

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 Yard Access Bridge
Application Title: (e.g. Smith St trenching works)	SYAB 002 - Minor Works Application
Application Number:	SYAB-002
Application Date:	16/03/2017
Planning Approval:	SSI 15_7400
Minor Works Categories: <ul style="list-style-type: none"> Highlight as applicable. If Items 4, 8 or 11 are applicable, this form must be endorsed by an Environmental Representative. 	<ol style="list-style-type: none"> 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. Any other activities that have minimal environmental impact, including construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access.
Planning Authority Determination: Will the proposed works affect or have the potential to affect heritage items, threatened species, populations or endangered ecological communities?	Works are within the Central Railway Station curtilage and adjacent Mortuary Station. There will be no impacts to heritage significance of any items.

Part 2: Details

Preliminary investigative and site establishment works are to be carried out in Sydney Yard between the Eddy Avenue access point and the southern extremity of the yard & the area adjacent to Mortuary Siding.

Works are outlined below:

Work Activity	Plant & Equipment	Indicative Timing
<p>Service Investigations</p> <p>Slit trenching/potholing to identify buried utilities.</p> <p>Access from Regent St, STA Bus Depot and Eddy Avenue</p>	<p>Vac Truck 6t Excavator Road sweeper</p>	<p>April/May/ June 2017 Standard Hours WE44 WE45</p>
<p>Site Establishment of Offices and Ancillary Facilities</p> <p>Setup of the offices and toilets in Mortuary Siding. These will be delivered on flatbed trucks and will be offloaded with either an all-terrain crane or by hiab.</p> <p>Once in position, the buildings will have service connections to be made (power, sewer, water, Telstra) and awnings installed.</p> <p>Access from STA Bus Depot (Regent St).</p> <p>No excavation required.</p>	<p>Flatbed Truck / Hiab All Terrain crane - 50t Hand Tools</p>	<p>April/May 2017 Standard Hours</p>
<p>Installation of piling platforms, temporary hardstands and Regent St rail corridor access ramp</p> <p>Temporary hard stands are required for piling platforms, office location and laydown areas. These will consist of stabilised DGB material.</p> <p>A temporary ramp will be installed for machine access to the Regent St terraces from the corridor, to service the future demolition works. The ramp will consist of select fill/quarry material. These works will be undertaken during normal hours and are within in the rail corridor.</p> <p>Access from STA Bus Depot (Regent St) and Eddy Avenue.</p>	<p>Bogie Tipper Roller Excavator</p>	<p>April/May 2017 Standard Hours</p>
<p>Install temporary supply conduit under tracks</p> <p>Hand excavation of top ballast to install pipe under the track from Sydney Yard to the SYAB abutment/pier locations. Manual tamping required to ensure compaction around the pipe using kanga hammer tamping attachment.</p> <p>Access from STA Bus Depot and Eddy Avenue.</p>	<p>Hand Tools Flatbed Truck Kanga Hammer</p>	<p>WE40 WE44 WE45</p>
<p>Temporary Fencing</p> <p>Temporary fencing to the two site areas (Mortuary Siding and Sydney Yard) will be installed in possession. The fencing will be delivered by truck, and will then be manually erected.</p> <p>Access from STA Bus Depot and Eddy Avenue.</p>	<p>Flatbed Truck Hand Tools</p>	<p>WE44 WE45</p>
<p>Overhead Wiring Removal</p> <p>Removal of the redundant OHW over Up Shunting Neck to facilitate future construction access.</p> <p>Access from STA Bus Depot.</p>	<p>Manitou EWP x 2 Hand Tools</p>	<p>WE44 WE45</p>
<p>Service relocations / caps / connections for Regent St Terraces</p> <p>Services will be capped / relocated as required to facilitate access for future demolition/construction.</p> <p>Access from Regent St, STA Bus Depot, Eddy Avenue</p>	<p>6t Excavator Hand Tools</p>	<p>May 2017 Standard Hours</p>
<p>Soft strip of Regent St Terraces</p> <p>Soft strip of removable items from the terraces including furniture / whitegoods, skirting boards, internal cladding / floorboards to facilitate recovery/recycling/disposal. This is prior to demolition works.</p> <p>Access (foot only) from Regent St.</p>	<p>Hand Tools Bogie Tipper</p>	<p>May 2017 Standard Hours</p>
<p>Hoarding / Scaffold Erection on Regent St</p> <p>Class B Hoarding to be erected on Regent St and in the Petrol Station. This will be undertaken at night to take advantage of lane closures / less busy periods on the road / footpath. Shade cloth will be installed on the scaffold.</p> <p>Lighting will be required and delivery vehicle only.</p> <p>Access from Regent St</p>	<p>Flatbed Truck Tower Lights Hand Tools</p>	<p>May 2017 Out of Hours (TBC)</p>

Describe the proposed Minor Works:

Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).

(Uncontrolled when printed)

	<p>Note – all works outside standard hours will require a separate OOH work application. Site layout is shown on the ECM in Appendix 1</p>
Planned Commencement Date:	April 1 st 2017
Local Sensitivities: Describe the presence (if any) of local sensitive environmental areas and community receptors.	<p>Heritage – Mortuary Station is a heritage listed building to be protected.</p> <p>Community – Co-Masonic Building and adjacent apartments have direct line of site to the works.</p>

Part 3: Environmental Risk Assessment and Management

Prepare an Environmental Risk Assessment (in accordance with the *Sydney Metro Risk Management Standard*) and an Environmental Control Map for the proposed Minor Works and attach as Appendix 1.

If an Environmental Risk Assessment and/or an Environmental Control Map for the proposed Minor Works is/are already contained in existing documentation, attach the relevant section(s) as Appendix 1.

<p>Documentation: List any existing documents (including those referenced above) that the proposed Minor Works will be undertaken in accordance with and attach as Appendix 2 (e.g. plans, procedures, etc.).</p>	<ul style="list-style-type: none"> - Sydney Metro Construction Environmental Management Framework - Planning approval SSI 15_7400 - Mitigation measures in EIS/PIR - Erosion and sediment control plans
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Part 4: Workforce Notification

<p>How will the environmental and community risks and associated mitigation measures of the proposed Minor Works be communicated to the contractor's workforce?</p>	<p>All workers will undertake Sydney Metro Orientation Training & Sydney Yard Access Bridge specific induction.</p> <p>In addition, there will be a pre-start briefing undertaken by the worksite manager at the start of shift for all work groups. This will detail the environmental and community risks.</p>
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Part 5: Community Consultation

<p>What community consultation has been undertaken already?</p>	<p>The SYAB works will utilise the Sydney Trains community notifications where applicable. In addition, Sydney Metro will issue a monthly notification for SYAB works detailing upcoming works.</p>
<p>What community consultation is planned to be undertaken?</p>	<p>As above</p>
<p>If drafted already, attach applicable Community Notification as Appendix 3.</p>	


Part 6: Contact Details

Nominate contractor's project manager, environmental and communications contact(s).

Name:	Huw Griffiths	Position:	Project Manager	Phone:	0477 385 262
	Jason Ambler		Environmental Manager		0415 737 750

Part 7: Signature

This 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:	Jason Ambler		
Signature:		Date:	16/03/2017

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, Communication & Engagement – Endorsement (required for all applications)	TfNSW Principal Manager, Sustainability, Environment & Planning – Approval (required for all applications)	Environmental Representative – Endorsement (required as necessary in accordance with the applicable planning approval, optional for all other circumstances)
Signature:			
Name:			Annabelle Reyes
Date:			22/03/17
Comments:			<p>Supporting letter attached as Appendix 4 if necessary.</p> <p>Minor works stated in this document are known to be of low impact and not construction works.</p> <p>Works will be within Sydney Yard and track areas only and within approved working hours.</p> <p>Works also included outside rail corridor along Regent St Terraces for service relocation/caps/connections, soft strip, hoarding and scaffolding.</p>
Conditions:			<p>Supporting letter attached as Appendix 4 if necessary.</p> <p>The minor works stated in this document have been endorsed with the following conditions:</p> <ol style="list-style-type: none"> 1. OOHW will be approved by AA and Sydney Metro 2. Mitigation measures noted from EIS/PIR to be included in Appendix A to be implemented. 3. No road closure without ROL and Community notification. 4. All employees to be inducted on environmental mitigation measures requirements ("stop work" for unexpected finds) 5. Notify ER on all environmental incidents immediately. 6. LORA works to be compliant with Sydney Trains EPL and possession requirements.
<input type="checkbox"/>	Approved (by TfNSW)		
<input checked="" type="checkbox"/>	Endorsed (by Environmental Representative)		
<input type="checkbox"/>	Rejected		

Appendix 1: Cover Page

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

Aspect	Potential Environmental Impact	Initial Risk Rating			Control Measures	Residual Risk Rating		
		P X	C =	Risk		P X	C =	Risk
Approvals and Licensing								
Not identifying appropriate approvals / licenses required or proceeding without them.	Works delayed, infringements, prosecution and reputational loss.	P	3	M	Planning approval has been granted for the Sydney Metro Sydenham to Chatswood works. This minor works application is being completed to ensure appropriate documentation is completed to management environmental risk of the project. Only investigative works are being undertaken. No permanent construction works are to be completed.	U	3	M
Noise								
Noise from minor works activities.	Disturbance to residents or neighbouring businesses. Potential for complaints.	P	3	M	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). Site walks, survey and visual inspections will be inaudible at surrounding receivers. For investigative excavations, use silenced lighting towers and equipment where practical. Completion of activities will be maximised during standard and daytime hours.	U	3	M
Noise from minor works activities required to be undertaken out of standard working hours.	Disturbance to residents or neighbouring businesses with potential for complaints.	P	3	M	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). Site walks, survey and visual inspections will be inaudible at surrounding receivers. For investigative excavations, use silenced lighting towers and equipment where practical. Submit Sydney Metro OOH applications and detail specific mitigations per activity. Complete noise monitoring to ensure mitigations are suitable and effective.	U	3	M
Vibration								
Vibration intensive activities undertaken on the site in proximity to sensitive heritage structures and community.	Damage to listed heritage items. Disruption, annoyance and nuisance to residents. Potential damage to adjacent residential and commercial residences and structures. Disruption to businesses as a result of vibration nuisance. Vibration from compacting the demolition access ramp causing issue for residences and Co-masonic building.	U	4	M	Manual plate compactor only to be used to backfill investigative trenches, Manual tamping with Kanga to reinstate ballast from installation of temporary supply conduit, not in proximity to Mortuary Station or residents (greater than 20m away). Deliveries and site access are not considered to be vibration intensive activities. Consult with potentially affected parties prior to commencement of works for any activities that may create vibration impacts caused by the works. Vibration monitoring required at Co-Masonic/Regent St during compacting works on the demolition access ramp.	R	4	M
Water Quality, Erosion & Sedimentation								
Sediment laden runoff from investigation works leaving site.	Degradation of local watercourses. Increased turbidity in local water ways resulting in impact on aquatic life. Fines for sediment escaping site.	U	3	M	Existing stormwater drainage points and swales will be identified prior to minor works. Ensure erosion/sed controls are installed as per ECM. Limited excavation work – potholing only.	R	3	L

Aspect	Potential Environmental Impact	Initial Risk Rating			Control Measures	Residual Risk Rating		
		P X	C =	Risk		P X	C =	Risk
					All vehicle wheels to be clean prior to exiting site. Ensure measures are inspected and maintained as the works progress and also prior to and post rainfall events. Investigative excavations backfilled after shift finishes. Piling platforms will not be excavating material, hardstand will be laid on existing surfaces.			
Non-compliant water from investigation works discharged from site	Non-compliant water entering stormwater system waterways (i.e. polluting - not compliant with discharge criteria).	P	3	M	Induction and toolbox talks; educate site staff on licence conditions and consequences of prosecution. No water discharge anticipated for minor works. If required, Environmental Manager/representative to approve all water discharges from site.	U	3	M
Ground water	Ground water entering excavations Without appropriate safeguards onsite could lead to ground water contamination	U	2	L	Investigation works will not be going to groundwater depth.	R	2	L
Waste								
Waste disposal during works.	Incorrect disposal of waste, further costs incurred for classifications and disposal, fines may be issued.	P	2	M	Potholing contractor to take slurry waste to licenced waste facility only. To be checked prior to shift. Ensure accurate waste records are retained and recorded in monthly project report. 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 (DECC, 2008). Soft strip waste from the Regent St Terraces to be sorted and recovered/recycled offsite as far as practical. All records to be entered into the monthly SYAB reporting.	U	2	L
Contamination								
Potential for discovery of unexpected contaminated spoil during minor works involving excavation and drilling.	Health effects resulting from airborne contamination, e.g. asbestos. Complaints received from odours.	P	3	M	If contaminated soil is encountered, all works are to stop in the vicinity of the find and investigations commence. Induct personnel on location, type, nature, 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	M	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
Biodiversity								
Vegetation trimming / clearing required outside approved work area.	Unauthorised works / removal of vegetation outside defined work area, possibility of removing threatened species, fines incurred.	R	3	L	No vegetation or habitat removal to be undertaken as part of the minor works.	R	1	L
Clearing and grubbing of vegetation within work site.	Erosion of soils, uncontrolled runoff, sediment deposited into surrounding vegetated areas and water courses, and invasion of weeds. Wrong vegetation removed.	R	3	L	No vegetation or habitat removal to be undertaken as part of the minor works.	R	1	L

Aspect	Potential Environmental Impact	Initial Risk Rating			Control Measures	Residual Risk Rating		
		P X	C =	Risk		P X	C =	Risk
	Potential for injury to native fauna.							
Air Quality								
General works; investigative excavations, deliveries, soft strip, etc	Dust activity in close proximity to residential and commercial premises, complaints received.	U	3	M	Potholing will use water aided digging – no dry excavations undertaken. No excavation for other works. Grounds will be stabilised to reduce potential for dust emissions.	R	3	L
Exhaust from plant and equipment.	Emissions resulting in air pollution.	U	3	M	Well maintained plant/ equipment and pre-start checks and servicing. Non-complaint vehicles removed from site / repaired.	R	3	L
Heritage								
Unexpected heritage items encountered.	Work delays, additional studies, approvals required, damage to heritage item.	P	3	M	General inductions on heritage management 'stop-works' protocol. If suspected heritage item encountered. Works to stop immediately and Environment Manager contacted. Label any known heritage items on Environmental Control Maps. Only excavation works are potholing activities (non-destructive digging).	U	3	M
Works in proximity to Mortuary Station.	Damage to listed heritage item from investigative works.	U	3	M	No access to mortuary station is permitted during works except for any required structural/vibration monitoring. This will be briefed at each pre-start meeting and whiteboard possession briefings. Signage will be placed, labelling Mortuary Station as 'No Access Permitted'. Temporary fencing activities included in this application will put a physical barrier between the work site and Mortuary Station.	R	3	L
Flora & Fauna								
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 the minor works.	R	1	L
Traffic								
Loss of on-street car parking in adjacent residential streets and commercial areas during minor works.	Loss of parking availability to adjacent residential and commercial properties could result in community complaints.	P	3	M	Community notifications delivered to detail all works and associated timings. Site vehicles shall be parked within the rail corridor and not affect public parking area.	U	3	L
Impacts to local traffic	Traffic congestion due to lane closures.	P	3	M	Hoarding installation for Regent St Terraces to be undertaken at night to utilise a local lane closure. This will minimise impact to the local traffic and minimise worker proximity to live traffic movements.	U	3	L
Management of heavy vehicles / access routes.	Complaints from sensitive receivers due to increased level and frequency of noise.	P	4	M	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. Oversized deliveries would be undertaken in accordance with the requirements of NSW Police or Roads and Maritime Services. Designated access routes given to contractors/suppliers. Community Notifications to include relevant traffic management details and planned lane closures. Pedestrian management with traffic controller in place where required.	U	4	L

Aspect	Potential Environmental Impact	Initial Risk Rating			Control Measures	Residual Risk Rating		
		P X	C =	Risk		P X	C =	Risk
Truck deliveries out of normal working hours (un-approved).	Noise impact to community / potential complaints.	P	3	M	Induction on approved working hours for deliveries. Communication of delivery times to suppliers. Community Notifications on project activities occurring locally. Approved traffic/access routes. Planning and staging of works in approved hours as much as practical.	U	3	M
Resources and Energy Use								
Energy consumption by plant and equipment.	Inappropriate energy use, waste of energy recourses, energy wastage costs, increased greenhouse gas emissions.	U	2	L	No idling of plant equipment where possible onsite. Equipment / plant equipment inspections must be undertaken prior to use on site.	R	2	L
Resource usage (e.g. building materials, water, fuels, packaging), waste generation and disposal	Depletion of resources due to wastage (e.g. wastage of water / no recycling, poor management of procurement, ineffective removal of off-cuts, waste, i.e. no recycling).	U	2	L	Recycled aggregate to be considered to backfill trenches. Subcontractor's agreements to include project compliant waste management principles. Waste management undertaken in accordance with the Waste Avoidance and Resource Recovery Act 2001.	U	2	L

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.

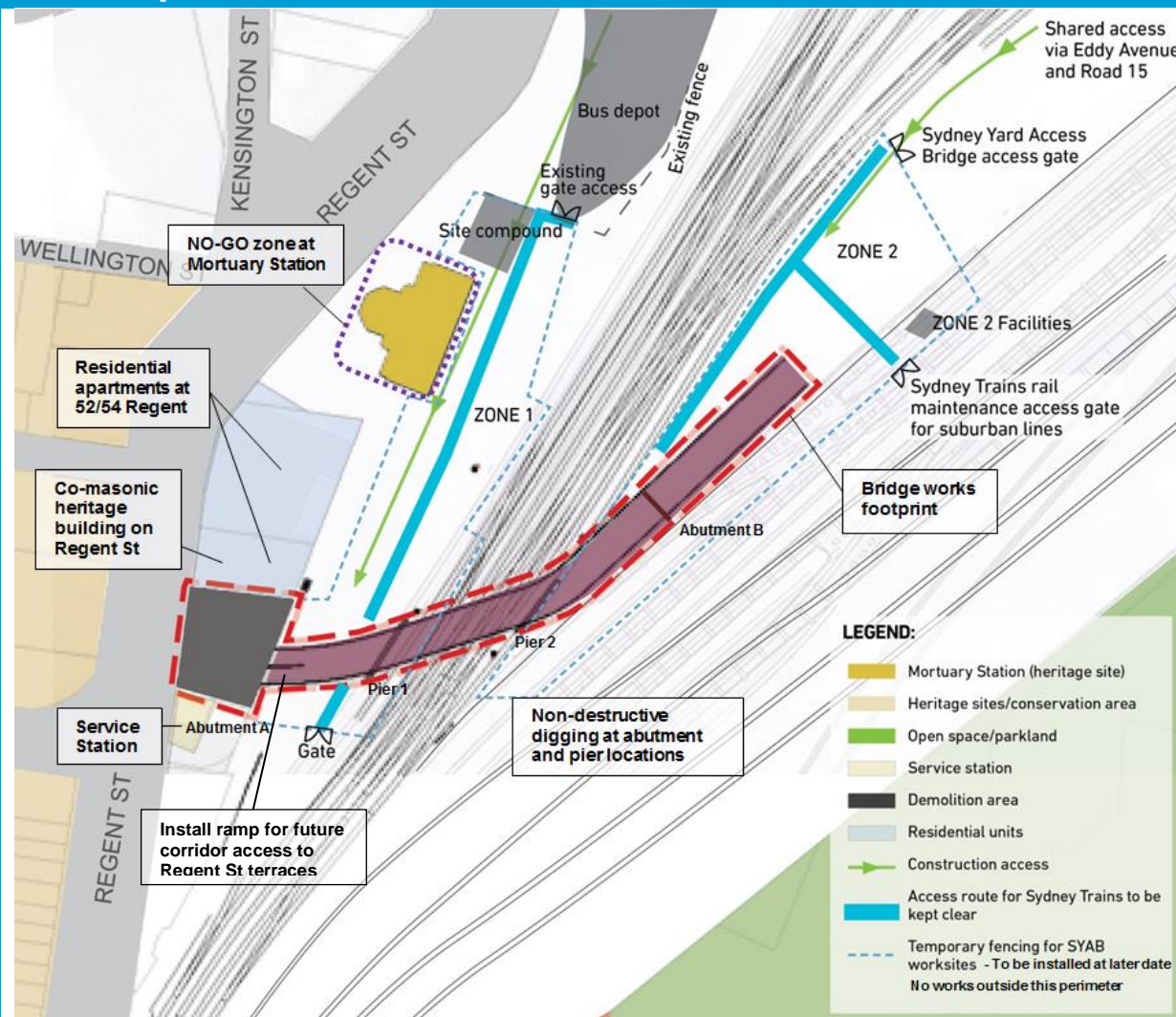
Note: Any one of the listed consequences must result in the use of the applicable consequence grading.

Probability:		Consequence:	
5 = Certain 4 = Likely 3 = Possible 2 = Unlikely 1 = Rare		5 = Severe 4 = Major 3 = Moderate 2 = Minor 1 = Incidental	
1- 4 Acceptable 5 - 9 Acceptable with control measures 10 - 16 Requires the implementation of best practice 17 and Above = UNACCEPTABLE			
5	Certain	<ul style="list-style-type: none"> Common or repeating occurrence Consequence can reasonably be expected to occur in life of Project. 	5 Severe <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 Moderate <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Practically impossible Not known to have occurred in industry or unheard of. 	1 Incidental <ul style="list-style-type: none"> Localised or short term effects on habitat, species or environmental media. Fully contained on site and can be fully remediated. Little potential for fine or complaints.

5	Certain	<ul style="list-style-type: none"> Common or repeating occurrence Consequence can reasonably be expected to occur in life of Project. 	5	Severe	<ul style="list-style-type: none"> 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 	
					<ul style="list-style-type: none"> Insignificant or trivial incident 	
Probability ►						
▼ Consequence						
		CERTAIN 5	LIKELY 4	POSSIBLE 3	UNLIKELY 2	RARE 1
5 – Severe		25	20	15	10	5
4 – Major		20	16	12	8	4
3 – Moderate		15	12	9	6	3
2 – Minor		10	8	6	4	2
1 – Incidental		5	4	3	2	1

SYAB Minor Works 002 Environmental Control Map – Page 1 of 2

Site Map



NO GO ZONES: ACCESS TO MORTUARY IS NOT PERMITTED

CONTACT INFORMATION	
Environmental Manager – Chris McCallum	0408 264 164
Project Leader – Huw Griffiths	0477 385 262
Independent Environmental Representative – Annabelle Reyes	0416 170 480
TfNSW Construction Response Line	1800 775 465
TfNSW Info Line	1800 684 490
Environmental Line / Pollution Incident Response Line	131 555
Office of Environment & Heritage Pollution Line	131 555
Emergency	000 or 112 (mobiles)
WIRES	1300 094 737

Works Description and Program

The following Minor Works and site establishment are to be carried out in Sydney Yard.

April 2017 [Normal Hours]	Plant & Equipment
Site establishment of offices and ancillary facilities	Flatbed Truck Tower Lights
Piling platforms, hardstands and Regent St access ramp	Bogie Tipper Roller Excavator
WE 40 & WE 44	Plant & Equipment
Temporary supply conduit under tracks	Hand Tools Flatbed Truck Kanga Hammer
WE44 & WE45 [Ongoing 1 – 2 days / week]	Plant & Equipment
Service investigations	Vac Truck Cranes 6t Excavator Road sweeper
WE44 & WE45 [16 shifts]	Plant & Equipment
Temporary fencing	Flatbed Truck Hand Tools
WE44 & WE45 [4 shifts]	Plant & Equipment
OHW removal	Manitou EWP x 2 Hand Tools
May 2017 [Normal Hours]	Plant & Equipment
Service relocations / caps / connections	Excavator Hand Tools
Regent Street soft strip	Hand Tools Bogie Tipper
May 2017 Out of Hours Approval [10 Shifts]	Plant & Equipment
Hoarding / scaffold erection on Regent St	Flatbed Truck Tower Lights

Standard Working Hours

Unless otherwise approved by the Environmental Manager, works will be restricted to:

- 7:00AM to 6:00PM - Monday to Friday
- 7:00AM to 1:00PM - Saturdays

No work on Sundays or public holidays.

Any works outside of the hours above require OOHW and Environmental Managers Approval

SYAB Minor Works 002 Environmental Control Map – Page 2 of 2

Environmental Aspects	
Site Induction	Soils and water
<ul style="list-style-type: none"> - All staff and contractors to be trained on environmental issues and location of sensitive areas. - Daily pre-start/toolbox meetings to include this Environmental Controls Map and to address specific day to day environmental concerns. - This ECM will be displayed on site. 	<ul style="list-style-type: none"> - Existing stormwater drainage points and swales will be identified during initial site walks to allow installation of stormwater protection prior to investigative excavation works. - Sandbags / silt socks to be placed around drain inlets adjacent/downslope. - All vehicle wheels to be clean prior to exiting site.
Air Quality	Waste
<ul style="list-style-type: none"> - All vehicle and machinery movements during works is restricted to designated areas - All site vehicles and machinery would be switched off or throttled down to a minimum when not in use - Non-destructive digging (potholing) undertaken 	<ul style="list-style-type: none"> - No spoil to be removed from or imported onto site without approval - Maintain waste docket for the site
Heritage	Noise and Vibration
<ul style="list-style-type: none"> - A number of items of heritage significance have been identified within the proposal area, the items include: <ul style="list-style-type: none"> ▪ Mortuary Station – no access to Mortuary Station is permitted. ▪ Central Station Railway Group – works are within this curtilage. - If intact subsurface elements are uncovered during the works all work in the vicinity of the find must cease and appropriate advice would be sought from OEH and/or heritage consultants. Work in the vicinity of the find would not re-start until clearance has been received. - If previously unidentified Indigenous heritage items are uncovered during the work, all work in the vicinity of the find must cease and appropriate advice would be sought from OEH and/or heritage consultants. Work in the vicinity of the find would not re-start until clearance has been received. - Unexpected finds of heritage items must be reported to Sydney Metro. 	<ul style="list-style-type: none"> - Residential receivers on Regent St adjacent works will be notified of the investigative works via letter box notifications. - All plant used regularly on site will have non-tonal alarms. - Noisy activities scheduled during daytime hours as far as practical. - Turn off plant that is not being used. - Ensure plant is regularly maintained, and repair or replace equipment that becomes noisy. - Monitor noise levels, as required, to ensure compliance with project noise management levels. - All out of hours works require approval from the Environmental Manager.
Traffic and Transport	Biodiversity
<ul style="list-style-type: none"> - Plant movements are restricted to the designated traffic routes. If plant is required to be delivered outside of normal hours due to safety concerns contact Environmental Manager. - Access requirements will be managed by using existing driveways and hard stand roads into the site areas. - All delivery drivers will be briefed on heritage status of Mortuary Station. - Additional traffic control will be implemented as required. 	<ul style="list-style-type: none"> - No vegetation to be removed - If fauna is encountered on site – stop work and contact the site supervisor.
Chemical and fuel storage and use	Imported materials
<ul style="list-style-type: none"> - No fuel or chemical storage on site 	<ul style="list-style-type: none"> - All sources of imported materials (backfill trench material) must be approved and sourced by appropriately licenced supplier

Appendix 2: Cover Page

Environmental Management Documentation – Provided separately

Appendix 3: Cover Page

Community Notification – UNDERTAKEN BY SYDNEY METRO

Appendix 4: Cover Page

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