

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:	Golder Associates			
Project:	Sydney Metro			
Application Title: (e.g. Smith St trenching works)	Central Station Site Investigation Work			
Application Number:				
Application Date:	06/02/2017			
Planning Approval:				
 Minor Works Categories: Highlight as applicable. If Items 4, 8 or 11 are applicable, this form must be endorsed by an Environmental Representative. 	 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 n 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?	If 'Yes', this completed form must be endorsed by an Environmental Representative, approved by TfNSW and submitted to the applicable planning authority to determine that the works are not defined as 'construction'. Yes. Works will be carried out in a heritage listed environment, there is potential of inadvertently encountering heritage items.			



Part 2: Details SRT BH006A; Drilling of 1 geotechnical borehole to a depth of 16 m SRT NDD030; 1 Test pit excavation trench, 10 m long, 1.5 m wide and 2.5 m deep Assumes access through Platform 15 will be granted to Golder-Douglas for the period 17/02/2017 to 27/02/2017, allowing for access of drilling rig and large vacuum sucker truck machinery into central yard. Golder-Douglas will provide a Protection Officer with a minimum of level 2 and power out holder qualifications. Service Scanning includes: Inspect DSS and DBYD information Access Central Yard on foot Service locating proposed Boreholes and test pit locations using GPR and electromagnetic techniques Spray paint identified services within 3m radius of investigation location Drilling process includes: Describe the proposed Access to Central Yard via platform 15 road **Minor Works:** Non-destructive digging to 1.5m below ESL Including work methodologies, Rotary drilling to target depth (in-situ borehole testing as required) site location(s) and site Backfill borehole with grout and reinstate surface description(s) (e.g. landscape Survey as-drilled borehole locations type, waterways, etc.). Exit via Platform 15 road Test Pit Process: Access to Central Yard via platform 15 road Non-destructive digging for the length of the test pit and width at one end to form an L shaped trench Unload 5 t excavator from truck Commence excavation to target depth (in-situ test pit sampling as required) Upon completion, the test pit will be backfilled with spoil and compacted with the excavator bucket Reinstate gravel surface at the surface Equipment: NDD Vacuum Sucker Truck Truck Mounted Drilling Rig

Planned Commencement Date:

- Support light vehicles

Wednesday - arc 1, 20, 7 at 7am. We anticipate works will take up to 2 weeks to complete both locations.

Local Sensitivities:

Describe the presence (if any) of local sensitive environmental areas and community receptors.

Known heritage area

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.

Tracked Drilling Rig Support Trucks Excavator

9 March 17.

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.

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, procedures, etc.).

Referred the GML report

- Work Health and Safety Management Plan (Ref. 1650773-006-S-RL1)
- Construction Environmental Management Plan (Ref. 1650773-002-S-RL1)
- Risk Management Plan (Ref. 1650773-006-S-RL0)
- Incident Management Plan (Ref. 1650773-009-S-RL0)

Sydney Metro - Integrated Management System (IMS)

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How will the environmental and community risks and associated mitigation measures of the proposed	Documentation in field work plan during daily pre-start and toolbox meetings and during the heritage induction.
Minor Works be communicated to the contractor's workforce?	heritage induction.

Part 5: Community Consultation							
What community consultation has been undertaken already?	Sydney METRO Comms Team						
What community consultation is planned to be undertaken?	As above						
If drafted already, attach applicable	e Community Notification as Appendix 3.						

Part 6: C	Part 6: Contact Details								
Nominate	Nominate contractor's project manager, environmental and communications contact(s).								
	Jono Lockwood		Field Manager		0424 580 279				
Name:		Position:		Phone:					
name:		rosidon:		FIIONE:					

Part 7: Signature	de division de		
This signature acknowledges that the proposed minimal environmental impact and are not defin			
Name: Jono Lockwood	024	-5	
Signature:		Date:	15/02/2017



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). TINSW Principal **TfNSW** Manager, **Principal** Communication & Manager, Sustainability, Engagement Environmental Representative - Endorsement **Environment** Endorsement (required as necessary in accordance with the applicable & Planning planning approval, optional for all other circumstances) (required for all Approval applications) (required for all applications) Signature: Michael Lloyd Name: Annabelle Tungol Reves 24/2/17 Date: 23/02/2017 Supporting letter attached as Appendix 4 if necessary. Works to be conducted are within the Sydney Terminal and Central Railway Stations Group SHR; s.170 and DCP. Works stated in this application have been assessed as minor works with low impact on heritage items. However, Planning Authority Determination is required as per the definition of construction in CSSI 15_7400 as the low impact works i.e. driling and test pit may potentially Comments: affect heritage items. No works to be conducted without the approval from Planning Authority. Supporting letter attached as Appendix 4 if necessary. The following conditions to be implemented: 1. No works to commence without the Planning Authority Approval. Implementation of Planning Authority conditions upon approval of these works (i.e. drilling and test pit) as minor works (not construction) as required. Conditions: 2. Mitigation Measures as per EIS Table 14-25 Mitigation measures - Non-Aboriginal heritage 3. Mitigation measures and controls as per Golder-Douglas CEMP and SWMS 4. Work area, only within the specifed location in ECM. OOHW approvals conditions as required. 6. Permit and consultation with Sydney Trains as required. Approved (by TfNSW) Endorsed (by Environmental Representative)

Rejected

Koutsamanis, Adam

From: Lloyd, Michael

Sent: Friday, 31 March 2017 8:46 AM

To: Armstrong, Ben Cc: Annabelle Reyes

Subject: Re: Sydney Yard NDD030

Approved- thanks

Sent from my iPhone

On 31 Mar. 2017, at 8:36 am, Armstrong, Ben < Ben. Armstrong2@transport.nsw.gov.au > wrote:

Good morning Annabelle and Michael,

Sydney Trains approval has only just come through for undertaking of NDD030 within Central Yard. Works are proposed for the 4 April 2017.

Again, for transparency purposes can you please send through your email approval of the date change and I will get Fil Cerone to approve.

Thanks

Ben

Ben Armstrong Senior Manager Environment Sydney Metro – City & Southwest Transport for NSW

M 0404 831 197

Please note my email address: ben.armstrong2@transport.nsw.gov.au
Ground Floor, South Building
22 Giffnock Ave, Macquarie Park NSW 2113
PO Box 588, North Ryde BC, NSW 1670

[cid:image001.jpg@01D2A9F9.D79D0B30]

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From: Christie, Ray

Sent: Thursday, 30 March 2017 5:14 PM

To: Thorin, Sven; Williams, Nicole; Armstrong, Ben; Cardwell, Trent; Bush, Daniel;

Ninness, Mark

Subject: FW: Sydney Yard NDD030

All:

Please see confirmation for start of NDD030 next Tuesday.

Ray Christie

Senior Manager, ENE Works and Possessions Co-ordination

Sydney Metro Northwest Sydney Metro Delivery Office Transport for NSW

T 02 82656196 | F 02 82659501 | M 0412520815 South Building, Ground Floor, 22 Giffnock Avenue, Macquarie Park. NSW 2113 PO Box 558, North Ryde BC NSW 1670

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From: Lockwood, Jono [mailto:JLockwood@golder.com.au]

Sent: Thursday, 30 March 2017 15:59

To: Christie, Ray; Seaford, Ben; Carroll, Grace; Mordey, Lee; Gordon, Andrew

Subject: RE: Sydney Yard NDD030

Hi Ray,

Thank you for passing on the good news.

Yes, I can confirm Golder-Douglas are planning to commence work on Tuesday 4th April.

Cheers

Jono Lockwood (MEngSc BSc) | Engineering Geologist | Golder Associates Pty Ltd 124 Pacific Highway, St. Leonards, New South Wales 2065, Australia (PO Box 1302, Crows Nest NSW 1585)

T: +61 2 9478 3900 | D: +61 (2) 9478 3635 | M: +61 424 580 279 | F: +61 2 9478 3901 | E: <u>JLockwood@golder.com.au</u><mailto:<u>JLockwood@golder.com.au</u>> | <u>www.golder.com</u><http://www.golder.com/>

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<<u>Grace.Carroll@transport.nsw.gov.au</u><<u>mailto:Grace.Carroll@transport.nsw.gov.au</u>>>; Mordey, Lee

<<u>Lee.Mordey@transport.nsw.gov.au</u><<u>mailto:Lee.Mordey@transport.nsw.gov.au</u>>>; Gordon,
Andrew

.gov.aumailto:ANDREW.GORDON@transport.nsw.gov.au>

Subject: FW: Sydney Yard NDD030

Jono:

Please see following email from Sydney Trains providing "no objection" to Golders undertaking NDD030 subject to the conditions listed.

Please confirm that Golders will commence work on site Tuesday 4 April as per your email of 28 March.

Ray Christie Senior Manager, ENE Works and Possessions Co-ordination Sydney Metro Northwest Sydney Metro Delivery Office Transport for NSW

T 02 82656196 | F 02 82659501 | M 0412520815 South Building, Ground Floor, 22 Giffnock Avenue, Macquarie Park. NSW 2113 PO Box 558, North Ryde BC NSW 1670

[cid:image002.jpg@01D2A96E.20896E60]

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From: MULHALL, DEAN

Sent: Thursday, 30 March 2017 10:16

To: Christie, Ray

Cc: Gordon, Andrew; Woolven, Jarrod; Hynes, Peter; GRIFFITHS, Geoffrey; David Smith;

Bush, Daniel; Cardwell, Trent; Payne, Adam

Subject: Sydney Yard NDD030

Ray,

Please advise Golders that,

Sydney Trains advises "NO Objection" based on the following

- All works are undertaken in accordance with previously submitted SWM's and Methodology for trench NDD030
- Works are only undertaken in the area stated in PWN/SOW

- No works in Danger Zone
- No exclusive access will be granted, all areas to remain under Sydney Trains Management control

Regards

Dean Mulhall System Support and Assurance Specialist Future Network Delivery **Sydney Trains**

Mob: 0428 817 963 Level 11, 477 Pitt Street Sydney NSW 2000 Sydney Trains is a NSW Government agency

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<08032017 Minor Works Central Station Investigation Approval.pdf>

<image001.jpg>

Koutsamanis, Adam

From: Annabelle Reyes <annabelle.reyes@hbi.com.au>

Sent:Friday, 31 March 2017 10:46 AMTo:Armstrong, Ben; Lloyd, MichaelSubject:RE: Sydney Yard NDD030

Hi Ben,

Change of minor works dates endorsed.

Regards,

Annabelle Tungol Reyes

Alternate Environmental Representative – North West Rail Line E: annabelle.reyes@hbi.com.au

Exemplar Global Registered Principal Environmental Auditor Exemplar Global Registered Quality Auditor SAI Global certified OHS Lead Auditor

Healthy Buildings International Pty Ltd Suite 2.06, Level 2, 29-31 Solent Circuit, Baulkham Hills NSW 2153 M: 0416 170 480 | P: 02 9659 5433 | W: www.hbi.com.au

From: Armstrong, Ben

Sent: Friday, 31 March 2017 8:37 AM
To: Annabelle Reyes; Lloyd, Michael
Subject: FW: Sydney Yard NDD030

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Ben Armstrong Senior Manager Environment Sydney Metro – City & Southwest **Transport for NSW**

M 0404 831 197

Please note my email address: ben.armstrong2@transport.nsw.gov.au Ground Floor, South Building 22 Giffnock Ave, Macquarie Park NSW 2113 PO Box 588, North Ryde BC, NSW 1670



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Regards

Dean Mulhall
System Support and Assurance Specialist
Future Network Delivery
Sydney Trains

Mob: 0428 817 963 Level 11, 477 Pitt Street Sydney NSW 2000 **Sydney Trains is a NSW Government agency**





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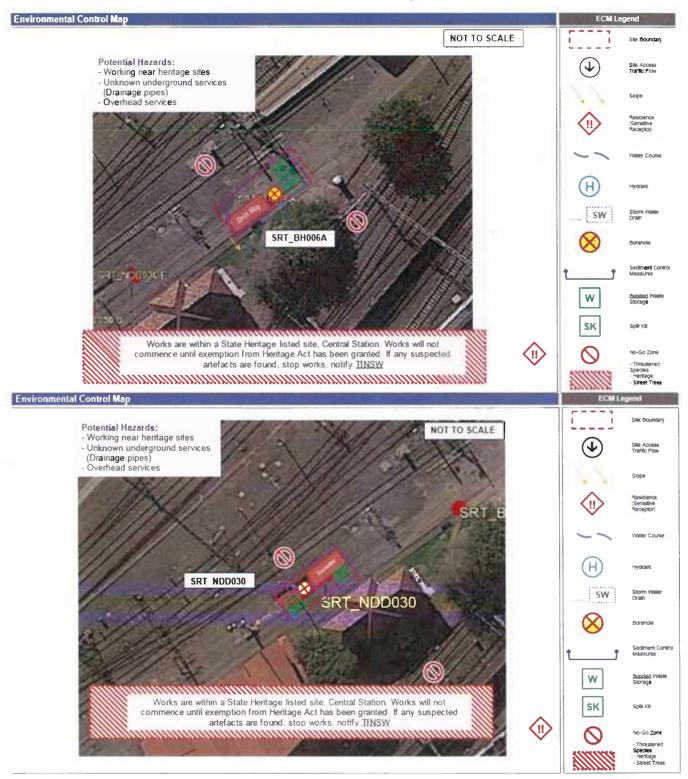
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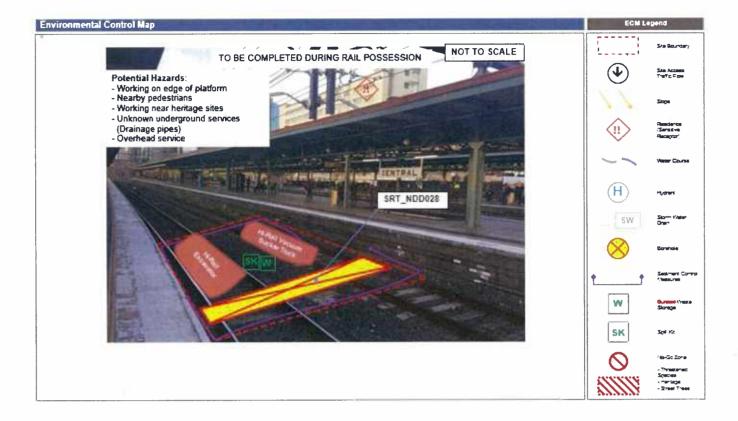


Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map:







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Appendix 2: Cover Page

Environmental Management Documentation.



Extrcated from the project Construction Environmental Plan



6. Traffic and Transport

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
Traffic	Potential disruption of pedestrian, road, and rail traffic	 Where possible, current traffic movements and property accesses would be maintained during the works. Any disturbance would be minimised to prevent unnecessary traffic delays. Safe alternative access or pathways would be provided in any areas where access is affected, in consultation with land owners and / or tenants. Traffic management plans would be prepared for relevant sites, to manage disruption to traffic, pedestrian and cyclist movements. All road occupancy licences and required permits from RMS and / or local council would be obtained prior to the commencement of the proposed works. Consultation with Councils and other stakeholders to understand scheduled activities and major events, and any time or location restrictions that may impact the geotechnical investigations. 	Issue of Site HSSE Plan and Authority to Work Associated traffic permits and plans.	Field Manager	Site HSSE Plan Authority to Work

7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
Non-Indigenous Heritage	Damage occurs to a place or item of heritage significance within or in close proximity of the	 For each proposed borehole location, cross correlation between the State Heritage Inventory and Australian Heritage Database results to be undertaken by Field Manager as part of the Authority to Work process to determine if the location is within a heritage listed site and whether it has identified archaeological potential, or whether it is within the buffer zone of a World Heritage property. Potential impacts would be assessed in accordance with each place's CMP. 	following the identification of	Field Engineer Drilling & NDD subcontractors	Authority to Work







7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
	investigation location.	 Geotechnical investigations would not take place within a 3m buffer around the Tank Stream, in accordance with its SHR listing. 	approval of the Project Manager.		
		 Geotechnical investigations would not take place within a 3m buffer around the Bennelong Stormwater Channel No. 29. 			
		If the proposed investigation location is within the curtilage of a place of heritage, alternative locations to be identified, where possible.			
		If a proposed borehole is within the curtilage of a locally listed heritage item or within a heritage conservation area and it cannot be moved, the potential impact of the borehole would be assessed. If an adverse impact may arise, the advice of a qualified archaeologist and/or heritage specialist to be sought and, where required, a Statement of Heritage Impact to be prepared and appropriate site specific controls implemented. Appropriate exemptions/approvals will be obtained in consultation with TfNSW prior to the works commencing at these bore holes.	E	8:	
		■ The archaeological potential of the areas that are not listed but may have the potential to contain archaeological relics to be assessed and considered during the micro-siting.			
		■ Reference to the City of Sydney historical archaeological zoning plan can be used as the basis for this assessment (N.B. locations that have not undergone extensive development post ~1970 (that is locations with deep excavation or land modifications) may hold the potential for historical archaeological relics).			
		If the borehole is located on land where there is known or a reasonable cause to suspect that the excavation will or is likely to			







7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records	
		result in a relic being discovered, exposed, moved, damaged or destroyed appropriate approvals to be sought under the Heritage Act, to allow the works to proceed. The documentation should be accompanied by an appropriate Work Method Statement outlining mitigation measures to minimise the archaeological impacts. An inspection of the site for any undocumented artefacts shall be undertaken prior to establishment of site. The location of known heritage items and areas will be communicated to all site workers prior to commencing work and protection will be set up, as appropriate, to protect heritage areas.				
		If any unexpected archaeological remains or other heritage artefacts are encountered during the works, all works will cease in the vicinity of the find and the Project Manager shall be advised immediately. TfNSW and the project archaeologist to be contacted for further assessment and notification of the NSW Heritage Division about the discovery of relics in accordance with section 146 of the <i>Heritage Act</i> (1974). Management measures such as additional approvals may be required prior to recommencement of works.			÷	
Indigenous Heritage	Damage occurs to an item of heritage significance within or in close proximity of the investigation location.	Where boreholes are not in disturbed land or are in the vicinity of registered Aboriginal heritage sites, due diligence is to be exercised, in accordance with the Office of Environment and Heritage (OEH) (13 September 2010) Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales (2010) to determine whether further investigation and impact assessment, and potentially an AHIP, is required.	to recommence following the identification of	Field Engineer Drilling & NDD subcontractors	Authority Work	to







7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
		 Where boreholes classify as exempt development, are located on disturbed land and are not in the vicinity of registered Aboriginal heritage sites they would proceed with caution. If a potential Aboriginal heritage object or evidence of Aboriginal occupation is discovered during the works, all works will cease in the vicinity of the find and the Project Manager shall be advised 	Manager.		
		immediately. TfNSW to be contacted for further assessment.			

8. Flora, Fauna and Biodiversity

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
Terrestrial ecosystems	Damage or disturbance of vegetation during investigation activities	 Borehole locations will be selected, in consultation with TfNSW, to avoid impacts on vegetation, trees and tree roots and environmentally sensitive areas. A check of trees and ground areas for fauna likely to be affected by the activity is to be complete prior to any part of the activity commencing. If unexpected threatened flora or fauna are discovered, works would cease immediately and the Project Manager shall be advised. A suitably qualified Ecologist will be engaged to investigate the species and location. Clearing or pruning of trees and other vegetation (native or otherwise) is not permitted without approval from TfNSW. Root cutting will only occur where absolutely necessary and must be undertaken by a qualified arborist or tree surgeon. Trees (including trunk and root system) within the worksite will be protected from accidental damage by erecting temporary fencing 	Clearance of vegetation is not permitted until approval from the Project Manager and relevant authority is obtained.	Field Engineer Drilling & NDD subcontractors	Authority to Work





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Appendix 3: Cover Page

Community Notification.

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Appendix 4: Cover Page

Environmental Representative Supporting Letter.