

ENVIRONMENTAL MANAGEMENT PLAN

Project Details

Project Name: Chau Chak Wing Museum

Project Number:

Project Location: F21 Chau Chak Wing Museum, Sydney University, University Avenue, Camperdown Campus

Client: University of Sydney

Senior Project Manager: Branko Mihaljevic

Date work is to commence (approx.): 15/04/2018

Estimated duration of work: 23 Months

Name of principal contractor: FDC Construction

Company address: 22-24 Junction Street Forest Lodge

ABN: 72608609427

Approvals

Senior Project Manager: Branko Mihaljevic **Signature:** **Date:**

General Manager: Sean Gibbeson **Signature:** **Date:**

Divisional IMS Manager: Joe Abraham **Signature:** **Date:**

Distribution: Client, Project Manager, Site Manager, Subcontractors

Management Plan Revision: Revision A – Project start up

Rev Date	REVISION DESCRIPTION	PM's INITIALS (acceptance of changes)
9/04/18	Revision A – Project start up	BM
06/06/18	Revision B – CC Amendments	BM
29/06/18	Revision C – Updated as per IEA#1	BM
27/07/18	Revision D – Updated as per Sustainability Comments	BM
19/09/18	Revision E – Updated as per IEA#2	BM

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1 Overview

1.1 Project Scope

Construction of a Museum at the University of Sydney. The building is a 6 level building with 7,740 sqm of gross floor area comprising of gallery space, education areas, research areas, collection storage space, workshop areas, offices study rooms, a 130 seat auditorium, café, museum shop, terrace areas, loading dock and plant rooms.

There will be bulk excavation and civil works including piling and removal of 18 trees.

1.2 Project Details

Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:

- Between 7 am and 6 pm, Mondays to Fridays inclusive and between 7.30 am and 3.30 pm, Saturdays.
- No work may be carried out on Sundays or public holidays.

Activities may be undertaken outside of these hours:

- if required by the Police or a public authority for the delivery of vehicles, plant or materials; or
- if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
- works are inaudible at the nearest sensitive receivers; or
- if a variation is approved in advance in writing by the Secretary or her nominee.

Notification of such activities must be given to affected residents before undertaking the activities or as soon as is practical afterwards."

"Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:

- 9 am to 12 pm, Monday to Friday;
- 2 pm to 5 pm Monday to Friday; and
- 9 am to 12 pm, Saturday."

In accordance with condition C9 of development consent SSD7081 rock breaking, rock hammering or sheet piling & driven piling will occur during the following hours;

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

24 Hour contacts

- **Project Manager** - Branko Mihaljevic 0408 486 970 brankom@fdcbuilding.com.au
- **Site Manager** - Garrett Cassettari 0400 477 419 garrettc@fdcbuilding.com.au

1.3 Environmental Management Plan

This Environmental Management Plan describes the environmental strategy, methods, controls, and requirements for the execution of the project. It stands alone as the master document for site environmental activities, and refers to company procedures.

The Environmental Management Plan defines how the environmental aspects of the project will be run. It complements the Management System and in some cases may override it.

This Environmental Management Plan should be read in conjunction with the Project Management Plan and the Site Safety Plan.

1.4 Purpose of the Environmental Management Plan

The purpose of this Environmental Management Plan is to:

- Identify the environmental issues (aspects and impacts) for this project;
- Establish, communicate and implement environmental operational controls to reduce any adverse impacts on the environment from the company's activities, products and services;
- Ensure compliance by FDC and its suppliers and subcontractors with all relevant environmental legislation, any applicable licence, approval and permit, regulatory requirements and this EMP;

- Ensure that works are managed to reduce adverse impacts on the environment;
- Action any outcomes from incidents or accidents, project audits or other identified non-conformances and to continually improve the Environmental Management System.

1.5 Environmental Objectives

The objectives for the project are:

Aspect	Objective
Waste	To minimise waste going to landfill
Sediment & Erosion Control	To prevent sediment from entering waterways or stormwater
Water Quality	To prevent contamination of water ways
Noise & Vibration	To minimise noise and vibration
Dust	To limit dust

1.6 Key Environmental Issues

The key environmental issues on the project are:

- Noise and vibration
- Water management
- Stormwater
- Erosion and sediment control
- Air quality
- Asbestos
- Waste
- CIS Sustainability Bronze Rating

1.7 Environmental Rating Tools

1.7.1 CIS Sustainability Standard

1.7.1.1 Overview

The CCMW Project is targeting a Gold rating in the CIS Sustainability Framework tool. The CIS Sustainability Standard sets out the minimum requirements for achieving sustainable design of major building projects at the University of Sydney.

The requirements of this Standard are met by completing the University's Sustainability Framework which is a dynamic Microsoft Excel based tool used by project teams to benchmark sustainability performance for a particular project.

Within the Sustainability Framework individual measures define the specific design and infrastructure requirements to enhance sustainability of the project. Measures are grouped into the following categories within the framework:

- Place making and Landscape
- Leadership, Communication and Community Benefit
- Healthy Environment
- Resource Efficiency
- Materials
- Climate change and Infrastructure

Each sustainability measure is awarded a number of points, proportional to the sustainability benefit delivered by it.

The Sustainability Framework benchmarks sustainability across different building types by using common sustainability ambition levels. There are four ambition levels available:

- Bronze – corresponds to 65-69% of the total points available
- Silver – corresponds to 70-74% of the total points available
- Gold – corresponds to 75-79% of the total points available
- Platinum – corresponds to >80% of the total points available

The Sustainability Framework includes a number of mandatory measures and discretionary measures. The total points needed to meet the project sustainability ambition level are achieved by implementing mandatory measures plus additional discretionary measures.

The target for the CCMW project is to achieve a Gold rating and a number of initiatives are proposed by the design team to meet this target which is defined with respective consultant specifications.

2 Internal and External Communication

2.1 Project Organisational Chart

The Project Organisational Chart (F102) is included in the Appendices of the Project Management Plan.

2.2 Responsibilities & Authorities

Position descriptions and skills register of each member of the project team are included in the Appendices of the Project Management Plan.

2.3 Contact Details

Contact details of Key Personnel, Stakeholders and Environmental Agencies are included in the Appendices of the Project Management Plan.

3 Environmental Actions

3.1 Environmental Risks / Environmental Aspects

Potential environmental obligations and risks associated with the project shall be identified prior to the start of the project by the Project Manager on the FDC Site Risk Assessment.

The Environmental Risk Assessment will be provided to subcontractors and suppliers as part of the subcontract and supply contracts.

Where risks are identified as medium to high in the matrix, the impacts associated with FDC's activities, products and services will be deemed as "significant" and require operational controls that shall be described on the Environmental Actions & Monitoring Table (F070). Refer to Appendix 3.

Significant aspects may impact on the environment positively (e.g. recycling) or negatively (e.g. pollution).

3.2 Environmental Impacts and Controls

3.2.1 Project Environmental Management Plans

The Environmental Actions & Monitoring Table (F070) describes operational controls used to manage environmental issues. Refer to Appendix 3.

The Foreman will ensure that environmental controls are inspected in accordance with these plans. Information of hazardous materials, including each material's potential impact on the environment and measures to be taken in the event of accidental release will be managed via the Hazardous Substances Register.

3.2.2 Supplementary Environmental Plans

Supplementary Plans required by the contract, Development Application or as deemed necessary by the Project Manager will be attached to this plan.

Supplementary Plans required are:

- Noise Management Plan
- Traffic Management Plan
- Waste Management Plan (including a waste management register)

Supplementary plans are to be submitted individually as required by the PPR

3.2.3 Subcontractors and Suppliers

Subcontractors, and suppliers shall meet the environmental management requirements specified in the EMP.

Subcontractors shall be made aware of their responsibilities under the terms of the applicable environmental legislation, by being provided a copy of this Environmental Management Plans and by participating in site induction.

Subcontractors will be requested to submit Safe Work Method Statements (SWMS), ITPs or environmental procedures with details of how they manage any environmental aspects and impacts associated with their activities.

Consideration of **normal** and **abnormal** operations, along with **emergency** scenarios will be included in ITPs as required.

Subcontractor performance will be monitored to ensure that contracts are being fulfilled and appropriate environmental management practices are being followed.

Subcontractors must adhere to ISO14001

3.3 Legal & Other Requirements

3.3.1 Legislative Compliance

Legislative requirements that apply to the project are detailed in Appendix 5.

Where Development Consents permits or approvals relate specifically to the project, these issues will also be deemed as “significant” and will be included in the project environmental risk assessment, Environmental Actions & Monitoring Table & environmental procedures.

3.3.2 Licences & Approvals

Licences and approvals required for the project are listed below:

Licence / Approval	Number
OEH	
Sydney Water	
RTA	
Energy Australia	

3.4 Contaminated Site Procedure

Projects undertaken on contaminated sites will undergo a Contaminated Site Assessment (CSA). CSA reports shall be provided as part of planning approvals process of a proposed development.

The CSA and associated approvals shall be reviewed by the Project Manager.

All relevant CSA reports, documents and relevant approvals will be obtained and reviewed prior to site activities commencing. Operational controls will include any specific procedures described in the report or approvals.

Where required, ITPs and/or SWMS will be developed to address requirements of CSAs and to ensure verification of the works being completed as described.

The Site Manager will also ensure that the site workforce are made aware of potential contamination issues associated with the contaminated site development. Advice shall be provided should problems be identified.

The Site Manager will maintain spoil disposal records.

3.5 Monitoring

The Environmental Management Plan shall be monitored following implementation to ensure that:

- Environmental operational controls are being effectively applied.
- Project specific environmental monitoring targets specified in the Development Consent or other planning permits for air, water and noise are met.
- Unpredicted impacts are identified and remedial action is taken; and
- The project objectives listed above are being met.

Responsibilities for monitoring and compliance requirements are detailed in the Project Environmental Plans and the Environmental Actions & Monitoring Table.

Monthly reports are provided to the General Manager for review. The performance of projects against company environmental objectives and targets is reviewed on a quarterly basis.

3.6 Communication and Consultation

3.6.1 Training

Prior to the commencement of project activities, all site personnel (including sub-contractors) will attend site induction.

Site Induction shall include an outline of the requirements of this EMP and the responsibilities and accountabilities of all site personnel.

The project environmental site rules will be included in the induction session.

Training records will be kept to verify who has attended the training.

3.6.2 Community Consultation

The Foreman shall conduct and encourage employees and subcontractors to conduct tool box meetings to address safety and environmental hazards in and around the site, safe work practices, coordination and responsibilities.

The Project Manager will advise relevant residents of the nature and scope of works.

3.6.3 Community Complaints

- Community complaint shall be recorded on an Incident/Community Report.
- Remedial action must be taken as soon as practical. Any action taken shall be recorded on the form

3.7 Emergency Planning & Response

Refer to the Critical Incident & Emergency Response Plan.

3.8 Incident Investigation & Reporting

3.8.1 Internal Requirements

The Foreman shall ensure that all incidents occurring in or around the site, involving company personnel, subcontractors, visitors or passers-by, are investigated and reported regardless of how minor they appear at the time of the occurrence.

A Non-Conformance Report shall be completed for each incident that cannot be immediately rectified and has no ongoing environmental impact.

3.8.2 University requirements

- The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.
- A written incident notification must also be emailed to the Department at the following address: compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant forms the view that an incident has not occurred

Written notification of an incident must:

- i. identify the development and application number;
- ii. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
- iii. identify how the incident was detected;
- iv. identify when the Applicant became aware of the incident;
- v. identify any actual or potential non-compliance with conditions of consent;
- vi. describe what immediate steps were taken in relation to the incident;
- vii. identify further action(s) that will be taken in relation to the incident; and
- viii. identify a project contact for further communication regarding the incident.

- Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, the Applicant must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements for such reporting set out in A15(b), and such further reports as may be requested.

The Incident Report must include:

- i) a summary of the incident;
- ii) outcomes of an incident investigation, including identification of the cause/s of the incident;
- iii) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
- iv) details of any communication with other stakeholders regarding the incident.

3.8.3 Duty to Notify Office of Environment and Heritage (OEH) of Pollution Incident

FDC shall notify the OEH Pollution Line, 131 555, regarding pollution incidents that have occurred in the course of its activities, if the following apply:

- The actual or potential harm to the health or safety of human beings or ecosystems is not trivial.
- The actual or potential loss or property damage (including clean-up costs) associated with a pollution incident may exceed \$10,000.

3.9 Non Conformance

In the event of breach in the requirements of the EMP, a Non Conformance Report will be completed and issued to the offending party.

Non Conformances will be registered in the Non Conformance Report Register.

A copy of the Non Conformance Notice will be forwarded to the Project Manager and the subcontractor, who will implement appropriate corrective action.

3.10 Aboriginal artefact discovery protocol

Aboriginal objects are physical evidence of the use of an area by Aboriginal people. They can also be referred to as 'Aboriginal sites', 'relics' or 'cultural material'.

Aboriginal objects include:

- a) physical objects, such as stone tools, Aboriginal-built fences and stockyards, scarred trees and the remains of fringe camps
- b) material deposited on the land, such as middens
- c) the ancestral remains of Aboriginal people.

If you find an Aboriginal artefact on site, you must:

- Cease work immediately and barricade of the area.
- Notify the Project Manager who will notify a representative from the University.
- Report the artefact and its location to the Office of Environment & Heritage. Even if you believe the artefact is in danger of being damaged the best thing to do leave it alone and report it immediately.

3.11 Tree Protection

Trees outlined for retention and protection within the arborist report are to be identified on procession of the site. Adequate measures to be taken to protect the trees specifically outline within the report.

Method of protection will be done in consultation with The University of Sydney

Refer to Arboriculture impact assessment

3.12 Traffic

The traffic management will be carried out in accordance with the Traffic Management Plan in consultation with council.

3.13 Dust Management

The management of dust on site will be in accordance with the monitoring table provided in **Appendix 3**

The main methods to reduce risk will be as follows;

- Install misting system to perimeter fencing to provide dust suppression. Operation of misting will be at the direction of the Project manager or site manager
- Shade cloth on site gates.
- Vehicle corridors will be clearly identified and restricted to control vehicle access onsite.
- Limit vehicle speed onsite to 10km/hr
- Fixed and mobile (water tanker) water sprays
- Reduce work activities /stop work during moderate to high wind velocity periods.
- Maintain equipment. Smokey plant to be stopped until repair works completed.
- Turn off vehicle engines whilst not in use (no long periods of idling).

FDC will carry out regular inspections of adjoining buildings to monitor and ensure if/when dust is being generated that the above measures are being implemented or are being effective. Where the above methods are not being effective in dust control then FDC will further consult the stakeholders and subcontractors to develop other methods.

3.14 External Lighting

All external lighting will be in accordance with AS 4282:1997 and will not be intrusive to neighbouring properties. FDC will carry out works with the all neighbouring properties in mind and where possible will carry out visual test from select vantage points in the neighbourhood where possible intrusions could occur. Generally speaking the use of external flood lights will be limited in use and where required for safe work will be carried out in a sensitive fashion.

The external lighting will continue to be monitored throughout the project to ensure compliance is being maintained.

3.15 Unexpected Finds Protocol

Refer to appendix 7 for unexpected finds protocol

3.16 Audits

Projects audits shall be scheduled by the National EHS Systems Manager and form part of the company's audit schedule. Refer Audit procedure Cor-8.2-001.

Audits shall address the requirements of ISO9001, ISO4801, ISO 14001 FDC's Management System and the various Management Plans.

4 Appendices

1	Environmental Policy	
2	Drawing	
3	Environmental Actions & Monitoring Table (F070)	
4	Additional Management Plans	
5	Legal & Other Requirements (F055)	
6	Environmental Performance Rating Systems (F091)	
7	Unexpected Finds Protocol	

ENVIRONMENTAL POLICY

The Environmental Management System covers the provision of project and/or construction management for residential, industrial and commercial building, including ground up construction refurbishment or additions and interior fitout to existing builders.

It is FDC's policy to:

- "Reduce, re-use and recycle" wherever possible, be it on site or within the office environment;
- Promote environmentally friendly solutions;
- Ensure that environmental considerations form part of our business planning and decision-making processes;
- Promote a culture of responsible environmental management;
- Protect the natural environment and social surroundings, preserve biodiversity, prevent pollution and minimize waste;
- Comply with applicable environmental laws;
- Continually improve our environmental performance;
- Communicate with stakeholders on environmental matters.

FDC encourage, on a personal and corporate basis, sound environmental considerations for protection of our natural resources.

We discourage any practice or product selection that is knowingly detrimental to environmental protection. FDC Management and staff are committed to the implementation and maintenance of an environmental management system based on ISO14001.



Bentley Cottle
Managing Director

30/06/2017

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Date:	
Project:	
Address:	
Prepared by:	

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
Dust Generation Particulate Emissions (General)	NSW - POEO Act (Sections 124-126)	<ul style="list-style-type: none"> Install shade cloth on perimeter fencing Vehicle corridors will be clearly identified and restricted to control vehicle access onsite. Limit vehicle speed onsite to 10km/hr Fixed and mobile (water tanker) water sprays Reduce work activities /stop work during moderate to high wind velocity periods. Maintain equipment. Smokey plant to be stopped until repair works completed. Turn off vehicle engines whilst not in use (no long periods of idling) 	Y	Y	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Dust Generation (Demolition)	NSW - POEO Act (Sections 124-126)	<ul style="list-style-type: none"> Breakers and crushing equipment to be fitted with dust filtration equipment or water sprays to control dust emissions. 	Y	Plant/ Machinery Register	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Dust Generation (Construction)	NSW - POEO Act 1997 (s 124-126)	<ul style="list-style-type: none"> Minimise areas of site disturbed and stage works where possible. Dust suppression strategies to be used, i.e. water sprays, soil binders, hydromulching, controlled speed onsite, roadbase + shaker grids. Stockpiled topsoils and rubble will be restricted to 4m high. Stabilise if insitu for >4-6months. 	Y	Y	N	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/Refer EMP
		<ul style="list-style-type: none"> On site drilling or coring operations will be undertaken by equipment fitted with air filtration equipment. 							
Odour	NSW - (POEO Act 1997 s 142	<ul style="list-style-type: none"> If odorous materials uncovered, recover immediately. Seek advice from consultant regarding soil /materials management. 	N	Y	N	Visual	Daily	Diary	As required
Emissions to Air	NSW (POEO Act 1997, s 124-125	<ul style="list-style-type: none"> Ensure machinery is maintained correctly 	Y	Y	Y	Visual	Daily	Diary	As required
Stormwater (Discharge from sedimentation basins, flooding)	NSW - POEO Act (Section 120) ANZECC Water Quality Guidelines NSW Department of Housing's Managing Urban Stormwater (2004)	<ul style="list-style-type: none"> Water quality to meet ANZECC Water Quality Guidelines. → PH 6.5- 8.5, Turbidity <50NTU, No visible oil & grease Obtain advice for use of flocculants to settle sediment from water. Sedimentation pond to be maintained at low levels to ensure capacity during rainfall event. DO NOT DISCHARGE IF CONTAMINANTS SUSPECTED. Obtain advice. 	Y	Stormwater & Sediment Control Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Adjoining waterways (dewatering, soil erosion & runoff)	NSW - POEO Act 1997(s 120, 122) NSW - PEO (General) Regulation 1998,cl 55; NSW - Local Government Act 1993, s 638] NSW Department of Housing's Managing Urban	<ul style="list-style-type: none"> Temporary drainage systems will be established to divert clean waters around the land development areas as appropriate. Erect silt fences, bunds and construct swale drains. Inspect at least weekly & after rainfall Maintain and/or replace as required. Street sweepers will be employed on regular basis Install erosion and sediment controls before work starts. Leave as much vegetation as possible. Install temporary fences to define 'no go' areas in those areas that are not to be disturbed. Include the area under the canopy of trees so that tree roots will not be damaged by soil 	Y	Stormwater & Sediment Control Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/Refer EMP
	Stormwater (2004) ANZECC Water Quality Guidelines	compaction. <ul style="list-style-type: none"> Divert run-off from upslope away from the site, but ensure that you do not flood your neighbours. For example, dig drainage channels (catch drains sized to accommodate the upslope catchment). Install sediment controls downslope of the site to catch sediment. Check the erosion and sediment controls every day and keep them in good condition. Leave or lay a kerbside turf strip (for example, the nature strip) to slow the speed of water flows and to trap sediment. Limit vehicle entry and exit to one point, and lay geotextile and blue metal to stabilise it for all-weather access. Clearly mark the access point and give an access map to all suppliers. Protect all drains with a gravel sausage made from geotextile filled with blue metal. Save the topsoil and stockpile it for use later in revegetation. Never place it around trees as this will kill them. Store all stockpiles and building materials behind sediment fences. Cover them with plastic to prevent erosion by wind. Get council approval before placing stockpiles or other materials on the nature strip or footpath. Connect downpipes from the guttering to the stormwater drain as soon as the roof goes on. Build a dam below the area used for cutting tiles, concrete and bricks. Surround the wash-out area with a sediment fence that slows down the water flow. Site this area upslope of another sediment control. Fill in all trenches immediately after services have been laid. Spread the topsoil back when the work is finished and revegetate the site as soon as possible to control erosion. 							

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/Refer EMP
		<ul style="list-style-type: none"> Remove the sediment and erosion controls only after this is done. Sweep the road and footpath every day. Washing down is unacceptable. Never place any materials in the gutter or on the road. You will be fined for this. Filter or settle-out all water pumped off the site. The water must be clear before it enters the stormwater system or creeks. Gypsum can be applied to muddy (turbid) water to help clay particles settle 							
Sewer (Trade waste)	Comply with the conditions of the trade waste consent or permit, or the local council approval, including acceptance standards	<ul style="list-style-type: none"> No paints or other chemical to be poured down drains. If required, obtain trade waste licence for discharge or local council approval 	Y	Stormwater & Sediment Control Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Land (Acid sulphate soils, contaminated soils, imported fill)	NSW - Contaminated Land Management Act 1997, s 60; NSW - Contaminated Land Management Regulation 1998, cl 3 Acid Sulfate Soils Management Advisory	<ul style="list-style-type: none"> Stop work if unexpected potentially contaminated soils are encountered. Obtain waste classification from consultant in accordance with OEH/EPA guidelines Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes (June 2004) www.environment.nsw.gov.au/waste/envguidlms/index.htm. Where required a Remediation Action Plan will be developed and implemented. Sign off by Site Auditor may be required to validate cleanup. Any groundwater or ponded rainwater will be tested and classified by consultants prior to disposal. Check geotech requirements. Ensure soil classification suitable for land use ie. Schools, residential, commercial etc. 	Y	Acid Sulphate Soils Management Plan	Y				As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
	Committee								
Land	NSW - Contaminated Land Management Act 1997, s 60 NSW - Contaminated Land Management Regulation 1998, cl 3	<ul style="list-style-type: none"> Potential for acid sulphate soils will be assessed based on the sites proximity to low-lying coastal areas eg. Coastal plains, wetlands and mangroves where the surface elevation is less than five metres above mean sea level. If odorous soils (rotten egg gas) or grey/yellowed mottled soils encountered, stop work. If suspected, consultant to prepare Acid Sulphate Soil management Plan (ASSMP). Excavation and neutralisation to be supervised by consultants as per ASSMP. The requirements to import fill will be minimised by utilising on site cut material wherever possible. All analysis certificates shall be handed over as part of the completion documents to the client. Record all imported fill on Form F042 – Imported Fill Register. Mark up locations where fill compacted in site plan. Survey if required 		Y	Y				As required
Resources – water, materials, energy		<ul style="list-style-type: none"> For design and construct jobs, refer to the design specification for ESD requirements and product choices. Buy local wherever possible to reduce impacts of transport on environment. 		Y					As required
Noise	NSW - POEO Act (Sections 139, 140)	<ul style="list-style-type: none"> Refer to DA for noise restrictions and working hours. Use hoarding or acoustic mats as required. Situate generators and plant away from sensitive receivers. Turn off machinery. Maintain equipment and stop noisy plant until repaired. No early deliveries. 	Y	Noise Management Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Vibration		<ul style="list-style-type: none"> Conduct dilapidation report prior to work starting. Limit the use of vibratory rollers, rock breakers, impact piling 	Y		Y				As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
		etc. adjacent to buildings (>7m). <ul style="list-style-type: none"> Regenerated noise may also transfer through bedrock and building structures. Obtain advice if required 							
Community Concerns		<ul style="list-style-type: none"> Provide information (e.g. Signage, letterbox drops) to community on programmed works Provide contact name for inquiries. Advise locals of "noisy" work. If required in noise sensitive areas and/or in response to complaints, engage consultants to undertake monitoring at nominated receivers. Vehicles will not be permitted to queue outside the site or in residential areas unless a defined area is established which does not adversely impact on neighbours. 	Y	Y					As required
Flora	NSW - State Environmental Planning Policy No 14 - Coastal Wetlands, s 7(1, 5), 7A; NSW - Native Vegetation Act 2003, s 12; Forestry Act 1916, s27(1); NSW - National Parks and Wildlife Act 1974, s 117(1), 118(1)] Environment Protection and Biodiversity	<ul style="list-style-type: none"> Review planning documentation to determine the presence of any protected, threatened or significant flora. Obtain approvals as required. Engage aborist to develop tree management plan or refer DA and aborist reports. Education and training at site toolbox meetings and induction. Report all sightings to the site manager. Fence or barricade protected flora at the drip zone. Erect Keep Out signage. Do not stack materials under/against trees. The potential for reuse of vegetative wastes by mulching, chipping or on-site placement of trunks or limbs shall be reviewed for each project. 	Y	Y Consultant Report		Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/Refer EMP
	Conservation Act 1999 (Commonwealth), s 12, 15B, 16, 18, 20, 21, 23								
Fauna	NSW Environmental Planning and Assessment Act 1979, s 5A, 78A(8)(b), 79B, 111 & 112-112E NSW - Threatened Species Conservation Act NSW - 1995; National Parks and Wildlife Act 1974, Part 8A Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth), s 12, 15B, 16, 18, 20, 21, 23	<ul style="list-style-type: none"> All native animals protected. Review planning documentation to determine the presence of any protected, threatened or significant fauna. Obtain approvals as required. Site rules/induction to include information regarding of the For injured animals, to relocate call WIRES 	Y	Y Consultant Report		Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Waste Litter	NSW - POEO Act (Section 116, 142), NSW - Waste	<ul style="list-style-type: none"> Hazardous materials surveys to be completed. Materials to be removed prior to demolition Registers and waste disposal requirements as per WorkCover and OEHPACW/EPA requirements for removal, storage, 	Y	Waste Management Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/Refer EMP
	<p>Avoidance and Resource Recovery Act 2007</p> <p>NSW –PEOAAct 1997, s 143, 144-146</p> <p>NSW Crown Lands Act 1989, s 155</p> <p>NSW Management of Waters and Waterside Lands Regulations - N.S.W., cl 13;</p> <p>NSW - PEO (Waste) Regulation 2005, cl 49</p>	<p>transport and disposal.</p> <ul style="list-style-type: none"> General site wastes –use one bin system and sort in contractors yard to produce quantities of material for recycling, reuse, disposal etc. Empty drums are to be taken off-site for disposal. Empty drums shall be crushed prior to recycling/disposal. Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter. 							
Landfilling	NSW - POEO Act (Section 116, 142)	<ul style="list-style-type: none"> Reduce, reuse and then dispose Dispose of hard construction wastes for recycled gravels and sands Do not send soil to landfill until alternatives for beneficial reuse have been explored as per consultants advice. Consideration should be given to chipping of the vegetation and reuse Reuse packaging to protect works 	Y	Y					As required
Chemicals	NSW - POEO Act (Section 116,	<ul style="list-style-type: none"> Chemicals to be stored in bunded areas (impervious + 110% of largest container) away from stormwater drains & pits. Refer Workcover Code of Practice for Storage & Handling of 	Y	Y	Y	Visual	Daily	Diary Site	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
	142.) NSW - Occupational Health and Safety Regulation 2001	<p>Dangerous Goods, OEH/EPA Guidelines for Bunding & Spill Management. Appropriate chemicals storage is in conformance with:</p> <ul style="list-style-type: none"> → AS 1940 The Storage and Handling of Flammable and Combustible Liquids → Storage and Handling of Dangerous Goods WorkCover Code of Practice 2005– refer p. 86 <ul style="list-style-type: none"> • OEH/EPA requirements http://www.environment.nsw.gov.au/water/bundingspill.htm • Ponded water within bunds will not be discharged to stormwater. • Fuel and hydraulic leaks to be cleaned up immediately. • Drilling muds to be contained within bunds and reused. • Liquid paints NOT to be poured down drains. Spread on waste cardboard or similar and leave to dry. Paint brushes to be rinsed and paint solids allowed to settle. Container of paint solids to be disposed to liquid waste facility. • Construct concrete washout pit for washout, away from stormwater drains. Send back to batch plant where possible. • Concrete cuttings to be contained and wetvac to prevent runoff into stormwater drains. • Storage of bulk fuels (>200L) on site is prohibited. All refuelling shall be undertaken by a mobile facility with appropriate spill control and containment control equipment. • MSDS's must be provided to the Foreman prior to a chemical being received on site and by subcontractors using chemicals/products. 				Inspection	Weekly	Inspection Checklist	
Traffic	Local Government Requirements	<ul style="list-style-type: none"> • Develop and implement traffic management plans. Submit to local council as required. • Signage and notices regarding disruptions. • Use crushed concrete, mulches etc along site access roads. 	Y	Traffic Management Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
		<ul style="list-style-type: none"> Install shakers and wheel wash as required. Organise regular street sweeping. Haulage routes and rules will be provided to subcontractors prior to commencing on site. All loads of soil, demolition wastes, general wastes etc are to be tarped 						Checklist	
Hazardous Materials (Lead paint)	NSW - POEO Act (Section 142)	<ul style="list-style-type: none"> If disturbing or removing dust or paint that could contain lead, wear a respirator or dust mask and protective clothing. Seal the rooms with plastic. Do not use open-flame torches on lead paint as they create lead fumes. If you must use a heat gun, use it on the lower setting to keep the paint temperature below 370 degrees C. Avoid using dry-sanding techniques: keep the surface wet to minimise dust. Don't sweep or use a domestic vacuum cleaner to clean up; lead dust will pass right through it. Use a high-efficiency particulate air (HEPA) vacuum cleaner. These can be hired. When finished, wipe all surfaces with a damp cloth and high-phosphate detergent. Wash face and hands before eating, drinking or smoking. Refer to Lead Safe: A Renovator's Guide to the Dangers of Lead and the Australian Standard AS4361.2 Guide to Lead Paint Management: Part 2 Residential and Commercial Buildings 1998 	Y	Consultants Report	Y				
Hazardous Materials (Asbestos)	NSW - POEO Act (Section 142) NSW PEO (Waste) Regulation 2005, cl 42	<ul style="list-style-type: none"> A licence subcontractor must be used to demolish, remove, repair or disturb asbestos. A WorkCover asbestos licence is required to remove 10 square metres or more of bonded asbestos A Workcover licence is required to remove, repair or disturb friable asbestos 	Y		Y				

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
Aboriginal heritage	National Parks and Wildlife Act 1974, s 90-91 NSW - Heritage Act 1977, s 146	<ul style="list-style-type: none"> Education and training at site toolbox meetings and induction. It is illegal to destroy heritage items. Review local or regional environmental plans, or on the State Heritage Register is to be consulted prior to work starting onsite. Obtain excavation permit issued by the Heritage Council of NSW if required. Any heritage relics or sites discovered during construction shall be reported to the Office of Environment and Heritage. Work in the subject area to cease until specialist advice is obtained. The area will be fenced and signs erected to restrict access. Heritage consultants may be required to provide advice on demolition/construction processes and finishes. 	Y	Consultant Report	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
European heritage	NSW - Heritage Act 1977	<ul style="list-style-type: none"> Education and training at site toolbox meetings and induction. It is illegal to destroy heritage items. Check the OEH\EPACW\EPA Aboriginal Heritage Information Management System (AHIMS). Also check the register of the National Estate. Obtain approval from NPWS (Section 90 consent). Any evidence of Aboriginal relics discovered during construction shall be reported to the National Parks and Wildlife Service. Local Land Council representatives may be required to monitor stripping/excavation. Work in the subject area to cease until specialist advice is obtained. The area will be fenced and signs erected to restrict access 	Y	Consultant Report	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Emergency Preparedness		<ul style="list-style-type: none"> Spill kit onsite. Refer to the MSDS for advice and procedures. 	Y	Y	Y	Inspection	Weekly	Site Inspection	As required

ENVIRONMENTAL ACTIONS & MONITORING TABLE

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Type	Frequency	Responsibility	NCR/ Refer EMP
		<ul style="list-style-type: none"> All spills must be reported to the Site Manager & cleaned up. Complete FDC Accident /Incident report. Sediment pond pumped out regularly to maintain capacity in case of emergency Ensure you know where stormwater drains are and have materials to block them in case of a fire 						Checklist	

LEGAL & OTHER REQUIREMENTS REGISTER

NSW WHS Legislation

- Work Health and Safety Act 2011
- Work Health and Safety Legislation Amendment Act 2011
- Work Health and Safety Regulation 2011
- Workers Compensation Act 1987
- Workers Compensation Legislation Amendment Act 2000
- Workers Compensation Legislation Amendment Act 2012
- Workers Compensation Regulation 2010
- Workers' Compensation (Dust Diseases) Act 1942
- Workers' Compensation (Dust Diseases) Regulation 2008
- Workplace Injury Management and Workers Compensation Act 1998
- Occupational Licensing (Adoption of National Law) Act 2010
- Occupational Licensing National Law (NSW)
- Licencing and Regulation (Uniform Procedures) Act 2002
- Licencing and Regulation (Uniform Procedures) Amendment (Photo ID) Act 2004
- Electrical (Consumer Safety) Act 2004

Federal and NSW Procurement and Industrial Relations Legislation

- Workplace Relations Act 1996
- Workplace Relations Regulations 2006
- Fair Work Building Industry Act 2012
- Fair Work Act 2009
- Building and Construction Industry (Improving Productivity) Act 2016
- Independent Contractors Act 2006
- Independent Contractors Regulations 2010
- Building and Construction Industry Long Service Payments Act 1986 No 19
- Employment Protection Act 1982 No 122
- Industrial Relations Act 1996 No 17
- Long Service Corporation Act 2010 No 123
- Implementation Guidelines to the NSW COP for Procurement: Building and Construction July 2013

NSW Environmental Legislation

- Contaminated Land Management Act 2008
- Contaminated Land Management Regulation 2008
- Environmental Planning and Assessment Act 1979
- Environmental Planning and Assessment Regulation 2000
- Environmental Trust Act 1998
- Protection of the Environment Administration Act 1991
- Protection of the Environment Administration Regulation 2012
- Protection of the Environment Operations Act 1997
- Protection of the Environment Operations (Clean Air) Regulation 2010
- Protection of the Environment (General) Regulation 2009
- Protection of the Environment (Noise Control) Regulation 2008
- Protection of the Environment (Waste) Regulation 2005
- Environmentally Hazardous Chemicals Act 1985
- Environmentally Hazardous Chemicals Regulation 2008
- Heritage Act 1977
- Heritage Regulation 2012
- Local and Environment Court Act 1979
- Local Government Act 2009
- Public Health Act 2010

- Sydney Harbour Foreshore Authority Act 1998
- Sydney Harbour Authority Regulation 2011
- Water Act 1912
- Water Management Act 2000
- Water Management (General) Regulation 2011
- Western Lands Act 1901
- Western Lands Regulation 2011

NSW Codes of Practice

These are the NSW SafeWork (WorkCover) Codes of Practice

- Abrasive blasting COP 2014
- Confined spaces COP December 2011
- Construction work COP July 2014
- Demolition work COP September 2016
- Excavation work COP July 2015
- First aid in the workplace COP July 2015
- Hazardous manual tasks COP September 2016
- How to manage and control asbestos in the workplace COP September 2016
- How to manage work health and safety risks COP December 2011
- How to safely remove asbestos COP September 2016
- Labelling of workplace hazardous chemicals COP April 2016
- Managing electrical risks in the workplace COP September 2016
- Managing noise and preventing hearing loss at work COP April 2016
- Managing risks of hazardous chemicals in the workplace COP July 2014
- Managing the risk of falls at workplaces COP April 2016
- Managing the risks of plant in the workplace COP July 2014
- Managing the work environment and facilities COP December 2011
- Preparation of safety data sheets for hazardous chemicals COP December 2011
- Preventing falls in housing construction COP July 2014
- Safe design of structures COP July 2014
- Spray painting and powder coating COP July 2015
- Welding processes COP September 2016
- Work health and safety consultation, coordination and cooperation COP December 2011

NATIONAL Codes of Practice and Standards

- Code for Practice for the Management and Control of Asbestos in the Workplace (*published January 2005*)
- Induction for Construction Work (*published January 2007*)
- NCP for Control and Safe Use of Inorganic Lead at Work [NOHSC: 2015 (1994)] (*published October 1994*)
- NCP for the Control of Workplace Hazardous Substances [NOHSC: 2007 (1994)] (*published January 1994*)
- NCP for Storage and Handling of Dangerous Goods [NOHSC: 2017 (2001)] (*published March 2001*)
- NCP for Noise Management and Protection of hearing – 3rd Edition (*published January 2004*)
- NCP for Prevention of Musculoskeletal Disorders caused from Performing Manual Handling Tasks at Work (*published August 2007*)
- NCP for Occupational Overuse Syndrome [NOHSC: 2013 (1994)] (*published October 1994*)
- NCP for Precast, Tilt-up and Concrete Elements in Building Construction (*published February 2008*)
- NCP for the Prevention of Fall in General Construction (*published April 2008*)
- NCP for the safe use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)] (*published January 1990*)
- National Standard for Construction Work [NOHSC: 1016 (2005)] (*published January 2005*)
- National Standard for Licencing Persons Performing High Risk Work (*published March 2006*)
- National Standard for Manual Tasks (*published August 2007*)
- National Standard for Occupational Noise (*published January 2000*)

- National Standard for Plant [NOHSC: 1010 (1994)] (*published January 1994*)
- National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC: 1015 (2001)] (*published March 2001*)
- Safe Removal of Asbestos 2nd Edition [NOHSC: 2002 (2005)] (*published January 2005*)

Federal OHS

- Work Health and Safety Act 2011
- Work Health and Safety (Transitional and Consequential Provisions) Act 2011

Federal Environmental

- Environment Protection and Biodiversity Conservation Act 1999
- National Environment Protection Council Act 1994
- National Environment Protection Measures (Implementation) Act 1998
- Natural Heritage Trust of Australia Act 1997
- Sydney Harbour Federation Trust Act 2001

Australian Standards

- AS 1210 Supp 1-1990: Unfired pressure vessels - Advanced design and construction
- AS 1210 Supp 2-1999: Pressure vessels - Cold-stretched austenitic stainless steel
- AS 1210 -2010 - Pressure Vessels
- AS 1216-2006: Class labels for dangerous goods
- AS 1228-2006: Pressure equipment - Boilers
- AS 1319-1994: Safety signs for the occupational environment
- AS 1345-1995: Identification of the contents of pipes, conduits and ducts
- AS 1353.1-1997: Flat synthetic-webbing slings - Product specification
- AS 1353.2-1997: Flat synthetic-webbing slings - Care and use.
- AS 1418.1-2002: Cranes, hoists and winches - General requirements
- AS 1418.2-1997: Cranes (including hoists and winches) - Serial hoists and winches
- AS 1418.3-1997: Cranes (including hoists and winches) - Bridge, gantry and portal cranes (including container cranes)
- AS 1418.4-2004: Cranes (including hoists and winches) - Tower cranes
- AS 1418.5-2004: Cranes (including hoists and winches) - Mobile and vehicle-loading cranes
- AS 1418.7-1999: Cranes (including hoists and winches) - Builders hoists and associated equipment
- AS 1418.8-2008: Cranes, hoists and winches - Special purpose appliances
- AS 1418.10-2011: Cranes (including hoists and winches) - Elevating work platforms
- AS 1418.19-2007 Cranes Hoists and Winches – Telescopic Handlers
- AS 1418.12-1991: Cranes (including hoists and winches) - Crane collector systems
- AS 1418.13-1996: Cranes (including hoists and winches) - Building maintenance units
- AS 1418.14-1996: Cranes (including hoists and winches) - Requirements
- AS 1418.15-1994: Cranes (including hoists and winches) - Concrete placing equipment
- AS 1418.16-1997: Cranes (including hoists and winches) - Mast climbing work platforms
- AS 1418.17-1996: Cranes (including hoists and winches) - Design and construction of workboxes
- AS 1418.18-2001: Cranes (including hoists and winches) - Crane runways and monorails
- AS 1576.1-2010 Scaffolding
- AS 1576.2-2009: Scaffolding - Couplers and accessories
- AS 1576.4-1991: Scaffolding - Suspended scaffolding
- AS 1577-1993: Scaffold Planks.
- AS 1636.1-1996: Tractors - Roll-over protective structures - Criteria and tests - Conventional tractors
- AS 1636.2-1996: Tractors - Roll-over protective structures - Criteria and tests - Rear-mounted for narrow-track tractors
- AS 1636.3-1996: Tractors - Roll-over protective structures - Criteria and tests - Mid-mounted for narrow-track tractors
- AS 1657-1992: Fixed platforms, walkways, stairways & ladders.
- AS 1666.1-2009: Wire-rope slings - Part 1: Product specification.
- AS 1666.2-2009: Wire-rope slings - Part 2: Care and use.

- AS 1674-2007: Safety in welding.
- AS 1715-2009: Selection, Use & Maintenance of Respiratory protective devices.
- AS 1735.1-2003: Lifts, escalators and moving walks - General requirements
- AS 1735.2-2001: Lifts, escalators and moving walks - Passenger and goods lifts - Electric
- AS 1735.3-2002: Lifts, escalators and moving walks - Passenger and goods lifts - Electrohydraulic
- AS 1735.4-2000: Lifts, escalators and moving walks (known as the SAA Lift Code) - Service lifts - Power-operated
- AS 1735.5-2003: Lifts, escalators and moving walks - Escalators and moving walks (BS EN 115:1995, MOD)
- AS 1735.7-1998: Lifts, escalators and moving walks - Stairway lifts
- AS 1735.8-1986: Lifts, escalators and moving walks (known as the SAA Lift Code) - Inclined lifts
- AS 1735.9-1998: Lifts, escalators and moving walks - Special purpose industrial lifts
- AS 1735.11-1986: Lifts, escalators and moving walks (known as the SAA Lift Code) - Fire-rated landing doors
- AS 1735.12-1999: Lifts, escalators and moving walks - Facilities for persons with disabilities
- AS 1735.14-1998: Lifts, escalators and moving walks - Low-rise platforms for passengers
- AS 1735.15-2002: Lifts, escalators and moving walks - Low rise passenger lifts - Non-automatically controlled
- AS 1735.16-1993: Lifts, escalators and moving walks - Lifts for persons with limited mobility - Restricted use - Automatically controlled
- AS 1735.17-1995: Lifts, escalators and moving walks - Lifts for people with limited mobility - Restricted use - Water-drive
- AS 1743-2001: Manual of uniform traffic control devices.
- AS 1851-2012: Maintenance of fire protection systems and equipment
- AS 1885 Supp 1-1991: Workplace injury & disease recording standard.
- AS 1885.1-1990: Measurement of occupational health and safety performance - Describing and reporting occupational injuries and disease (Workplace injury and disease recording standard)
- AS 1894-1999: The storage and handling of non-flammable cryogenic and refrigerated liquids
- AS 1915-1992: Electrical equipment for explosive atmospheres - Battery operated vehicles
- AS 1940-2006: The storage and handling of flammable and combustible liquids
- AS 2030.1-2009: Gas cylinders - General requirements
- AS 2030.2-2000: The verification, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases - Cylinders for dissolved acetylene
- AS 2030.4-1999: The verification, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases - Welded cylinders – Insulated
- AS 2030.5-2009: Gas cylinders - Filling, inspection and testing of refillable cylinders
- AS 2187-1998: Explosives - Storage, transport and use
- AS 2187.2-2006: Explosives - Storage and use - Use of explosives)
- AS 2294.1-2003: Earth-moving machinery - Protective structures – General
- AS 2294.1 Supp 1- 2003: Protective Structures – General – Operator protective structures fitted to plant used in timber industry
- AS 2359.1-1995: Powered industrial trucks - General requirements.
- AS 2359.12-1996: Powered industrial trucks - Hazardous areas
- AS 2397-1993: Safe use of lasers in the building and construction industry
- AS 2211.1 2004 Safe Use of Lasers in the building and construction industry
- AS 2419-2005: Fire hydrant installations
- AS 2436-2010: Guide to noise control on construction, maintenance and demolition sites
- AS 2441-2005/Amdt 1-2009: Installation of fire hose reels
- AS 2444-2001: Portable fire extinguishers and blankets.
- AS 2550.1-2011: Cranes - Safe use - General requirements.
- AS 2550.4-2004: Cranes - Safe use - Tower cranes.
- AS 2550.5-2002: Cranes - Safe use - Mobile and vehicle loading cranes.
- AS 2550.10-2009: Cranes - Safe use - Elevating work platforms.
- AS 2550.13-1997: Cranes- Safe use - Building maintenance units.
- AS 2550.15-1994: Cranes - Safe use - Concrete placing equipment.

- AS 2550.16-1997: Cranes- Safe use - Mast climbing work platforms.
- AS 2593-2004: Boilers - Safety management and supervision systems
- AS 2601-2001: Demolition of structures
- AS 2741 Amndt 2-2008: Shackles.
- AS 2865-2009: Confined Spaces
- AS 2958.1-1995: Earth moving machinery – Safety – Wheeled Machines - Brakes.
- AS 2958.3-1992: Earth moving machinery – Safety – Roller Compactors – Brake systems.
- AS 2971-2007: Serially produced pressure vessels
- AS 3000-2007: Electrical installations, Known as the AS/NZS Wiring Rules.
- AS 3105-2012: Electrical portable devices.
- AS 3160-2009: Hand held portable electronic tools.
- AS 3610.1-2010: Formwork for concrete.
- AS 3610-2010: Formwork for concrete
- AS 3745-2002: Emergency control organisation & procedures for buildings, structures & workplaces.
- AS 3745-2010: Planning for Emergencies in Facilities
- AS 3892-2001: Pressure equipment - Installation
- AS 4024-2006: Safeguarding of Machinery
- AS 4332-2004: Storage & handling of gases in cylinders.
- AS 4343-2005: Pressure equipment - Hazard levels
- AS 4458-1997: Pressure equipment - Manufacture
- AS 4497.1-1997: Round slings - Synthetic fibre - Part 1: Product specification.
- AS 4497.2-1997: Round slings: synthetic fibre - Part 2: Care and use.
- AS 4509-2009: Stand-alone power systems
- AS 4509.2-2010 Stand-alone power systems – System Design
- AS 4602-1999: High visibility safety garments;
- AS 4602.1-2011 High visibility safety garments for high risk applications
- AS 4681-2000: The storage and handling of Class 9 (miscellaneous) dangerous goods and articles
- AS 4774.1-2003: Work in compressed air and hyperbaric facilities - Work in tunnels, shafts and caissons
- AS 4983-2010: Gas fuel systems for forklifts and industrial engines
- AS 4987-2002: Earthmoving machinery - Tipover Protective Structures
- AS/NZS 1200-2000: Pressure equipment
- AS/NZS 1269.1-2005: Occupational noise management - Measurement and assessment of noise immission and exposure
- AS/NZS 1336-1997: Personnel eye protection-prescription eye protection against low & medium impact.
- AS/NZS 1337-1997: Eye protectors for industrial applications
- AS/NZS 1418.4-2004: Cranes, hoists and winches - Tower cranes
- AS/NZS 1418.6-2004: Cranes, Hoists and winches - Guided storing and retrieving appliances
- AS/NZS 1418.9-1996: Cranes (including hoists and winches) Part 9: Vehicle hoists
- AS/NZS 1418.10-2011: Cranes, hoists and winches - Elevating work platforms
- AS/NZS 1418.19-2007 Cranes, Hoists, and Winches - Telescopic Handlers
- AS/NZS 1576.1-2010: Scaffolding - General requirements
- AS/NZS 1576.2-2009: Scaffolding - Couplers and accessories
- AS/NZS 1576.3-1995: Scaffolding - Prefabricated and tube-and-coupler scaffolding
- AS/NZS 1576.4-1991: Scaffolding - Suspended scaffolding
- AS/NZS 1576.5-1995: Scaffolding - Prefabricated splitheads and trestles
- AS/NZS 1576.6-2000: Scaffolding - Metal tube-and-coupler scaffolding
- AS/NZS 1596-2008: The storage and handling of LP Gas
- AS/NZS 1715-2009: Selection, use and maintenance of respiratory protective equipment
- AS/NZS 1716-2003: Respiratory protective devices
- AS/NZS 1800-1998: Occupational protective helmets, selection & use.
- AS/NZS 1801-1997: Occupational protective helmets.
- AS/NZS 1850-2009: Portable fire extinguishers - Classification, rating and performance testing
- AS/NZS 1891-2008: Industrial fall-arrest systems and devices - Safety belts and harnesses

- AS/NZS 1891.1-2007: Industrial fall-arrest systems and devices - Safety belts and harnesses.
- AS/NZS 1891.2-2001: Industrial fall-arrest systems and devices - Horizontal lifeline and rail systems.
- AS/NZS 1891.3-1997: Industrial fall-arrest systems and devices - Fall arrest devices.
- AS/NZS 1891.4-2009 Industrial Fall Arrest Systems and Devices Selection Use and Maintenance
- AS/NZS 1892-2000: Portable Ladders
- AS/NZS 2161-2008: Occupational protective gloves
- AS/NZS 2210.1-2010: Occupational protective footwear
- AS/NZS 2210.1-1994: Occupational Protective Footwear
- AS/NZS 2210.3-2009: Occupational Protective Footwear- Additional specifications for safety footwear.
- AS/NZS 2211.1-2004: Safety of laser products - Equipment classification, requirements and users guide (IEC 60825-1:2001, MOD)
- AS/NZS 2299.1-2007: Occupational diving operations - Standard operational practice
- AS/NZS 2865-2009: Safe working in a confined space
- AS/NZS 3000-2009: Electrical installations (known as the Australian/New Zealand Wiring Rules)
- AS/NZS 3002-2008: Electrical installations - Shows and carnivals
- AS/NZS 3012-2010: Electrical Installations - Construction and demolition sites
- AS/NZS 3509-2009: LP Gas fuel vessels for automotive use
- AS/NZS 3666.1-2002: Air-handling and water systems of buildings - Microbial control - Design, installation and commissioning
- AS/NZS 3666.2-2002: Air-handling and water systems of buildings - Microbial control - Operation and maintenance
- AS/NZS 3666.3-2000: Air-handling and water systems of buildings – Microbial control - Performance-based maintenance of cooling water systems
- AS/NZS 3760-2011: In-service safety inspection and testing of electrical equipment
- AS/NZS 3788-2006: Pressure equipment in-service inspection
- AS/NZS 4431-1996: Guidelines for safe working on new lift installations in new constructions.
- AS/NZS 4452-1997: The storage and handling of toxic substances
- AS/NZS 4576-1995: Guidelines for scaffolding.
- ISO 3471-2008: Earthmoving machinery – Rollover protective structures – Laboratory tests and performance requirements

Review Date:	20/01/2017
Reviewed By:	Josephine Taylor
Next Review Due:	20/01/2018

ENVIRONMENTAL PERFORMANCE RATING SYSTEMS

ENVIRONMENTAL ISSUES ADDRESSED	ABGR	GREEN STAR	GREEN GLOBE 21	NABERS	BASIX	NATHERS
	AUSTRALIAN BUILDING GREENHOUSE RATING	FOUR, FIVE AND SIX STAR RATING SYSTEM	NINE GREEN GLOBE KEY PERFORMANCE CRITERIA	NATIONAL AUSTRALIAN BUILT ENVIRONMENT RATING SYSTEMS	NSW BUILDING SUSTAINABILITY INDEX	NATIONWIDE HOUSE ENERGY RATING SCHEME
Management		✓	✓	✓		
Materials		✓	✓			
Indoor Environmental Quality		✓	✓	✓		
Energy	✓	✓	✓	✓	✓	
Thermal		✓			✓	✓
Transport		✓	✓	✓		
Water		✓	✓	✓	✓	
Waste		✓	✓	✓		
Land/ecology		✓	✓	✓		
Emissions		✓	✓	✓		
Innovation		✓				
Occupancy Satisfaction		✓		✓		
Features	Office buildings greenhouse emissions	Points awarded for initiatives in design, construction and operation	Environment and social performance using Sector Benchmarking Indicators	Energy component = ABGR rating	<40% less water & energy	Energy use & thermal comfort
Application	Commercial	Commercial (Industrial, Retail, Education, Convention to be released)	Tourism & travel industry (hotels)	Office - operational	Residential	Residential
Administered By	NSW Dept. of Energy, Utilities & Sustainability	Green Building Council of Australia	Industry	NSW Dept. of Energy, Utilities & Sustainability	NSW Dept. Planning	Australian Greenhouse Office (AGO)

PROCEDURE FOR DEALING WITH UNEXPECTED FINDS

What does Asbestos look like?



In the event you find OR even suspect the presence of previously unidentified asbestos, you must:



Stop work immediately!!!



Report the suspected find to FDC Management for assessment and/or action



FDC Management shall set-up exclusion zone around suspect area to prevent unauthorised access



FDC shall undertake verification of the suspected material



Work must not recommence until you have received instructions from FDC Management that it is safe to do so.

Failure to adhere to the above procedure may result in disciplinary action and your removal from site.