

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 Yard - Site Environmental Assessment (ESA)
Application Number:	2
Application Date:	10 /05/2017 (resubmission 16/5/2017)
Planning Approval:	SSI_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?	<p><i>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'.</i></p> <p>Yes. Works will be carried out in a heritage listed environment, there is potential of inadvertently encountering heritage items.</p>

Part 2: Details

<p>Describe the proposed Minor Works: Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).</p>	<p>Geotechnical drilling of five boreholes to depths of up to 8 m:</p> <ul style="list-style-type: none"> - SRT_BH081 - SRT_BH082 - SRT_BH083 - SRT_BH084 - SRT_BH085 <p>Access through Platform 15 will be obtained using a TOA arranged by the Protection Officer. Access will be required for drilling rig and large vacuum sucker truck machinery into central yard.</p> <p>Golder-Douglas will provide a Protection Officer with a minimum of level 2 and power out holder qualifications.</p> <p>Service Scanning includes:</p> <ul style="list-style-type: none"> - 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 <p>Drilling process includes:</p> <ul style="list-style-type: none"> - Access to Central Yard via platform 15 road - Non-destructive digging to 1.5m below ESL - Rotary drilling to target depth (<i>in-situ</i> borehole testing as required) - Backfill borehole with grout and reinstate surface - Survey as-drilled borehole locations - Exit via Platform 15 road <p>Equipment:</p> <ul style="list-style-type: none"> - NDD Vacuum Sucker Truck - Truck Mounted Drilling Rig - Tracked Drilling Rig - Support Trucks - Support light vehicles
<p>Planned Commencement Date:</p>	<p>Monday 29 May, 2017 at 7am. We anticipate works will take up to 1 week, finishing on Friday 2nd June. Monday to Friday 7am - 6pm only</p>
<p>Local Sensitivities: Describe the presence (if any) of local sensitive environmental areas and community receptors.</p>	<p>Known heritage area. Guard house buildings are heritage listed. Vegetation is not to be disturbed, small access drilling rig will be used for low headroom drilling under trees and spotters will be used to manoeuvre machinery beneath trees.</p>

Part 3: Environmental Risk Assessment and Management

<p>Prepare an Environmental Risk Assessment (in accordance with the <i>Sydney Metro Risk Management Standard</i>) 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>	
<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>	<p><i>Referred the GML report</i></p> <ul style="list-style-type: none"> - 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)

Part 4: Workforce Notification

(Uncontrolled when printed)

<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>Documentation in field work plan during daily pre-start and toolbox meetings and during the heritage induction.</p>
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Part 5: Community Consultation

<p>What community consultation has been undertaken already?</p>	<p>Sydney METRO Comms Team</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).

<p>Name:</p>	<p>Ben Austin</p>	<p>Position:</p>	<p>Project Manager</p>	<p>Phone:</p>	<p>0407 296 682</p>
	<p>Jono Lockwood</p>		<p>Field Manager</p>		<p>0424 580 279</p>

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.

<p>Name:</p>	<p>Ben Austin</p>		
<p>Signature:</p>	<p></p>	<p>Date:</p>	<p></p>

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:			
Date:			
Comments:			<i>Supporting letter attached as Appendix 4 if necessary.</i>
Conditions:			<i>Supporting letter attached as Appendix 4 if necessary.</i>
<input type="checkbox"/>	Approved (by TfNSW)		
<input type="checkbox"/>	Endorsed (by Environmental Representative)		
<input type="checkbox"/>	Rejected		

Determination Page

(TfNSW/Environmental Representative Use Only)

12. Endorsement/Approval

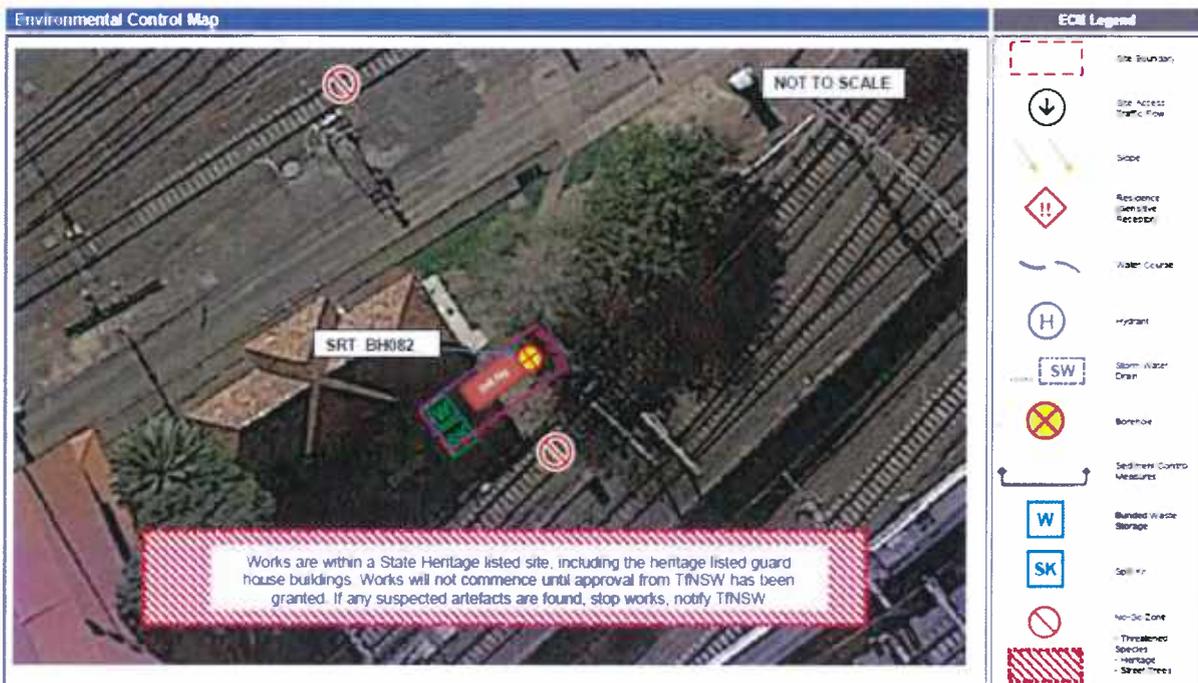
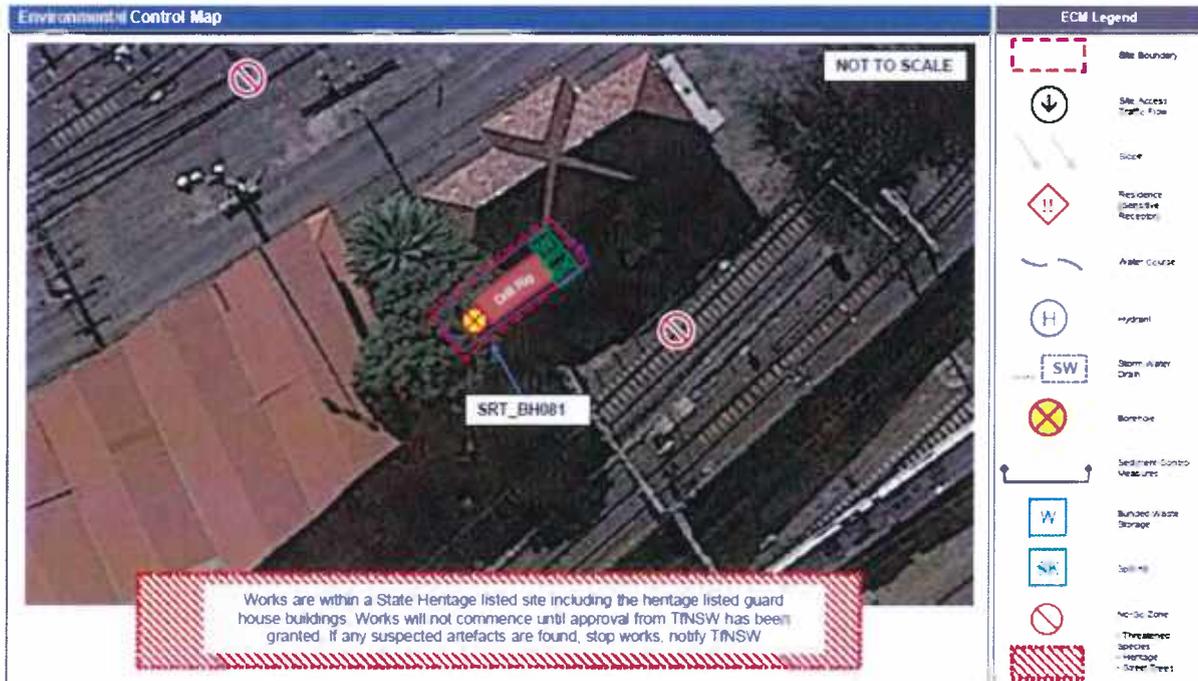
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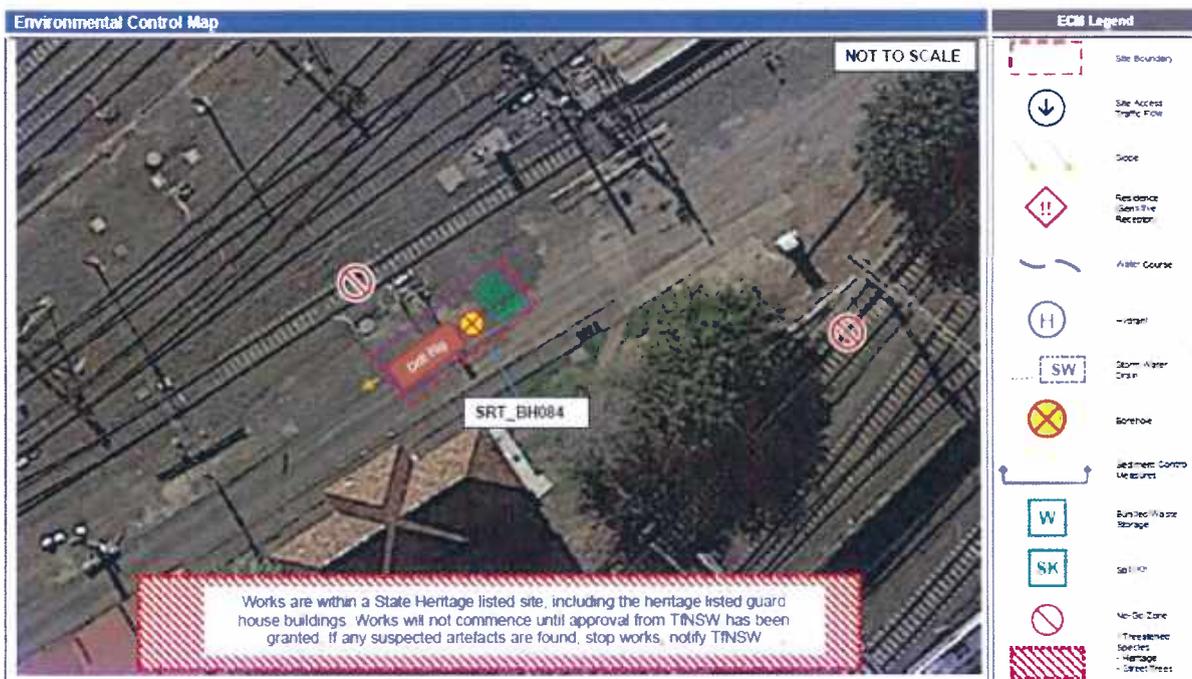
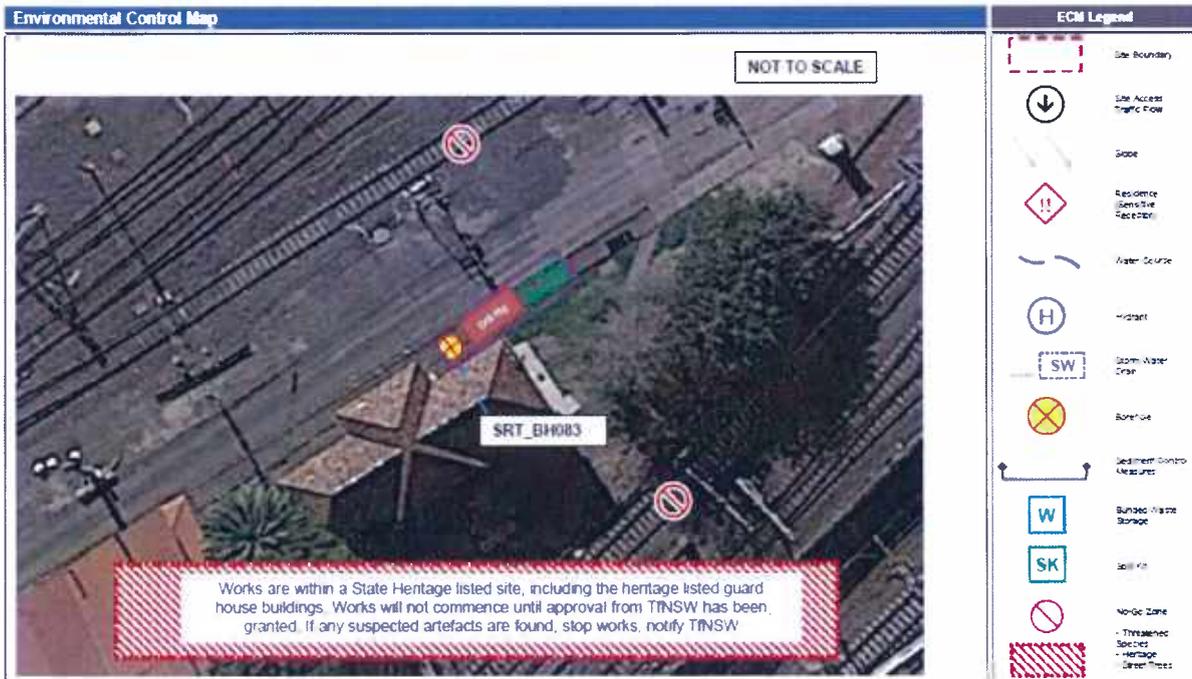
	TfNSW Principal Manager, Communication & Engagement – Endorsement (required for all applications)	TfNSW Principal Manager, Sustainability, Environment & Planning – Approval (required for all applications)	Environmental Representative – Endorsement (required as necessary in accordance with the applicable planning approval, optional for all other circumstances)
Signature:			
Name:	Michael Lloyd o.b.o Anita Brown	FIL CORSONE	Annabelle Tungol Reyes
Date:	15/5/17	26/5/17	18/5/17
Comments:	Nil	—	<p>Supporting information not available for endorsement.</p> <p>The scope of work is limited to geotechnical drilling of five boreholes to depths of up to 8 m:</p> <ul style="list-style-type: none"> - SRT_BH081 - SRT_BH082 - SRT_BH083 - SRT_BH084 - SRT_BH085 <p>and other supplementary works stated in Part 2 of this document.</p> <p>The following documents were also reviewed as part of this endorsement:</p> <ul style="list-style-type: none"> - SWMS (1650773 - SWMS 001, SWMS 004, SWMS 005 SWMS 006) - Work Health and Safety Management Plan (Ref. 1650773-005-S-RL2-WHSMP) - Construction Environmental Management Plan (Ref. 1650773-006-S-RL1) - Risk Management Plan (Ref. 1650773-002-S-RL1) - Incident Management Plan (Ref. 1650773-009-S-RL0)
Conditions:	Nil	—	<p>Supporting information not available for endorsement.</p> <p>No works to commence outside standard working hours without approved OOHW.</p>
<input checked="" type="checkbox"/>	Approved (by TfNSW)		
<input checked="" type="checkbox"/>	Endorsed (by Environmental Representative)		
<input type="checkbox"/>	Rejected		

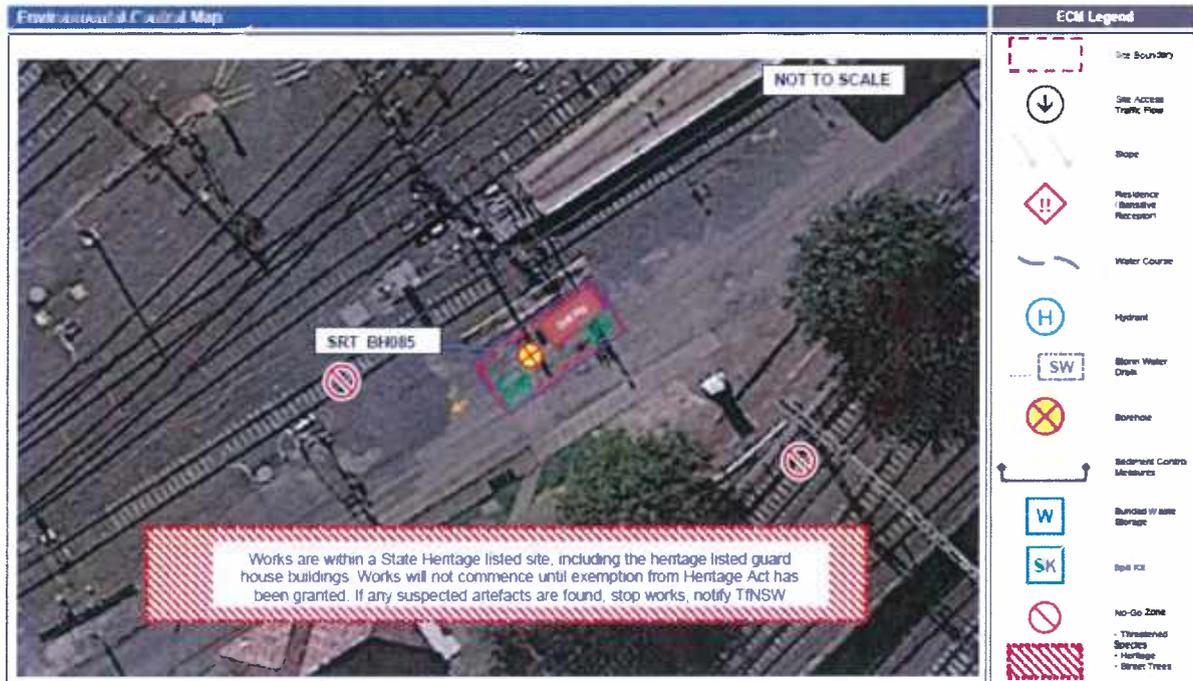


Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map:







Appendix 2: Cover Page

Environmental Management Documentation.

6. Traffic and Transport

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
Traffic	Potential disruption of pedestrian, road, and rail traffic	<ul style="list-style-type: none"> ■ 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. 	<p>Issue of Site HSSE Plan and Authority to Work</p> <p>Associated traffic permits and plans.</p>	Field Manager	<p>Site HSSE Plan</p> <p>Authority to Work</p>

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	<ul style="list-style-type: none"> ■ 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. <ul style="list-style-type: none"> ■ Potential impacts would be assessed in accordance with each place's CMP. 	Works are not to recommence following the identification of an item of potential heritage significance without the	<p>Field Engineer</p> <p>Drilling & NDD subcontractors</p>	Authority to Work

7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
	investigation location.	<ul style="list-style-type: none"> ■ Geotechnical investigations would not take place within a 3m buffer around the Tank Stream, in accordance with its SHR listing. ■ 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. ■ 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 	approval of the Project Manager.		

7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
		<p>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.</p> <ul style="list-style-type: none"> 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 (1974)</i>. 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.	<ul style="list-style-type: none"> 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) <i>Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales (2010)</i> to determine whether further investigation and impact assessment, and potentially an AHIP, is required. 	Works are not to recommence following the identification of an item of potential heritage significance without the approval of the	Field Engineer Drilling & NDD subcontractors	Authority to Work

7. Heritage

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
		<ul style="list-style-type: none"> ■ 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 immediately. TfNSW to be contacted for further assessment. 	Project Manager.		

8. Flora, Fauna and Biodiversity

Aspect	Impact	Mitigation	Hold Point	Responsibility	Records
Terrestrial ecosystems	Damage or disturbance of vegetation during investigation activities	<ul style="list-style-type: none"> ■ 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 <u>not permitted</u> 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

Appendix 3: Cover Page

Community Notification.

Appendix 4: Cover Page

Environmental Representative Supporting Letter.