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Revision history

Rev	Date	Details	By	Review/Approved
1	5/12/2013	First Draft.	S Fermio	M Fahey, D Vujic, A Wedgwood
2	23/1/14	Second Draft	S Fermio	
3	29/1/14	Third draft: Project team comments	A Wedgwood	M Fahey
4	30/1/14	FINAL v 1	A Wedgwood	D Vujic
5	3/3/14	FINAL v2: P&I comments	A Wedgwood	A Wedgwood

Glossary of Terms and Acronyms

The following specific terms have been used throughout this plan and have the meanings, and reference specific parties, as defined below.

Term	Definitions
CoA	Condition of Approval
DP&I	Department of Planning and Infrastructure.
Director-General (D-G)	The Director-General of DP&I
EP&A Act	NSW Environmental Planning and Assessment Act 1979
EPA	Environment Protection Authority
EPL	Environment Protection Licence issued by the EPA
GGBF	Green and Golden Bell Frog
EPA	Office of Environment and Heritage
CEMP	Construction Environmental Management Plan
CNMP	Construction Noise Management Plan
HIPS	Heritage Interpretation Plan and Strategy
LEAMP	Landscape and Ecological Area Management Plan
POEO Act	NSW Protection of the Environment Operations Act 1997
Project Approval	The approval granted by the Minister for Planning for Major Project Application 05_0147
SAS	Site Audit Statement
SPEM	Senior Planning and Environmental Manager (NSW Ports)
SMP	Site Management Plan (for contamination) referred to under Site Audit Statement

CEMP CONTENT - SELF VERIFICATION CHECKLIST

Topic	Requirement reference	Details to include	Section of CEMP where addressed
Compliance with DIPNR 2004 Guideline for the Preparation of EMPs	6.2	CEMP to be prepared in accordance with DIPNR 2004 Guidelines for the Preparation of EMPs.	1.3
Compliance with EIS & SoCs	6.2(a)	Any additional CEMP requirements of: Table 21.1 (over and above those required in CoA 6.2 & 6.3) and Table 4.1 of the Statement of Commitments	1.3
Description of the project and works to be undertaken	6.2(b)	A description of all activities to be undertaken during site establishment and construction activities.	1.2
Statutory obligations	6.2(c)	statutory and other obligations that the Proponent is required to fulfil during site establishment and construction.	Appendix A
EPA requirements	6.2(d)	specific consideration of measures to address any requirements of the EPA during site establishment and construction	Appendix B
Roles & responsibilities	6.2(e)	a description of the roles and responsibilities for all relevant employees involved in the site establishment or construction of the project	2.5
Monitoring	6.2(f)	details of how the environmental performance of the site preparation and construction works will be monitored.	2.7 2.8 2.9
		measures to monitor and manage dust emissions;	Section 3.3.2 Appendix F
		measures to monitor and minimise soil erosion and the discharge of sediment and other pollutants to lands and/ or waters.	Appendix F
		measures to monitor and control noise emissions during construction works	Section 3.3.3 Appendix F
Roles & responsibilities	6.2(g)	a description of the roles and responsibilities for all relevant employees involved in site preparation and	2.5

Topic	Requirement reference	Details to include	Section of CEMP where addressed
		construction of the project.	
Complaints handling	6.2(h)	complaints handling procedures to be applied during operation of the project (conditions 5.2 and condition 5.3 of the approval).	2.6
Sub Plans (see 6.3)	6.2(i)	the issue-specific management plans listed under condition 6.3 of this approval.	3.3
Sub Plans required	6.3	As part of the Construction Environmental Management Plan for the project, a number of specific / sub management plans are required to be prepared, as follows:	3.3
Construction Noise Plan	6.3 (a)	a Construction Noise Management Plan ..	Section 3.3.3
	6.3 (b)	a Construction Traffic Management Protocol..	Section 3.3.1
	6.3 (c)	Heritage Interpretation Plan & Strategy.....{remaining requirements of this condition have already been satisfied in the HIPS}	Section 3.3.4
	6.3 (d)	A Landscape and Ecological Area Management Plan	Section 3.3.5
	6.3(e)	a Construction Dust Management Protocol	Section 3.3.2
	6.3 (f)	A Mt Enfield Stabilisation Management Plan	Section 3.3.6

1. Introduction

1.1 Background to Enfield ILC

The Enfield Intermodal Logistics Centre (ILC) site was formerly used by the State Rail Authority of NSW for marshalling and maintenance of rail cars and locomotives, as well as sidings for rail and goods, for over 70 years, from the 1920s until the 1990s.

On 5 September 2007 approval for the construction and operation of the Enfield ILC was granted under Section 75J of the *Environmental Planning & Assessment Act (1979)* by the Minister for Planning, subject to a number of conditions. The Project Approval (MP 05_0147) as modified, is available at: <http://www.nswportsbotany.com.au/projects-and-planning/ilc-at-enfield/>

The approved project includes (but is not limited to) the construction and operation of the following (Figure 1):

- An intermodal terminal for the loading and unloading of containers between road and rail and the short term storage of containers;
- Rail sidings, railway lines and associated works connected to the existing freight line;
- Warehousing for the packing and unpacking of containers and the short-term storage of cargo;
- Empty container storage areas and facilities;
- Light industrial/commercial area fronting Cosgrove Road complementary to operations at the site;
- Access works including the construction of a road bridge over the rail marshalling yards to connect the site to Wentworth Street and an upgrade of the Cosgrove Road entrance to the site; and
- Internal roads, administration buildings, diesel and LPG storage and fuelling facilities, container washdown area, vehicle maintenance shed, and installation of site services (all utilities, stormwater and sewerage).

Condition 6.2 of the Project Approval requires a Construction Environmental Management Plan (CEMP) to be prepared for the approval of the Director-General prior to the commencement of site preparation or construction of the Project.

Site preparation and construction of the main base infrastructure civil works for the Enfield ILC have been completed by Leighton Contractors Pty Ltd (LCPL) and other contractors from 2008 to 2013 under their own approved CEMPs. These include:

- CEMPs for Stages 1a-c (demolition of redundant rail marshalling yard facilities and remediation of contaminated areas)
- CEMP for Stage 2 (early works including the road bridge connecting the ILC site to Wentworth Street, access roads, frog habitat area and noise mound)
- CEMP for Stage 3 (construction of base infrastructure including terminal pavements, drainage, internal roads and rail corridors, stormwater and bioretention basins, services etc and contamination remediation works managed by LCPL)
- CEMP for Stage 4 (construction of south bound slip lane and associated road works at intersection of Norfolk/Roberts Roads by Christie Civil)

1.2 CEMP Scope

1.2.1 Project Stages

The ongoing and future development of the Enfield ILC is expected to be carried out in further stages as outlined in the NSW Ports Staging Report prepared in accordance with CoA 1.3A of the Project Approval.

The majority of construction works associated with the future stages of development are expected to be undertaken by tenants (and their contractors) who will be required to prepare their own site/stage specific CEMPs for the approval of the Director-General.

Generally, this CEMP addresses works which are within areas being managed, maintained or developed by NSW Ports and not covered under the stage specific CEMPs. This includes works on ILC common areas as well as future tenanted lots which are not yet leased to tenants for development.

1.2.2 Works Covered Under CEMP

Construction activities to be managed under this CEMP by NSW Ports or its contractors include, but are not limited to, excavation and earthworks, management of contaminated material, waste disposal, heritage interpretation, use of plant / machinery and equipment. Examples of the types of works that may be carried out under this CEMP are:

- Landscaping works.
- Heritage interpretation works.
- Pavement and pathway works including kerb and guttering.
- Service and utility works.
- Carparks, fencing, gates, signage, traffic control and monitoring devices, lighting and security infrastructure including gatehouse facilities.
- Excavation and earthworks including remediation or removal of contaminated material.
- Office fitout and/or building refurbishment works
- Demolition works including the removal of redundant infrastructure.
- Site forming / shaping works (e.g. site levelling, removal of minor mounds, etc)
- Rail and road works

It is envisaged that works will typically be undertaken by contractors on behalf of NSW Ports although some activities may be carried out by NSW Ports' personnel.

1.3 CEMP Inputs

This CEMP has been prepared in accordance with the:

- Requirements of CoA 6.2 of the Project Approval (see the Self Verification Checklist on pages 4 & 5);
- Guideline for the Preparation of Environmental Management Plans (DIPNR 2004) (Table 1); and
- Requirements of Table 21.1 of the EIS prepared by SKM in 2005 and Table 4-1 of the Statement of Commitments prepared by SKM as part of the Preferred Project Report (PPR) (Table 1).

Table 1: DIPNR 2004 EMP & EIS / PPR required content

DIPNR EMP Guideline requirement	Where addressed
Introduction	1.0
Project description	1.1
EMP Context	1.2 & 2.1
EMP Objectives	1.5
Environmental Policy	Appendix C
Environmental management structure & responsibility	2.1 & 2.5
Approval & licensing requirements	1.4
Reporting	2.9
Environmental training	2.10
Emergency contacts & response	2.11
Risk assessment	Appendix F
Environmental management activities and controls	3.2, Appendix F
Environmental control plans or maps	Appendix D
Environmental schedules	Appendix E
Environmental monitoring	2.7
Environmental auditing	2.9
Corrective action	2.9
EMP review	2.9
EIS & SoC CEMP requirement	Where addressed
Road traffic & transport	3.2, 3.3.1, Appendix F
Air quality	3.2, 3.3.2, Appendix F
Soils and contamination	2.3, 3.2 & Appendix F
Hydrology and water quality	Appendix F
Noise and vibration	3.2, 3.3.3 Appendix F
Heritage	Appendix F
Flora and fauna	Appendix F
Landscape and visual	Appendix F
Waste management	Appendix F
Energy and water	Appendix F
Communication	Section 2.6
Works on RailCorp lands	Not relevant as all works completed on RailCorp land

1.4 Statutory Requirements

1.4.1 Key Legislation & Other Approvals / Licences

The key legislation and any additional approvals, licences or permits applicable to construction activities being carried out under this CEMP is outlined in the Legislation Register in Appendix A.

1.4.2 Consultation Requirements

In accordance with CoA 6.2(d) consultation with the EPA on their requirements for the works covered by this CEMP was undertaken in January 2014 as evidenced in Appendix B.

1.4.3 Pre Construction Requirements and Other Approvals / Licences

The details of how any other obligations required under the Project Approval or other approvals and licences have been satisfied prior to works commencing are outlined in Table 2.

As none of the works covered under this CEMP are listed within Schedule 1 of the POEO Act and it is not expected that any of the works would require any discharge to waters an environment protection licence (EPL) is unlikely to be required.

Prior to any tree lopping or removal works being carried out within the ILC site as part of the construction and operation of the facility, advice will be sought to ensure the works are covered by the Part 3A Project Approval.

Table 2: Other obligations required prior to construction

CoA	Requirement	How addressed
1.3A	The Proponent may construct and/or operate the project in stages with commensurate staging of compliance with the conditions of this approval. Where the project is to be staged, the Proponent shall submit details of the staging to the Director-General, including details of how compliance with the conditions of this approval will be met.	Staging Report submitted to D-G on 29/11/13 (or subsequent revisions).
2.12	The Proponent shall establish and maintain for the life of the project, unless otherwise agreed by the Director-General, a Road Transport Coordination Group to oversee and coordinate the management of traffic and road issues affected by the project.	RTCG currently established & maintained by NSW Ports
2.20	The Proponent shall install, operate and maintain a meteorological monitoring station to monitor weather conditions representative of those on site...prior to the commencement of site preparation or construction works...until all large exposed areas have either been landscaped or sealed.	Scale of works proposed under this CEMP will not cause large areas to be exposed and therefore do not require a weather station
2.34	Except for the necessary stabilisation works agreed in consultation with the Heritage Office, the Proponent is not permitted to destroy, modify or otherwise physically affect the Tarpaulin Factory as part of this Approval. Any proposal to destroy modify redevelop relocate or otherwise affect the Factory shall be subject to further assessment and approval in accordance with the EP&A Act.	Addressed in Section 2.3, 3.2.1 and Appendix F
2.43	Prior to the commencement of construction works associated with the project that may disturb contaminated areas of the site, the Proponent shall submit to the Director-General a Site Audit Statement(s), prepared by an accredited Site Auditor under the <i>Contaminated Land Management Act 1997</i> , verifying that the area of the site on which construction is to be undertaken has been or can be remediated to a standard consistent with the intended land use.	Site Auditor issued SASs GN 401-2A & GN 401-3A certifying that the site could be made suitable for intended use subject to remediation in accordance with the RAP prepared by Coffeys in June 2009. Final SAS GN 401-5B for IMT, Empty Container Storage Areas, service areas and rail corridors issued in December 2013 certifying these areas as remediated for intended use.
3.2	The Proponent shall, from the commencement of soil disturbing works on the site until all large exposed areas have either been landscaped or sealed, continuously monitor ambient dust concentrations (PM ₁₀) at two of the most-affected residential receptor(s) to the site (with monitoring undertaken either on the boundary of the site or within the affected residential areas)	Scale of works proposed under this CEMP will not cause large areas to be exposed and do not require ambient dust monitoring.

CoA	Requirement	How addressed
	employing the sampling and analysis methods specified under AM-18 or AS3580.9.8 or as otherwise agreed by the Director-General.	
6.2	Prior to the commencement of site preparation works or construction of the project, the Proponent shall prepare and submit for the approval of the Director-General a CEMP to detail an environmental management framework, practices and procedures to be followed during site preparation and construction of the project....shall include but not necessarily be limited to:	This CEMP
6.2 (d)	Specific consideration of measures to address any requirements of the EPA during site establishment and construction	Appendix B

1.5 CEMP Objectives

Consistent with the requirements of the DIPNR EMP Guidelines (2004) the objectives of this CEMP are to:

- Ensure that relevant environmental risks are identified and appropriate safeguards and controls implemented on-site;
- Manage site activities effectively;
- Enable adverse impacts on the environment to be minimised;
- Provide for the conservation of the site's receiving environment;
- Identify suitable emergency preparedness and response procedures;
- Provide details of complaints management procedures;
- Meet all requirements of relevant legislation and assist with ensuring compliance of the Project Approval; and
- Monitor and manage environmental and social impacts.

1.6 Environmental Policy

This CEMP has been prepared consistent with NSW Ports' Environmental Policy (Appendix C) and the relevant requirements of the Policy will be included as part of any NSW Ports contractor inductions.

2. Environmental Management

2.1 Overall Approach

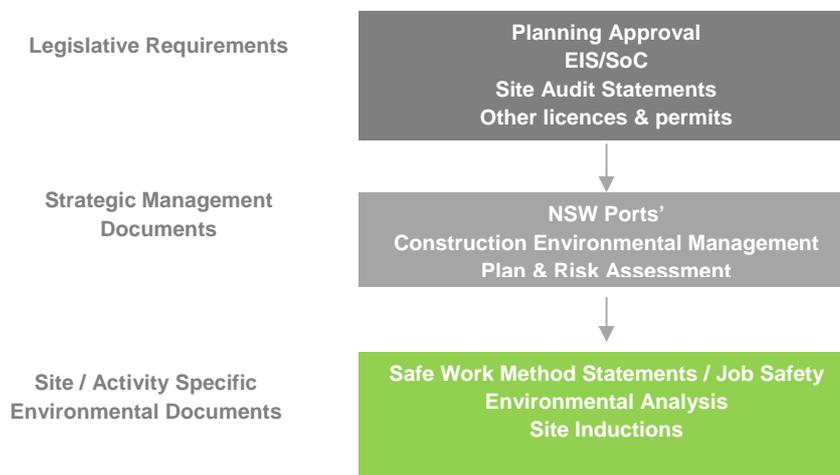
The general approach to the management and control of environmental impacts of construction activities undertaken by NSW Ports and / or its contractors under this CEMP is shown graphically in

Figure 2 below. The Risk Assessment and Mitigation Measures Register (Appendix F) provides an indicative risk assessment of the work activities covered by this CEMP (section 1.2.2) and typical mitigation measures and controls that could be implemented to manage the risks to acceptable levels.

Contractors undertaking construction on behalf of NSW Ports will be required to work under this CEMP but may utilize their own business and risk management systems and processes to develop any necessary site specific safety and environmental management documentation and induction materials including Safe and/or Environmental Work Method Statements (S/EWMS) / Job Safety Environmental Analyses (JSEA), taking into account the Risk Register in Appendix F, any relevant mitigation measures in the sub-plans in Section 3.3 and any site / task specific risks that may require other or additional mitigation measures and controls to be applied.

NSW Ports will also develop any necessary SWMS / JSEAs for any construction or related activities that it performs itself under this CEMP taking into account the Risk Register in Appendix F, any relevant mitigation measures in the sub-plans in Section 3.3 and any site/task specific risks that may require other or additional mitigation measures and controls to be applied. A sample EWMS guide is provided in Appendix E.

Figure 2: Environmental Management Approach



2.2 Hours of Site Preparation and Construction

Site preparation and construction activities that will generate an audible noise at any residential premises will be undertaken during the following hours,

- 7:00am to 6:00pm, Mondays to Fridays, inclusive;
- 8:00am to 1:00pm, on Saturdays; and
- At no times on Sundays or public holidays.

Approval will be sought from the Director-General for any works that will generate an audible noise at any residential premises, prior to construction commencing.

2.3 Environmentally Sensitive Areas

Environmentally sensitive areas within the ILC include those that could provide or have been created to provide habitat for the endangered Green and Golden Bell Frog (*Litoria aurea*), areas that contain items of heritage interest or value, stormwater water quality treatment basins, contamination that has been capped under pavements / clean fill / landscaping or areas set aside for ecological/potential community uses.

The environmentally sensitive areas are indicated in Appendix D (*ILC Sensitive Area Map*) and include:

- Capped contamination requiring ongoing management under a Site Management Plan (see section 2.3 below);
- The Frog Habitat Creation Area (including Frog Ponds) located near Coxs Creek
- Stormwater treatment and detention Basins B, D & F
- The Tarpaulin Factory and adjoining Heritage Interpretation Precinct
- Mount Enfield
- Eastern Ecological Area

Where works are occurring in, or may otherwise impact on, environmentally sensitive areas this will need to be communicated to personnel and contractors as part of their site induction training and in SWMS / JSEAs, Tool Box Talks and Pre-Start Meetings.

Note that no works are permitted to occur to the Tarpaulin Shed other than any necessary maintenance or stabilisation works.

2.4 Contamination and Site Management Plans

Contaminated soils and materials (mainly low level asbestos impacted soils and materials) have been safely secured on areas of the Enfield ILC site under clean capping layers and pavements and purpose built containment cells (for smaller quantities of more highly impacted material).

Remediated areas of the Enfield ILC site have been (or will be) certified by the Site Auditor appointed under the *Contaminated Land Management Act 1997* as being suitable for

commercial / industrial use prior to any operations occurring in remediated areas (as required under CoA 2.43).

Areas that have been capped and are subject to final Site Audit Statements (SAS) issued by the Site Auditor that may be subject to works being undertaken by NSW Ports under this CEMP are shown on the ILC Sensitive Area Map in Appendix D and listed below:

- Southern Precinct (Mount Enfield and Frog Ponds)
- Parts of the internal roads
- Basin F
- Warehouses A, B, D, E & F
- Containment Cell A within the Wheel Lathe Rail Corridor (Lot 15)

Any construction activities that may be carried out in these areas will be subject to the conditions imposed under the SASs for these areas, including any Site Management Plans referred to in the SASs.

2.5 Roles and Responsibilities

Any significant pollution incident must be reported immediately to NSW Ports' **General Manager Operations** who will coordinate the response to the incident with the assistance of relevant NSW Ports and contractor personnel.

NSW Ports' **General Manager, Planning and Infrastructure** (or their delegate, i.e. the Enfield Site Manager) is the Proponent's representative responsible for ensuring compliance with the Project Approval conditions.

The General Manager will be supported by NSW Ports' **Senior Planning and Environmental Manager (SPEM)** and other environmental staff, contractors and consultants where necessary, and will be responsible for:

- Managing the environmental compliance reporting and monitoring processes for NSW Ports
- Managing the environmental induction process for NSW Ports including preparation or approval of induction content
- Reviewing commercial agreements for contractors undertaking works for NSW Ports to ensure environmental obligations under the CoA are adequately addressed where necessary

- Ensuring any scheduled environmental inspections, compliance auditing of the implementation of this CEMP and any contractor environmental management documentation occurs as required under this CEMP or the approved Compliance Tracking Program
- Reviewing and approving the relevant environmental management documentation, including any risk assessments, EWMS, site inductions etc where necessary

The SPEM (or delegate) will generally be responsible for liaising and communications with:

- Contractors' environmental relations personnel
- Other ILC tenant's environmental personnel
- Any Environmental Representative/s for the ILC appointed under CoA 6.1
- Community and stakeholder representatives where required in relation to compliance with environmental requirements, incidents and complaints
- Environment and planning related government agencies including local councils

NSW Ports' **Logistics and Corporate Affairs Manager** will be forwarded all queries and complaints received via the project contact details provided in section 2.5 below and will disseminate to the SPEM for response if a construction environmental or planning related matter.

Where works covered by this CEMP are being carried by contractors on behalf of NSW Ports, they will also be required to also comply with any relevant CoA and this CEMP, and assist in responding to any complaints related to their works where required by NSW Ports as identified in their commercial agreement.

2.6 Enquiries and Complaints Response Procedure

This procedure applies to communications directed to NSW Ports' staff and contractors with regards to intermodal terminal activities at Enfield. Community/stakeholder complaints and general enquiries could be received through a number of avenues.

The contact details for the public to make general enquiries or lodge complaints about construction activities at Enfield ILC are:

Office Hours (0830 – 1600 Monday to Friday)

- Telephone: 1300 922 524 (NSW Ports switchboard)

- Fax: (02) 9296 4119
- Postal: Logistics and Corporate Affairs Manager, PO Box 297, Botany NSW 1455
- Email: enquiries@nswportsbotany.com.au

These details will be made available on a sign near the main entrances to the site in accordance with the requirements of CoA 5.2.

All general queries will be forwarded through to the NSW Ports Logistics and Corporate Affairs Manager who will respond or disseminate to other staff as appropriate. Early resolution to any complaints will be sought, a response provided and effort made to resolve the query/complaint in a timely manner.

Outside of Office Hours/Emergencies

Out of office hours enquiries that are directed to the NSW Ports switchboard are requested to leave a message which is responded to the following business day. The NSW Ports switchboard recorded message includes an option in the event of an emergency outside of office hours to divert to the NSW Ports General Manager, Operations.

All complaints received by NSW Ports will be recorded in the Complaints Register. The information captured in this register will include:

- date and time of the contact or complaint;
- means by which the contact or complaint was made (telephone, mail or email);
- any personal details of the individual who provided the information or complaint, or if no details were provided, a note to that effect;
- the nature of the comment or complaint;
- record of operational and meteorological condition contributing to the comment or complaint;
- any action(s) taken by NSW Ports in relation to the comment or complaint; including any follow-up contact with the individual who provided the information or complaint;
- if no action was taken by NSW Ports in relation to the comment or complaint, the reason(s) why no action was taken.

Queries and complaints received by NSW Ports relating to specific construction activities will be forwarded through to the relevant personnel and/or construction contractor where

required. Construction contractors undertaking works under this CEMP will also be required to maintain their own Complaints Register that will need to include the same information and details referred to above.

Complaints and Enquiries to Authorities

Complaints can be made by the public to regulatory authorities such as the EPA and Local Councils. If these complaints are passed onto NSW Ports the relevant personnel will respond, in consultation with any relevant contractor, as required. A response will be provided to the authority in the required timeframe notifying of the action taken to address the complaint and any resolution.

2.7 Environmental Monitoring

Background monitoring has previously been undertaken by SKM in preparation of the EIS for the Project or other contractors (chiefly Leighton Contractors) during the construction of the base infrastructure for the Project.

It is not envisaged that the limited nature and scope of works proposed to be carried out under this CEMP would require the establishment of any ongoing environmental monitoring or testing program.

Any monitoring or testing that may be required would typically be identified through the risk assessment process and carried out under the relevant contractor's or NSW Ports' EWMS or procedures applying to the works.

Where any monitoring is required to be carried out in response to a complaint or incident, this would be dealt with by NSW Ports and/or the relevant contractor on a case by case basis.

2.8 Environmental Inspections

Environmental inspections of any construction works or activities if required by the risk assessment would typically be undertaken on a frequency commensurate with the risk profile.

These inspections would be carried out by the relevant contractor's environmental personnel or the SPEM or delegate (for NSW Ports performed works).

A site inspection checklist template is provided at Appendix E as a guide, however, contractor or site / work specific checklists may be used alternatively where approved by the SPEM.

Such site inspections would also identify any corrective / preventative actions required and responsibility and timeline for completion. These actions would be monitored to ensure that they are closed out in the required time frame.

2.9 Compliance and Environmental Reporting and Auditing

Environmental and compliance audits and reporting are to be carried out and reported in accordance with the requirements of NSW Ports' *Compliance Tracking Program* (CTP) for the Enfield ILC approved under CoA 4.1. The current CTP is located at: <http://www.nswportsbotany.com.au/projects-and-planning/ilc-at-enfield/>

2.8.1 Environmental Audits

Currently, in December of each year, a full independent environmental audit is undertaken by a suitably qualified person/team approved by the Director-General. This requirement and timing may be changed from time to time in accordance with the provisions of the approved CTP under CoA 4.1. The implementation of any relevant CEMP/s would normally be assessed as part of the independent environmental audit.

2.8.2 Compliance Reporting

Currently, in July of each year, a Compliance Tracking Report for the Enfield ILC is provided by NSW Ports to the Director-General. This requirement and timing may be changed from time to time in accordance with the provisions of the approved CTP under CoA 4.1.

2.8.3 Records

NSW Ports and its contractors will be responsible for maintaining legible environmental records to demonstrate compliance with this CEMP, including:

- All monitoring and inspection reports;
- Internal and external audit reports;
- Reports of pollution incidents, environmental non-conformances and follow-up action;
- Reports of environmental complaints and follow-up action;
- Minutes of management review meetings, and actions required as a result; and
- Induction and training records.

Records are filed electronically on the Enfield ILC Project's shared drive and/or as a hardcopy in the environmental management filing system.

2.8.4 Document Currency and Review

There is no restriction on the distribution of this CEMP. The revision history of this document is provided on page 2.

The controlled copy of the current version of this CEMP will be maintained on the Enfield ILC Project's document control database.

This CEMP will be reviewed and, if necessary, updated as required if it:

- Does not adequately address the matters it is intended to address;
- Needs to be changed because of an audit outcome;
- No longer represents current or appropriate practice or is inconsistent with new legislation or guidelines;
- Is otherwise determined by NSW Ports as needing to be updated.

Minor changes, corrections and updates to this CEMP may be approved by the SPEM at any time. Significant changes or updates resulting in new document revisions will be forwarded to DP&I for their records.

2.8.5 Non conformances

NSW Ports or relevant contractor undertaking works under this CEMP are responsible for:

- Implementing actions to identify and correct causes of environmental non-conformance in the implementation/operation of the CEMP;
- Issuing non-conformances to initiate action to correct unsatisfactory environmental conditions;
- Verifying that corrective action has been effected;
- Reporting to respective management significant adverse environmental conditions, incidents or trends in the implementation/operation of the CEMP; and
- Recording changes to documented procedures as a result of non-conformances.

Details of non-conformances issued under this CEMP will be recorded in the relevant contractor's or NSW Ports' (as relevant) *Non Conformance Register* along with any preventative and corrective actions taken in response.

2.10 Induction and Training

NSW Ports and contractor personnel working on site are required to satisfactorily complete an Enfield ILC Site Safety Induction. Contractors may also develop their own site specific induction (that will include the Enfield ILC Site Safety Induction as a component) where necessary and approved by NSW Ports.

Other mechanisms of communicating environmental controls for specific works / sites / activities would be via an Environmental / Safe Work Method Statement (or similar e.g. JSEAs), Tool Box Talks and Pre-Start Meetings, all of which would be developed by the relevant contractor (or NSW Ports for its own works).

Site induction/s would typically include (but not be limited to):

- Key issues relating to the Enfield ILC Project and existing environment;
- ILC Sensitive Area Map (Appendix D)
- Location and protection of contaminated material retained on site including capped areas and containment cells
- Key environmental issues, location of sensitive areas and nearest sensitive receivers;
- Incident reporting procedures;
- Environmental protection offences and penalties, and duty to notify of environmental harm; and
- Roles and responsibilities relating to environmental management for the Project.

Attendance records of all induction training sessions will be maintained by the training party (NSW Ports and/or contractor).

Specific environmental training (other than inductions) may not be required for the works proposed to be carried out under this CEMP. The risk assessment process should identify any specific training needs that would need to be managed by NSW Ports or contractor.

2.11 Emergency Response and Incident Management

All significant environmental and pollution incidents shall be reported immediately to the:

- Contractor's Project Manager / Director (for works being undertaken by a contractor); and
- NSW Ports General Manager Operations.

For any incident determined by either of the above or an Environmental Representative appointed under CoA 6.1 to have actual or potential significant off-site impacts upon people or the biophysical environment a report outlining the event and impacts must be provided to the above within 24 hours of becoming aware of the incident.

A written report must be provided by NSW Ports to the Director-General within 7 days of any incident determined by NSW Ports General Manager Operations to have actual or potential significant off site impacts upon people or the biophysical environment.

2.10.1 Duty to Notify Pollution Incidents

Pollution incidents that harm or are likely to harm the environment will be reported by the relevant contractor's representative or NSW Ports' General Manager Operations to the relevant authorities (see below) in accordance with the *Protection of the Environment Operations Act 1997 – Duty to Notify*.

The following process will be followed for reporting a pollution incident under the *Duty to Notify* provisions.

- Firstly, call 000 if the incident presents an immediate threat to human health or property. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing incidents.

If the incident does not require an initial combat agency, or once the 000 call has been made, notify the relevant authorities in the following order. The 24-hour hotline for each authority is given when available:

- the EPA Environment Line - 131 555
- the local Public Health Unit – 1300 066 055
- the WorkCover Authority – 13 10 50
- Strathfield Municipal Council – 9748 9999
- Fire and Rescue NSW – 1300 729 579

Note: If the situation warranted calling 000 as a first point of notification, you do not need to ring Fire and Rescue NSW again.

The Department of Planning will need to be notified by the General Manager Operations in accordance with CoA 7.1 as soon as practically possible of any incident with actual or potential significant off-site impacts and then a written report of the incident provided to the Director-General within 7 days.

3. Implementation

3.1 Risk Assessment and Implementation

Prior to any site preparation or construction activity commencing, a risk assessment should be carried out by the relevant contractor (or NSW Ports for its own activities) using a risk assessment process consistent with Australian Standard, (AS/NZS 4360:2004) Risk Management and (ISO14001).

An environmental risk register for the Enfield ILC Project and a standard suite of environmental mitigation measures and controls have been developed as guidance for the scope of activities likely to be undertaken under this CEMP. These are set out in Appendix F.

A site/activity specific risk assessment may determine that the implementation of the mitigation measures and controls provided in 3.2.1 and activity/task specific controls in Appendix F is not sufficient to reduce the risks of environmental impacts to as low as reasonably practicable. In this case additional controls should be developed and implemented for new or site specific risks and additional rows are provided in the register in Appendix F to facilitate this.

3.2 Environmental Work Method Statement (EWMS)

Typically, a EWMS¹ (or equivalent such as a Safe Work Method Statement or JSEA) prepared by a contractor (or NSW Ports for its own activities) is the key on-ground method used to manage safety and environmental risks associated with a particular construction activity or task.

Following assessment of the likely environmental risks for the proposed construction activity / task and identification of mitigation measures and controls to be implemented using the process outlined in 3.1 above, an EWMS is to be completed and used to induct or brief the relevant personnel into the activity/work. A sample EWMS is also provided in Appendix E.

All of the requirements of CoA 6.3 relating to the management and mitigation of construction noise, traffic, heritage, landscape/ecology and dust need to be considered when carrying out works. Accordingly, the risk assessment and resulting EWMS must address and where appropriate and relevant include the standard input in 3.2.1 below.

¹ Sometimes referred to as an Environmental Safe Work Method Statement (ESWMS)

3.2.1 Standard ILC EWMS Content

- **Details of construction activities**
- **Standard approved hours of work**
- **Contact details for reporting environmental incidents, complaints and emergencies**
- **Practicable/reasonable mitigation measures to achieve the relevant construction noise goals (see Table 4 in Section 3.3.3) including as a minimum those listed in Section 3.3.3**
- **Practicable/reasonable mitigation measures to reduce the impact of construction traffic including as a minimum those listed in Section 3.3.1**
- **Details as to how construction traffic is to managed including:**
 - Movement of oversize loads
 - Heavy vehicle movement restrictions and routes
 - How road use conflicts will be avoided, particularly with local traffic
 - Construction waste transport
 - Parking
 - Laydown areas
- **Protection of heritage items**
 - No works are permitted to the Tarpaulin Shed or Pillar Water Tank other than necessary maintenance or stabilisation or heritage interpretation related works
 - If unexpected heritage item is found work is to cease immediately and NSW Ports SPEM notified immediately for further advice
- **Erosion and sediment controls required to minimise the discharge of sediment and other pollutants to waters including but not limited to, where required:**
 - Design of ERSED controls consistent with the Blue Book²
 - Covering of stockpiles with geofabric or other stabilising methods
 - Use of wheel wash/rumble grids
 - Covering of stormwater inlets with geofabric
 - Use of sand bags and silt fencing
- **Practicable/reasonable mitigation measures to reduce the impact of construction dust including as a minimum those listed in Section 3.3.1**

The ILC Sensitive Area Map provided in Appendix D may also be attached or used to develop the EWMS if relevant to the works proposed.

² *Managing urban stormwater: soils and construction (Landcom 2004)*

3.3 Environmental Sub Plans

As required under CoA 6.3 the following Sub-Plans have either been developed and attached as separate appendices to this CEMP or are covered by the process and standard measures outlined in section 3.2 above and/or the Risk Register in Appendix F.

Accordingly, the relevant requirements of these Sub-Plans will be included in EWMS as necessary.

3.3.1 Construction Traffic Management Protocol

Aim:

The aim of the construction traffic management protocol is to ensure that construction activities do not impact on the operation of the ILC and the surrounding road network.

Assessment of Risk:

The scope of works proposed under this CEMP will result in very minor construction traffic numbers with minimal impacts predicted and the majority of works unlikely to require the use of heavy vehicles. Where heavy vehicles are required (e.g. the delivery of plant / equipment), the contractor induction process and EWMS will include requirements for heavy vehicles to utilise main roads and avoid residential back streets. Any transportation of construction waste materials will be undertaken by suitably qualified waste contractors and all loads will be covered when leaving the site.

Where required, NSW Ports will notify the Road Transport Coordination Group of the proposed works prior to construction commencing, if consultation is warranted due to the risk profile of the works.

Mitigation Measures:

All contractors and NSW Ports staff working on site will implement the following controls to further reduce the impact of construction traffic, where applicable:

- On-site parking and lay-down areas will be clearly delineated and communicated to staff and contractors
- Signage and appropriate speed limits within the site will be implemented where applicable
- If roads need to be closed, relevant approvals will be obtained and traffic controllers will be utilised where required
- All contractors and staff will be required to comply with on-site traffic requirements

- No obstruction of public or internal roads by any materials/vehicles without obtaining the necessary approvals
- Vehicle movements/deliveries utilising heavy vehicles will be undertaken within the approved construction hours noted below and where possible, outside of peak traffic times (i.e. 8am to 9am and 5pm to 6pm):
 - 7:00am to 6:00pm, Mondays to Fridays inclusive
 - 8:00am to 1:00pm on Saturdays; and
 - at no time on Sundays or public holidays.
- Other project specific controls for traffic management as determined by the Risk Assessment (Appendix F)

Monitoring:

Impacts from construction traffic will be visually monitored by the NSW Ports project manager or the contractor's construction manager. If works are significantly impacting upon on-site traffic movements or in the event a traffic complaint is received, NSW Ports will facilitate a review of the work procedures and work with the contractors to resolve the matter. All complaints received are recorded in NSW Ports' Complaints Register and follow up actions implemented and recorded accordingly.

3.3.2 Construction Dust Management Protocol

Aim:

The aim of the Construction Dust Management Protocol is to prevent significant dust impacts which have the potential to negatively impact on other operators of the ILC site, the local community or the ecologically sensitive areas.

Assessment of Risk:

The majority of the ILC site has now been either landscaped or sealed. The works covered by this CEMP are not expected to result in large exposed areas which will generate significant dust impacts or trigger monitoring requirements under Condition of Approval 3.2. Prior to construction beginning, the contractor or NSW Ports Project Manager will review the proposed works for dust generating potential and appropriate mitigation measures will be implemented in accordance with the risk profile of the proposed works.

Mitigation Measures:

All contractors and NSW Ports staff working on site will implement the following controls to prevent exceedences of dust criterion, where applicable:

- Use of sealed or stabilised access roads wherever possible
- Minimise area of disturbance
- Revegetate disturbed areas as soon as possible in accordance with the Landscape and Ecological Area Management Plan (Section 3.3.5)
- Use of water carts or other stabilising agents
- Use of rumble grids/ballast grids
- Covering of stockpiles with geofabric
- Truck loads with potential dust generating loads will be covered when entering and leaving the site
- A 25km/hr speed limit during construction works
- Other project specific controls for dust management as determined by the Risk Assessment (Appendix F).

Monitoring:

NSW Ports staff and contractors will visually monitor dust levels during works and the EWMS will include the measures to be taken in the event of high winds, including cessation and re-scheduling of potentially dust generating works if required.

3.3.3 Construction Noise Management Plan

Aim:

The aim of the Construction Noise Management Plan is to prevent exceedences of the Construction Noise Goals outlined in Table 3 and reduce noise impacts on operators of the ILC and the local community.

Assessment of Risk:

The works proposed under this CEMP are varied and cover a number of proposed activities. Prior to each individual works contract being undertaken the EWMS will outline the details and scheduling for the activities to be completed.

None of the works proposed are expected to result in exceedences of the construction noise goals at the residential receivers outlined in Table 3 below. In the event that a particular activity is assessed as potentially affecting nearby residents, the impacted residents will be advised via a letterbox drop and the works scheduled for a time of day with the least impact. NSW Ports procedure for complaints management is outlined in Section 2.5 and will be communicated to any contractors working on site and maintained throughout the construction and operation of the ILC.

Table 3: Construction Noise Goals (from EIS, SKM 2005)

Ref	Address	Construction noise goal (dBA)
A1	Eastern end of Jean Street Strathfield South	54
A2	Eastern end of Ivy Street Strathfield South	53
A3	2 Wentworth Street (sth) Greenacre	49
A4	Eastern end of Gregory Street Strathfield South	49
A5	Western end of Blanche Street Strathfield South	46
A6	40 Bazentin Street Belfield	46

Mitigation Measures:

All contractors and NSW Ports staff working on site will implement the following controls to further reduce the potential for noise impacts, where applicable:

- Construction activities that will generate audible noise at any residential premises will be restricted to the following hours, unless prior written approval is granted from the Director-General:
 - 7:00am to 6:00pm, Mondays to Fridays inclusive
 - 8:00am to 1:00pm on Saturdays; and
 - at no time on Sundays or public holidays.
- Ensure all plant and equipment is maintained and operated in a proper and efficient manner
- Silencers and mufflers (residential standard) that comply with regulatory and manufacturers requirements
- Planning noisy activities for times of the day with least impact (i.e. avoiding early morning starts where possible)
- Non tonal reversing alarms (or other safe and silent reversing systems that meet WH&S requirements)
- Positioning of noisy equipment/plant as far as possible from sensitive receivers
- Installation of shielding / temporary noise barriers
- Other project specific controls for noise management as determined by the Risk Assessment (Appendix F)

Monitoring:

Should NSW Ports determine that the works may result in significant noise impacts at residential receivers, or in the event that a noise complaint is received, NSW Ports will investigate opportunities to implement noise monitoring and further mitigation options to ensure the construction noise goals are met. All complaints received are recorded in NSW Ports Complaints Register and follow up actions implemented accordingly.

3.3.4 Heritage Interpretation Plan and Strategy

A Heritage Interpretation Plan and Strategy (HIPS) (March 2008) and Strategy Addendum (September 2010) was developed and approved for the whole of the ILC site prior to main construction works commencing. Heritage interpretation works which have not been completed under previous stages of works will be undertaken in accordance with this CEMP. NSW Ports will continue to conform with these plans and apply the relevant recommended measures where applicable to manage heritage items on the site.

The HIPS and Addendum document can be found at: <http://www.nswportsbotany.com.au/projects-and-planning/ilc-at-enfield/>

3.3.5 Landscape and Ecological Area Management Plan

Landscape works have been undertaken on the site to date under the Mt Enfield Enhancement, Revegetation and the Landscape Management Plan which was developed as Appendix D of the Stage 3 Construction Environmental Management Plan (CEMP) Addendum: Onsite Reuse of Unsuitable Engineering Fill Management Plan (Leighton Contractors, February 2012). Furthermore, under this requirement, a Frog Management Plan (2010) and Frog Protection Plan (2009) were also developed to manage the frog ecological area.

Additional landscaping works are proposed to be undertaken on the site under this CEMP. Landscaping works will either be undertaken in accordance with existing Landscape Management Plans or a revised version of the Landscape and Ecological Area Management Plan, to be approved by the Department of Planning and Infrastructure. The EWMS will include the recommended measures from these plans.

The Mt Enfield Enhancement, Revegetation and the Landscape Management Plan can be found at: <http://www.nswportsbotany.com.au/projects-and-planning/ilc-at-enfield/>

3.3.6 Mount Enfield Stabilisation Management Plan

The Mount Enfield Stabilisation Management Plan was incorporated into the Stage 3 Construction Environmental Management Plan (CEMP) Addendum: Onsite Reuse of Unsuitable Engineering Fill Management Plan (Leighton Contractors, February 2012). This documentation was prepared as part of Modification Application 5, as approved by the Department of Planning and Infrastructure. NSW Ports will continue to conform to this plan and apply relevant recommended measures where applicable to manage the Mt Enfield area during construction works.

The CEMP Addendum can be found at: <http://www.nswportsbotany.com.au/projects-and-planning/ilc-at-enfield/>.

4. References

- Project Approval (Application No 05_0147) issued on 5 September 2007
- Enfield ILC Staging Report (November 2013)
- *Guideline for the Preparation of Environmental Management Plans (DIPNR 2004)*
- Environmental Assessment, Intermodal Logistics Centre at Enfield, SKM (October 2005)
- Preferred Project Report, Intermodal Logistics Centre at Enfield, SKM (June 2006)

APPENDIX A: LEGISLATION REGISTER

Environmental Law <ul style="list-style-type: none"> Subordinate Legislation 	Obligations	Approvals
<p>NSW Environmental Planning and Assessment Act 1979</p> <ul style="list-style-type: none"> <i>Environmental Planning and Assessment Regulation 2000 (Regs)</i> <i>State Environmental Planning Policy (State and Regional Development) 2011 (SEPP SRD)</i> <i>State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Codes SEPP)</i> <i>Other State Environmental Planning Policies as applicable to development (i.e. SEPP 33, SEPP 55, Infrastructure SEPP)</i> <i>Strathfield Local Environmental Plan 2012 (LEP)</i> 	<ul style="list-style-type: none"> Requirements under relevant legislation for exempt development (Part 4, Div 1 of Act; LEP and Codes SEPP) Environmental impact assessment to accompany development applications (Part 4 of Act; cl 50 and Part 1 of Schedule 1 of Reg) Information to accompany an application for a complying development certificate (cl 126 and Part 2 of Schedule 1 of Reg) and requirements under relevant legislation for complying development (LEP and Codes SEPP) Duty to consider environmental impact for activities which do not require consent (Part 5 of Act and cl 228 of Reg) Applications for approval of State Significant Infrastructure (s 115X of Act; cl 192-193 of Reg; Part 3 of SEPP SRD) Applications for approval of State Significant Development (s 89C – 89L of Act; cl 50 and Part 1 of Schedule 1 of Reg; Part 2 of SEPP SRD) 	<p>Development Consent and State Significant Development (Part 4, Div 2) Complying Development Certificate (Part 4, Div 3) Approval for “activities” which do not require development consent (Part 5) Approval for State Significant Infrastructure (Part 5.1)</p> <p><i>Note: transitional arrangements apply to approvals issued under the repealed Part 3A regime. Refer to Schedule 6A of the Act for details.</i></p>
<p>NSW Protection of the Environment Operations Act 1997</p> <ul style="list-style-type: none"> <i>Protection of the Environment Operations (General) Regulation 2009</i> <i>Protection of the Environment Operations (Clean Air) Regulation 2010</i> <i>Protection of the Environment Operations (Noise Control) Regulation 2008</i> <i>Protection of the Environment Operations (Waste) Regulation 2005</i> 	<ul style="list-style-type: none"> Requirements to hold a licence for scheduled development and scheduled activities (Part 3.2) Requirement to comply with licence conditions (s64) Publication of results of monitoring (s66(6)) Prohibition of wilful or negligent disposal of waste causing environmental harm (s115) Prohibition of wilful or negligent leak, spill or escape of substance causing environmental harm (s116) Prohibition of wilful or negligent emission of controlled ozone depleting substance causing environmental harm (s117) Prohibition on polluting waters (s120) Requirements to prevent air pollution (Part 5.4) Requirements to prevent noise pollution (Part 5.5) Prohibition on polluting land (s142A) Prohibition on transport of waste to an unlawful facility (s143) 	<p>Environment Protection Licence for carrying out scheduled development, scheduled activities or non-scheduled activities for the purpose of regulating water pollution (s43).</p> <p>Resource Recovery Exemption for waste re-use (cl 51, 51A, Waste Reg)</p>

Environmental Law <ul style="list-style-type: none"> Subordinate Legislation 	Obligations	Approvals
	<ul style="list-style-type: none"> Prohibitions on littering (Part 5.6A) Duty to notify pollution incidents (Part 5.7) Duty to prepare and implement pollution incident response management plans (Part 5.7A) Requirements relating to asbestos waste (cl 42, Waste Reg) 	
NSW Contaminated Land Management Act 1997	<ul style="list-style-type: none"> Duty to report contamination (s60) Requirements for Site audits (Part 4) 	Approval of a voluntary management proposal for significantly contaminated land (s17)
NSW Threatened Species Conservation Act 1995 <ul style="list-style-type: none"> Threatened Species Conservation Regulation 2010 	Refer to National Parks and Wildlife Act 1974	Licence to harm or pick threatened species, population or ecological communities or damage habitat (s91)
NSW National Parks and Wildlife Act 1974 <ul style="list-style-type: none"> National Parks and Wildlife Regulation 2009 	<ul style="list-style-type: none"> Prohibition of harm to protected fauna (Part 6) Restriction on picking or possession of a protected native plant (s117) Prohibition of harming or picking threatened species, endangered populations or endangered ecological communities (s118A) Prohibition of damage to habitat of threatened species, endangered populations or endangered ecological communities (s118D) Prohibition on damaging reserved land (s156A) 	Consent to destroy, deface or damage a relic or Aboriginal place (s90) Licence to harm or affect protected fauna (s120) Licence to pick protected native plants (s131)
NSW Heritage Act 1977 <ul style="list-style-type: none"> Heritage Regulation 2012 	<ul style="list-style-type: none"> Prohibition on movement, damage or destruction of historic shipwrecks (s51) Effect of interim heritage orders and listing on State Heritage Register (s57) Minimum standards of maintenance and repair (incl inspections) for heritage items (Part 6, Div 5 of Act; Part 3 of Reg) 	Approval for work which will affect heritage items (s57) Permit to excavate near a relic (s139)
NSW Work Health & Safety Act 2011 <ul style="list-style-type: none"> Work Health & Safety Regulation 2011 	<ul style="list-style-type: none"> Health and safety duties (Part 2) Duty to notify WH&S incidents (Part 3) Duty to identify hazards (cl 34 of Reg) Management of airborne contaminants (Part 3.2, Div 8 of Reg) Management of hazardous atmospheres (Part 3.2, Div 9 of Reg) Minimise storage of storage of flammable and combustible substances (Part 3.2, Div 10 of Reg) 	Licence for major hazard facilities (Cl 535 & Part 9.7 of Reg)

Environmental Law <ul style="list-style-type: none"> Subordinate Legislation 	Obligations	Approvals
	<ul style="list-style-type: none"> Manage risk of hearing loss due to noise (cl 57 of Reg) Obligations in relation to hazardous chemicals (Part 7.1 of Reg) Obligations in relation to lead (Part 7.2 of Reg) Obligations in relation to asbestos (Chapter 8 of Reg) Obligations in relation to major hazard facilities (Chapter 9 of Reg) 	
<p>NSW Dangerous Goods (Road and Rail Transport) Act 2008</p> <ul style="list-style-type: none"> <i>Dangerous Goods (Road and Rail Transport) Regulation 2009</i> 	<ul style="list-style-type: none"> Duties concerning the transport of dangerous goods (s9) Duties concerning the transport of dangerous goods to which special provisions apply (Part 3 of Reg) Duties in relation to packaging of dangerous goods (Part 4 of Reg) Consignment procedures for dangerous goods (Part 5 of Reg) Safety standards (vehicles and equipment) for dangerous goods (Part 6 of Reg) Transport operations relating to certain dangerous goods (Part 7 of Reg) Duties regarding stowage and restraint of dangerous goods (Part 8 of Reg) Duties regarding segregation of dangerous goods (Part 9 of Reg) Duties regarding bulk transfer of dangerous goods (Part 10 of Reg) Duties for documentation of dangerous goods for transport (Part 11 of Reg) 	<p>Licence for vehicles transporting dangerous goods (cl 191 of Reg)</p> <p>Licence for drivers of vehicles transporting dangerous goods (cl 192 of Reg)</p>
<p>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</p> <ul style="list-style-type: none"> <i>Environment Protection and Biodiversity Conservation Regulations 2000</i> 	<ul style="list-style-type: none"> Requirements relating to matters of national environmental significance (Part 3, Div 1) Environmental assessment and approval of controlled actions (Chapter 4 of Act, Part 5 of Regs) 	<p>Approval of a controlled action (s133)</p>
<p>NSW Roads Act 1993 <i>Roads Regulation 2008</i></p>	<ul style="list-style-type: none"> Requirement for public authorities to consult with RMS and receive approval for work on a classified road (s 75 of Act) Duty to consider impact of development on any road (Part 7 of Act) 	<p>Approval under s 75 of the Act for work on a classified road</p>
<p>NSW Road Transport Act 2013</p> <ul style="list-style-type: none"> <i>Road Rules 2008</i> <i>Road Transport (Driver</i> 	<ul style="list-style-type: none"> Requirement for approval from relevant roads authority for installation or removal of a traffic control device (Div 2 of Part 5.3 of Act) Duties concerning the lawful use of roads in NSW (Act and Regs) 	<p>Approval for a traffic control device</p>

Environmental Law	Obligations	Approvals
<ul style="list-style-type: none">• Subordinate Legislation		
<ul style="list-style-type: none">• <i>Licensing) Regulation 2008</i>• <i>Road Transport (General) Regulation 2013</i>• <i>Road Transport (Vehicle Registration) Regulation 2007</i>		

APPENDIX B: CONSULTATION WITH EPA



Our reference: DOC14/7237-01
Contact: Rhian Tough

Daniela Vujic
Senior Planning and Environmental Manager
NSW Ports
Level 2, Sydney Ports Operations Centre
Gate B103, Penrhyn Road
Port Botany NSW 2036

Dear Ms Vujic

**Intermodal Logistics Centre (ILC) at Enfield – Sydney Ports Corporation – Major Project No. 05_147
Consultation for preparation of Enfield ILC Overarching CEMP**

Thank you for your letter dated 24 January 2014 notifying the Environment Protection Authority (EPA) of the preparation of the Construction Environmental Management Plan (CEMP) for the Intermodal Logistics Centre at Enfield.

The EPA understands that the preparation of the overarching CEMP is a requirement of the project approval (condition 6.2d). The approval states that the CEMP must include consideration of measures to address EPA requirements during site establishment and construction.

Whilst the EPA supports the preparation of the CEMP for the project, the EPA does not usually provide comment regarding the content of environment management plans. It is the proponent's responsibility to ensure that all relevant legislative requirements are met. The EPA does however recommend that a CEMP contain detailed consideration of how possible environmental impacts will be managed.

If you require further information regarding environmental management issues and measures the EPA website (www.epa.nsw.gov.au) contains a variety of policies and guidance documents that may be of assistance.

If you wish to discuss this matter please contact Rhian Tough on 02 9995 6817.

 24/1/2014.

GREG SHEEHY
Manager – Sydney Industry
Environment Protection Authority

APPENDIX C: NSW PORTS ENVIRONMENTAL POLICY

The logo for NSW Ports, featuring the text "NSW Ports" in a white, sans-serif font. Below the text is a white, curved swoosh that underlines the word "Ports". The logo is set against a dark blue background that is part of a larger decorative wave at the bottom of the page.

NSW Ports

NSW Ports' Environment Policy

NSW Ports manages two of Australia's major seaports. In operating as a successful business, we will ensure we incorporate environmental considerations into relevant decision making. We will meet our obligations and strive to continually improve our environmental performance by adopting the following principles:

Planning

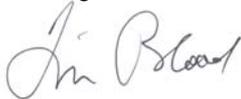
- Providing adequate resources, equipment and training for employees at all levels to fulfil their responsibilities in relation to the environment and their work practices.
- Implementing systems, standards and processes to enable our activities to be carried out with regard to our environmental responsibilities.
- Developing measurable environmental objectives and targets, including prevention of pollution.
- Conducting regular reviews of the company's environmental performance and implementing improvements as required.
- Addressing sustainable principles to improve our economic, environmental, social and cultural performance.
- Understanding future environmental risks and adapting to build capacity and ensure the longevity of the Ports infrastructure and operations.

Practices

- Including environmental considerations in our decision-making and business planning.
- Assessing and seeking to eliminate or minimise the environmental impacts of our activities on the natural environment and our local communities
- Identifying and reporting to senior management and the Board environmental hazards, near misses, incidents and impacts, and corrective and preventative actions taken.
- Ensuring compliance with all applicable environmental laws, regulations, policies and procedures.
- Striving to use resources efficiently, minimise waste, conserve biodiversity and prevent pollution.
- Monitoring our environmental performance.
- Maintaining emergency, fire protection and security systems and facilities to protect the environment.

People

- Appointing capable people with appropriate skills and experience to carry out their work in a manner that is compatible with sound environmental performance and this policy.
- Communicating with relevant stakeholders in relation to the company's environmental management activities.
- Working within our role as landlord to encourage and support our tenants and port users to focus on continually improving their environmental and sustainability performance.
- Ensuring employees, contractors and visitors who work at or make use of company facilities are aware of their obligation to operate in a manner that fulfils the organisation's environmental obligations and requirements.



NSW Ports – Managing Director

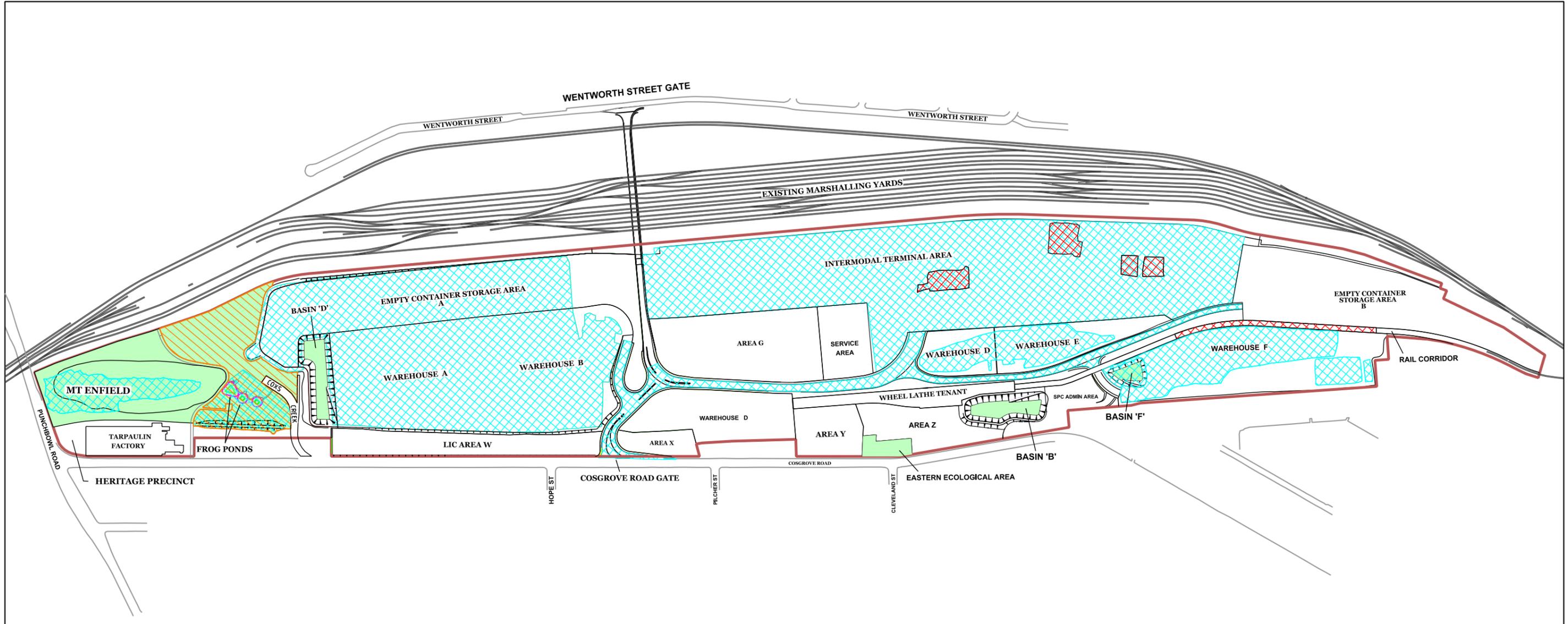
26th September 2013

Date



NSW Ports

APPENDIX D: ILC SENSITIVE AREA MAP



KEY:

	CAPPED AREAS		STORMWATER BASIN / ECOLOGICAL AREA		FROG HABITAT AREA		CONTAINMENT CELL
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PLAN LIMITATION STATEMENT
 This plan has been prepared in accordance with accepted practice for the use only of Sydney Ports Corporation for a specific purpose. No Warranty or representation, expressed or implied is made to any other party regarding this survey and plan. This plan should not be relied upon for any other purpose or use by any party including Sydney Ports Corporation as the plan may not contain sufficient information for that purpose or use.

THIS NOTE IS AN INTEGRAL PART OF THIS PLAN
NOTE: STATED MEASUREMENTS ARE INDICATIVE ONLY AND SUBJECT TO SURVEY
 Copyright © Sydney Ports Corporation

 ILC Site Boundary



NSW Ports
 ENFIELD
 PLAN PRODUCED ON MGA GRID

ILC SENSITIVE AREA MAP		
DRAFTED BY: A.J.K.	DATE: 30.01.2014	PLAN SCALE: AS PER SCALE BAR
PROJECT CODE:		DWG NO: SEDP214A

APPENDIX E: SAMPLE SITE ENVIRONMENTAL INSPECTION CHECKLIST TEMPLATE & EWMS GUIDE

ENVIRONMENTAL INSPECTION CHECKLIST TEMPLATE

Date:	Time:	Weather conditions:	
Attendees:			
Current activities:			
•			
Site activity report			
Are there any visible dust emissions from the site?	Are covered loads and sealed tailgates observed?	Is the site clean and free of waste, weeds and debris?	
Appropriate records in place (ie: waste & incident, induction registers etc)	Confirm Contractor is working to defined construction hours including more restricted hours for noisy work	Are liquid fuels & chemicals being stored in accordance with EPA guidelines & relevant standards?	
Is the site perimeter/boundary clearly marked?	Are non tonal reversing beepers being used?	Is waste material being sorted into the appropriate waste or recycling bin?	
Are siltation control measures in place around internal drains and water ways	Are temporary noise barriers being used?	Is there a spill kit on-site?	
Are all siltation control measures working effectively?	Does equipment appear to be in appropriate working order (noise, exhaust, leakage)?	Is there any evidence of contamination, spills having occurred during construction?	

Evidence of any offsite discharges?		Is excavated material stockpiled in designated stockpile areas only?		Are dust control measures in place (eg water carts, sprinklers etc)?	
Are the roads clear of dust/mud tracked from the work site?		Are truck movements in accordance with the traffic control plan?		Are construction vehicles queued along public roads near the worksite?	
NA – Not Applicable, NC – Not Checked					

<i>Previous Identified Issues</i>	<i>Date first raised</i>	<i>Action proposed/observed</i>	<i>Closed Out</i>

Identified Site Based Issues Today

No.	Identified Issue/ <i>Resolution</i>	Priority - See below
<p>Immediate: to be addressed straight away and closed out on day of inspection High: Within 24 hours Medium: Within 3 working days Low: Within 5 working days Note: For information or consideration only, no action required</p>		

Other aspects discussed / addressed (e.g. documentation, audit, planning..)

No.	Aspect

ATTACH PHOTOS, PLANS ETC IF REQUIRED

ENVIRONMENTAL WORK METHOD STATEMENT (EWMS)

Site / Activity

Scope

1. **Summary/Purpose of Activity:**

2. **Objectives of this EWMS**

3. **Area/Location of Activity/Site:**

4. **Timing of works/Expected duration:**

5. **Consultation Requirements:**

6. **HOLD POINTS**

7. **Incident Response**

Work Method

#	Sequence of Work Activities <i>How will the work be done?</i>	Potential Hazards <i>What harm can occur?</i>	Risk <i>High-Med-Low</i>	Safeguards/controls <i>How can the risk be minimised?</i>	Responsibility <i>Who will ensure that controls are in place?</i>
Prior to construction					
HOLD POINT (if required)					
During construction					
HOLD POINT (if required)					
Post construction / operation					

Toolbox – Prestart

The objective of this toolbox is to ensure that all personnel are aware of their responsibilities and the environmental work method to be followed when carrying out the activity.

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Signoff

We the undersigned, confirm that the EWMS nominated above has been explained and its contents are clearly understood. We also clearly understand the controls in this EWMS must be applied as documented or as shown on the Drawings and Erosion Sediment Control Plans. These documents will be revised as required to reflect site conditions or to reflect advice received from relevant experts. Works will not proceed without changes being incorporated onto these documents.

Name	Position	Employer	Signature	Induction No.	Date

Approved:

APPENDIX F: RISK REGISTER

The following tables may be used as a guide in determining the level of risk for each environmental issue. For each identified issue, consider the maximum 'credible' (not absolute worst case) risk that could result with minimal or no controls other than existing and using normal construction practices. Plot the letter and number selections on the Level of Risk Matrix to determine applicable ranking:

Likelihood (Probability & Frequency of Occurrence)			Consequence (Outcome or Severity of Occurrence)		
C	Almost Certain	The event is expected to occur in most circumstances	5	Catastrophic	Severe environmental harm or contamination resulting in permanent environmental damage Endangered species and habitat destroyed
L	Likely	The event will probably occur in most circumstances	4	Major	Very serious long term environmental harm or contamination that takes years to recover Damage to protected species or habitat
P	Possible	The event should occur at some time	3	Moderate	Significant environmental harm that requires weeks for recovery. Environmental incident involving protected species or habitat
U	Unlikely	The event could occur at some time	2	Minor	Minor transient environmental harm that requires days for recovery. No protected habitat or species affected
R	Rare	The event may occur only in exceptional circumstances	1	Insignificant	Minor localised environmental harm rectified within hours. No protected habitat or species affected

Level of Risk (Risk Rating)					
Likelihood	Severity				
	1-Insignificant	2-Minor	3-Moderate	4-Major	5-Catastrophic
5-Almost Certain	M-5	H-10	VH-15	VH-20	VH-25
4-Likely	M-4	H-8	H-12	VH-16	VH-20
3-Possible	L-3	M-6	H-9	H-12	VH-15
2-Unlikely	L-2	M-4	M-6	H-8	H-10
1-Rare	L-1	L-2	L-3	M-4	M-5

Legend		Control Examples
L	LOW RISK [1-3] Broadly acceptable - Manage by routine procedures	EWMS/Competency
M	MODERATE RISK [4-6] Tolerable – With identified controls fully implemented	Traffic Mgmt Plan, Lift Plan, Environmental Management Plan
H	HIGH RISK [8-12] Undesirable - Additional controls required to reduce risk	Management Intervention
VH	VERY HIGH RISK [15- 25] Intolerable - Do not start activity	Replan, change method, eliminate the task

Aspect/Activity	Potential Environmental Impact	Initial Risk Rating			Control Measures to be included in SWMS (those in bold are mandatory) ³	Residual Risk Rating		
		P X	C =	Risk		P X	C =	Risk
Approvals and Licensing								
Not identifying appropriate approvals / licenses required or proceeding without them prior to works commencing.	Works delayed, infringements, and reputational loss.	U	4	H	Check Environmental Assessment / REF / EIS and statutory documentation. Check legislation register in CEMP. Include any contractor responsibilities for approvals in contract documentation. Document requirement in EMP.	R	4	M
Noise								
Works required to be undertaken outside of standard construction hours.	Disturbance to residents or neighbouring businesses with potential for complaints.	U	3	M	Determine/assess if works inaudible and if not gain approvals required to work outside standard approved hours from DP&I. Implement noise mitigation strategies for standard hours work (section 3.3.3) plus the following where reasonable/feasible: <ul style="list-style-type: none"> No high noise generating work such as rockbreaking or saw cutting after 10pm where possible Prior notification of OOHW & provision of 24/7 contact details Other measures negotiated directly with affected receivers 	R	3	L
High noise or vibration construction activities (rockbreaking, saw cutting, impact piling etc) resulting in impact to residents.	Disturbance to residents or neighbouring businesses. Potential for complaints.	R	2	L	Monitor compliance with standard working hours for construction activities Implement noise mitigation strategies for standard hours work (section 3.3.3), at a minimum the following: <ul style="list-style-type: none"> Installing and maintaining, wherever practicable, efficient silencers, low noise mufflers (residential standards) and by replacing reversing alarms with alternative silent measures (subject to WHS requirements) plus the following where reasonable/feasible <ul style="list-style-type: none"> Provide periods of respite from high noise generating activities. 	R	2	L

³ Control measures in bold are those required to address the noise, traffic, heritage, landscaping and dust management requirements of CoA 6.3

Aspect/Activity	Potential Environmental Impact	Initial Risk Rating			Control Measures to be included in SWMS (those in bold are mandatory) ³	Residual Risk Rating		
					<ul style="list-style-type: none"> Provide prior notification to affected residential receivers of high noise or vibration generating activities 			
Waste								
Disposal of construction wastes	<p>Incorrect disposal of waste, further costs incurred for classifications and disposal, fines may be issued.</p> <p>Pollution of the land and waterways by waste that has been washed, blown, deposited or otherwise from the site.</p> <p>Illegal waste disposal. Waste of natural resources.</p>	P	2	H	<p>Identify opportunities to incorporate recovered materials into the permanent works. Recycle pavement material on site for incorporation into the works.</p> <p>Provide facilities on site for source separation and recycling.</p> <p>Ensure accurate waste records are retained.</p> <p>Removal of wastes from the site would only be undertaken by a licensed contractor as required by the POEO Act and with appropriate approvals, if required, for contaminated materials, etc.</p> <p>All material to be recovered off-site to be appropriately classified in accordance with the Resource Recovery Exemptions.</p> <p>All material that requires off-site disposal to be appropriately tested and classified against the Waste Classification Guidelines (DECC, 2008).</p> <p>Transport of hazardous and/or industrial and/or Group A waste will be conducted in accordance with DECC requirements.</p> <p>Should potentially asbestos containing materials be identified, works will cease and licensed asbestos contractors will be engaged and the waste managed in accordance with POEO Act legislation.</p>	U	2	M
Washout of concrete	Sediment laden/alkaline water polluting bioretention basins and/or surrounding stormwater system / watercourses.	P	2	H	<p>Create designated concrete washout area locations.</p> <p>Concrete wastes to be disposed of appropriately off site</p>	U	2	M
Dust and sedimentation								
Excavation and ground disturbance works	<p>Disturbance to residents or neighbouring businesses. Potential for complaints.</p> <p>Pollution of land and waterways by dust that has been blown,</p>	P	2	M	<p>Implement dust mitigation strategies for works (outlined in section 3.3.2), at a minimum including:</p> <ul style="list-style-type: none"> Ensure all vehicles entering and leaving the site carrying dust generating loads are covered 	L	2	L

Aspect/Activity	Potential Environmental Impact	Initial Risk Rating			Control Measures to be included in SWMS (those in bold are mandatory) ³	Residual Risk Rating		
	deposited or otherwise from the site Pollution of the waterways by sediment that has been washed, blown, deposited or otherwise from the site.				<ul style="list-style-type: none"> Implement cessation of works procedures during high wind events 25km/hr speed limit during construction All stockpiled materials will be adequately located, stabilised and maintained to prevent erosion Install and maintain erosion and sediment control measures in accordance with the Blue Book			
Contamination								
Excavation within capped areas	Health effects resulting from airborne contamination, e.g. asbestos due to unintended contact with contaminated material. Unintended damage to capping layer Non compliance with Site Audit Statement requirements regarding ongoing management of retained contamination	AC	3	H	Comply with relevant Site Management Plan for area including obtaining prior approval from NSW Ports or ER for any works that penetrate the capping layer Include details of capping layer extent and nature in induction If unexpected contaminated material or marker layer is encountered, all works are to stop in the vicinity of the find and the SPEM or ER notified.	U	2	M
Hazardous Materials								
Storage of hazardous substances, fuels and chemicals.	Localised ground contamination / pollution of stormwater and requiring cleanup and/or receiving fines. Risk of igniting volatile substances. Unauthorised access to site / potential vandalism/damage leading to pollution.	U	3	M	Induction, toolbox talks and training on appropriate handling and storage of liquids and location and use of spill kits Install temporary bunding or spill containment measures Identify and isolate storm water drains from containment areas where possible. MSDS approved prior to bringing hazardous substances on site including risk assessment. Clearly label containers. All liquids i.e. fuels, paint etc are to be securely locked away at the end of each day.	R	3	L
Biodiversity								

Aspect/Activity	Potential Environmental Impact	Initial Risk Rating			Control Measures to be included in SWMS (those in bold are mandatory) ³	Residual Risk Rating		
Works within or adjacent to Frog Habitat or Eastern Ecological Area	Impact on endangered Green & Golden Bell Frog	P	4	H	<p>Consult NSW Ports herpetologist if required prior to undertaking any works in such areas and to identify any necessary mitigation measures</p> <p>All personnel to be inducted into ILC Sensitive Area Map which includes location of these areas</p> <p>A visual frog clearance survey will be undertaken prior to works commencing within or adjacent to the Sensitive Area</p> <p>Frog exclusion fencing must be erected where recommended by the herpetologist</p> <p>Implement actions where relevant from the Sydney Ports Frog Management Plan and Frog Protection Plan</p> <p>Identify and remove on-site noxious weeds</p>	U	2	M
Demolition								
Works involving demolition activities	<p>Dust and noise impacts and potential exposure to hazardous materials</p> <p>Illegal disposal of demolition wastes</p>	L	3	H	<p>All demolition work to be carried out in accordance with AS 2601-2001 The Demolition of Structures by an appropriately licenced / accredited demolition contractor</p> <p>Hazardous materials survey of structures to be undertaken by appropriately licensed/accredited specialist prior to any demolition works commencing</p> <p>High noise generating works controls to be implemented as per above</p> <p>Demolition works to be carried out during standard hours only unless otherwise approved</p> <p>Preparation of a Waste Management and Recycling Plan for the demolition works</p> <p>All wastes removed from site to disposed of to appropriately licensed facility by licensed waste transporter</p>	U	2	M
Archaeology & Heritage								
Unexpected heritage items encountered.	<p>Exposure, loss or damage of artefacts or items of heritage value previously unidentified</p> <p>Work delays, additional studies, approvals required, damage to</p>	R	3	L	Should any items be discovered, works will cease in the area immediately and the SPEM or Environmental Representative advised.	R	3	L

Aspect/Activity	Potential Environmental Impact	Initial Risk Rating			Control Measures to be included in SWMS (those in bold are mandatory) ³	Residual Risk Rating		
NEW ACTIVITY/ASPECT (as/if required)								
NEW ACTIVITY/ASPECT (as/if required)								
NEW ACTIVITY/ASPECT (as/if required)								