or natural waterway.
- De-water by pumping water, wherever practicable on to vegetated areas of sufficient width to remove suspended soil or to sediment control devices.
- Monitor of water pH levels of controlled water discharges from site to ensure no change to the natural pH levels.

### Best Practice/References:

- Landcom "Managing Urban Stormwater: Soils and Construction" 2004 (The BLUE book.)
- Australia New Zealand Environmental Conservation Council "Guidelines for Groundwater protection in Australia.
- Australia New Zealand Environmental Conservation Council "Australian Water Quality for Fresh & Marine Waters" Nov 1992
- Analysis of Water Quality indicators such as suspended solids, pH & Oil/grease by NATA accredited laboratory.
- Turbidity & Ph. Field testing using site gauges.

## 9.5 Erosion & Dust Control

The following control measures will be considered to minimise / avoid the health risks or loss of amenity due to emissions of dust to the environment and the loss of soil from the environment.

- Ensure that the area of cleared land is minimised during the drier months of the year when dust generation is at its greatest;
- Trees to be cleared are to cut to ground level to allow root system to hold soil matrix until ready for clearing/grubbing;
- Implement dust suppression measures such as promptly watering exposed areas when visible dust is observed or when winds are anticipated;
- Use geo textile fabrics to cover stock piles and un-vegetated areas where practicable. Do not use plastic to cover stockpiles;
- Locate stockpiles where they are protected from the wind;
- Minimise the number of stockpiles, the areas and the time stockpiles are exposed;
- Smooth surfaces should be deep ripped and left rough and cloddy to reduce wind velocity at the soil surface;
- Dust monitoring is to be installed and monitored, work practices to be changed if peaks exceed limits.

### Best Practice/References:

- Dust measurement is to be by visual observation of the site by Ford Civil. In addition to externally installed dust collection gauges installed on site by specialty contractors as required.
- EPA Publication 480 Environmental Guidelines for Major Construction Sites.

## 9.6 Air quality management

The following processes are potential influences on the air quality of the area.

- Dust emissions from earthworks and demolition operations;
- Excessive smoke emissions from plant;
- Dust emissions from stockpiles.

### Air quality management strategy

While there is a potential for localised deterioration in air quality during construction due to dust generated from exposed areas, the construction work is expected to have negligible long-term impact on air quality.

Various controls that will be implemented around the construction site in order to maintain air quality are as follows:

- Water carts/hoses to be used to suppress dust;
- Excessive mud to be removed from vehicles before entering public roads;
- The removal of mud spilt by construction equipment from public roads;
- Speed of construction plant and vehicles to be kept to a minimum to avoid the generation of dust;
- All plant and equipment to be maintained in good working order to limit the emission of smoke and dust;

- Tailgates of all trucks leaving the site to be secured prior to leaving the site to prevent any loss of materials;
- Trucks transporting materials will be covered when material is likely to cause a pollution problem;
- Open fires are not permitted;
- Work will cease or be re-programmed if dust control measures are not adequate;
- Exhaust systems to be maintained;
- Avoidance of dust emissions during any concrete drilling, cutting or demolition.

Regular environmental inspections using the Site HSE Inspection Checklist (FCC-FOR-164) will be conducted to monitor the air quality during this Project.

## 9.7 Air Quality (Plant Emissions)

The following control measures are to ensure there is no health risk or loss of amenity due to emissions of exhaust gases to the environment:

- Vehicles and machinery to be maintained regularly and serviced to the manufacturer's specifications;
- All vehicles, plant & machinery to be fitted with appropriate emission control equipment. Minimum requirement is USEPA Tier II or EU Stage II compliance;
- Use correct fuel for plant & machinery as directed by manufactures specifications.

### Best Practice/References

If plant or machinery is emitting visible smoke continuously for longer than 10 seconds, during normal operation, then it will be serviced or replaced.

## 9.8 Noise management

The following control measures will be considered to ensure that nuisance from noise and vibration does not occur are:

- Maintaining working hours as per Conditions of Approval;
- Not undertaking works on any Sunday or Public Holiday;
- Identifying and using the least noisy construction methods, vehicles, plant and equipment available for the works being undertaken;
- Avoiding the simultaneous operation of more than one item of noisy plant or equipment close together;
- Ensuring that all plant, when not in use is switched off to minimise noise;
- Fitting and maintaining appropriate mufflers on earthmoving and other vehicles on site;
- Providing screening to adjoining areas as necessary to control the spread site generated noise;
- Assessing all plant and equipment to ensure suitability or the activity.

The DA preferred work hours for this Project are as follows:

- **7:00 am – 6:00 pm** Monday to Friday
- **8:00 am – 1:00 pm** Saturday

As per the SSDA conditions, construction works below 5dB above background levels are permitted to continue on Saturdays from 1pm until 5pm. These works exclude any high impact noise activities including, but not limited to, piling, saw cutting and rock breaking activities. High impact noise activities include anything which exceeds + 5 dBA above background noise. Works that can continue are anything below this threshold including fencing, sediment controls, steel fixing etc.

Where high impact noise activities are required, these may only be carried out between the following hours:

- 9am to 12pm, Monday to Friday
- 2pm to 5pm, Monday to Friday
- 9am to 12pm, Saturday

With the exception of the following emergency construction work (unplanned works), work outside these hours and weekends will only be permitted with the prior written approval from the client / principal.

The emergency construction work that may be undertaken urgently out of normal work hours to avoid:

- Loss of life,
- Damage to property, or
- Environmental harm

Ford Civil will advise Client in the event of:

- becoming aware of the need to undertake emergency construction works, and the need for those activities, and
- within 24 hours of becoming aware of the need to undertake emergency construction work, submit a detail report to the client about:
  - The circumstances leading to the emergency,
  - The nature and scope of any construction work undertaken to alleviate the emergency, and
  - The practicable measures adopted by Ford Civil to prevent any similar incident.

To ensure efficient noise attenuation performance is achieved, practicable and reasonable noise and vibration mitigation and management measures are used during construction works, including the following:

- identifying and using least noisy construction methods, vehicles, plant and equipment available for the type of work being undertaken;
- maintaining plant and equipment properly;
- strategically positioning the plant and equipment that generates high noise levels, impulsive noise, intermittent noise, low-frequency noise or tonal noise as to minimise noise and vibration impacts on surrounding noise sensitive receivers including employees;
- avoiding the simultaneous operation of more than one item of noisy plant or equipment close together and near noise sensitive receivers;
- planning the work site and work processes and taking all such practicable measures necessary to minimise movements that would activate audible reversing and movement alarms, especially during out of hours work;
- undertaking any loading or unloading operations away from noise sensitive receivers;
- selecting and locating access points and roads to the premises as far away as practicable from noise sensitive receivers;

- scheduling respite periods if the work to be undertaken would be likely to generate noise and vibration emissions from the premises and would be conducted over extended periods in the same locality;
- switching off any equipment not in use for extended periods during construction work;
- using structures and topography to shield noise sensitive receivers from noise impacts.

Where noise level exceedances cannot be avoided, consideration should be given to implementing time restrictions and/or providing periods of repose for residents where reasonable and feasible.

If required, noise monitoring must be undertaken in accordance with AS2659 and the compliance monitoring guidelines outlined in the Construction Noise and Vibration Management Sub-Plan.

## Best Practice/References

- No damage to buildings/structures.
- Zero complaints from residents, council or EPA.
- Approved EPL / boundaries for the works
- POEO Act 1997
- Environmental Planning and Assessment Act 1979

## 9.9 Vibration management

Vibration is generated during some construction activities and has the potential to impact on human perception, buildings/structures and sensitive devices such as medical instruments or photographic equipment. The seriousness of the impact of the vibration is dependent on factors such as the type of soil, the condition of the buildings/structures, the construction activity being undertaken, the type of equipment being used, and the equipment or facilities located in nearby buildings.

Ford Civil will inspect and photograph any structure at risk from vibration impacts prior to works commencing. This inspection will be conducted with the consent of the building owner as a basis for assessing any damage that may arise from construction works.

Ford Civil will implement a range of control measures based on site-specific risk factors. These measures may include using smaller plant, reducing the magnitude of the vibration, restricting the use of vibration in compaction equipment, restricting the speed of heavy equipment, and using alternative methods, such as a hydraulic hammer instead of explosives.

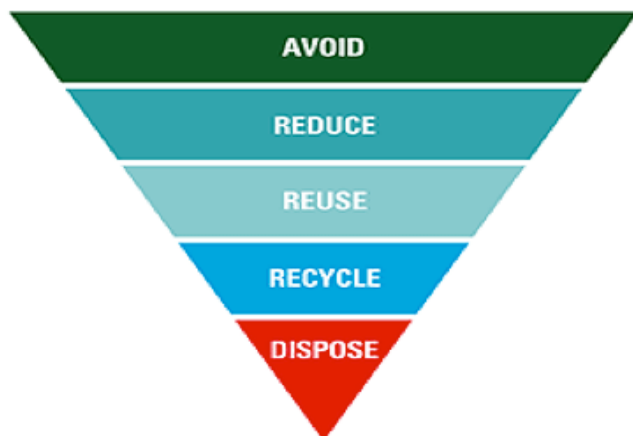
A final inspection will be conducted of any building/structure considered to be at risk from vibration to ensure that no damage has occurred.



## 9.10 Waste management

Ford Civil should not permit or allow any waste generated outside the site to be received at the site. All waste generated at the premises will be assessed, classified and managed in accordance with the NSW EPA Waste Classification Guidelines Part 1: Classifying Waste, 2014.

### Our Preferred Options



The following control measures will be considered to minimise generation of solid wastes from construction activities and to appropriately dispose the generated waste:

- Avoid the generation of waste material wherever possible;
- All solid waste should be placed in appropriately designated storage areas during construction;
- As part of progressive rehabilitation of areas any solid waste or spoil material should be removed from site and disposed of appropriately;
- Work and surrounding areas should be maintained in a tidy condition;
- There should be no vegetation burning. All waste vegetation should be chipped or mulched on-site and re-used or appropriately disposed of;
- Weeds are to be disposed of offsite in appropriate disposal facilities;
- Wastes should be collected for recycling and or disposal at Local Government designated sites;
- Maintain a high quality of housekeeping and ensure that materials are not left where they can be washed or blown away to become litter;
- Sending waste concrete from demolition to a concrete recycler instead of landfill;
- Using overburden to construct temporary noise barriers;
- Collecting lubricating oil from the construction plant and equipment and sending it to a recycler.

### Waste from maintenance of machinery

Ford Civil will generally maintain earthmoving machinery, vehicles and trucks at a location off site. All waste generated during the maintenance of machinery will be disposed of by a licenced contractor.

### Wastes from construction materials

Ford Civil may produce waste from products and their containers and packaging. Some types of waste generated during construction activities include:

- Paints used to paint survey markers or other features
- Two-stroke fuels for small engine-powered plant such as chain saws and generators

## Wastes from effluent collection systems

Toilets, showers and sinks will produce wastes. Ford Civil will collect and dispose of wastewater from toilets (including chemical toilets), sinks and showers in accordance with the effluent management requirements of the Local Council and the EPA. Ford Civil will install septic holding systems at construction site offices as required and arrange for licenced contractors to pump them out regularly.

## Wastes from other processes

Other wastes that Ford Civil will produce include paper, cardboard, photocopier toner, printer cartridges, plastics, packaging and batteries. Where possible, materials will be recycled (e.g. paper, cardboards, plastic etc.).

## Spoil Management

Prior to carting any spoil off site, the material will be assessed by a qualified person and a waste classification report will be provided. This report will then be provided to a licenced facility prior to loading out and disposing of any material.

The following in-situ waste classifications have been received/are expected to be encountered on the project. Noting that these volumes are only approximate and may change throughout the course of the Project pending the suitability of the material.

Material Classification	Quantity to be disposed	Quantity to be re-used
VENM	9,435 m <sup>3</sup>	-
General Solid Waste (Non-Putrescible)	-	200 m <sup>3</sup>
General Solid Waste with Special (Asbestos) Waste	0 m <sup>3</sup>	15,500 m <sup>3</sup>

The re-use and capping of the contaminated fill is to be in accordance with the Remediation Action Plan (RAP) prepared by JBS&G. Refer to MSCP Report 56200/131434 (Rev 0) dated 16 June 2021 and PSB Report 56200/133,598 (Rev 0) dated 29 July 2021.

## Acid Sulfate Soil Management

The site **has been assessed** and no indicators of ASS or potential ASS (PASS) were observed in any of the sample locations. Regardless, the site will be managed for any acid sulfate soil (ASS) and potential acid sulfate soil (PASS), in accordance with the 1998 Acid Sulfate Soils Manual.

## Waste minimisation and recycling

Ford Civil will strive to produce minimal waste during construction works. Where possible, materials will be reused on site or on other projects or will be removed from site by a licenced contractor for recycling. All non-recyclable/non-reusable waste will be removed from site by a licenced contractor for disposal at a licenced waste facility.

## Liquid and chemical wastes

Ford Civil will store and dispose of liquid and chemical wastes as required by the current waste legislation and the Environmental Guidelines.

## Waste relocation

If waste is transported from site, the waste should be:

- Transported by a company authorised to transport the relevant waste classification; and
- To a place that can lawfully accept that waste;
- Recorded in a waste disposal register, including details of type, quantity and destination;
- The body of any vehicle or trailer, used to transport waste or excavation spoil from the site, is covered before leaving the site to prevent any spill or escape of any dust, waste, or spoil from the vehicle or trailer; and
- Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site, is removed before the vehicle, trailer or motorised plant leaves site.

All concrete rinse water is collected and managed onsite in accordance with Environmental Best Management Practice Guideline for Concrete Contractors, 2004 or disposed of to a facility licenced to receive and treat concrete rinse water.

Concrete washouts will be planned, designed and managed as detailed within images below.



## Best Practice/Reference

Once targets for waste minimisation have been set maintain data and convert this to cost savings where possible.

- Soil conservation Act, 1938

## Relevant documents:

- FCC-FOR-185-Material Tracking Register

### 9.11 Storage of Fuels & Chemicals on Site

The following control measures will be considered to ensure that chemical and fuel storage is safe, and that any materials that escape do not cause environmental damage such as groundwater or soil contamination.

- Minimise chemical and fuels stored on the site. (Materials in general will be restricted to marker paints, cutting oils, etc. & fuels to be restricted to approximately 4 x 5 litre containers of petrol for tampers, generator use.)
- The Ford Civil site vehicles will be refuelled off site at the local service station;
- All Ford Civil site vehicles to carry spill kits suitable for small spills / leaks;
- Store minimal fuels and other hazardous materials in appropriately bunded structures (spill trays.) away from creeks and drainage lines;
- Bunds should be impervious (PVC containers capable of holding product to 110% of capacity) to prevent spilled product from escaping;
- Any spillage should be cleaned up immediately;
- Maintain a list of chemicals and other potentially hazardous material and material safety data sheets;
- Restrict the area in which hazardous materials can be stored (Produce lockable flammable / hazardous – materials storage cupboard within the Ford Civil compound.) during construction works;
- No planned plant maintenance to be carried out on site. All planned maintenance work is to be carried in the Ford Civil site compound;
- Emergency / breakdown works on plant can only occur once client/authority is notified;
- The contingency plan for this project (minimal fuels / products) will be to have a spill kit bag / fire extinguisher available for all works where potential for leaks / spills / fire could occur. All leaks / spills are to be cleaned up as they occur;
- Notification of incidents will be directed to Environment Manager / Representative;
- A lockable store will be provided for all potentially hazardous products.

### Best Practice/Reference

- Australian Standard 1940- The Storage and Handling of Flammable and Combustible Liquids.
- Implement a contingency plan to handle spills, so that environmental damage is avoided.

### 9.12 Spill prevention and containment

All due care will be taken in the transfer of material from transport vehicles to the storage compound to minimise the potential for leakage or spills.

The storage of fuel, oil and chemicals on site are to be minimised to reduce the chance of spillage.

Impervious bunds of sufficient capacity, able to contain at least 110% of the volume of the largest container of stored chemical, fuel or oil must be constructed around all chemical, fuel and lubricant storage areas.

## Fuelling of plant and equipment

- Fuelling of all plant and equipment is to take place as far as possible and practicable from existing stormwater drainage lines (temporary or otherwise) and sediment basins. Extreme care is to be taken should this situation be unavoidable.
- The Operator must be in attendance at all times during the fuelling process. Fuelling activities are to never be left unattended.
- Absorbent materials (spill kit) are to be available at all times during any fuelling activity. Absorbent material shall be used to absorb any minor drips or spills that may occur.
- Storage of fuel containers is to be in a designated and bunded storage area.

## 9.13 Herbicides and other chemicals

If herbicides or other chemicals are to be used during the Project, the HSEQ team and Project Manager will document a plan for their safe use. Controls will be implemented and documented.

## 9.14 Contaminated ground

Any contaminated spoil identified during construction works is to be taken to an approved contaminated waste depot appropriate to the type of contamination.

A record of waste disposal is to be obtained to record proper safe disposal of the material where possible.

## 9.15 Maintenance of Roadways (Dirty Roads)

The following control measures will be considered to ensure that roads are kept clean of soil:

- Prevention of soil being deposited on roads is preferable to cleaning them afterwards;
- Utilise rubble grids / wheel wash for any item leaving site which is unsealed;
- Utilise geofabric on the entry/ exit point for vehicles to drive on;
- Cover all loads of soil being transported for off-site disposal;
- If required, install litter traps, lined with filter cloth in all side entry pits;
- Roads are to be swept or washed down;
- Vehicle and Plant decontamination.

## 9.16 Traffic management

The following control measures will be considered to manage traffic to and from site, with in site boundaries:

- Ensure public safety – no parking of vehicles on public or crown land;
- Ensure adequate access to work sites – defined pedestrian access paths;
- Ensure that road damage due to construction traffic is monitored and addressed in a way that is satisfactory to the relevant authority;
- Ensure that disruptions to traffic flows on public streets are managed to the satisfaction of the relevant road authority;
- Ensure that disruption to public transport services are managed to the satisfaction of the relevant transport provider;

- Ensure that affected local residences, businesses and commuters are advised of any disruption to traffic flows and public transport services;
- Reduce the exposure of the community to construction heavy vehicle traffic and its associated noise and vibration – by planning work;
- The site location plan (Attachment 4) will define haul, vehicular and pedestrian movements across the site.

The above traffic management measures are further addressed in the Construction Traffic and Pedestrian Management Sub Plan which has been included as Appendix A of this CEMP.

FCC's Heavy Vehicle National Licence (HVNL) Chain of Responsibility Policy is also included as part of the sub plan and will be distributed to all transport suppliers and subcontractors to ensure the impacts of the Project on the local hospital network are minimised.

## Best Practice/Reference

- Road Occupancy Manual
- TfNSW Delegation to Councils Regulation to Traffic
- TfNSW's Traffic Control at Work Sites Technical Manual, Issue 6.0

## 9.17 Management of Stockpiles

The following control measures will be considered to manage soil stockpiles so that dust and sediment in run-off is minimised:

- Minimise the number of stockpiles, and the area and the time stockpiles are exposed;
- Locate stockpiles away from drainage lines at least 10m, away from natural waterways and where they should be less susceptible to wind erosion;
- Ensure that stockpiles have slopes no greater than 2:1 (horizontal: vertical);
- Stabilise stockpiles that should remain bare for more than 7 days by covering with anchored fabric or by seeding;
- Establish sediment controls around unstabilised stockpiles;
- Suppress dust generation from stockpiles as circumstance demand;
- Provide screening to adjoining areas as necessary to control the spread of site generated dust;
- Stockpiles should not be located under the drip line of trees or near protected trees;
- Test material in areas of excavation for waste classification prior to commencing excavation works to enable prompt off-site disposal and minimise creation of stockpiles. Frequency of testing will be dependent on volume of material to be disposed;
- Prior to commencing, stockpile areas to be nominated for each stage of the works, subject to waste classification.

## Best Practice/Reference

- EPA Publication 275 Environmental Guidelines for Major Construction Sites.

## 9.18 Flora and fauna management

During construction work activities care will be taken to minimise disturbance to native flora and fauna. Environmentally sensitive areas will be fenced off to prevent access to the area by employees and mobile plant.

## Vegetation Protection (Protected tree zones)

Any vegetation requiring protection (trees etc.) will be barricaded at their dripline and marked to prevent damage to the vegetation for the duration of the construction works.

The following control measures will be considered to protect indigenous flora / vegetation and habitat in the construction work area and to reinstate vegetation and habitat as the works progress.

- Weed contamination in construction work areas;
- Soil compaction especially under tree canopy;
- Protection of indigenous flora / vegetation;
- Protection of Topsoil.

The following control measures will be implemented as required before and during the construction works of this project:

- To control weed contamination of site, trucks and other construction plant should not move from areas where there is significant weed contamination to areas where there is minimal weed contamination;
- Prior to commencing work on site, all construction equipment and trucks shall be free of weed contamination;
- Works to be programmed to minimise the potential for weed contamination. Trucks should start work in minimal weed contaminated areas and move to areas where there is a higher degree of weed contamination;
- All construction vehicles to be prevented from travelling too close to trees or under a tree canopy/drip line;
- Vehicular traffic should be prevented from travelling close to trees by placing some star pickets and webbing around the tree;
- Construction materials should not be stored within these areas;
- Appropriate treatment & disposal of removed vegetation. Implementation of a rehabilitation program of land that has been disturbed by construction activities;
- Program to include landscaping using a diversity of local and indigenous plant/grass species;
- Topsoil should be stockpiled and returned to the site from which it was removed with the original contours;
- If soil compaction has occurred the soil should be loosened to ensure that plant growth is not inhibited and that infiltration of water to the soil layer can occur;
- In pasture or recreation areas, grasses should be sown appropriate to the use of the site in consultation with the local council and landowners;
- Material for rehabilitation should be from areas which are not infested with weeds or other exotic flora;
- The sources should be checked for weeds prior to transportation to site;
- The works are programmed to ensure that weed-infested soil, vegetation and chipped mulch does not get transported to other parts of site during the course of the works;
- Define work and exclusion areas i.e., fencing.

## Weed management

Care will be taken to avoid the spread of weeds around project sites. Where required, weeds will be removed manually from the site and be disposed of appropriately (licensed waste facility) or will be poisoned. Wheel wash facilities will be provided while working in environmentally sensitive areas.

## Protection of Fauna

The following control measures are to protect native vertebrate fauna from being trapped:

- All open trenches should be inspected prior to commencement of work each day for trapped vertebrate fauna such as frogs, reptiles, birds or mammals;
- If it is found that there are trapped vertebrate fauna in open trenches then an appropriate shelter for animals should be contacted to remove it from the trench;
- Wherever possible ensure that all trenches are backfilled each night;
- All shafts should be covered at the end of each working day to prevent vertebrate fauna from entering.

## Best Practice/Reference

- Seek expert advice from Department of Natural Resources and Environment and the RSPCA.
- 'Bush Regeneration', Buchanan 1989

### 9.19 Fire precautions

- No fires are to be lit on site;
- Smoking must only occur in designated smoking areas with appropriate controls, noting that no smoking is permitted on hospital grounds;
- A fire extinguisher/fire hose must be available nearby when conducting hot works and a hot works permit must be in place.



## 9.20 Heritage & Archaeology

Construction activities in significant heritage/archaeological areas can lead to loss or destruction of valuable artefacts and relics, and the disturbance of historical sites. Ford Civil will work co-operatively with the Client and/or specialist consultant to survey project sites for areas of significant importance if required.

The following control measures will be considered to prevent damage or loss to heritage places and objects which would result in loss of cultural, historic and educational value to the community. Ford Civil will:

- advise relevant representatives of the Construction Program in advance so that they can be on site during construction if necessary;
- fence heritage or archaeological sites that are known at the onset of project;
- place signs to indicate area is a “NO GO” area;
- ensure that the appropriate permits/authorisations (if any) have been received prior to undertaking work in areas that may contain heritage items.

Should any relic, artefact or material suspect of being of Indigenous or European origin be encountered, construction work that might affect the item must cease immediately. The relic, artefact or material is to be protected from damage or disturbance, and the Office of Environment and Heritage (NSW) will be notified of the find, for guidance.

In the event of any find Department of Environment, Climate change and water must be notified immediately.

### Best Practice/References

- Not to lose, destroy or deface any sites of historical or archaeological significance.
- NSW Heritage Act. 1997
- National Parks & Wildlife Act. 1974
- Department of Environment, Climate change and water

### PROCEDURE IN THE EVENT OF AN UNEXPECTED FIND

Should an unexpected find of potential contamination be encountered during the works, the following procedure (Steps 1 to 10) should be followed with reference to the Incident Response Flow Chart.

It must additionally be ensured that implemented procedures are in accordance with another adopted site documentation, such as the Environmental Management Plan, Health and Safety Management Plan and Project Unexpected Finds Protocol.

1. Identified finding by worker
2. Cease work as soon as safe to do so and move clear of the finding.
3. Do not tamper or attempt to remove the finding.
4. Contact Management immediately.
5. Site Management to delineate an exclusion or quarantine zone around the area using fencing and or appropriate barriers and signage.
6. If not already done, Site Manager is to notify the Project Manager and or Construction Manager.
7. Cover area with tarps if practicable to preserve finding.

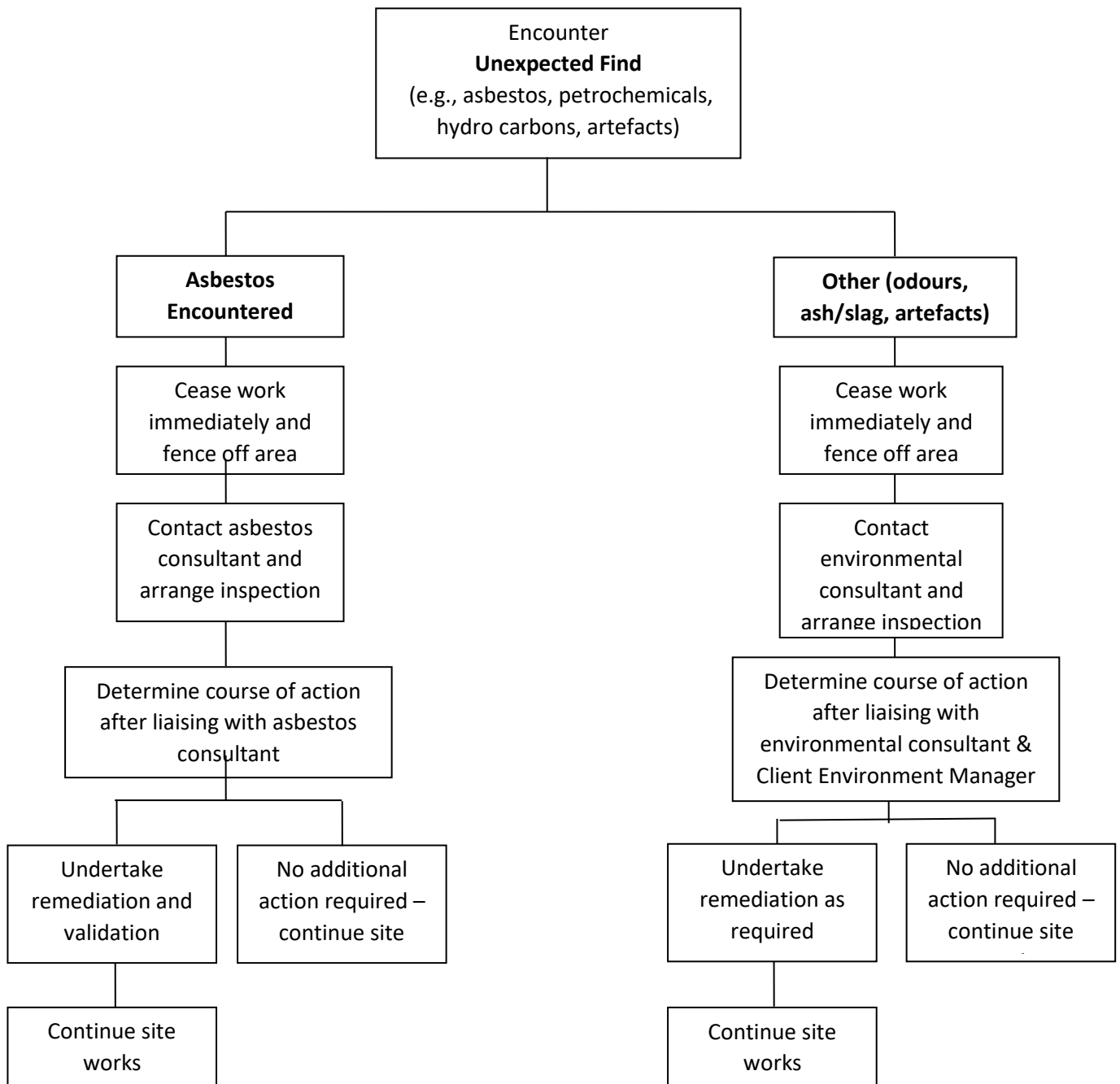
8. A suitable person (Site Manager) will initially assess the potential risk to health or the environment by the finding and assess if evacuation or emergency services need to be contacted.
9. Project Manager will arrange inspection by an external Environmental / Heritage Consultant to assess the finding and provide advice as follows:
  - Preliminary assessment of the find and need for immediate management controls.
  - What further assessment and/or remediation works are required and how such works are to be undertaken in accordance with contaminated site regulations and guidelines.
  - Preparation of a remedial action plan for large scale contamination or specification for smaller or minor volumes of material
  - Remediation works required
  - Validation works required following remediation works
10. Works will not recommence in the affected area until appropriate advice has been obtained from the consultant or suitably qualified person with approval to recommence.

## 9.21 Unexpected finds

The following control measures will be considered to protect persons from being exposed unidentified/unexpected material or substance/service which may be uncovered during the excavation process. This may include but not limited to asbestos both bonded and friable, odorous or stained hydrocarbon impacted soils and demolition wasted etc. Should an Unexpected Find be encountered, the below process should be followed. This is further referenced in the Project Unexpected Finds Protocol.

- Any unidentified/unexpected material or substance found will cause the task to be immediately stopped.
- Where unidentified services are located which are not found on service checks cause the task to be immediately stopped.
- The area is to then to be taped off and immediately HSEQ team to be informed.
- No works can recommence until:
  - The material is identified;
  - Client approves works to re-commence;
  - Disposal process is clarified and approved;
  - Tip locations for the material are approved.
- All additional work in relation to unidentified/unexpected material or substances are to be documented clearly in the site supervisor's diary and or any variations sheets signed by the client

## Unexpected finds flow chart



## Best Practice/References

- Safe Work Australia CoP for the How to Safety Remove Asbestos October 2018
- POEO Act 1997

## 9.22 Odour control

The following control measures will be considered to protect persons from being exposed unidentified/unexpected material or substance/service which may be uncovered during the excavation process.

- Implementing odour control strategies such as odour suppressants and covering stockpiles with geo textile or plastic sheeting and monitoring effectiveness of the controls.
- Odours materials will be sprayed with odour suppressant at the source during excavation or removal from a stockpile.
- Implementing dust control strategies such as dust suppression, keeping works areas damp to reduce the odour during the works.

## 9.23 Ground water contamination

Groundwater contamination can occur when three main components exist: a potential source of contamination; an aquifer as the receptor; and a pathway for transfer between the two.

One of the primary pathways for groundwater contamination is infiltration of contaminants from the land surface, through the unsaturated zone, and to the unconfined aquifer below. Shallow unconfined aquifers (including karstic, conduit and fractured rock aquifers) are particularly vulnerable to contamination, especially where the associated land use includes hazardous activities with uncontrolled contamination sources. The porosity and permeability of the unsaturated zone contributes significantly to the travel time of contaminants between the source and the groundwater. A highly porous or permeable unsaturated zone, such as karst limestone, can result in the relatively quick transfer of contaminants from the surface to groundwater. However, 'reaction' of contaminants with the soil and rock of the unsaturated zone can slow or even stop contamination reaching groundwater. The unsaturated zone can be an important consideration in groundwater quality management.

Human-induced contamination is most often referred to as either point source or diffuse source. Point sources refer to localised contamination, often centred on one or more identifiable locations.

Many industrial chemicals are in use in Australia. Leaks, spills and other releases of these chemicals pose a risk to groundwater quality.

Changing groundwater levels have the potential to cause water quality changes as a result of processes such as seawater intrusion and mobilisation of acidity and metals in sulfidic soil or rock. In some cases, these can have detrimental impacts. Such changes in groundwater levels and consequent changes in groundwater quality may result from anthropogenic processes such as groundwater pumping and climate change as well as from natural climate variability. Falling groundwater levels have resulted in the drying of some wetlands. This can oxidise acid sulfate soils, which creates acidic conditions that mobilise metals and sometimes release arsenic. Falling groundwater levels due to pumping can also result in seawater intrusion into a fresh aquifer or leakage of higher- salinity groundwater into a fresher aquifer. On the other hand, rising groundwater levels or changes in groundwater flow directions can cause flow of contaminated or poor-quality groundwater into streams and wetlands. They can also bring salts in the groundwater to the surface and cause dryland and stream salinity.

- As such ground water is to be separated during dewatering to ensure the water is not contaminated through works or by accident.

## 9.24 Light pollution

Clinically speaking, there are three main types of light pollution. These include glare, light trespass and skyglow (in addition to over-illumination and clutter).

Glare from unshielded lighting is a public-health hazard—especially the older you become. Glare light scattering in the eye can cause loss of contrast and can be temporarily blinding which can cause reduced visibility and subsequently lead to unsafe driving conditions.

Light trespass occurs when unwanted light enters one's property, for example, by shining unwanted light into a bedroom window of a person trying to sleep. As there are no night works on the Project, the risk of light trespass into nearby patient rooms is minimal.

Skyglow refers to the glow effect that can be seen in over populated areas. Skyglow is the combination of all the reflected light and upward-directed (unshielded) light escaping up into the sky (and for the most part, unused).

While shielding light can significantly reduce all three of these types of light pollution it is not always practical. For example, street lighting is required around the hospital precinct to illuminate pedestrian pathways and roads for the safety of all users.

All lighting installed as part of the Project, be it temporary or permanent, will be installed to comply with AS 4282-2019. Noting that the only lighting included in FCC's Scope of Works is the relocation of the solar lighting on Redbank Rd. As this is replacing like for like there will be negligible impact on all three types of light pollution outlined above.

## 10 Environmental Monitoring, Auditing and inspections

The environmental monitoring will be undertaken in compliance to Ford Civil EMP in addition to the audit requirements of Client and their nominated representatives to achieve zero harm to the environment. Project forms will be developed throughout the life of the project, for registering the observance and tracking of dust, noise, substances, incident management, and waste tracking logs.

Ford Civil's internal Audit program ensures that all aspects of its activities comply with the principles and requirements of its HSEQ Management System. Internal Audits are planned to be conducted and reported in accordance with Client requirements and Ford Civil's internal audit schedule. In general, audits will be conducted at half yearly intervals to assess the status of EMP implementation on larger projects. Within any particular area of the company, decisions on activities/procedures to be audited are based on the risk assessment within that area and previous audit results.

HSEQ Inspections of all work areas are to be carried out by the HSEQ team at a rate of least one inspection per month. All unsafe work practices, equipment, work areas etc. are to be documented, including corrective actions. The inspections will be completed using the 'Site HSE Inspection Checklists' (FCC-FOR-164).

Workplace inspections:

- will be conducted in consultation and involvement with workers;
- will be conducted by Project team, HSEQ team;
- will be conducted to verify and check SHEWMS control measures are being implemented in accordance with SHEWMS used on the site at the time of the inspection and are effective in controlling risks and hazards;

- will be conducted by Ford Civil and subcontractors together. Subcontractors would participate in inspections on more than just their own immediate work area;
- frequency will be determined by the HSE inspection schedule or in accordance with client or principal contractor requirements (whichever is the greater frequency). In general inspections will be conducted at the following frequency:
  - the Ford Civil site supervisory staff, as part of their daily duties will conduct daily inspections of the site under their control, (including Ford Civil subcontractor activities) and note the issues in daily site diaries.
  - weekly Site Inspections – The Ford Civil site nominated environmental representative will conduct formal weekly HSE inspections of the site by using Site HSE Inspection Checklist (FCC-FOR-164). This checklist would prevent a “tick and flick” approach. This checklist may be modified to cover site-specific activities for compliance with the EMP. Site supervisory staff will manage corrective actions arising from inspections within their areas of control. The completed checklists will be retained on site for audit purposes by Ford Civil.
  - daily prestart meetings will incorporate an environmental section.
- frequency may need to be increased according to the risks identified onsite.



#### Relevant documents:

- FCC-PRO-036-Audit Procedure
- FCC-FOR-167-Audit Schedule and Register
- FCC-FOR-164-Site HSE Inspection Checklist

## 11 Nonconformances and Corrective Actions

The non-conformances and corrective actions arising from audits / inspections and incidents will be resolved as per Audit Procedure (FCC-PRO-036) and Incident Management Procedure (FCC-PRO-034) respectively. During the audit/inspection, the auditor/inspector will review the status of previously identified corrective actions to ensure that the corrective actions are implemented effectively and if required raise an Incident Report (FCC-FOR-191).

Any nonconformances/corrective actions arising from the audits or inspections of client or statutory authorities will be captured in Ford Civil management system, same as Ford Civil audits/inspections.

The Ford Civil Project Manager or nominated representative will regularly review the Audit Register (FCC-FOR-167) and Incident Register (FCC-FOR-192) to check that actions are being completed on time. In addition to the above, where an issue is judged to be of a more serious nature, and has been identified repeatedly or constitutes an exceedance of regulatory obligations, the work on the identified operation or site will cease until remedial action is taken to eliminate the issue.

The nonconformances / corrective actions identified as a result of audits and inspections may necessitate the need to review in management review meetings.



#### Relevant documents:

- FCC-PRO-034-Incident Management Procedure
- FCC-PRO-033-Control of Nonconformities and Corrective Actions Procedure
- FCC-PRO-037-HSEQ Management System Review Procedure
- FCC-FOR-167-Audit Register

- FCC-FOR-191-Incident Report
- FCC-FOR-192-Incident Register

## 12 Project performance measurement

A process has been established for monitoring, measurement, analysis and performance evaluation the Ford Civil's Environmental management system. The progress towards achievement of the project level environmental objectives and KPIs is the main way to monitor and measure the environmental performance.

The project performance reports will be prepared by the Project Manager on a monthly basis and the outcomes are included into the business reporting processes.

### Relevant documents:

- FCC-PRO-031 - Monitoring, measuring and Reporting procedure
- FCC-FOR-200 – Corporate HSEQ Performance Report
- FCC-FOR-201-HSEQ Statistics Report
- FCC-FOR-203-Project Progress Report

## 13 Project documented information management

The documented information management process has been established to ensure that project documents are maintained to meet financial, contractual and legislative requirements and that all documents are reviewed and approved by authorised personnel, prior to release.

The project manager is authorised to approve project specific documentation. Project folders have been established to maintain project documentation / records.

All printed copies of documents held on project sites are considered uncontrolled and valid only on the day of printing. Project team is responsible for all site document control and will inform the HSEQ team of any changes to site documentation.

The Ford Civil is responsible to adequately protect all documented information from loss of confidentiality, improper use or loss of integrity.

All documented information (including the documented information of external origin) is identified and controlled to address the business, project and legal requirements.

### Relevant documents:

- FCC-FOR-004-Documents and Data Management Procedure

## 14 Glossary / Abbreviation

<i>EMP</i>	(Project) Environmental Management Plan
<i>EPA</i>	Environmental Protection Authority
<i>EPL</i>	Environmental Protection Licence
<i>FCC</i>	Ford Civil Contracting Pty Ltd.
<i>HIRAC</i>	Hazard Identification, Risk Assessment and Control
<i>HSEQ</i>	Health & Safety, Environmental and Quality
<i>HSEQ Management System</i>	Integrated Management System (Quality, Health & Safety, Environmental Management System)
<i>NC</i>	Non-Conformity
<i>NCR</i>	Non-conformance Report
<i>Premises</i>	Boundary of works prescribed under the contract
<i>SDS</i>	Safety Data Sheet
<i>SEPP</i>	State Environmental Planning Policies
<i>SHEWMS</i>	Safety, Health and Environmental Method Statement
<i>TMP</i>	Traffic Management Plan



## 15 List of Attachments

- 1 Environmental Policy
- 2 Project Induction
- 3 HSEQ Risk Register (Environmental)
- 4 Site Locality / Layout
- 5 Erosion & Sediment Control Plans
- 6 Disruption Notice Templates (SCHN & WSLHD)
- 7 HI/SCHN Complaints Management Procedure

## 15.1 Attachment 1: Environmental Policy



REMEDICATION  
INFRASTRUCTURE  
ROADWORKS  
BULK EARTHWORKS  
ENVIRONMENTAL  
LANDSCAPING

FCC-POL-003  
Rev. 1  
10 / 01 / 2022

### Environmental Policy

Ford Civil recognises that environmental conservation is one of the important issues of our community. We recognise the importance of maintaining a high standard of environmental care in conducting our activities. From design and supply, installation, construction, commissioning and maintenance.

Ford Civil will:

- Ensure ongoing compliance with all relevant statutory and other obligations, standards, specifications and codes of practice as well as the requirements of ISO 14001 standard
- Set objectives and targets and ensure that the resources needed to maintain and continually improve the environmental management system are available
- Direct and support persons to contribute to the effectiveness of the environmental management system, as well as other relevant management roles to demonstrate their leadership as it applies to their areas of responsibility
- Manage our diverse activities in preventing or minimising pollution and impacts on visual amenity, air, water, land, flora, fauna and cultural and heritage values
- Strive to improve resource consumption efficiency and minimising waste generation in our services, also implement recycling of materials.
- Enhance organisation's capability by competent, empowered and engaged employees at all levels through the company
- Consult and communicate with employees and subcontractors and other relevant interested parties in matters relating to the quality, health, safety and environment
- Identify, report, investigate and resolve all non-conformances and incidents and take appropriate action and place new controls to prevent recurrence

To comply with our policy, our staff will receive adequate induction and training to enable them to follow our systems and procedures.

This policy will apply to all employees and contractors and is reviewed periodically to ensure it remains relevant to the operations and activities of Ford Civil.



Alan Gordon  
Chief Executive Officer

EXPERIENCE YOU CAN TRUST

P 02 9597 4122  
F 02 9597 4966

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info@fordcivil.com.au

ABN: 24 002 542 814  
PO BOX 26 Arncliffe NSW, 2205

# Project Environmental Management Plan

## 15.2 Attachment 2: Induction Document

### Project Induction information

<b>Project Name:</b>	CHW Stage 2 Enabling Works			<b>Project No.:</b>	WENAB2		
<b>Personal Contact Details</b> <span style="float: right;"><i>PLEASE PRINT CLEARLY</i></span>							
FULL NAME							
POSITION EMPLOYED AS							
COMPANY NAME					DATE OF BIRTH		
HOME ADDRESS	SUBURB				POST CODE		
MAILING ADDRESS	SUBURB				POST CODE		
MOBILE NUMBER							
HOME NUMBER							
<b>IN EVENT OF AN EMERGENCY</b>	CONTACT NAME: (not wife /son/daughter - actual name)						
	RELATIONSHIP:						
	CONTACT NUMBERS:		(M)				
			(Other)				
DATE COMMENCED:							
Do you identify with being Torres Strait Islander or Aboriginal <input type="checkbox"/> Yes <input type="checkbox"/> No							
<b>TRAINING (attach copies of certificates to this form)</b>							
WHS General Construction Induction No:					State of Issue:		
					Date of Issue:		
<b>ID proof number</b>							
<b>Competency</b>	<b>Expiry Date</b>	<b>Competency</b>	<b>Expiry Date</b>				
Confined Space		Apply First Aid					
High Risk Work Licence (circle competency: LF, DG, RB, RI, RA, SB, SI, SA, Crane: ____, Hoist: ____)		Rail Industry Safety Induction					
		Driver Licence – Class: ____ Number: _____					
Traffic Control (SafeWork NSW Ticket)		Other					
<b>Competency</b>	<b>Issue Date</b>	<b>Competency</b>	<b>Issue Date</b>				
Manual Handling		Operator (circle: LE, LB, LL, LS)					
Electrical Test & Tag		OHS Committee training (HSR)					
<b>Other</b>							

## Project Induction information



Please answer the following questions and tick the appropriate box. Be sure to answer each question fully (If yes, please explain as appropriate)				YES	NO
<b>GENERAL HEALTH &amp; FITNESS FOR WORK (tick as appropriate);</b>					
Do you suffer from any health (physical or psychological) condition or disability that, either currently or in the foreseeable future, is likely to be exacerbated by the proposed job requirements or affect your physical / psychological ability to undertake the tasks required of the proposed job?				YES	NO
Details:					
Diabetes?					
Blood Pressure? (HIGH / LOW) Treated with medication (YES / NO)					
Asthma or Other respiratory illness? If Other please state:					
Allergies? If YES please state to what:					
Epilepsy?					
Do you or have you ever suffered from dizziness / light headedness / fainting spells?					
Claustrophobia? (Have a fear of small or enclosed spaces)					
Have you <b>EVER</b> received or are you currently receiving a Workers Compensation Claim payment?					
If yes, please provide basic details such as; Date of Injury, Type of Injury sustained, severity of injury, current medical status of injury, details of any ongoing rehabilitative or medical treatment, insurance company					
If YES to <b>ANY</b> of the above have you advised your employing company?					
<b>WORK RIGHTS IN AUSTRALIA</b>					
Are you a citizen or permanent resident of Australia? Please circle as appropriate				YES	NO
If No; State the TYPE (include VISA category e.g. 417, 419, 457 etc) and expiry date of Visa, Attach a copy of your passport and visa to this form		Tourist	Working	Sponsorship	Other
					Expires
<b>DECLARATION</b>					
I, (the Inductee / Trainee) hereby acknowledge that I have been taken through the project/ site Induction and have fully understood all the information that was presented to me. I have had my questions regarding Quality, Environmental or Work Health and Safety policies, procedures and practices as described in the induction materials answered. I have been provided access to copies of current company policies and or procedures. I have reviewed a Safety, health and Environmental Work Method Statement and understand its contents.					
INDUCTEE'S SIGNATURE				DATE OF INDUCTION	
I (the Inductor / Trainer) declare this candidate has fully completed the Induction and is considered fully competent in the English Language, sufficient for safe work and instruction to be carried out as demonstrated during the Induction.					
TRAINER'S NAME (PRINT)		TRAINER'S SIGNATURE		DATE OF INDUCTION	

# Project Environmental Management Plan

## 15.3 Attachment 3: Risk Register (Environmental)

### 15.3.1 Risk Matrix

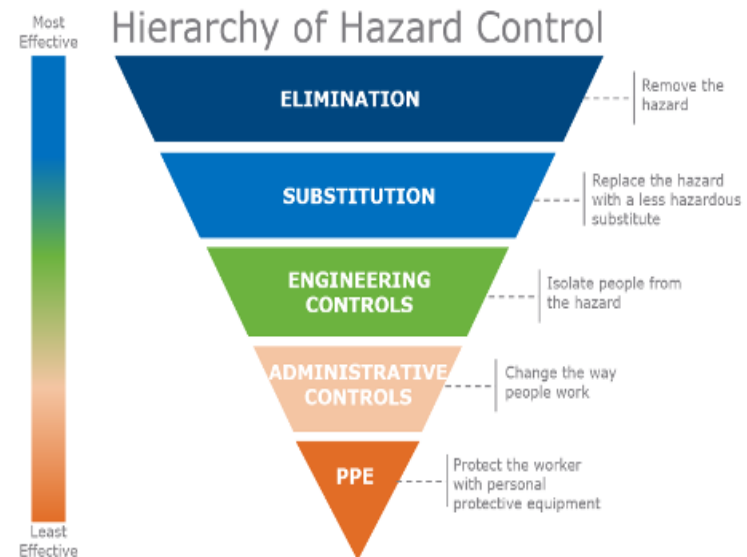
Consequence (Impact) Table				
Impact Band	Health & Safety	Environment & Heritage	Plant Damage	Business Reputation & Financial
<b>Substantial - (5)</b>	Fatal Incident	Permanent widespread ecological damage	Machine unrepairable	International/national negative media coverage. Serious impact on the business. Loss of business from key sector. >\$1m lost
<b>Major - (4)</b>	Permanent Injury: Damage, which permanently alters a person's future (e.g. quadriplegia, paraplegia, amputation of a limb)	Heavy ecological damage, costly restoration	Major damage - > 5 days to return to service	Sustained national negative media coverage. Major impact on the business. Loss of long-term key client. \$50k-\$1m lost
<b>Moderate - (3)</b>	Lost Time Injury: Damage, which temporarily alters a person's future	Major but recoverable ecological damage	Serious damage - < 5 days to return to service	Regional/short negative media coverage. Some impact on the business. Loss of client/project. \$50k-\$250k lost.
<b>Minor - (2)</b>	Medical Treatment: Damage, which temporarily inconveniences a person	Limited but medium term damage	Minor damage - repaired within the same day	Local negative media coverage. Minor impact on the business. Site or Project problem. \$10k - \$50k lost.
<b>Negligible - (1)</b>	First Aid Treatment: Actual injury which requires no treatment or simple first aid	Short term damage	Negligible damage - no machine downtime	Brief local negative or no media coverage. Community complaints and dissatisfaction. <\$10k lost.

Probability (Likelihood) Table			
Probability Band	Description		
<b>Almost Certain - (E)</b>	The threat can be expected to occur 75% - 99%	Common / Frequent Occurrence	<b>More than 1 event per month</b>
<b>Likely - (D)</b>	The threat will quite commonly occur 50% - 75%	Is known to occur or "It has happened regularly"	<b>More than 1 event per year</b>
<b>Possible - (C)</b>	The threat may occasionally occur 25% - 50%	Could occur or "I've heard of it happening"	<b>1 event per 1 - 10 years</b>
<b>Unlikely - (B)</b>	The threat could infrequently occur 10% - 25%	Not likely to occur very often	<b>1 event per 10 - 100 years</b>
<b>Rare - (A)</b>	The threat may occur in exceptional circumstances 0% - 10%	Conceivable but only in exceptional circumstances	<b>Less than 1 event per 100 years</b>

Consequence (Impact) Table						
Risk Matrix		Negligible (1)	Minor (2)	Moderate (3)	Major (4)	Substantial (5)
Probability (Likelihood)	<b>Almost Certain (E)</b>	Low (5)	Medium (10)	Very High (18)	Extreme (23)	Extreme (25)
	<b>Likely (D)</b>	Low (4)	Medium (9)	Very High (17)	Very High (20)	Extreme (24)
	<b>Possible (C)</b>	Low (3)	Medium (8)	High (13)	Very High (19)	Very High (22)
	<b>Unlikely (B)</b>	Low (2)	Low (7)	High (12)	High (15)	Very High (21)
	<b>Rare (A)</b>	Low (1)	Low (6)	Medium (11)	High (14)	High (16)

Note:

Any task that after controls in place is the High scale (12-16) the project manager must be consulted. If a resultant score is in Very High scale (17-22) "Works should not proceed without further consultation and sign off" by Chief Operating Officer or above. If a resultant score is in Extreme scale (23-25), "Works must not proceed until the risk is reduced".



# Project Environmental Management Plan



## 15.3.2 Environmental Risk Register

Item No.	ASPECT / ACTIVITY DESCRIPTION	Env. Initial Risk	Env. Score	Type of impact or Hazard	PREVENTATIVE ACTIONS Detailed controls are listed in the appropriate SHEWMS for the activity	Env. Post Risk	Env. Score	Action By:	Action When
Abbreviations: P.M. – Project Manager, Sup. – Supervisor									
<b>1</b>	<b>Site Establishment</b>								
	a) Site sheds, containers and compound set up.	B3	12	Dust generation  Waste generation  Fuel & chemical spills	<ul style="list-style-type: none"> <li>Access roads to have dust suppression established – water carts, covering of exposed ground with granular material, etc.</li> <li>Sediment controls to be installed, where required, to prevent material leaving the site.</li> <li>Waste bins to be provided for disposal of waste and emptied regularly.</li> <li>Bunded storage areas to be provided for fuels, chemicals and spill kits available within the compound.</li> <li>Chemicals &amp; fuels to be stored in accordance with SDS.</li> </ul>	B2	7	Sup  Sup.  Sup.  Sup.	Ongoing  Ongoing  Ongoing  Ongoing
	b) Roads and footpaths	C2	8	Material from site being tracked out	<ul style="list-style-type: none"> <li>Roads and footpaths to be kept clean and free from obstructions at all times.</li> <li>Rumble grids used as applicable.</li> <li>Use of sweeper trucks in the event of any material being tracked from site onto aprons, airside roads, roads or footpaths.</li> </ul>	B2	7	Sup.  Sup.	Ongoing  Ongoing
	c) Vehicle movements to and from site	C2	8	Traffic congestion	<ul style="list-style-type: none"> <li>Access routes as per approved TMPs.</li> <li>Vehicle movement and traffic management plans to conform to RMS “Traffic controls at work sites” manual and ensure only certified traffic controllers are used on roadways.</li> <li>Loads on vehicles and plant to be within authority legal weight limits.</li> <li>Vehicles and plant to travel only on approved roadways, loads secured and covered.</li> <li>Compliance with Heavy Vehicle National Legislation (HVNL).</li> </ul>	B2	7	Sup. Traffic Control  Driver	Ongoing Ongoing  Ongoing
<b>2</b>	<b>Services Investigation</b>								
	a) Services location & pot holing.	C2	8	Disruption to client operations/ leaseholders due to damage to existing services	<ul style="list-style-type: none"> <li>Notification to service authorities and attendance by patrolmen for works around major services.</li> <li>Utilisation of non-destructive digging equipment.</li> <li>Create exclusion zones during works to prevent incidental damage.</li> <li>Notification to lease/stakeholders of works sequence &amp; programme.</li> </ul>	B2	7	Sup.  Sup. Sup. P.M.	Pre-start  Ongoing Ongoing Pre-start

# Project Environmental Management Plan



Item No.	ASPECT / ACTIVITY DESCRIPTION	Env. Initial Risk	Env. Score	Type of impact or Hazard	PREVENTATIVE ACTIONS Detailed controls are listed in the appropriate SHEWMS for the activity	Env. Post Risk	Env. Score	Action By:	Action When
		C4	19	Damage to flora/heritage items	<ul style="list-style-type: none"> <li>Develop methodologies for works around significant heritage items i.e. fig trees</li> <li>Utilisation of non-destructive digging equipment.</li> <li>Create exclusion zones during works to prevent incidental damage.</li> </ul>	B2	7	P.M. Sup. Sup.	Pre-start Ongoing Ongoing
<b>3</b>	<b>Installation of in-ground services &amp; concrete footings</b>								
	a) Excavation	D3	17	Visual pollution Noise and Vibration Air Quality	<ul style="list-style-type: none"> <li>Sedimentation controls to be in place and checked daily.</li> <li>All stockpiles are to be stabilised or removed as soon as possible</li> <li>Work to conform to the Code of Practice for Excavation and other statutory documents</li> <li>All truck movements are to occur as per the traffic management plan.</li> <li>Dewatering practices and waste disposal to conform to site Dewatering Management Plan.</li> </ul>	B2	7	Sup. Sup. Sup.	Weekly Ongoing Ongoing
	b) Dewatering	D2	9	Groundwater	<ul style="list-style-type: none"> <li>Dewatering only to be conducted in accordance with a plan approved by Client as required.</li> <li>Sediment controls to be in place</li> <li>No water is to leave the work zone and returned to the ground as soon as possible</li> </ul>	B2	7	Sup. Sup. Sup.	Ongoing Ongoing As req.
		C4	19	Damage to flora/heritage items	<ul style="list-style-type: none"> <li>Develop methodologies for works around significant heritage items i.e. fig trees</li> <li>Create exclusion zones during works to prevent incidental damage.</li> <li>Use alternate footing design or duct route.</li> <li>No trees to be trimmed or removed without referencing the arborist assessment and approval from Client as necessary</li> </ul>	B2	7	P.M. Sup. Sup.	Pre-start Ongoing Ongoing
<b>4</b>	<b>Mobile Plant and Equipment</b>								
	Plant and equipment	D2	9	Noise and Vibration Air Quality	<ul style="list-style-type: none"> <li>The maintenance and use of major plant must be in accordance with the manufacturer's specifications and the plant must be suitable for purpose, safe and fit for use.</li> <li>Respite periods for noisy works to be observed around sensitive receivers.</li> <li>Use silenced equipment where available.</li> </ul>	B2	7	Owner Sup.	Ongoing Ongoing

# Project Environmental Management Plan



Item No.	ASPECT / ACTIVITY DESCRIPTION	Env. Initial Risk	Env. Score	Type of impact or Hazard	PREVENTATIVE ACTIONS Detailed controls are listed in the appropriate SHEWMS for the activity	Env. Post Risk	Env. Score	Action By:	Action When
<b>5</b>	<b>Hazardous Substances</b>								
	Chemical Substances and Hazardous Materials	D2	9	Chemicals	<ul style="list-style-type: none"> <li>A detailed SHEWMS for the storage, handling. Only approved materials to be used on sites after the Safety Data Sheet and Safety Health &amp; Environmental Work Method Statements have been supplied.</li> <li>Particular attention should be paid to the clean-up and disposal procedures of chemicals to be used and the Personal Protective Equipment required.</li> <li>Transport only according to the Hazardous Material Standards, Regulations and Codes.</li> <li>Where plant is being refuelled on site, the environment must be protected as outlined in the Site Environmental Management Plan. A spill kit must be in place and a spill procedure must be developed and all chemicals and fuels to be kept on site banded to prevent leaching or spills.</li> </ul>	B2	7	Sup.	Start of job
		B3	12	Asbestos impacted soils or bonded pieces found in work areas	<ul style="list-style-type: none"> <li>Use of Unexpected finds procedure.</li> <li>Only trained personnel are to work in the area of known asbestos contamination.</li> <li>Signage to be installed warning of asbestos.</li> <li>All material to be removed from site is to go to approved and licensed asbestos receiver centres, all loads are to be itemised and copies of dockets are to remain on site.</li> <li>Work cover is to be notified if Asbestos is found on site.</li> <li>If material is to be buried on site, hygienist report must nominate area.</li> </ul>	B2	7	Sup. Sup.	Ongoing Ongoing
				Transport of materials	<ul style="list-style-type: none"> <li>All transport of materials to and from site must be undertaken by licenced contractors to licenced premises (tip s and alike)</li> <li>Compliance with HVNL</li> </ul>			Sup.	Ongoing
<b>6</b>	<b>Fire and Explosion</b>								
	Fire and Explosion from work activities	D2	9	Fire / Explosion	<ul style="list-style-type: none"> <li>Firefighting equipment to be provided and positioned as per the requirements of the safety plan.</li> <li>Emergency procedures as per site induction.</li> <li>Fuels, paints etc. to be stored and disposed of according to the Environment Management Plan.</li> <li>Rubbish to be removed from site on a daily basis.</li> </ul>	A2	6	Sup. Sup.	Ongoing Ongoing
								All Staff	As req.
<b>7</b>	<b>Excavation</b>								



# Project Environmental Management Plan

Item No.	ASPECT / ACTIVITY DESCRIPTION	Env. Initial Risk	Env. Score	Type of impact or Hazard	PREVENTATIVE ACTIONS  Detailed controls are listed in the appropriate SHEWMS for the activity	Env. Post Risk	Env. Score	Action By:	Action When
	Excavation / moving plant and equipment	D2	9	Visual pollution Noise and Vibration Air Quality	<ul style="list-style-type: none"> <li>Sedimentation controls to be in place and checked weekly</li> <li>All stockpiles are to be firstly placed on an impervious plastic layer and immediately covered. When time for removal arrives, covering is to be removed and load out undertaken in accordance with safe practice.</li> <li>Work to conform to the Code of Practice for Excavation and other statutory documents</li> <li>All truck movements are to occur as per the traffic management plan.</li> </ul>	B2	7	Sup. Sup.	Weekly Ongoing
8	<b>Waste</b>								
	Wastes generated by activities	D2	9	Air, Water, Land	<ul style="list-style-type: none"> <li>Environmental controls for air quality, runoff and dust suppression are as per Operational Controls prescribed in EMP</li> <li>Refuelling, spills, and excess waste materials which may lead to pollution to be identified and controlled and disposed of as per Environment Management Plan.</li> <li>Regular clean-up of works area.</li> <li>Waste bins to be provided for disposal of waste and emptied regularly.</li> <li>Waste classification of excavated soils conducted by an accredited environmental consultant and approved by Client as required, prior to disposal.</li> </ul>	B2	7	Sup.  Sup.	Ongoing  Ongoing
9	<b>Concrete</b>								
	Concrete Wash out	D3	17	Waste generation Water / land contamination	<ul style="list-style-type: none"> <li>Concrete trucks / pumps to be washed out at nominated point.</li> <li>Wash out water is to sit in wash out area to evaporate with environmental controls in place.</li> <li>Concrete is to be allowed to go hard before disposal off site, this material is to be sent to be recycled.</li> <li>No not use reinforcement thrown into the concrete as a lifting point. The collection receipt</li> <li>Collection point is to be emptied on a regular bases to ensure that material does not escape the containment area.</li> </ul>	B2	7	Sup. Sup.  Sup. / P.M.  Sup.	Ongoing Ongoing  As req.  On going  As req.

# Project Environmental Management Plan



## 15.4 Attachment 4 – Site Locality / Layout

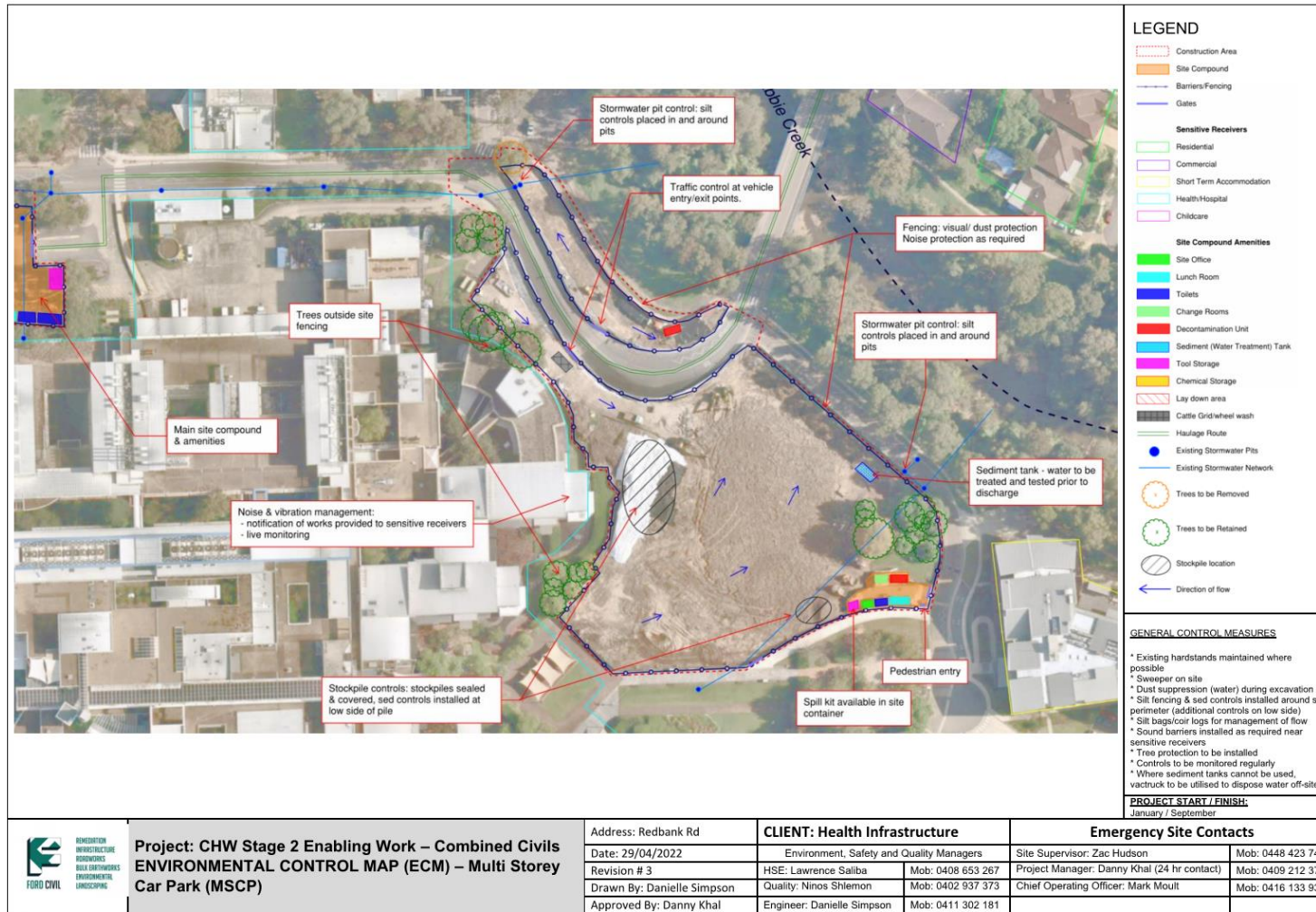




# Project Environmental Management Plan



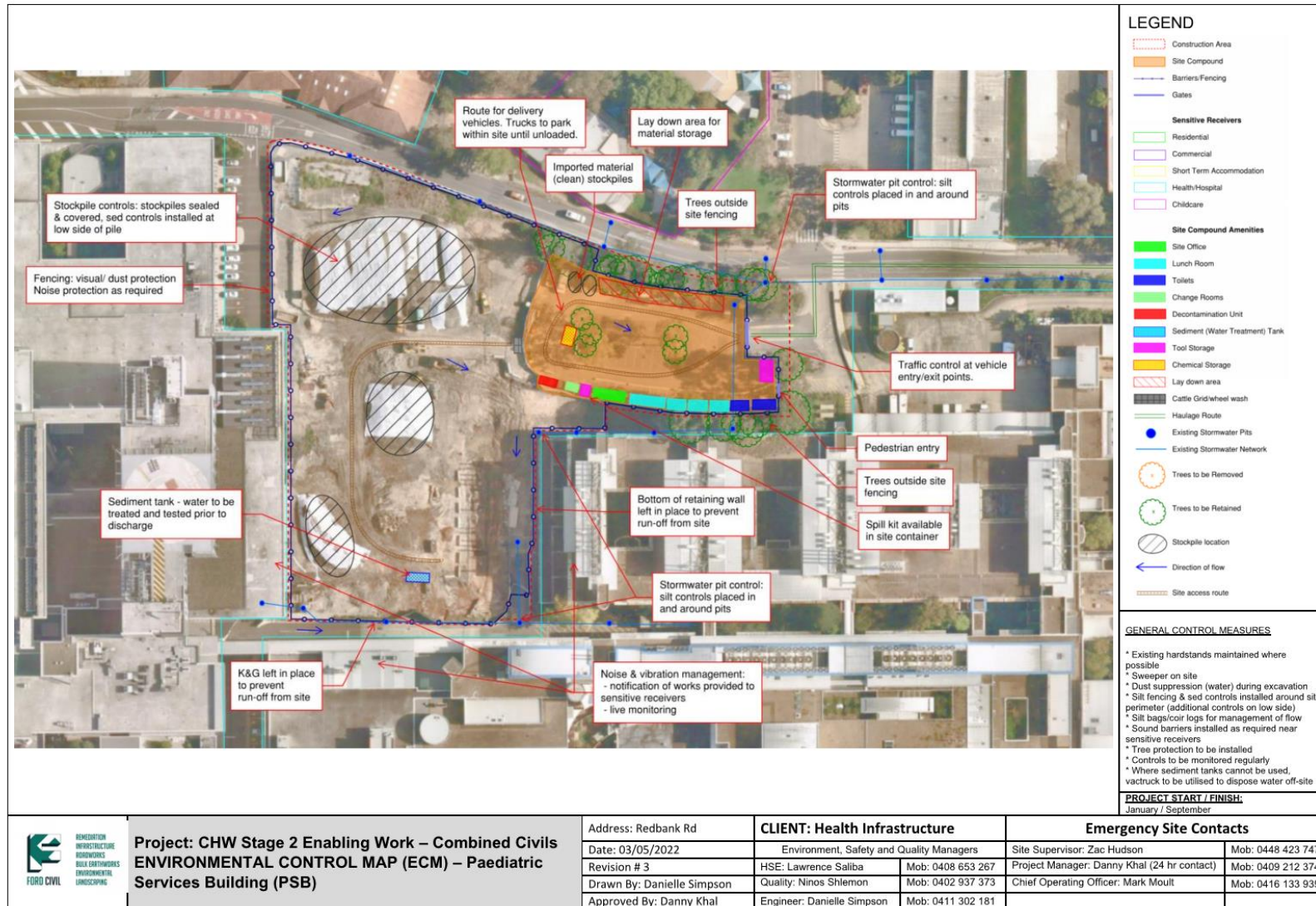
## 15.5 Attachment 5 – Erosion & Sediment Control Plans



Form No: FCC-FOR-180, Rev 0

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# Project Environmental Management Plan



Form No: FCC-FOR-180, Rev 0

Page 1 of 1



15.6 Attachment 6 – Disruption Notice Templates (SCHN & WSLHD)



Disruption Notice – XX			
<b>Important</b> <i>Where the works involves a Hospital Department being disrupted in any way, notwithstanding the situation where there is an emergency, a minimum of <b>10 days</b>’ notice is required so that appropriate arrangements may be made. Other shut-downs or disruptions, not causing inconvenience to the users, may be able to be accommodated sooner. Lacks of sufficient forward notice may result in the Contractor having to carry out works outside of hours if it is urgent and may result in delays to works.</i>			
Disruption notice number #DN-FCC0XX		Name of Project – Westmead Children’s Hospital Stage 2 Enabling Works	
Contractor – Ford Civil Contracting (FCC)			
Project Manager and Project Engineers		Project Contact	
FCC – Danny Khal 0409 212 374 FCC – Danielle Simpson 0411 302 181 FCC – Adam Khan 0424 217 524		PWC – Ahmed Jaradat 0405 113 054 PWC – Tom Morgan 0481 276 177	
Issue date #	Proposed Start Date	Duration of works	Proposed End Date
<b>Summary of work:</b>			
Impacts to access & pedestrian movements			

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1



DN-FCC0XX Rev. No.: 1

2

# Project Environmental Management Plan

Where are the works occurring (specify) ref to maps/floor plans				
Location		Infrastructure	Number(s)	Additional request/requirement ie access to keys, BMC assistance etc.
Building(s)		Plant room (add number(s)) #		
Block(s)		Comms room #		
Level(s)		Mechanical board		
Ward(s)		Distribution board or Substation		
Room(s)		Lifts		
Carpark(s)		Service Tunnel		
Loading Dock		Smoke detectors isolation		
Other				

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Details of Works Undertaken	
Select one of more of the below criteria (highlight and specify)	Details
<input type="checkbox"/> Work is being undertaken on, or in close proximity to High Voltage or Essential Electrical Infrastructure.	
<input type="checkbox"/> Work is being undertaken on or, in close proximity to electrical/power infrastructure (non-essential supply) low voltage.	
<input type="checkbox"/> Work involves medical gas/ other gas infrastructure.	
<input type="checkbox"/> Critical HVAC/Air Handling or other Mechanical Systems or Infrastructure.	
<input checked="" type="checkbox"/> Work involves hydraulic/ water supply or drainage systems.	
<input checked="" type="checkbox"/> Works are taking place in high visibility of the public and or in-patient areas.	
<input checked="" type="checkbox"/> Works will impact or affect emergency access or egress routes.	
<input checked="" type="checkbox"/> Works may generate dust and/or require preparation of an infection control plan (as per AHFG).	
<input checked="" type="checkbox"/> Works will cause noise and/ or vibration that may cause disruption to surrounding users.	
<input type="checkbox"/> Works take place after hours [1900-0700] or on weekends.	

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# Project Environmental Management Plan

Methodology/ Staging				
Action/ Task	Dates	Times	Notes	
1				
2				
3				
4				
5				
6				

Key issues, Risks and Mitigation						
Risk No.	Risk Title	Mitigating Actions	Likelihood	Impact	End Date	Owner
1		•	Possible	Low		
2		•	Likely	Low		
3		•	Likely	Low		
4		•	Likely	Low		
5		•	Likely	Low		
6		•	Likely	Low		

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CHW Representatives	Name	Signature	Date
Disruption Coordinator	Larnie Phipps		
Fire Safety Manager	Joe Tizzone		
Projects Engineer	Scott Massey		
Mechanical Engineer	Tuki Hanxhiu		
Electrical Engineer	Ash Bruce		
Chief Engineer	Adam Macbeth		
Corporate Services Manager	Marny Thomas		
Director Finance and Corporate Services	Sayeed Zia		
Director Redevelopment	Tim Hoffmann		
Executive Director Clinical Operations	Joanne Ging		
Chief Executive	Cathryn Cox		

*\*SCHN DN coordinator can confirm which CHW representatives are to be included\**

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# Project Environmental Management Plan

Disruption Notice – XX			
<b>Important</b> <i>Where the works involve a Hospital Department being disrupted in any way, notwithstanding the situation where there is an emergency, a minimum of <b>10 days</b> notice is required so that appropriate arrangements may be made. Other shut-downs or disruptions, not causing inconvenience to the users, may be able to be accommodated sooner. Lack of sufficient forward notice may result in the Contractor having to carry out works outside of hours if it is urgent and may result in delays to works.</i>			
Disruption notice number #DN-FCC0XX		Name of Project – Westmead Children’s Hospital Stage 2 Enabling Works	
Contractor – Ford Civil Contracting (FCC)			
Project Manager and Project Engineers		Project Contact	
FCC – Danny Khal 0409 212 374		PWC – Ahmed Jaradat 0405 113 054	
FCC – Danielle Simpson 0411 302 181		PWC – Tom Morgan 0481 276 177	
FCC – Adam Khan 0424 217 524			
Issue date #	Proposed Start Date	Duration of works	Proposed End Date
	DATE		DATE
Summary of work			
Impacts to access & pedestrian movements			

DN-FCC0XX

1

Where are the works occurring (specify) ref to maps/floor plans				
Location	Infrastructure	Number(s)	Additional request/requirement i.e. access to keys, BMC assistance etc.	
Building(s)	Plant room (add number(s)) #			
Block(s)	Comms room #			
Level(s)	Mechanical board			
Ward(s)	Distribution board or Substation			
Room(s)	Lifts			
Carpark(s)	Service Tunnel			
Loading Dock	Smoke detectors isolation			
Other				

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2



# Project Environmental Management Plan

Details of Works Undertaken	
Select one of more of the below criteria (highlight and specify)	Details
	Work is being undertaken on, or in close proximity to, High Voltage or Essential Electrical Infrastructure.
	Work is being undertaken on or, in close proximity to, electrical/power infrastructure (non-essential supply) low voltage.
	Work involves medical gas/other gas infrastructure.
	Critical HVAC/Air Handling or other Mechanical Systems or Infrastructure.
x	Work involves hydraulic/water supply or drainage systems.
x	Involves working with asbestos contaminated material or other hazardous materials in public view.
x	Works are taking place in high visibility of the public and/or in patient areas.
x	Works will impact or affect emergency access or egress routes.
	Works require the use of a crane/helipad or will disrupt helicopter flight paths.
x	Works may generate dust and/or require preparation of an infection control plan (as per AHFG).
x	Works will cause noise and/or vibration that may cause disruption to surrounding users.
	Works/site logistics impact vehicle movements/pedestrian routes/parking bays/require use of loading docks.
	Works will interface with other construction activity during project and will require coordination.
	Works take place after hours [1900-0700] or on weekends.

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3

Methodology/ Staging			
Action/ Task	Dates	Times	Notes
1			
2			
3			
4			
5			
6			

DN-FCC0XX

4

Communication Protocol – FOR OFFICE USE		
Action	Who	By When

Key issues, Risks and Mitigation						
Risk No.	Risk Title	Mitigating Actions	Likelihood	Impact	End Date	Owner
1		<ul style="list-style-type: none"><li></li></ul>	Possible	Low		
2		<ul style="list-style-type: none"><li></li></ul>	Likely	Low		
3		<ul style="list-style-type: none"><li></li></ul>	Likely	Low		
4		<ul style="list-style-type: none"><li></li></ul>	Likely	Low		
5		<ul style="list-style-type: none"><li></li></ul>	Likely	Low		
6		<ul style="list-style-type: none"><li></li></ul>	Likely	Low		

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Comments and Conditions of Approval – FOR OFFICE USE				
Comment by	Organisation	Comment	Owner	Date To Be Actioned

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# Project Environmental Management Plan

Review Representatives profile Westmead	Name	Notes	Date
Security	Andrew Moore		
General Services			
Work Health Safety	Angus Rennie		
Infection Control and Prevention Unit			
Nursing – Deputy Director of Nursing	Kylee McCauley		
Manager Telecommunications Services	Karen Edwards		
Fire Manager	Colin Anlezark		
ITS	Mark Bolst		
Communications			
Executive working group	Name	Signature (can be electronic)	Date
Director Corporate Services	Renata Melan		
A/Director of Nursing/Disaster Controller	Veronica Croome		
A/Associate Director Westmead Redevelopment	Robyn Campbell		
A/General Manager Westmead and Auburn Hospitals	Jenelle Matic		

## 15.7 HI/SCHN Complaints Management Procedure

### Complaints process

A Complaints and Enquiries Procedure has been developed.

Health Infrastructure and/or Sydney Children's Hospital Network will acknowledge enquiries and complaints in an appropriate and timely manner (usually within 24 hours) so that stakeholders and the community know their concerns are being considered and mitigated where possible.

This demonstrates our commitment to working with the community to manage the impact of The Children's Hospital at Westmead Stage 2 Redevelopment.

Throughout construction, Health Infrastructure and the Sydney Children's Hospital Network (and its Contractors) will have contact with multiple and varied internal and external stakeholders. Complaints received and responded to will be managed in accordance with complaint guidelines and procedures unless otherwise determined by the Project Director.

There are a number of complaint or information channels available as outlined below. These channels will be used in all footers on external facing communications.

### Complaints channels

#### 1. Telephone Contacts

A toll-free information line is to be available from Monday to Friday during construction hours to provide information as well as complaints and feedback. This line is monitored by a suitably staff who refer calls to relevant members as required.

In the case of an emergency, the relevant Contractor's team will be notified immediately 24-hours a day, seven days a week.

Calls that are not directly related to contractor activities will be triaged to HI and other stakeholders where appropriate. If a call is received in error by the relevant contractor, sufficient contact details of the caller should at a minimum, be recorded and emailed through to HI-kids@health.nsw.gov.au for response.

#### 2 Email and written contacts

While contractors may have their own general enquiries, procurement, employment or other email addresses, the Project phone number (xxx) and general email (HI-kids@health.nsw.gov.au) will be published on all external communications. Emails will be acknowledged within 24 hours, and during business hours only.

Health Infrastructure and others may forward community and stakeholder emails, received via their own channels, relating to the contractors' work, through to the nominated email.

#### 3 Project Website

A project website (<https://westmeadkidsredevelopment.health.nsw.gov.au>) has been established and will provide the community with up-to-date information on construction activities.

### Recording complaints in the stakeholder database

All complaints and representations, with any stakeholder will be recorded in a register.

All contact entries will include the following information (where available):

- The nature of the complaint, including the event or activity which is the basis of the complaint
- The response provided to the complainant
- The corrective action or further environmental actions taken.

The complaints register will be made available to the Department when requested.

## 16 List of Appendices

- A. Construction Traffic & Pedestrian Management Sub Plan (CTPMSP)
- B. Construction Noise & Vibration Management Sub Plan (CNVMSP)
- C. Construction Waste Management Sub Plan (CWMSP)
- D. Construction Soil & Water Management Sub Plan (CSWMSP)
- E. Flood Emergency Response Sub Plan (FERSP)