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Pre-Construction Minor Works Approval Form

Minor Works are defined as any low impact activities that are undertaken prior to the commencement of 'construction' as defined in the project's applicable planning approval. However if Minor Works affect or potentially affect heritage items, threatened species, populations or endangered ecological communities, these works are defined as 'construction' unless otherwise determined by the applicable planning authority.

Minor Works approvals do not remove any obligation to comply with the project's applicable planning approval conditions (including requirements prior to 'any works' commencing) or obtain any other applicable permits, licenses or approvals as necessary.

This application and all supporting information must be submitted to TfNSW/the Environmental Representative as one (1) PDF file at least 10 business days prior to the commencement of the proposed Minor Works.

Part 1: Application	
Contractor:	Laing O'Rourke
Project:	Sydney Metro City and Southwest - Northern Corridor Works Project
Application Title: (e.g. Smith St trenching works)	Mid-Week 36: Portion 7a – Installation of steel at footings locations and survey of services on Mowbray Road March 5 th – March 9 th 2018 (4 nights)
Application Number:	NÇW-008
Application Date:	Revision 1 - 13/02/18 Revision 2 - 1/03/2018
Planning Approval:	SSI 15_7400
 Minor Works Categories: Highlight as applicable. If Items 4, 8 or 11 are applicable, this form must be endorsed by an Environmental Represent ative. 	 Survey, survey facilitation and investigations works (including road and building dilapidation survey works, drilling and excavation). Treatment of contaminated sites. Establishment of ancillary facilities (excluding demolition), including construction of ancillary facility access roads and providing facility utilities. Operation of ancillary facilities that have minimal impact on the environment and community. Minor clearing and relocation of vegetation (including native). Installation of mitigation measures, including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments. Property acquisition adjustment works, including installation of property fencing and utility relocation and adjustments to properties. Utility relocation and connections. Maintenance of existing buildings and structures. Archaeological testing under the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010) or archaeological monitoring undertaken in association with other Minor Works to ensure there is no impact on heritage items.
Planning Authority	construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access. No. The proposed works do not have potential to impact on heritage items,
Determination: Will the proposed works affect or have the potential to affect heritage items, threatened species, populations or endangered ecological communities?	threatened species, populations or endangered ecological communities.



Part 2: Details	
Describe the proposed Minor Works: Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).	The scope of work involves the installation of steel masts onto concrete footings of overhead wire structures in the rail corridor between chainages 10.600km to 11.200km (between Albert Avenue and Nelson Street) to the south of Chatswood Station. Works will commence on 5 th March 2018 and conclude 9 th March 2018 (2300 – 0400 each night for 4 nights). Footings works are located in the rail corridor and require no trains running and high voltage power to be isolated. If these works were to occur during standard construction hours then personnel would be at risk of being struck by trains and electrocution. Works may occur on multiple footings at the same time, however works will be staged so that they will not be undertaken on adjoining footings at the same time. This is to mitigate.noise impacts and limit site congestion. Works on each footing may take between 1 and 3 hours. Survey works on Mowbray Road bridge are required to be undertaken on the road to access services surrounding the bridge. As such traffic control will be required to be in place. In order to minimise the impact to local traffic these works will be conducted at night. These works will occur for 4 nights with traffic control to be in place from 2300-0400 hours each night. Traffic control will be in place on Drake Street and Hopetoun Avenue to ensure access for construction vehicles is maintained. Traffic Control Plans, approved by Willoughby City Council will be inplemented. Deliveries of major components associated with the possession works will occur during standard construction hours. All other deliveries will relate to emergency/unforeseen items and will be delivered by light commercial vehicles as required to a the approved site access points. Crane truck will lift steel into place above footing location - Steel mast and footing to be surveyed following installation Streel mast and footing to be surveyed following installation Streel mast and footing to be surveyed following installation - Steel mast and footing to be surveyed following
Planned Commencement Date:	5 March 2018
Local Sensitivities: Describe the presence (if any) of local sensitive environmental areas and community receptors.	<u>Community</u> – Residents off Albert Avenue, Ellis Street, Chapman Avenue, Gordon Avenue and Hopetoun Ave have direct line of site to the works. Site access would be via the site access gate to the rail corridor on Drake Street and Hopetoun Avenue.
Part 3: Environmental Risk	Assessment and Management
	ssessment (in accordance with the <i>Sydney Metro Risk Management Standard</i>) and an e proposed Minor Works and attach as Appendix 1.
If an Environmental Risk Assessm	nent and/or an Environmental Control Map for the proposed Minor Works is/are already on, attach the relevant section(s) as Appendix 1.
Documentation: List any existing documents (including those referenced above) that the proposed Minor Works will be undertaken in	 Sydney Metro Construction Environmental Management Framework Sydney Metro City and Southwest, Chatswood to Sydenham, Planning approval SSI 15_7400
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Append	ance with and attach as dix 2 (e.g. plans, ures, procedures, etc.).						
Part 4	: Workforce Notification	on					
and co associa measu Minor V commu	ill the environmental mmunity risks and ated mitigation res of the proposed Works be unicated to the ctor's workforce?	In addition, there w	ertake NCW Project specific ind ill be a pre-start briefing underta groups. This will detail the enviro s.	ken by the wor	ksite manager at the start community risks and		
Part 5	: Community Consult	ation					
consul	community Itation has been aken already?	None for these spe	cific minor works activities.				
	community itation is planned to be aken?	Out-of-hours notification will be distributed a minimum of 7 days prior to works commencing.					
If drafte	ed already, attach applicab	le Community Notific	ation as Appendix 3.				
art 6: C	Contact Details						
lominate	contractor's project mana	ger, environmental a	nd communications contact(s).				
	Tony Deacy		Project Manager		0467 762 987		
0	Chris Standing	Desitie	Environmental Manager	Dham	0431 338 578		
lame:	Helena Johansson	Position:	Communications and Stakeholders Manager (Sydney Metro)	Phone:	0466 545 189		
art 7: Si	ignature						
his signa	ature acknowledges that th	e proposed Minor W	orks will be undertaken in accor	dance with this	application, have		

Inis signature acknowledges that the proposed Minor Works will be undertaken in accordance with this application, have minimal environmental impact and are not defined as 'construction' in accordance with the applicable planning approval.

Name:	Chris Standing		
Signature:	Weg	Date:	1/03/18

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Determination Page

(TfNSW/Environmental Representative Use Only)

12. Endorsement/Approval These signatures represent formal endorsement/approval for the proposed Minor Works to commence in accordance with this application and the applicable planning approval requirements (subject to any determination from the applicable planning authority as may be required by the planning approval conditions). TfNSW Principal Manager, TfNSW Principal Manager, **Environmental Representative** Sustainability, Environment & Planning **Communication &** - Endorsement Engagement (required as necessary in accordance - Endorsement - Approval with the applicable planning approval. optional for all other circumstances) (required for all applications) (required for all applications) Signature: in l FIL CERDNE HURSON Name: Erran Woodward Date: 2/03/18 Supporting letter attached as Appendix 4 if necessary. Comments: Supporting letter attached as Appendix 4 if necessary. **Conditions:** Þ Approved (by TfNSW) Endorsed (by Environmental Representative) Rejected

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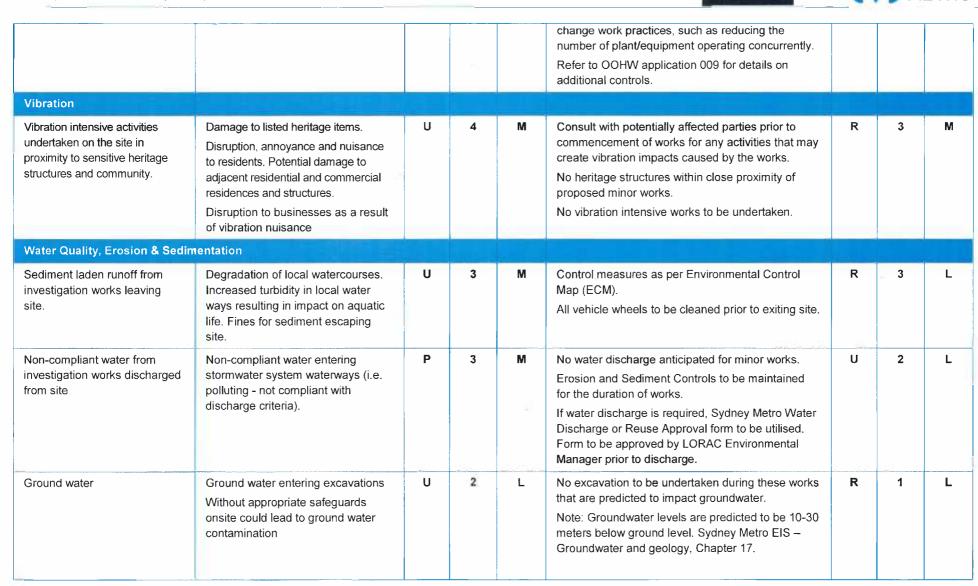
Appendix 1: Environmental Risk Assessment and Environmental Control Map.

Risk Assessment Rankings: >17 = Extreme 10 - 16 = High 5 - 9 = Medium 1 - 4 = Low

Issues or activities that represent an Extreme risk after the application of control measures are not to be undertaken

		Initial Risk Rating				Residual Risk Rating		
Aspect	Potential Environmental Impact	PX C= Risk		Risk	Control Measures		C =	Risk
Approvals and Licensing						-		
Not identifying appropriate approvals / licenses required or proceeding without them.	Works delayed, infringements, prosecution and reputational loss.	Ρ	3	М	 Planning approval has been granted for the Sydney Metro - Chatswood to Sydenham works (SSD 15_7400). This minor works application is being completed to ensure appropriate documentation is completed to manage environmental risk of the project. Only works with minimal impact are being undertaken. 	U	1	L
Noise								
Noise from installation of OHW structures	Disturbance to residents or neighbouring businesses. Potential for complaints.	Ρ	3	М	Control measures as per Community Consultation Strategy (CCS) are to be implemented. Consult with the community in relation to upcoming activities that may result in concern (completed by Sydney Metro). Silenced lighting towers and equipment will be used where practical. An existing noise barrier runs along the rail corridor. Additional acoustic blankets will be used to mitigate noisiest activities.	U	3	м
					In the event of noise monitoring indicating noise levels exceeding predicted levels during evening and night periods, the team will be required to			

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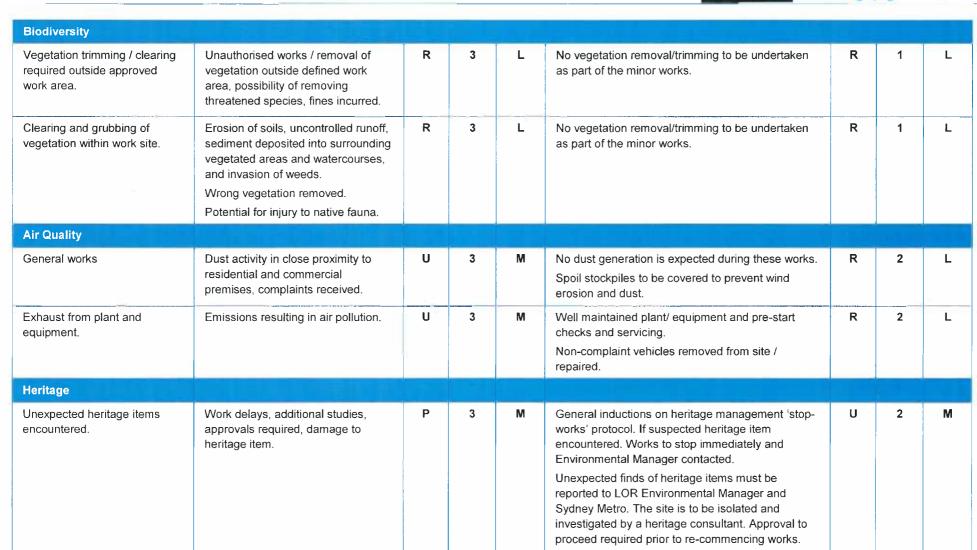
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Waste								
Waste disposal during works.	Incorrect disposal of waste, further costs incurred for classifications and disposal, fines may be issued.	Ρ	2	Μ	Waste will be transferred to licenced waste facility only. Ensure accurate waste records are retained. 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. All material that requires off-site disposal to be appropriately classified against the Waste Classification Guidelines (EPA, 2014).	R	2	L
Contamination								
Potential for discovery of unexpected contaminated spoil during investigation works involving excavation and drilling.	Health effects resulting from airborne contamination, e.g. asbestos. Complaints received from odours.	Ρ	3	М	If contaminated soil is encountered, all works are to stop in the vicinity of the find and investigations commence. Occupational hygienist in attendance on site. Induct personnel on location, type, nature and concentration of contaminants on site if found.	U	2	L
Hazardous Materials								
Storage of hazardous substances, leaking plant and equipment and spillage from refuelling.	Localised ground contamination / pollution of stormwater and requiring clean-up and/or receiving fines. Risk of igniting volatile substances.	U	3	М	No fuels or hazardous materials to be stored on site for minor works. Spill kits to be onsite when using plant/equipment. No major servicing of equipment to be undertaken onsite. Pre-mobilisation checks on all plant/equipment to come to site, including check of fuel and hydraulic leaks.	R	3	L

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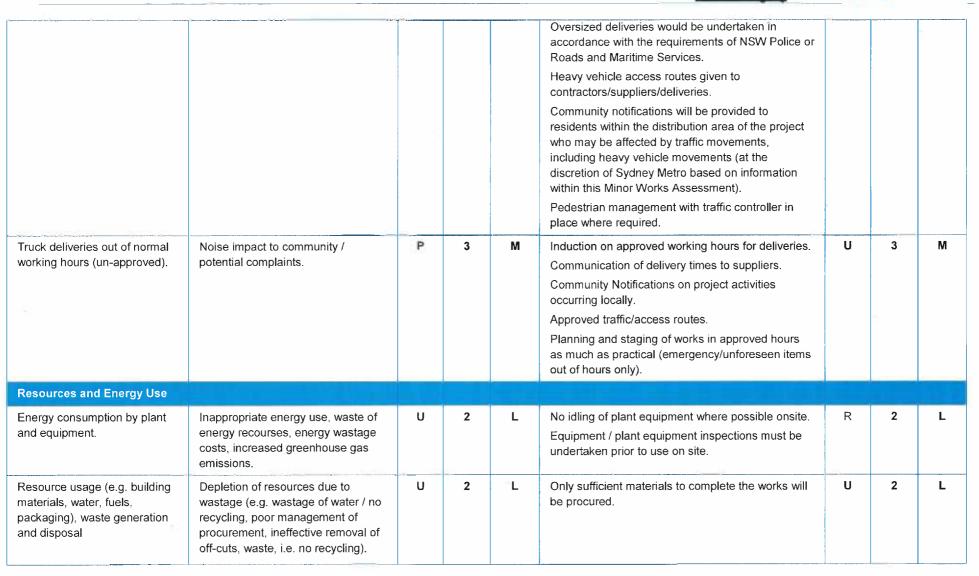
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Flora & Fauna					The site is to be isolated and investigated by a heritage consultant. Approval to proceed required prior to re- commencing works. Label any known heritage items on Environmental Control Maps.			
Removal of flora without approval.	Failure to identify flora prior to removal.	R	3	L	No vegetation removal/trimming to be undertaken as part of these minor works.	R	1	L
Traffic								
Loss of on-street car parking in adjacent residential streets and commercial areas during investigation works.	Loss of parking availability to adjacent residential and commercial properties could result in community complaints.	Ρ	3	Μ	Community notifications will be provided to residents within the distribution area of the project who may be affected by traffic movements (at the discretion of Sydney Metro based on information within this Minor Works Assessment). Site vehicles shall be parked within the rail corridor and not affect public parking area. Temporary lane closure on one side of both Drake Street and Hopetoun Ave required for deliveries. Traffic Control Plans, approved by Willoughby City Council, will be implemented. Temporary road closure of Mowbray Road required for survey works subject to RMS approval. A contraflow arrangement under traffic control for Mowbray Road will be implemented.	U	3	L
Management of heavy vehicles / access routes.	Complaints from sensitive receivers due to increased level and frequency of noise.	Ρ	4	Μ	Deliveries of plant and materials shall be undertaken outside of peak periods where possible. Site vehicles shall be parked within the rail corridor and not affect public parking areas. Scheduled road movements shall be minimised where possible.	U	3	L

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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 work practices.

Note: Any one of the listed consequences must result in the use of the applicable consequence grading.





Prob	ability:					Consequence:
5 = 0	Certain <mark>4</mark> = L	kely	3 = Possible 2 = Unlikely 1 = Rare	ЦĽ.		5 = Severe 4 = Major 3 = Moderate 2 = Minor 1= Incidental
<u>1-4</u>	Acceptabl	e	5 - 9 Acceptable with control mea	asures	<u> 10 - 16 R</u>	equires the implementation of best practice 17 and Above = UNACCEPTABLE
5	Certain	_	Common or repeating occurrence Consequence can reasonably be expected to occur in life of Project.	5	Severe	 Major pollution incident causing significant and widespread damage or potential to health or the environment Persistent reduction in ecosystem function and value. Ongoing disruption and loss of protected species. Major prosecution likely, outcome in excess of \$500,000
4	Likely	_	Known to have occurred / "has happened" Conditions may allow the consequence to occur on the Project during its lifetime The event has occurred within the Business Unit within the previous 5 years.	4	Major	 Significant widespread and persistent changes to habitat, species or environmental media Significant pollution incident causing damage or potential damage to health or the environment external to the site. Potential for prosecution. Potential outcome between \$50,000 - \$500,000 Numerous substantial complaints Actual material environmental harm
3	Possible	-	Could occur / "heard of it happening" Exceptional conditions may allow consequences to occur on the Project, or has occurred nationally within the Australian Business.	3	Moderat	 Localised irreversible habitat loss or effects on habitat, species or environmental media Reportable incident to the relevant environmental regulator or other authority. Demonstrated breach of legislative, licence or guideline requirements. Likely infringement notice or fine, potential for prosecution up to \$50,000. Will cause complaints.
2	Unlikely	_	Not likely to occur Reasonable to expect that the consequence will not occur on the Project. Has occurred in industry but not in Business Unit.	2	Minor	 Localised degradation of habitat or short term impacts to habitat, species or environmental media. Pollution incident that marginally exceeds licence conditions or guidelines for acceptable pollution. Fine unlikely. Potential for complaints.





1	Rare	 Practically impossible Not known to have or industry or unheard or 	ccurred in f.	1	Incidental	– Fully c – Insign	contained on site and can be ificant or trivial incident	habitat, species or environme fully remediated. Little poter	
Probabi	ility 🕨		CERTAIN	CERTAIN		ELY	POSSIBLE	UNLIKELY	RARE
Conse	equence		5		4		3	2	1
5 – 8	Severe		25	1.12		20	15	10	
4 – N	<i>Najor</i>		20			16	12	8	4
3 – N	3 Moderate 15 12 12		12	9	6	3			
2 – N	linor		10		8		6	4	2
1 — Ir	ncidental		5		4		3	2	



Environmental Control Map



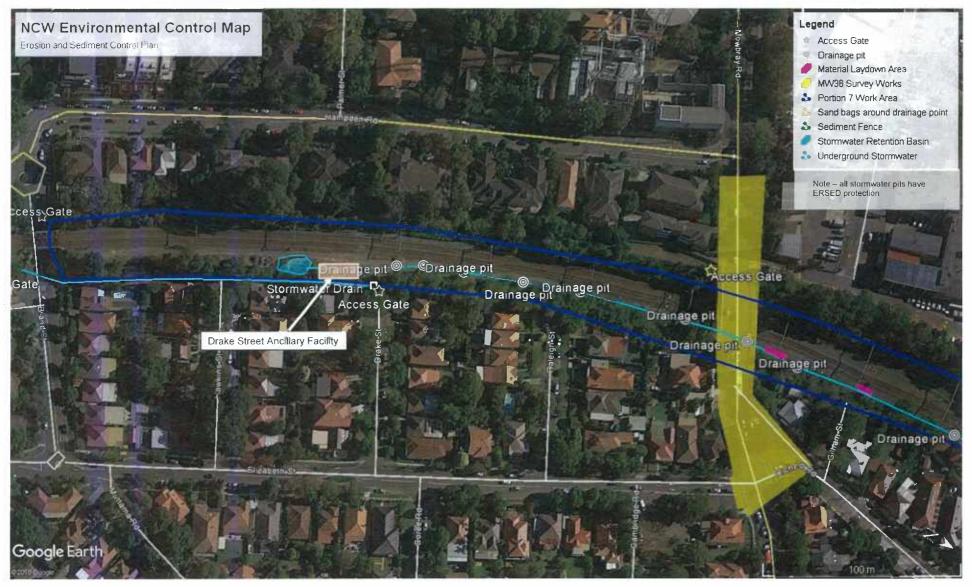




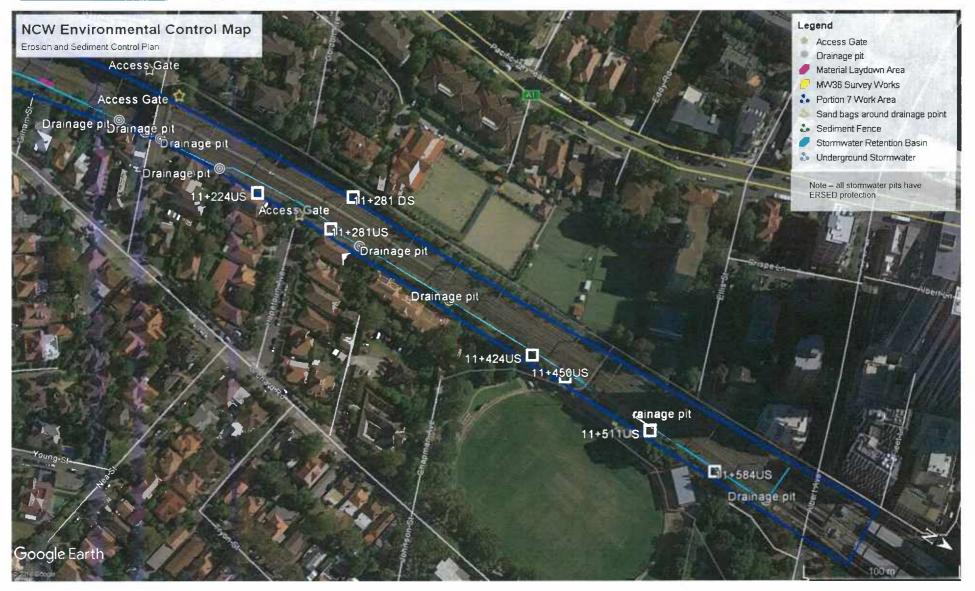
















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	Environmental								
ID	Aspect	Description							
1	Project	 This ECM applies to Pre-Construction Minor Works for Portion 7a delivered under Northern Corridor Works (Enabling works for Sydney Metro City and Southwest, Chatswood to Sydenham). 							
2	Site Access	 Site access will be from existing Hopetoun Ave and Drake St rail corridor access gate. 							
3	Program of works	 Works will commence at 2300 and finish at 0400 each night for four nights from Monday the 5/03/2018 to the 09/03/2018 							
4	General	 The team will be trained on this ECM, OOHW requirements, general environmental issues, and location of sensitive areas. Works will be subject to inspections by the ER, Sydney Metro Environment and Planning Manager and LOR Environmental Manager. This ECM will be displayed on site sheds. Refer to the endorsed Drake Street Minor Ancillary Facility ECM as approved within MWA006 (Rev05) All lighting to be pointed away from sensitive receivers 							
5	Contamination	 Unexpected contamination finds will be managed onsite by occupational hygienist in attendance. All waste to be classified prior to disposal. 							
6	Air Quality	 No air quality related issues are expected to be encountered. Stockpiles would be maintained and contained appropriately, which could include covering or regular watering to minimise dust Haul roads will be maintained using dust suppression regularly, particularly in hot and windy conditions Well maintained plant/ equipment and pre-start checks and servicing. Non-complaint vehicles removed from site / repaired. 							
7	Waste	 All waste will be transferred to bins located at Drake Street Minor Ancillary Facility and transported to a licenced waste facility. No excavation to be undertaken during these works. Waste will be transferred to licenced waste facility only 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. 							
3	Soils and water	 No soil and water related issues are expected to be encountered. If water discharge is required, Sydney Metro Water Discharge or Reuse Approval form to be utilised. Form to be approved by LORAC Environmental Manager prior to discharge. Existing erosion and sediment controls are in place at Drake St and are to be maintained for the duration o the works. 							
9	Heritage	 Unexpected finds of heritage items must be reported to LOR Environmental Manager and Sydney Metro. The site is to be isolated and investigated by a heritage consultant. Approval to proceed required prior to r commencing works. If suspected heritage item encountered. Works to stop immediately and Environmental Manager contacted 							
10	Noise and Vibration	 Noise monitoring will be carried out to validate noise predictions and also in response to any complaints. All works will be completed in compliance with Sydney Metro CEMF, SSD 15_7400 Planning Approval, Construction Noise Strategy and EPL 12208 requirements. All plant will have non-tonal alarms. Noise curtains have been installed and will be maintained at the Drake Street Ancillary Facility and the Hopetoun Avenue gate. No idling of plant equipment where possible onsite. No banging of car doors. Workers will be briefed to avoid shouting and yelling on site and when leaving and coming to the site Community notifications will be drafted and sent to Sydney Metro Community Liaison team separately. Vehicles leaving or entering site are to be staggered where possible. Works to be reassessed if noise levels exceed 20dB above the Rating Background Level. 							
11	Traffic and Transport	 Access to the site will be from existing access gates at Hopetoun Ave and Drake St All delivery drivers will be given an induction showing the designated haulage routes. All Site vehicles shall be parked within the rail corridor and not affect public parking area. Additional traffic controls will be implemented in accordance with TCP(s) as approved by Willoughby City Council. Temporary lane closures on Drake Street and Hopetoun Ave may be required to allow trucks to exit the site Temporary road closures will be required for Mowbray Road as approved by RMS to complete survey work All closures are expected to be for minor durations (less than 5 minutes). Any closure will be managed in accordance with the TCP. All vehicles to enter rail corridor immediately on arrival to gate Plant and vehicles engines to be switched off when not in use, with engine idling minimised as much as possible. 							
12	Utilities	 Parking restrictions apply to Drake St, Raleigh St, Hawkins St, Elizabeth St, Orchard Road and Hopetoun Ave Any impacts to utilities will be reported to gite HSE Manager supervisers. Support Trains and Support Materia 							
12	Junues	Any impacts to utilities will be reported to site HSE Manager, supervisors, Sydney Trains and Sydney Metro							
13	Biodiversity	If vegetation other than grass and weeds needs to be trimmed or removed, further assessment would be							

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		 If threatened flora or fauna species are identified on site, work in the vicinity of these species would stop immediately. A spotter/catcher would be engaged to survey the site and advise on species management. Trenches/excavations would be covered at the end of each day and inspected before they are backfilled to ensure no fauna species are harmed. Stockpiles, plant, equipment and materials will be located on existing cleared areas, away from the drip zone of trees and native vegetation. Soil and vegetation that could contain weed material should be removed from machinery prior to any movements off site.
14	Chemical, fuel storage and use	 No fuels and chemicals are expected to be brought to site as part of these works. All plant and equipment will be checked daily to ensure there is no leaking oil, fuel or other liquids. Spill kits to be onsite when using plant/equipment. No major servicing of equipment to be undertaken onsite.
15	Imported materials	 Materials to be delivered during standard construction hours. Materials to be stockpiled in a bunded area and covered (Drake Street) when not in use. All materials imported will have a classification certificate and be 'clean' material.
16	No-go zones	 Activities will be restricted to the rail corridor. Any activities outside the NCW site boundary will undergo a review for potential environmental impacts and require approval from Sydney Metro.

	Contact Information	
Position	Name	Phone
LOR Project Leader	Tony Deacy	0467 762 987
LOR Construction Manager	Martin O'Brien	0457 560 728
LOR/Sydney Metro Communications Manager	Helena Johansson	0466 545 189
LOR Environment and Sustainability Manager	Chris Standing	0431 338 578
LOR WHS Manager	Clive Hunter	0428 412 130
ER	Erran Woodward	0437 343 178
Sydney Metro Environmental Manager	Andrew Hendy	0475 983 494
Sydney Metro City and Southwest Info Line		1800 019 989
Sydney Trains Info Line		131 500
Environmental Line / Pollution Incident Response Lin	ne	131 555
Office of Environment & Heritage Pollution Line		131 555
Emergency		000 or 112 (mobiles)
WIRES		1300 094 737

Standard Working Hours

Audible construction works unless otherwise approved by the Environmental Manager will be restricted to:

- 7:00AM to 6:00PM Monday to Friday
- 8:00AM to 1:00PM Saturdays
- No work on Sundays or public holidays

Any works outside of the hours above require OOHW and Sydney Metro and LOR Environmental Manager's Approval

Out-of-Hour Works

An OOHW approval will be submitted for works to be conducted in the following possessions. MW36: 5 – 9 March 2018 2300 Monday to 0400 Friday – Refer to OOHW Application 009

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Road Occupancy Permit

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ROAD OCCUPANCY LICENCE

LICENCE NO : 910240



TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM

To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: myrol.transport.nsw.gov.au. This licence is for the occupation of the road space only. If you are unable to access myrol.transport.nsw.gov.au, please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: myrol.transport.nsw.gov.au/help.pdf

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ROAD OCCUPANCY LICENCE

LICENCE NO : 910240

TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM

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NON DEVELOP	MENT - SRA WORKS	LOCATION				
Project: Not Applicable		Subject Road:	MOWBRAY RD			
This Activity :	NORMNL - Mowbray Rd, Artarmon J12048	From:	PACIFIC HWY, CHATSWOOD DEVONSHIRE ST, CHATSWOOD			
		To:				
	LANE CLOSURE, -Inspection of any elec/comms	Council:	WILLOUGHBY			
	pits, manholes and/or kerb inlet pits, sewer, and $_$					
	any other services in the area on either side of					
	Mowbray bridge.					
LICENSEE		ONSITE CONTACT				
Organisation:	D & D Traffic Management	Name:	NOEL MCCARTHY			
Ref No:		Phone:	0428935784			
Name:	Ben Wiffen					
Phone:	0428049356					
TRAFFIC MAN/	AGEMENT	LICENCE DUF	ATION			
Flow Management: Standard Lane Merge		From:	04-Mar-2018			
Closure Type:	1 lane of 2	То:	23-Mar-2018			
Closure Lane(s):	Lane 2 (next after kerb lane)					
Direction(s):	Eastbound and Westbound					
LICENCE CON	DITIONS					
PROPONEN	EE OF THIS ROL MUST CONTACT THE FOLLOWIN T(S) PRIOR TO WORKS COMMENCING TO AVOID WITH THEIR WORKS.	NG				
PROPONEN	SOLUTIONS T - NAMECOREY MCKEOUGH T - PHONE0423289786					
PROPONEN	FRASTRUCTURE T - NAMESTEVE WOOLF T - PHONE0414090455					
	T - NAMESYDNEY METRO TRAFFIC TEAM T - PHONE0428033283					
IMPLEMENT	AUST OBTAIN LOCAL COUNCIL APPROVAL BEFOR ING THESE CLOSURES ON A REGIONAL ROAD.					
	CE OPERATES IN CONJUNCTION WITH A SPEED					



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SPEED ZONE AUTHORISATION



LIC/SZA NO: 910240/001

TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM

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NON DEVELO	PMENT - SRA WORKS	SPEED LIMIT REDUCTION				
Project:	Not Applicable	Existing:	60 Km/h			
This Activity :	NORMNL - Mowbray Rd, Artarmon J12048	Reduced To :	40 Km/h			
	LANE CLOSURE, -Inspection of any elec/comm	s				
	pits, manholes and/or kerb inlet pits, sewer, and	any				
	other services in the area on either side of Mowl	oray				
	bridge.					

This Speed limit is ONLY to be applied during the approved time periods listed. Signs are to be covered or removed outside the approved time periods. The Organisation is to maintain accurate records of when the speed limit signs were installed and removed, including the location of the signs, the date and times. The existing posted speed limit* is to be reinstated at the completion of each of the approved time periods as detailed herein.

TRAFFIC MANAGEMENT

LOCATION

Subject Road:	MOWBRAY RD	Distance(m):	760
From:	PACIFIC HWY, ARTARMON	Direction:	Eastbound and Westbound
To: Council:	DEVONSHIRE ST, CHATSWOOD		

LICENSEE		ONSITE CONTACT	ONSITE CONTACT				
Organisation:	D & D Traffic Management	Name: NOEL MCCA	RTHY				
Ref No:		Phone: 0428935784					
Name:	Ben Wiffen						
Phone:	0428049356						

APPROVED DATES & TIMES

From Shift						To	Shift	
From	D	М	Time	-	То	D	Μ	Time
Sun	04	Mar	21:00	-	Mon	05	Mar	05:00
Mon	05	Mar	21:00	-	Tue	06	Mar	05:00
Tue	06	Mar	21:00	-	Wed	07	Mar	05:00
Wed	07	Mar	21:00	-	Thu	08	Mar	05:00
Thu	08	Mar	21:30	-	Fri	09	Mar	05:00
Sun	11	Mar	21:00	-	Mon	12	Mar	05:00
Mon	12	Mar	21:00	-	Tue	13	Mar	05:00
Tue	13	Mar	21:00	-	Wed	14	Mar	05:00
Wed	14	Mar	21:00	-	Thu	15	Mar	05:00
Thu	15	Mar	21:30	-	Fri	16	Mar	05:00
Sun	18	Mar	21:00	-	Mon	19	Mar	05:00
Mon	19	Mar	21:00	-	Tue	20	Mar	05:00
Tue	20	Mar	21:00	-	Wed	21	Mar	05:00
Wed	21	Mar	21:00	-	Thu	22	Mar	05:00
Thu	22	Mar	21:30	-	Fri	23	Mar	05:00

All pages of this Speed Zone Authorisation(s) must be available on site at all times and must be produced for inspection when requested by representatives of NSW Police, Roads & Maritimes Services, Transport for NSW and other Government Agencies.

(Uncontrolled when printed)

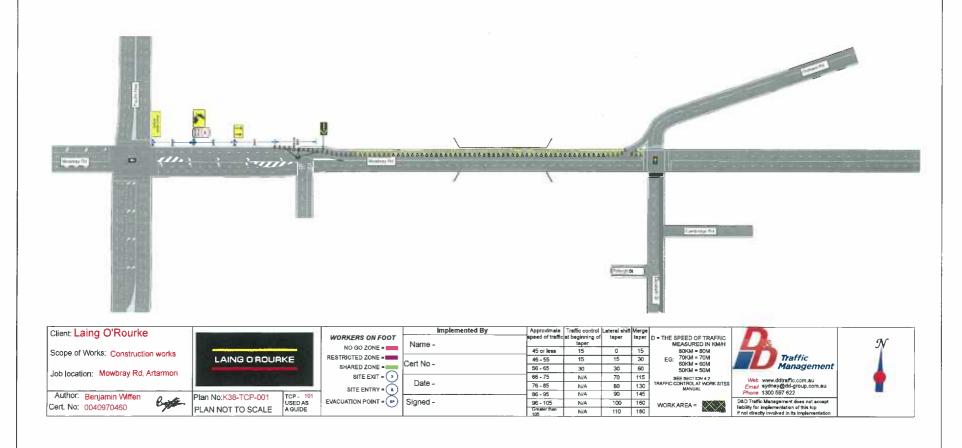


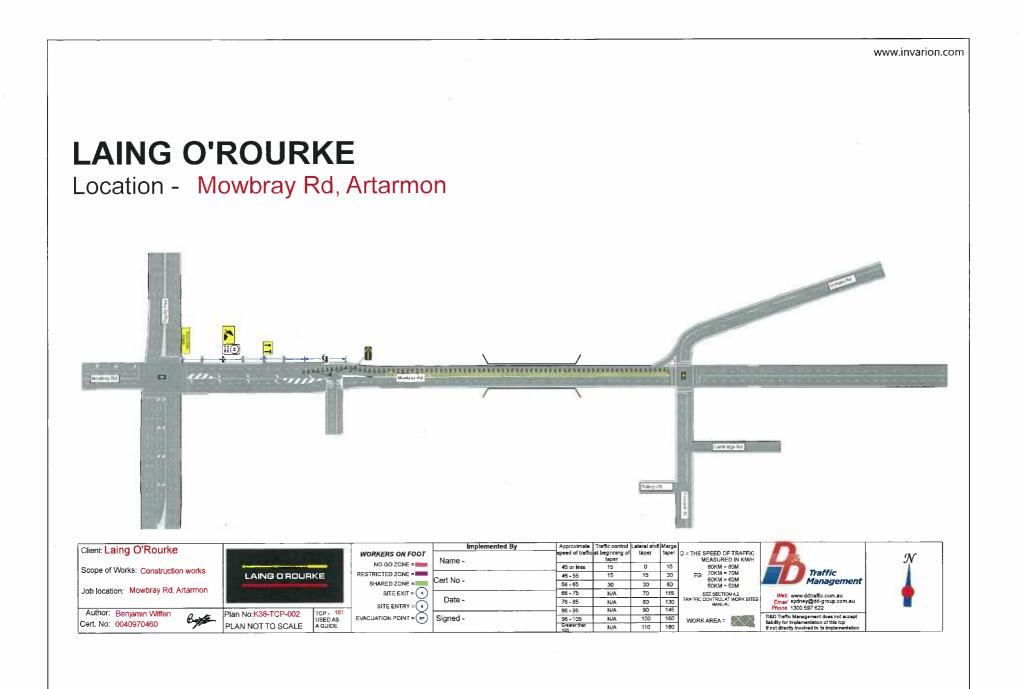
Traffic Control Plans

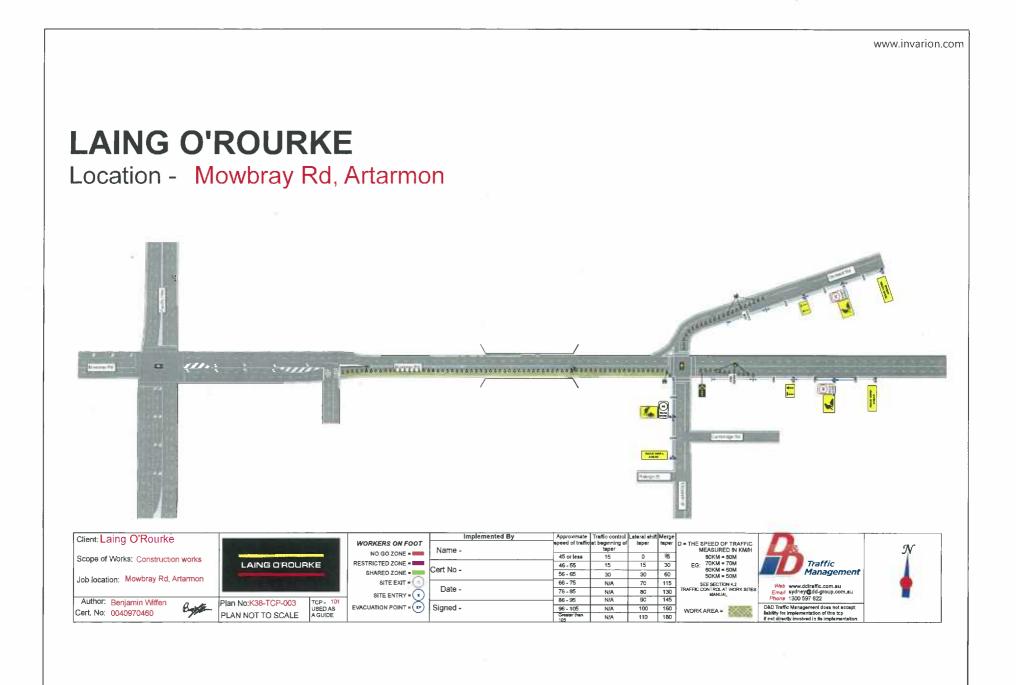
www.invarion.com

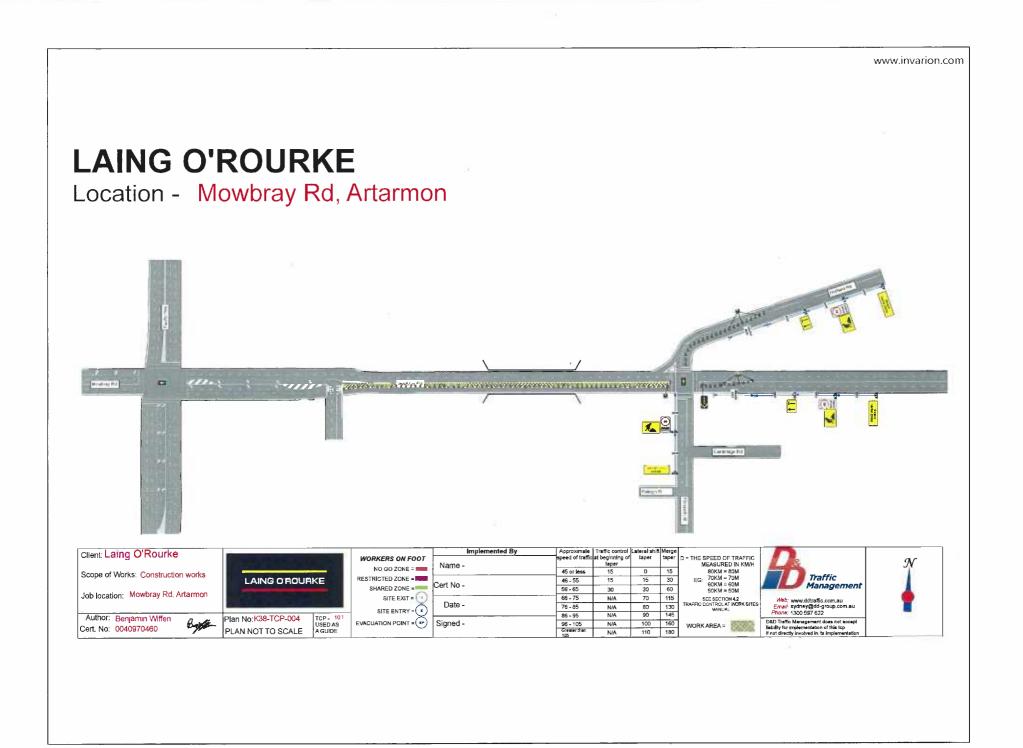
LAING O'ROURKE

Location - Mowbray Rd, Artarmon









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Appendix 2: Cover Page

Environmental Management Documentation - Not Used

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Appendix 3: Cover Page

Community Notification - Undertaken by Sydney Metro in conjunction with LOR. Combined letter to be issued which will cover MNNSCW Portion 6 and NCW Portion 7a works.



City&Southwest

NOTIFICATION - OUT OF HOURS WORK - ST LEONARDS TO GORDON | 26 FEBRUARY 2018

Sydney Metro is Australia's biggest public transport project.

Services start in 2019 in the city's North West with a train every four minutes in the peak. Metro rail will be extended into the CBD and beyond to Bankstown in 2024. Sydney Metro includes new CBD railway stations underground at Martin Place, Pitt Street and Barangaroo and new metro platforms under Central.

In 2024, Sydney Metro will have 31 stations on a new 66km rail system – the biggest urban rail project in Australian history. Sydney Metro will have ultimate capacity for a train every two minutes in each direction under the CBD.

Building capacity on the North Shore Line

When Sydney Metro Northwest opens between Rouse Hill and Chatswood in 2019, capacity on the T1 North Shore Line will increase to 20 trains per hour. To enable this increased capacity, work is underway between Waitara and Waverton stations, and around Epping Station. Work started in March 2016 and includes signalling and electrical upgrades and track relocations.

Out of hours work in the rail corridor St Leonards to Gordon

Work within the rail corridor between Waitara and Waverton is ongoing until 2019.

Standard work hours

Standard working hours are Monday to Friday, 7am-6pm and Saturday, 8am-1pm.

Out-of-hours work

Due to the nature of some activities and for the safety of our workers, some work will occur outside standard construction hours when trains are not running. When this work is required, you will receive a notification from Sydney Trains outlining all work being undertaken in the rail corridor by multiple contractors.

Specifically between St Leonards and Gordon, Sydney Metro out of hours work is required between **10pm and 4am Monday 5 March to Friday 9 March** (subject to approval).

Work will involve:

- Signal and overhead wiring work between St Leonards and Gordon.
- Excavation and concreting for signal footings at Wilson Road, Chatswood.
- Installation of steel masts onto concrete footings between Albert Avenue and Nelson Street, Chatswood.
- Service location surveys at Mowbray Road Bridge, Chatswood and Killara.
- Delivery and storage of materials in the rail corridor between Roseville and Gordon.

What to expect:

- Access will be via the existing rail corridor access gates in Drake and Brand streets and Cleland and Lambs roads, Artarmon; Francis Street, Naremburn; Hopetoun Avenue and Wilson Street in Chatswood; Hill Street, Roseville; St Leonards Station; and through the Gordon Station commuter carpark.
- Temporary traffic and pedestrian changes will be required including lane and footpath closures on Mowbray Road, Drake Street and Hopetoun Avenue. Temporary Traffic control and directional signage will be in place for the safety of workers and the community.

- Due to the nature of the work, some of these activities are expected to be noisy. The project team will minimise noise impacts wherever possible by reducing the number of machines operating at the same time and turning off equipment when not in use.
- Non-tonal reversing beepers will be used and workers will be instructed to keep noise to a minimum.
- Equipment to be used during these works includes excavators, concrete truck, cranes trucks, vacuum excavation and other trucks, generators, lighting towers, light vehicles, winches, surveying equipment, various power and hand tools.

Thank you for your cooperation while we complete this essential work.

If you have any questions please contact **Helena** on **1800 171 386** (24 hour community information line) or <u>sydneymetro@transport.nsw.gov.au</u>

sydneymetro.info 1800 171 386 sydneymetro@transport.nsw.gov.au

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Appendix 4: Cover Page

Environmental Representative Supporting Letter - Refer to Section 12 Determination Page above