

Stacy Warren
Director Infrastructure

7 November 2017
Ref: 170108-ER-DPE-TSE-Oct 17

Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

Dear Stacy

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for October 2017 – TSE Contract

Healthy Buildings International (HBI) submits this report to the Secretary in accordance with:

- Condition A24 (I) of the Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 Approval (9 January 2017); and
- As required by the subsequent appointment as the approved Environmental Representative (17 February 2017);

The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro – City and South West Chatswood to Sydenham during the month of **October 2017**.

Yours sincerely



Michael Woolley
Environmental Representative

Cc: Sydney Metro: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Nicole Williams, Adam Koutsamanis, Nicole Vanella, Caitlin Richards (JHCPBG)
DPE: Swathi Sharma, Rob Sherry



| Summary of Contract Packages | Environmental Representative/s |
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| Demolition and Tunnel and Station Excavation (TSE) | Michael Woolley |
| Alternate | Jo Robertson / Annabelle Reyes |

| Key Construction Activities | |
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| Demolition and TSE | <p>Works conducted in October 2017 at the following sites are summarised below:</p> <p>Chatswood:</p> <ul style="list-style-type: none"> ➤ Chatswood dive site <ul style="list-style-type: none"> ○ On site trenching works to install conduits for power and communications cables ○ Utility services, geotechnical and contamination investigations ○ Setting up site offices and amenities including installation of demountable buildings, connecting utility services and fitting out existing buildings such as Mowbray House ➤ Gordon Avenue and Northern Rail Corridor <ul style="list-style-type: none"> ○ Geotechnical investigations using truck mounted drill rig ➤ Nelson Street <ul style="list-style-type: none"> ○ Identifying existing utility services using a hand-held scanner and vacuum truck ➤ Mowbray Road <ul style="list-style-type: none"> ○ Identifying existing utility services using a hand-held scanner and vacuum truck ➤ Out of hours works <ul style="list-style-type: none"> ○ Delivering and removing oversized equipment ○ Identifying existing utility services <p>Crows Nest:</p> <ul style="list-style-type: none"> ➤ Demolition of remaining buildings along the Pacific Highway and load out demolition materials ➤ Identifying existing utility services around the perimeter of the Crows Nest station site and along Hume Street (between Pacific Highway and Clarke Street). This generally involves using a hand-held scanner and vacuum excavation truck and can require temporary traffic, parking and pedestrian changes ➤ Removal of scaffolding and hoarding from demolition works ➤ Continuing surveys and geotechnical investigations around the site ➤ Out of Hours Works <ul style="list-style-type: none"> ○ Delivering and removing oversized equipment ○ Removing hoarding and scaffolding at Hume Street and Pacific Highway ○ Ausgrid bundling aerial cables on Clarke Street and utilities investigations around the site <p>Victoria Cross:</p> <ul style="list-style-type: none"> ➤ Installation of scaffolding around the buildings to be demolished ➤ Strip out, including safe removal of hazardous materials, at 187 and 189 Miller Street ➤ Continuing demolition of 181, 187, 189 and 155 Miller Street and load out of demolition materials ➤ Salvage heritage items in 187 Miller Street ➤ Identified existing utility services around the site, which generally involves using a hand-held scanner and vacuum excavation truck ➤ Location of services such as power, gas and sewer lines, which involved potholing, saw cutting, and trenching ➤ Continuing surveys and geotechnical drilling in the roads around the site ➤ Temporary traffic, parking and pedestrian changes as needed for the safety of workers and pedestrians ➤ Out of hours Works <ul style="list-style-type: none"> ○ Mobilisation and delivery/removal of oversized equipment and |



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| | <p>decommissioning a substation on the eastern side of the site.</p> <ul style="list-style-type: none">○ Investigating and relocating power lines, potholing and saw cutting the footpath near the site entry and removal of vegetation at Miller Street○ Demolishing 155 Miller Street (Tower Square) at Denison Street○ Investigating services and utilities at Berry Street and Denison Street <p>Pitt Street:</p> <ul style="list-style-type: none">➤ Pitt Street North site: Pitt Street / Park Street /Castlereagh Street<ul style="list-style-type: none">○ Internal strip out of buildings on Park, Pitt and Castlereagh Streets○ Removing awnings and installing scaffolding and hoarding around the site○ Ongoing structural demolition work and removal of material from site○ Waterproofing exposed walls➤ Pitt, Park, Bathurst and Castlereagh Streets<ul style="list-style-type: none">○ Utility and geotechnical investigations and accessing service pits on the footpath and road○ Constructing site entry driveway on Pitt Street (north of Park Street)➤ Pitt Street South site<ul style="list-style-type: none">○ Early works to secure the site and prepare for demolition○ Utility and geotechnical investigations➤ Out of hours Works<ul style="list-style-type: none">○ Substation decommissioning, utility and geotechnical investigations at Castlereagh Street○ Removing awnings and installing hoarding and delivery of plant and equipment at Pitt, Park and Castlereagh Streets○ Utility and geotechnical investigations at Pitt, Park and Castlereagh Streets <p>Martin Place:</p> <ul style="list-style-type: none">➤ All buildings<ul style="list-style-type: none">○ Internal strip out of the buildings on Hunter, Castlereagh and Elizabeth Streets○ Removal of awnings and installation of scaffolding and hoarding around site○ Structural demolition works and removal of materials from site.➤ Hunter, Castlereagh, Elizabeth, Bligh, Pitt and O'Connell Streets and Martin Place<ul style="list-style-type: none">○ Geotechnical investigations involving a truck mounted drill rig○ Identifying existing utility services using hand held machine and vacuum truck and accessing service pits on footpath and within the road.➤ Out of hours works<ul style="list-style-type: none">○ Delivery of plant and equipment, including an oversized mobile crane to Elizabeth Street○ Using the mobile crane to lift plant and equipment to the roof and remove redundant plant from the roof○ Temporary lane closures on Elizabeth Street and a no right turn from Elizabeth Street into Hunter Street○ A temporary footpath closure on Elizabeth Street between Hunter Street and Martin Place. <p>Waterloo:</p> <ul style="list-style-type: none">➤ Within and around the site<ul style="list-style-type: none">○ Continuing removal of internal walls and demolishing external walls and roofing○ Installing hoarding and scaffolding around the site○ Tree trimming along the boundary to install hoarding and scaffolding➤ Raglan, Cope and Wellington streets - Investigations to locate underground utilities by excavating narrow trenches called a slit trenching➤ Botany Road, Cope, Raglan and Wellington streets - Investigations to locate |
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| | <p>underground utilities using hand held equipment and opening lids to underground pits</p> <ul style="list-style-type: none"> ➤ Out of hours Works <ul style="list-style-type: none"> ○ Within and around the site - delivery of plant and equipment using large vehicles and installing hoarding and scaffolding around the site ○ Botany Road, Cope, Raglan and Wellington streets - utility and geotechnical investigations, protection, relocation of services involving trenching, overhead cable bundling and installation of new power poles, involving surveys and pit openings and require the use of a vacuum truck <p>Marrickville:</p> <ul style="list-style-type: none"> ➤ Marrickville dive site (including property boundary) <ul style="list-style-type: none"> ○ Deliveries of materials and construction equipment ○ Establishing the tunnelling worksite and precast facility (where tunnel lining segments will be manufactured), including environment controls ○ Demolishing building structures and the existing substation ○ Installing perimeter fencing ○ Geotechnical investigations and testing ➤ Sydney Steel, Edinburgh and Edgeware Roads, Railway Parade and Murray, Shirlow, Garden and Saywell Streets <ul style="list-style-type: none"> ○ Investigations to locate underground utilities using hand held equipment and opening lids to underground pits ○ Relocating underground utilities including trenching ➤ Edinburgh Road, Murray Street, Railway Parade - high voltage electrical works including trenching, installing new power poles and bundling overhead cables ➤ Geotechnical Investigations in Sydney Park ➤ Out of hours Works <ul style="list-style-type: none"> ○ Utility investigations, protection and relocation works involving trenching at Edinburgh Road, Murray Street, Edgeware Road and Bedwin Road ○ High voltage electrical works involving trenching, new power poles, bundling overhead cables and removing poles on Murray Street and Edinburgh Road |
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| ER Inspections | |
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| Demolition and TSE | <p>Weekly inspections continued under the management of the TSE contractor for the demolition sites. It is anticipated that generally each site will be inspected every second week at this stage of the project.</p> <p>Sites inspected in October 2017 comprised:</p> <ul style="list-style-type: none"> ➤ Victoria Cross South – 10/10/17, 24/10/17 ➤ Chatswood – 10/10/17, 24/10/17 ➤ Crows Nest – 10/10/17, 24/10/17 ➤ Martin Place – 17/10/17, 31-10-17 ➤ Pitt Street – 17/10/17, 31-10-17 ➤ Waterloo – 17/10/17, 31-10-17 ➤ Marrickville – 17/10/17, 31-10-17 <p>ER Inspection reports have been prepared and issued to Sydney Metro and TSE Contractor. Actions identified during inspections related to dust, erosion and sediment controls, removal of bill posters on hoarding, and graffiti removal. These actions were assessed as low to moderate risk and have been closed out during subsequent inspections.</p> |



| Endorsed Document/s | |
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| TSE | <p>The following TSE documents were reviewed, comments provided to the TSE Contractor and Sydney Metro where relevant, and endorsed by the ER with the assistance of alternate ERs during October 2017:</p> <ul style="list-style-type: none">➤ Management Plans<ul style="list-style-type: none">○ TSE Construction Soil and Water Management Plan (CSWMP) Rev 4○ TSE CEMP Rev 3○ Chatswood Dive Site Construction Noise and Vibration Impact Statement (CNVIS) Local Area and Utilities Works○ TSE Construction Noise and Vibration Management Plan (CNVMP) Endorsed by AA○ Crows Nest Utilities CNVIS○ Victoria Cross Utilities CNVIS➤ Procedure<ul style="list-style-type: none">○ Aboriginal and Historic Heritage Management Procedure○ Unexpected Contamination Finds Procedure to address E69 (revised)○ Victoria Cross Technical Memo➤ Site Establishment Plan<ul style="list-style-type: none">○ Chatswood SEP Rev 01○ Marrickville SEP Rev 01○ SEP VC Utility Investigations○ SEP Chatswood Tree clearing in corridor and elsewhere➤ Out of hours works approvals<ul style="list-style-type: none">○ PS003 Slit Trenching for Ausgrid Substation Investigation○ Crows Nest 002 ABC works on Clarke Street○ Marrickville 002 Machine Float○ 003 BH1116 Geotech○ 007 Hoarding removal○ BH 1113○ BH 1115○ BH1116○ PS 005○ BH1115○ PS 004 Plant delivery○ VC 006 Extension○ VC008 Tree Removal○ VC Balcony construction at OAC○ Extension to OOHWS at Waterloo X3○ 008 Survey Works Martin Place <p>Consistency Assessments:</p> <ul style="list-style-type: none">➤ CA -TfNSW28 - Access to 243 Miller Street - North Sydney➤ TfNSW16 Victoria Cross Nth and Sth Utilities Augmentation 25102017 (2) <p>Others</p> <ul style="list-style-type: none">➤ Sydney Metro Community Consultation Strategy – Early Works, Rev 2➤ Sydney Metro Overarching Community Communications Strategy - Issued 21 Sept 2017;➤ Business Management Plan - Early Works for updated endorsement➤ Sydney Metro Construction Complaints Management System |



| Non-compliance/ Incidents / Complaints | |
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| TSE | <p>The following complaints were received at the following sites:</p> <ul style="list-style-type: none"> ➤ Chatswood – 19/10/17 on noise, 26/10/17 on noise <p>It is understood that Sydney Metro has been providing summaries of complaints to DPE on a fortnightly basis. All complaints noted above have been addressed accordingly.</p> <p>There were no incidents as defined by the project approval definition for incidents reported or observed by the ER during the period or reported to DPE under condition A41.</p> <p>Other incidents noted included:</p> <ul style="list-style-type: none"> • Commencement of hammering at Chatswood on 26 October at 7:50am. Condition L4.5 of the Environmental Protection Licence requires high noise impact works to be only undertaken after 8am. JHCPBG reported that all workers at the Chatswood worksite will be tool boxed to reiterate the importance of not commencing high noise impact works prior to 8 am |
| Demolition | <p>The following complaints were received at the following sites:</p> <ul style="list-style-type: none"> ➤ Crows Nest – 7/10/17 and 9/10/17 on dust, 17/10/17 on noise and vibration, 18/10/17 on property impact due to noise and vibration ➤ Martin Place 5-10-17 on noise, ➤ Pitt Street – 6/10/17 on noise (2), 9/10/17 on traffic from geotechnical investigations, 13/10/17 on property damage due vibration impact, 16/10/17 and 17/10/17 on noise, 20/10/17 on noise and vibration, 26/10/17 on noise and vibration ➤ Waterloo – 5/10/17 on vibration, 31-10-17 on noise from OOHWS <p>It is understood that Sydney Metro has been providing summaries of complaints to DPE on a fortnightly basis. All complaints noted above have been addressed accordingly.</p> <p>There were no incidents as defined by the project approval definition for incidents reported or observed by the ER during the period or reported to DPE under condition A41.</p> <p>Other incidents noted included:</p> <ul style="list-style-type: none"> • Works undertaken at Waterloo on the night of 31/10/17 included some limited jack hammering and saw cutting of the pavement. The TSE complaint report indicated that the recently approved Ausgrid redesign of the power pole relocation and aerial bundling required the new power poles to be relocated slightly which necessitated the need for jackhammering and saw cutting. A review of the approved OOHWS application (that was extended to cover these works) identified these two activities were not modelled for the OOHWS permit as the scope of works did not require it at the time of the original approval. A complaint was received on 1 November. JHCPBG reported that the work crew will be toolboxed on change management and noted that the OOH application will be updated to address the full extent of work required for future planned night works. |
| Sydney Metro | <p>There were no complaints received in relation to works undertaken by Sydney Metro</p> <p>There were no incidents as defined by the project approval definition for incidents reported or observed by the ER during the period or reported to DPE under condition A41.</p> <p>Sydney Metro reported that on 16-18 October 2017, some minor works were undertaken by the Sydney Metro IG team (not the TSE Contractors) at the Victoria North site. The works were to modify wheelchair access for a resident of an adjacent household that would be affected by TSE</p> |



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| | <p>taking over the Victoria Cross North site. The Sydney Metro NCR report indicates the following: <i>“Modifications include a wheelchair path, staircase, lift, carport and driveway. Discussions with regard to these works have been held with North Sydney Council and included within the condition of the modification approval.</i></p> <p><i>Works commenced on 16th October 2017 with site establishment and the set out and minor excavation of the new proposed wheelchair path with the concrete pour starting at 10:00 on 18th October 2017, no further construction took place until 23rd October 2017. These works were conducted prior to receipt of The Modification of Infrastructure Approval for the Relocation of Victoria Cross northern services building additional station entry and Planning Approval Consistency Assessment Form thus breaching Clause A1 of the CSSI.”</i></p> <p>Sydney Metro noted that <i>“Modification of Infrastructure Approval granted 18th October 2017 for the relocation of Victoria Cross northern services building additional station. Planning Approval Consistency Assessment Form has been approved 27/10/17 for all additional works including wheelchair path, staircase lift, carport and Driveway.”</i></p> |
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| Audits | |
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| TSE | Nil |
| Demolition | Nil |
| Sydney Metro | Nil |

| Looking Forward | |
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| Demolition and TSE | <p>Core Focus Areas for the coming month are:</p> <ul style="list-style-type: none">➤ Noise and vibration management at Crows Nest, Pitt Street, Martin Place and Victoria Cross demolition sites;➤ Dust management during demolition works at Crows Nest, Pitt Street, Martin Place and Victoria Cross demolition sites;➤ Contamination and Heritage Investigations at Chatswood, and Marrickville as well as other sites as they are handed over to the TSE Contractors; and➤ Heritage management during archaeological excavations as they commence. |