

# Environmental control map guideline

June 2023



# Acknowledgement of Country

Transport for NSW acknowledges the traditional custodians of the land on which we work and live.

We pay our respects to Elders past and present and celebrate the diversity of Aboriginal people and their ongoing cultures and connections to the lands and waters of NSW.

Many of the transport routes we use today – from rail lines, to roads, to water crossings – follow the traditional Songlines, trade routes and ceremonial paths in Country that our nation's First Peoples followed for tens of thousands of years.

Transport for NSW is committed to honouring Aboriginal peoples' cultural and spiritual connections to the land, waters and seas and their rich contribution to society.



## Document control

Document owner	Senior Manager, Assurance and Performance Improvement
Approved by	Executive Director, Environment and Sustainability
Branch / division	Environment and Sustainability / Safety, Environment and Regulation
Review date	June 2025
Superseded documents	DMS-SD-015/9.0 - <i>Guide to Environmental Control Map</i>

## Versions

Version	Date	Amendment notes
3.0	Dec 2009	Updated to reflect restructure of P&E group and document owner
4.0	Jul 2010	Reformatted for TCA transition and revised governance structure.
5.0	Nov 2011	Reformatted for Transport Projects transition and revised governance structure.
6.0	Apr 2013	Section 7 updated – replaced the ECM examples with better examples.
7.0	Apr 2015	Updated to be published to TfNSW website
8.0	Apr 2016	Annual Review, TSR under Section 3 updated; changed also made to reflect the change in organisation structure.
8.1	Dec 2018	Rebranded to IP.
8.2	Aug 2019	DMS update
9.0	Dec 2019	DMS-SD-015/9.0 - <i>Guide to Environmental Control Map</i> reviewed, no changes.
10.0	June 2023	Reviewed, rebranded, new document number and title changed to <i>Environmental control map guideline</i>

## Related policy and supporting information

- [Transport Environment and Sustainability Policy](#)
- [Environment & Sustainability Management Framework](#)

## Contacts and further information



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# 1. Purpose and scope

An environmental control map (ECM) is a document prepared to assist in the construction planning and delivery of projects delivered on behalf of Transport for NSW (Transport). An ECM identifies the location of physical protection measures, work method controls and monitoring requirements to minimise the impact of project activities on the environment and community in and adjoining a specific work area.

Detailed construction methodologies are generally not advanced at the planning approval stage of a project and are only developed once a preferred delivery partner is selected and detailed design and construction planning commences. An ECM allows for a focused risk assessment of the environmental and community impacts of specific work areas and activities, and is a practical document to assist the delivery partner in implementing environmental plans and policies.

This document provides guidance in relation to the development of an ECM.

# 2. Definitions

Term	Definition
Delivery partner	Contractor carrying out tasks and activities on behalf of Transport.
ECM	Environmental control map
EIA	Environmental impact assessment
EMR	Environmental Management Representative (Approval under Division 5.1 of the <i>EP&amp;A Act</i> ), Environmental Representative (Approval under Division 5.2 of the <i>EP&amp;A Act</i> ). For the purposes of this document, these terms may be used interchangeably. The EMR is independent to Transport
Transport Environment and Sustainability Representative	This includes: <ul style="list-style-type: none"> <li>• Environment and Sustainability Officer</li> <li>• Senior Environment and Sustainability Officer</li> <li>• Environment and Sustainability Manager</li> <li>• Senior Manager Environment and Sustainability</li> </ul> Within Rail Development and Delivery Projects.
Transport	Transport for NSW

### 3. Environmental control map development

The purpose of an ECM is to document the environmental and community controls to be applied to project activities and work areas. An ECM details specific control measures identified in the EIA and onsite management actions identified as part of construction work method and risk assessments. The ECM must specify:

- Where environmental controls are located and how they are utilised.
- Where and when environmental monitoring is to occur.
- How environmental control measures are communicated to project personnel.

An ECM represents the practical application of environmental controls, statutory compliance and licence requirements (if applicable) at the work site. An ECM is the culmination of a project's environmental impact and risk assessment processes. An ECM should be a concise 'statement of action' and not a 'plan for further action'.

If required by Transport, the delivery partner appointed to a project must prepare ECM/s. The delivery partner must use an experienced environmental practitioner to assist with its preparation. It should be drafted using a computer-based software drawing or graphical tool such as Geographic Information System (GIS), Computer Aided Design (CAD) or use electronic aerial photographs from spatial information datasets.

In accordance with relevant conditions of approvals or control measures, ECMs must be prepared and implemented prior to construction commencing for a project or component of a project and as a part of the detailed construction work method planning. They must be endorsed by the project Environmental Management Representative (EMR) (where relevant) or a Transport Environment and Sustainability (E&S) representative prior to the works commencing.

ECMs for a project are to be reviewed or updated regularly as the nature of the work site or work activity substantially changes. ECMs are to be placed in site sheds or other central and visible locations for reference by all project personnel.

ECMs should be used in project inductions, toolbox talks work site set-up, reviewing ongoing environmental performance, included as information in tender documents to subcontractors where applicable and in support of ancillary environmental approvals (i.e. council, Department of Planning and Environment, etc.).

## 4. Content of an environmental control map

An ECM should contain the following information (where relevant):

- Worksite layout and boundary including entry/exit points and internal roads.
- North point, legend, scale, names of major roads and landmarks.
- Key project traffic routes within and adjacent to the worksite and key traffic management measures (traffic controllers, cueing zones, warning signs, etc).
- Location of:
  - nearest noise sensitive receivers
  - monitoring equipment (e.g. dust, noise, vibration monitors)
  - site offices
  - worker car parking and any parking restrictions
  - spill containment and clean-up equipment
  - stormwater drainage and watercourses leading to/from the worksite
  - worksite waste management facilities
  - environmentally-sensitive areas (e.g., threatened species, critical habitat, contaminated areas, etc.)
  - known heritage (Aboriginal and non-Aboriginal) items.
- Location and type of erosion and sediment control measures including size/capacity of sediment basins and stabilised site entry points.
- Dust control measures.
- Vegetation and trees to be protected.
- Vegetation and trees to be removed with actions required prior to removal.
- Restrictions on certain activities (e.g., rock breaking and driven piling).
- Key project stages and timeframes for the works, contact details (including after hours) for key staff (including contractor's environment manager and environmental management representative (if applicable) and/or Transport E&S representative).
- Hours of work applicable to the worksite (including deliveries and any restrictions on high-noise generating activities).
- Construction Response Line number (1800 775 465).
- Transport Project Infoline number (1800 684 490).
- Stop work requirements for unexpected finds, incident response and notifications. Refer to relevant guidelines (i.e. Transport's *Environmental incident procedure* (EMF-EM-PR-0001) and *Unexpected Heritage Finds Guideline* (DMS-SD-115).
- Key environmental risk issues and the specific mitigation measures.
- Document control and approval details.

## 5. Examples of environmental control maps

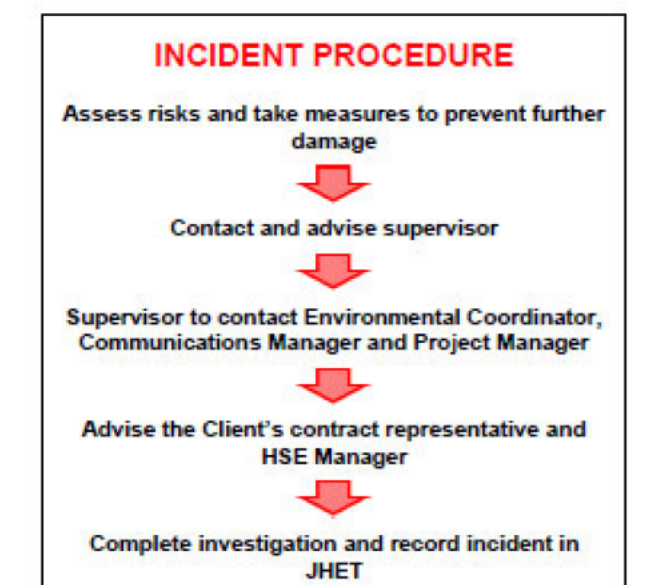
### 5.1 ECM example 1



**ECM 1 OF 4: Environmental Control Map Mitigation Measures**

General
Misc Construction Controls to Avoid Environmental Incidents
OOHW as approved by TfNSW and standard working hours throughout 2020.
No works to be undertaken outside of these hours without prior approval from TfNSW.
Fatigue monitored to ensure environmental & safety incidents are avoided.
Plant and equipment to be operated by a trained competent and authorised person only.
Pre-mobilisation Inspection for all plant and equipment.
Licensed Asbestos Contractor Class A for removal of Friable Asbestos and Class B for Bonded Asbestos.

Environmental Risks	
Impact	L*C
Noise Pollution	[M]
Water Pollution	[M]
Air Quality	[L]
Chemical Spills	[L]
Waste and Resource	[M]
Flora & Flora	[L]
Housekeeping	[M]
Traffic Management	[M]
Heritage	[L]



All Environmental incidents to be reported immediately to I&P Project Manager and Environmental Representative and entered into INX within 4 hours of the incident

Project Contacts		
Project Title	Name	Contact No.
Next Rail Project Manager	[REDACTED]	[REDACTED]
Next Rail Construction Manager	[REDACTED]	[REDACTED]
Next Rail Alliance Environmental Manager	[REDACTED]	[REDACTED]
I&P Project Director	[REDACTED]	[REDACTED]
I&P Senior Environment & Planning Manager	[REDACTED]	[REDACTED]
Next Rail Environment and Planning Manager	[REDACTED]	[REDACTED]
Next Rail Community Engagement Manager	[REDACTED]	[REDACTED]
Next Rail Site Supervisor	[REDACTED]	[REDACTED]
Next Rail Project Superintendent	[REDACTED]	[REDACTED]
EPA Pollution Hotline		131 555
WIRES – Animal rescue		1300 094 737
Transport Project Information Line		1800 684 490
TfNSW 24 Hour Urgent Complaint Line		1800 775 465
Emergency – Fire and Rescue		000

Working Hours	
Standard Working Hours	
Mon – Fri → 0700Hrs to 1800Hrs	
Sat - Sunday & Public Holidays* → 0700Hrs to 1800Hrs	
*COVID Working Hours: The NSW Government have amended working hours for projects. Weekend work now mimics standard construction hours.	
<b>ALL HOURS OUTSIDE OF THESE TIMES AND ON PUBLIC HOLIDAYS ARE TO BE CONSIDERED AS OOHW</b>	
High noise and vibration generating activities (including rock breaking and jack hammering) must be carried out in continuous blocks, not exceeding 3 hours each, with minimum respite period one hour between each block.	

Contamination	
Controls / Actions	Responsibility
Unidentified Contamination – Upon identification/suspicion of contaminants, work will cease and a Hygienist will be engaged to investigate.	Site Personnel
The Substation site is an area of known asbestos contamination, all work should be undertaken in accordance with JHG Asbestos Management Plan.	Senior Project Manager Site Engineer Site Supervisor

Noise Management	
Controls / Actions	Responsibility
No works to occur outside standard construction hours, unless otherwise approved by TfNSW.	Senior Project Manager Site Engineer Site Supervisor
Implementation of TfNSW's Construction Noise & Vibration strategy.	Senior Project Manager Site Engineer Environmental Representative
Comply with OOHW conditions of approval.	Senior Project Manager Site Engineer Site Supervisor

Waste and Resource Consumption	
Controls / Actions	Responsibility
Prevent waste being blown or washed outside of areas controlled by Next Rail.	Site Supervisor
Waste generated from workers consumables to be disposed of in bins.	Site Supervisor
All waste, including any spoil generated by potholing works contained within the sucker truck/liquid waste bins, will be removed from site as liquid waste and disposed of at licensed facilities.	Environmental Representative
All waste will be classified and managed in accordance with the NSW Environment Protection Agency (EPA) Waste Classification Guidelines.	Project Engineer Environmental Representative

Air Quality Management	
Controls / Actions	Responsibility
Avoid works during unfavourable weather conditions, i.e. high wind periods.	Senior Project Manager Site Supervisor
'Plant/equipment will cease where excessive emission of black smoke from the responsible plant/equipment is observed'.	Site Supervisor
Prevent mud and dirt being tracked onto sealed road surfaces.	Site Supervisor
Work areas to be serviced by water cart if required.	Site Supervisor
Slower driving is encouraged across dusty surfaces to minimise potential for dust generation.	Site Supervisor

Soil and Water Management	
Controls / Actions	Responsibility
Appropriate erosion and sediment controls will be installed in accordance with Blue Book for stormwater/rail corridor drains (as required). Monitor the sediment and erosion controls – repair and reinstate where these are damaged.	Site Supervisor Environmental Representative Senior Project Manager
Implement erosion and sediment controls as per Erosion and Sediment	Site Supervisor

Control Measures (see ECM 2, 3 and 4).	
Water will not be discharged unless approved. If required, all water discharge will be carried out in accordance with TfNSW Water Discharge & Guidelines.	Project Engineer Environmental Representative

Chemical Storage	
Controls / Actions	Responsibility
Chemicals, fuels and oils to be stored in the securely bunded area within the storage area.	Project Engineer Site Supervisor
Bunds to be of sufficient capacity to contain 110% of the volume of the largest container. Bunded areas must have sufficient cover to prevent ingress of rain.	Project Engineer Site Supervisor
Spill kits and absorbent material to be located in the site supervisor's ute and in compound area.	Site Supervisor

Refuelling / Servicing	
Controls / Actions	Responsibility
Spill kits to be located in close proximity to refuelling operations.	Site Supervisor
Only minor servicing activities are to be undertaken on site. >20m from drainage lines.	Site Personnel
Ground protection measures such as drip trays and plastic sheeting must be installed prior to servicing activities.	Site Personnel
Prevent the discharge of pollutants to stormwater. Undertake regular checks of equipment to ensure leaks and spills are rectified and cleaned immediately.	Site Supervisor Site Personnel

Flora and Fauna Management	
Controls / Actions	Responsibility
If encountered, leave fauna alone and contact Supervisor, Environmental Rep and Senior Project Manager.	Site Personnel
No Vegetation to be trimmed or removed without prior approval. If required, vegetation pruning or removal will be subject to additional approval and undertaken in accordance with TfNSW's guidelines.	Site Supervisor Environmental Representative
Wildlife Information, Rescue and Education Service (WIRES) will be contacted to relocate fauna offsite and to a suitable habitat area.	Environmental Representative

Heritage	
Controls / Actions	Responsibility
TfNSW Unexpected Heritage Find Procedure 4TP-SD-115 will be implemented in case of any unexpected aboriginal or non-aboriginal heritage item is found on sit	Site Supervisor

ECM 2 OF 4: Community Engagement



Community Engagement	
Access to local businesses and residential properties would be maintained at all times (unless affected property owners have been consulted and appropriate alternative arrangements made).	Site Supervisor
Communication would be provided to the community, local residents and businesses to inform them of changes to parking, pedestrian access and/or traffic conditions including vehicle movements and anticipated effects on the local road network relating to site works.	Community Manager
Heavy vehicle movements required as part of construction of the Proposal near Mascot Public School would be restricted during peak times and school zone hours. It may also be necessary to undertake other construction activities, such as concrete pours, crane lifts and delivery of oversized materials, outside standard construction hours to minimise traffic disruption	Site Supervisor Community Manager Senior Project Manager
The community would be kept informed of construction progress, activities and impacts in accordance with the Community Liaison Management Plan to be developed prior to construction.	Community Manager
Traffic Management	
Safe exit and entry to the site is maintained at all times, pedestrian signage advising pedestrians of alternative routes must be erected prior to works.	Site Supervisor
Works must be undertaken in accordance with the approved CTMP for the combined worksite. The CTMP has been developed in consultation with TfNSW, Sydney Coordination Office, Bayside Council, State Transit Authority and the Taxi Council.	Site Supervisor Community Manager Environmental Manager Senior Project Manager
Controls should be reviewed regularly to ensure there are no additional traffic hazards that aren't being addressed.	Site Supervisor Senior Project Manager



**Erosion and Sediment Controls (ESC):**

✓ All erosion and sediment controls are to follow the requirements of the Blue Book *Managing Urban Stormwater, Volume 1, 4<sup>th</sup> Edition, March 2004.*

These ESC measures are included for the project site and are illustrated in this Plan as follows:

- ✓ Appropriate erosion and sediment controls to be placed over stormwater/rail corridor drains (as required).
- ✓ All temporary stockpiling of materials will take place away from drains.
- ✓ Contamination investigation - Excess soil will be collected in a clean plastic lined bag and sent to the laboratory for soil sampling. After classification laboratory testing, it will be disposed at licenced facility.
- ✓ All spoil generated as a result of hydraulic excavation and will be contained within a sucker truck and liquid waste bins and will be disposed of as liquid waste at an appropriately licenced facility.
- ✓ All temporary stockpiles to be covered and weighted down with plastic sheeting to prevent wind and water erosion. Stockpiles not to exceed 2 metres in height where practical.
- ✓ Any material delivered to site or excavated material to be reused as fill would be neatly stockpiled only in the designated stockpile location until required. Materials may be stored in 'Bulk Bags' or covered skip bins (cover is essential for preventing ingress of rainwater) or standard stockpiles may be created (refer ECM).
- ✓ Where standard stockpiles are to be established, they would be covered with impermeable material such as builder's plastic and a sandbag bund will be created to prevent erosion and sedimentation where they are to remain in-situ for longer than 24hours and at the close of site at the end of each shift.
- ✓ Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- ✓ If any groundwater encountered during proposed works, groundwater will be managed in accordance with the requirements of the Waste Classification Guidelines (EPA, 2014) and TfNSW's Water Discharge and Reuse Guideline (TfNSW, 2019).
- ✓ Street sweeper to be used as required to minimise mud tracking.
- ✓ Water will be used for dust suppression as required.

**Demobilisation**

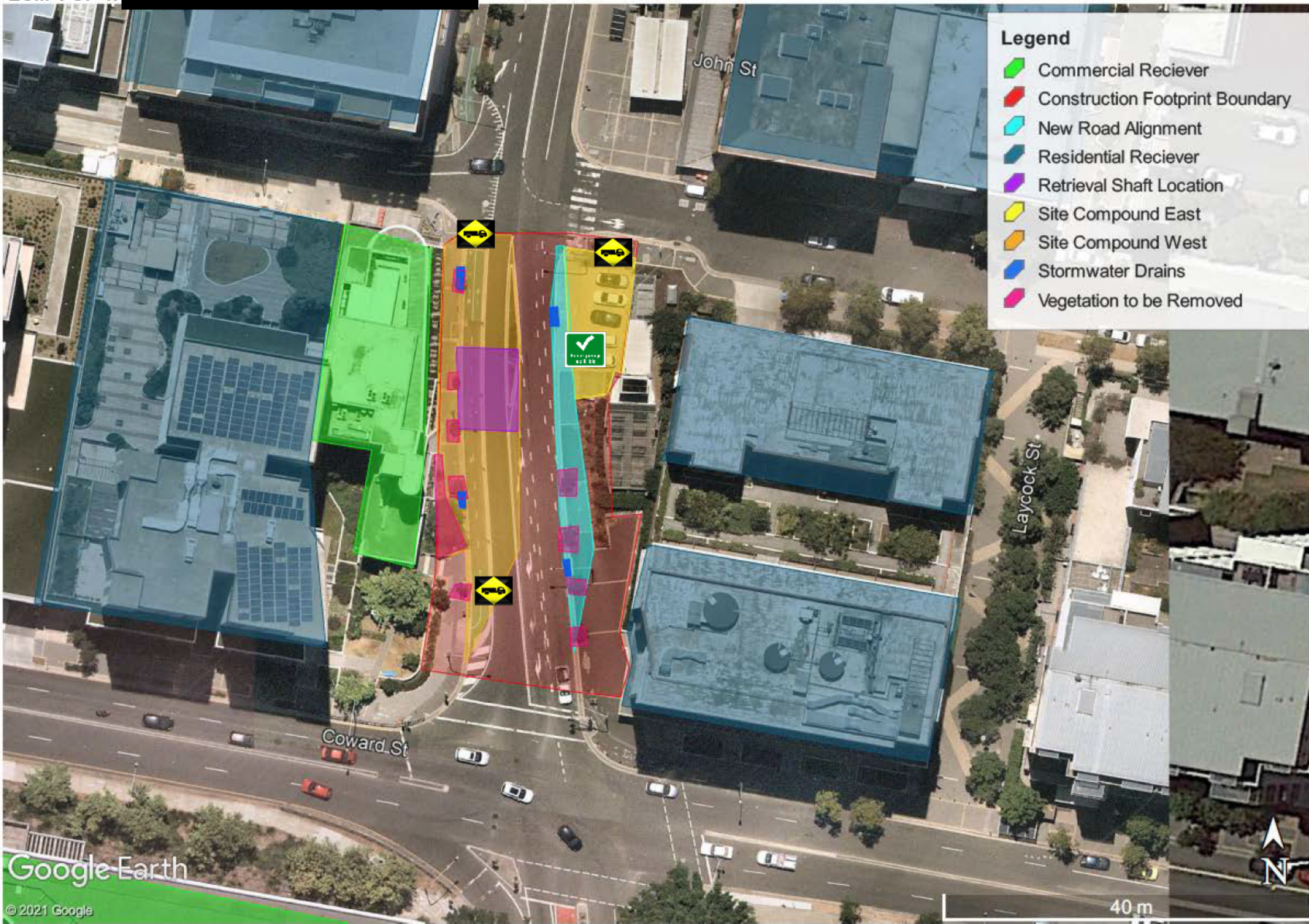
- ✓ Removal of ESC items.
- ✓ Controls to stabilise and reinstate all areas

**Monitoring of ESC Controls**

- ✓ Periodic monitoring of the effectiveness of the ESC to be undertaken throughout the day, as part of weekly environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>10mm in 24 hour period).

**265 King Street:**

- ✓ Works must conform to executed Sydney Water Contract, in particular:
  - Access must be maintained for servicing of telecommunications tower and Sydney Water Assets
  - No equipment >1000kg can be stored in the area, in particular over the sewage pipe which runs through the middle of the site.
  - Site access via vehicles is limited to maintenance and servicing of the ablution and site compound areas.
  - Condition report to be conducted at the conclusion of works and prior to handback of licence agreement.



**Legend**

- Commercial Reciever
- Construction Footprint Boundary
- New Road Alignment
- Residential Reciever
- Retrieval Shaft Location
- Site Compound East
- Site Compound West
- Stormwater Drains
- Vegetation to be Removed

**Erosion and Sediment Controls (ESC):**

- ✓ All erosion and sediment controls are to follow the requirements of the Blue Book *Managing Urban Stormwater, Volume 1, 4<sup>th</sup> Edition, March 2004*.

These ESC measures are included for the project site and are illustrated in this Plan as follows:

- ✓ Appropriate erosion and sediment controls to be placed over stormwater/rail corridor drains (as required).
- ✓ All temporary stockpiling of materials will take place away from drains.
- ✓ Stormwater drains to be protected during works, but protection must be removed prior to rainfall events to allow free flow of water and control flooding potential.
- ✓ Where appropriate, geofabric would underlay the stockpile to facilitate easier site clean-up upon removal of the stockpile.
- ✓ Street sweeper to be used as required to minimise mud tracking.

**Demobilisation**

- ✓ Removal of ESC items.
- ✓ Controls to stabilise and reinstate all areas

**Monitoring of ESC Controls**






- ✓ Periodic monitoring of the effectiveness of the ESC to be undertaken throughout the day, as part of weekly environmental inspections, prior to unfavourable weather conditions and after heavy rainfall events (>10mm in 24 hour period).

Access

Spill Kit

## ERSED Map

### Legend

-  Berm
-  Competent Material
-  Driveway
-  Open SW Culvert
-  Sediment Fence

### Driveway

- To be inspected regularly for tracked mud and dirt, street sweeper should be used to remove accumulated debris

### Access

- Competent material (DGB/Ballast) to be spread at access point to stabilise area and to prevent mud/dirt being tracked off site. If possible divert water from driveway with material.

### Sediment Fence

#### Install

1. To be installed along existing fenceline.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Fix self-supporting geotextile to the non road side of the fence ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory. Join sections of fabric at a support post with a 150-mm overlap.
4. Join sections of fabric at a support post with a 150-mm overlap.
5. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

#### Maintenance

1. Sediment fence to be inspected regularly for wear and tear.
2. Sections can be replaced ad hoc.

### Stockpiles

1. Place stockpiles in locations more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise with polymer spray or weighted down geofabric.

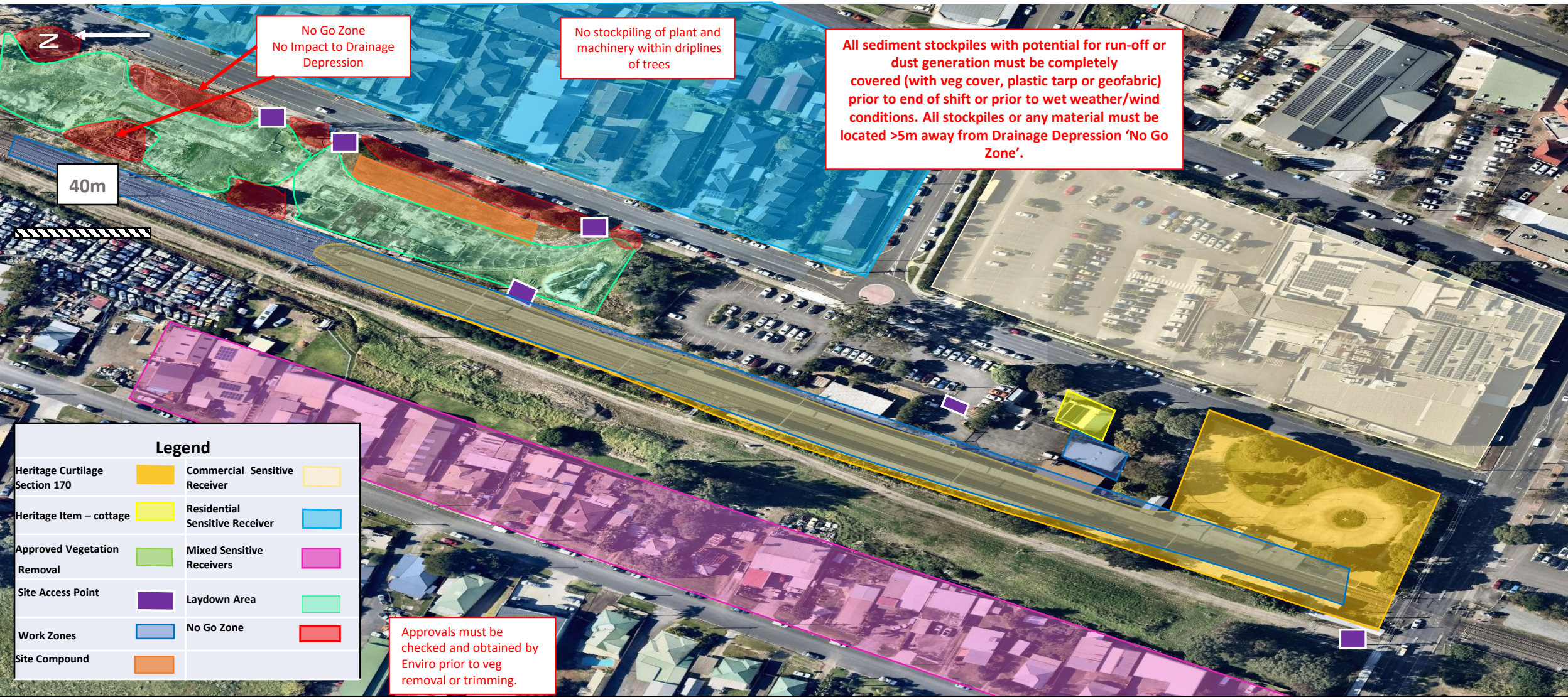
### Berm

- To be constructed on the upslope to redirect water back onto site.
- Low flat elongated continuous mounds, made of geofab wrapped ballast.



30 m

## 5.2 ECM example 2



No Go Zone  
No Impact to Drainage Depression

No stockpiling of plant and machinery within driplines of trees

All sediment stockpiles with potential for run-off or dust generation must be completely covered (with veg cover, plastic tarp or geofabric) prior to end of shift or prior to wet weather/wind conditions. All stockpiles or any material must be located >5m away from Drainage Depression 'No Go Zone'.

40m

Legend			
Heritage Curtilage Section 170		Commercial Sensitive Receiver	
Heritage Item – cottage		Residential Sensitive Receiver	
Approved Vegetation Removal		Mixed Sensitive Receivers	
Site Access Point		Laydown Area	
Work Zones		No Go Zone	
Site Compound			

Approvals must be checked and obtained by Enviro prior to veg removal or trimming.

# LNI South Of Wollongong – Dapto- Environmental Control Map

**Key Stages:** ASDO scope, admin building electrical work, OHW & signalling terminating road works.  
**Time frame:** WE36 onwards  
**Hours of Work:** Standard Construction Hours 0700 – 1800 Mon- Fri 0800-1300 Sat & Approved OOHW

**Project Leader:**  
**Construction Manager:**  
**Snr Enviro Advisor:**  
**TfNSW Snr Mngr Env & Sus:**  
**TfNSW Snr Env & Sus Officer:**  
**Community Engagement:**

**Construction Response Line:** 1800 775 465  
**Transport Project Delivery Office:** 1800 684 490  
**Pollution Response:** 131 555  
**WIRES:** 1300 094 737

**FIGURE:** 1  
**REV:** 7



Date Updated: 7/02/2023

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**LNIF South Of Wollongong – Dapto- Environmental Control Map**

**Key Stages:** ASDO scope, admin building electrical work, OHW & signalling terminating road works.  
**Time frame:** WE36 onwards  
**Hours of Work:** Standard Construction Hours 0700 – 1800 Mon- Fri 0800-1300 Sat & Approved OOHW

**Project Leader:**  
**Construction Manager:**  
**Snr Enviro Advisor:**  
**TfNSW Snr Mngr Env & Sus:**  
**TfNSW Snr Env & Sus Officer:**  
**Community Engagement:**

**Construction Response Line:** 1800 775 465  
**Transport Project Delivery Office:** 1800 684 490  
**Pollution Response:** 131 555  
**WIRES:** 1300 094 737

**FIGURE:**  
2

**REV:**  
7



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Legend		
Heritage Curtilage Section 170		Residential Sensitive Receiver
Site Access Point		Site Compound Area
Laydown Area		No Go Zone
Tree protection Fencing		Sediment control fencing
Chemical storage and Refuelling area.		Concrete washout area
		Work Areas

# LNIF South Of Wollongong – Dapto- Environmental Control Map

**Key Stages:** ASDO scope, admin building electrical work, OHW & signalling terminating road works.  
**Time frame:** WE36 onwards  
**Hours of Work:** Standard Construction Hours 0700 – 1800 Mon- Fri 0800-1300 Sat & Approved OOHW

**Project Leader:**  
**Construction Manager:**  
**Snr Enviro Advisor:**  
**TfNSW Snr Mngr Env & Sus:**  
**TfNSW Snr Env & Sus Officer:**  
**Community Engagement:**

**Construction Response Line:** 1800 775 465  
**Transport Project Delivery Office:** 1800 684 490  
**Pollution Response:** 131 555  
**WIRES:** 1300 094 737

**FIGURE:**  
3

**REV:**  
7



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Project Contacts		
Project Title	Name	Number
Project Leader		
Construction Manager		
TfNSW Snr Manager Enviro & Sustainability		
Snr Enviro Advisor		
TfNSW Snr Enviro & Sustainability Officer		
Community Engagement		
Construction Response Line		1800 775 465
Transport Projects Delivery Office Infoline		1800 684 490
Pollution Incident Response Line		131 555
WIRES		1300 094 737
Emergency		000 or 112

Project Contacts	
Working Hours	
Standard Construction Hours	7:00AM to 6:00PM – Monday to Friday 8:00AM to 1:00PM Saturday
Out of Hours	Out of Hour works must have prior approval from TfNSW

Heritage Management	
Controls/Actions	Responsibility
Dapto Railway Station Group including its platform buildings and platforms is of local heritage significance, listed on the TAHE Section 170 Heritage and Conservation Register. Care must be taken to not damage any of these items.	All personnel
Vehicle operators to remain alert at all times to avoid damaging heritage items.	Site personnel
Immediately report any damage to heritage items to Environmental Representatives	Site personnel
The heritage fabric of the platform should be protected against accidental damage during construction by installing hoarding/flagging tape.	Site personnel
TfNSW Unexpected Finds Procedure 4TP-SD-115 will be implemented in case of any unexpected finds. Works must cease and may only recommence if approval is granted by TfNSW Heritage Specialist.	Project Engineer Site Supervisor Environmental Representative

Contamination	
Controls/Actions	Responsibility
Unidentified Contamination-upon identification/suspicion of contamination, works will cease and a Hygienist/Contaminated Consultant will be engaged to investigate	Site Personnel
Traffic Control (if required)	
Controls/Actions	Responsibility
As per Traffic Control Plan	Site Supervisor Project Manager
Signage and traffic control devices will be instated to alert motorists and pedestrians to works	Site Supervisor Project Manager

Noise Management	
Controls/Actions	Responsibility
No works to occur outside standard construction hours unless otherwise approved by TfNSW	Project Manager Project Supervisor Site Supervisor
Implementation of TfNSW's Construction Noise & Vibration Strategy V4	Project Manager Project Engineer Environmental Representative

Waste & Resource Management	
Controls/Actions	Responsibility
Waste generated by works/consumables to be disposed of in bins onsite	Site Supervisor
All waste will be classified and managed in accordance with the NSW Environment Protection Authority (EPA) Waste Classification Guidelines (2014) and disposed to a licenced facility. Waste receipts to be provided to T4T's Environment Manager	Project Engineer Environmental Representative

Visual	
Controls/Actions	Responsibility
Construction lighting to be positioned to minimise light spill to surrounding receivers.	Site Supervisor

Air Quality Management	
Controls/Actions	Responsibility
Dust Control; work areas to be serviced by water cart when required.	Site Supervisor

Soil & Water Management	
Controls/Actions	Responsibility
Monitor the sediment and erosion controls- repair and reinstate where these are damaged. Install controls in accordance with the Blue Book.	Site Supervisor Project Engineer Environmental Representative
Water will not be discharged unless approved. If required, all water discharged will be carried out in accordance with TfNSW Waste Discharge Guidelines	Project Engineers Environmental Representatives

Chemical Storage	
Controls/Actions	Responsibility
Chemical, fuels and oils to be stored in a securely banded areas within site	Site Supervisor Project Engineer
Bunds to be of sufficient capacity to contain 110% of the volume of the largest container. Banded areas must have sufficient cover to prevent ingress of rain.	Site Supervisor Project Engineer
Spill kits and absorbent material to be located on site	Site Supervisor

Fuelling & Servicing	
Controls/Actions	Responsibility
The operator must be in attendance at all times during the fuelling process	Site Supervisor
Ground protection measures such as drip trays and plastic sheeting must be installed prior to activities.	Site Personnel
Prevent discharge of pollutants to stormwater. Undertake regular checks of equipment to ensure leaks and pills are rectified and cleaned immediately.	Site Supervisor Site Personnel

Flora & Fauna Management	
Controls/Actions	Responsibility
If encountered, leave fauna alone and contact Supervisor, Environmental Representatives. Contact WIRES in the event of injured wildlife	Site Personnel
No vegetation to be trimmed or removed without prior approval. If required, vegetation pruning/removal will be subject to additional approval and undertaken in accordance with TfNSW's guidelines.	Site Supervisor Environmental Representatives
All machinery entering and leaving site should be inspected for weeds and/or weed seeds. If detected these should be removed prior to entering or leaving site.	Site Supervisor Project Engineer
Monitor tree protection & drainage exclusion zones – repair and reinstate fencing where these are damaged.	Site Supervisor Project Engineer Environmental Representative



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