

Erica van den Honert
Director Infrastructure Management
Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

7 March 2019
Ref: 170108-ER-DPE-TSE- 19

Dear Erica


RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for February 2019 – TSE Contract and Martin Place USP

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 associated modifications (MOD1_Victoria Cross and Artarmon (18 October 2017), MOD2_Central Walk (21 December 2017), MOD4_Sydenham Station and Metro Facility South (13 December 2017), MOD 3_ Martin Place Metro Station (22 March 2018), MOD 5_Blues Point Acoustic Shed (2 November 2018), and MOD Administrative Changes (21 February); and
- As required by the subsequent appointment as the approved Environmental Representative (17 February 2017);

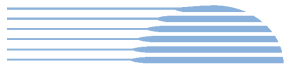
The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro – City and South West Chatswood to Sydenham during the month of **February 2019**.

Yours sincerely

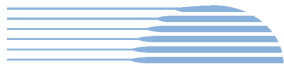


Michael Woolley
Environmental Representative

Cc: Sydney Metro: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Adam Koutsamanis, Pam Tummers, Margarita Ognjanovic, Rob Muir (JHCPBG), Jason Ambler (LL)
DPE: Kate Moore, Elizabeth Williamson, Alice Pryke
CC IEA: Larry Weiss, Julie Dickson



Summary of Contract Packages	Environmental Representative/s
Tunnel and Station Excavation (TSE)	Michael Woolley/ Alberto Paludetto
Martin Place Unsolicited Proposal USP/ISD Macquarie Bank/Lendlease	Michael Woolley/Jo Robertson
Key Construction Activities	
TSE	<p>Chatswood Dive Site:</p> <ul style="list-style-type: none"> ▪ Tunnelling with both TBMs and spoil handling. ▪ Commissioning of the conveyor and second TBM assembly within the dive ongoing. ▪ Intersection works on Mowbray and Hamden Road ongoing in place but yet to be operating. <p>Artarmon Substation:</p> <ul style="list-style-type: none"> ▪ Shaft in place with steel caisson installed ▪ Commencement of lining <p>Chatswood NCW:</p> <ul style="list-style-type: none"> ▪ Works along Frank Channon walk and Nelson Street included ongoing piling works; removal of the existing noise wall; Capping beam construction and stockpiling of materials in the Gordon Street Compound. Bland Street works included benching; stockpiling and loading out spoil; wall support. Nelson Street Bridge removed by other contractors. <p>Crows Nest Station:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation; spoil removal off site; water treatment and various other works. ▪ Roof over northern section of the station box complete with ventilation pipework under construction. . <p>Victoria Cross North site:</p> <ul style="list-style-type: none"> ▪ Third Trial Controlled blast undertaken on Saturday 9th February ▪ Excavation by excavators with rock hammers and excavators with saw cutters. ▪ Stockpiling spoil in the shed and removal of spoil <p>Victoria Cross South site:</p> <ul style="list-style-type: none"> ▪ Excavation by road header and wall support. Removal of spoil. Other support activities. <p>Blues Point Temporary Retrieval Site:</p> <ul style="list-style-type: none"> ▪ spoil management and excavation, ▪ Maintenance of environmental controls. ▪ Ongoing piling and pile cap construction activities on land; ▪ Crane barge in place with six piles constructed of eight. Jack-up barge had left site <p>Barangaroo Station:</p> <ul style="list-style-type: none"> ▪ Delivery of the TBM to site via barge. This led to temporary suspension of barging out spoil and a resultant increase in stockpiled material on site. ▪ Operation of water treatment plant ongoing. Construction of slurry treatment plants ongoing; spoil management; ongoing roadheader operation from the northern shaft in cross over cavern area. ▪ Ongoing environmental controls including street sweeper and water cart. <p>Martin Place Station:</p> <ul style="list-style-type: none"> ▪ Demolition of the shopping circle area temporarily halted and site sheds established. ▪ Tower crane installed and operating. ▪ Ongoing demolition at 39 Martin Place Building and removal of wastes. <p>Pitt Street North:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation using road headers; removal of spoil off site. <p>Pitt Street South:</p> <ul style="list-style-type: none"> ▪ Ongoing demolition and removal of wastes. Block wall constructed at adjacent property and trees planted. <p>Waterloo Station:</p> <ul style="list-style-type: none"> ▪ Spoil management and loading out using long reach excavators. ▪ Operation of the water treatment plant <p>Marrickville precast facility</p> <ul style="list-style-type: none"> ▪ Pre-cast facility operating.



	<ul style="list-style-type: none"> ▪ Storage and handling of segments outside shed and in area to north where former buildings have been demolished <p>Marrickville dive site:</p> <ul style="list-style-type: none"> ▪ Ongoing tunnelling by TBM 1 and TBM 2. ▪ Spoil movement to night time shed for storage by conveyor. ▪ Wheel wash operating in conjunction with wetting of ground with sprinkler. ▪ Trucks accessing from Murray Street and exiting to Edinburgh Rd. ▪ Wheel wash being worked on to improve timing of wash and reduce water usage.
MP – USP/ISD	<ul style="list-style-type: none"> ▪ Hard demolition ongoing – rate of one floor per week reported by Delta); ▪ Soft strip and hazardous materials removal largely completed; ▪ Loading of wastes into bins and load out off site ▪ Concrete hardstand installed for trucks to park on near exit for wheel washing; ▪ Waste segregation and drop to ground level via drop chute; ▪ Steel being kept in separate stockpile; ▪ Waste spoil being stockpiled on site for re-use in piling pads; ▪ Filling in of basement that had been used as low point sump for runoff water collection;
ER Inspections	
TSE	<p>Weekly inspections continued of the sites under the management of the TSE contractor. There were four inspections carried out during the month. Actions identified during the inspections comprised:</p> <ul style="list-style-type: none"> ▪ Chatswood Dive – fixing noisy pit lids on Mowbray Road; ▪ Chatswood NCW – various issues around erosion and sediment controls and reducing noise from piling works; ▪ Crows Nest – On 26 February a truck from the site was broken down on Oxley Street near the intersection with the Pacific Highway. This required following trucks to travel on Clarke Lane to the Pacific Highway. JHCPBG reported that further trucks were then cancelled until the broken down truck could be removed. ▪ Victoria Cross South – appropriate secondary containment of chemicals ▪ Marrickville Dive – dust management and water management ▪ Pitt Street South – Maintenance of brattice with adjacent property. ▪ Barangaroo – reduction of dirt tracking onto Hickson Road and dust management at various locations on site. <p>Various notes were made in the inspection reports reflecting commitments made by the TSE Contractors. ER Inspection reports have been prepared and issued to Sydney Metro and the TSE Contractor.</p>
MP – USP/ISD	<p>There were two inspections carried out in February 2019. ER Inspection reports have been prepared and issued to Sydney Metro and the Contractor. One issue was identified relating to the preferred use of pulverisers where possible to reduce noise impacts.</p>
Endorsed Document/s	
Sydney Metro	<ul style="list-style-type: none"> ▪ Sydney Metro CTR 2018 Q3Q4
TSE	<ul style="list-style-type: none"> ▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> ○ Extension to TBM Reinstatement OOHWs ○ Extension to existing OOHWs I&M works Miller Street ○ OOHWs I&M works at VC Miller and McLaren ○ MPS 027 Shotcrete activities ○ Delta Tower Crane Demob ▪ Construction Traffic Management Plan(CTMP) <ul style="list-style-type: none"> ○ Pitt Street South Operations Rev E ▪ Construction Noise and Vibration Impact Statement (CNVIS) <ul style="list-style-type: none"> ○ Blues Point - Piling ▪ Compliance Tracking Report (CTR) <ul style="list-style-type: none"> ○ Clyde CTR Revised after comment ○ TSE CTR Q4 2018



	<ul style="list-style-type: none"> ▪ Tree Report <ul style="list-style-type: none"> ○ Tree Report Rev 5
USP/ ISD- Martin Place	<ul style="list-style-type: none"> ▪ Out of hours works (OOHW) approvals <ul style="list-style-type: none"> ○ OOH4 Subsurface Utility Investigation Works and Hoarding Adjustments – Castlereagh and Elizabeth Streets ○ OOH5 Utility Investigations ▪ Business Management Plan(BMP) V4 ▪ Community Communications Strategy (CCS) Rev 5 ▪ Construction Ground Water Management Plan (CGWMP) ▪ Construction Noise and Vibration Impact Statement for Martin Place Metro Excavation and Construction, 19 Feb 19, Lendlease Group - TK422-04 F01 (r2) Martin Place Construction Noise and Vibration Management Plan (CNVMP)for Martin Place Metro Excavation and Construction, 19 Feb 19, Lendlease Group - TK422-F03 (r13) Martin Place
Complaints / Incidents / Non-compliance	
TSE	<p>It is understood that Sydney Metro has been providing summaries of complaints to DPE daily. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. There were two complaints related to trucks that did not appear to be on approved haul routes for the Marrickville and Barangaroo sites. These were followed up with the TSE Contractor and are understood to be isolated events.</p> <p>The following events/incidents related to TSE works were reported to the ER for the period:</p> <ul style="list-style-type: none"> ▪ Airblast Overpressure exceedance from Trial Blast at Victoria Cross North on 9 February. A report with details was provided to DPE and the event recorded as a non-conformance with E54. ▪ Turbid water egressing outside sediment booms/curtains during overwater piling activities at the Blues Point site on 21 February 2019. This event was reported by TSE Contractors to the EPA. ▪ Overtopping of bund at the water treatment plant at the Marrickville facility. A written report providing details of the event is understood to be under preparation. ▪ Some minor spill events contained on site. <p>JHCPBG reported that emergency works were required to be undertaken at Marrickville on 14 February 2019. The works were required in a cross passage where concrete had to be removed for safety (emergency tunnel access) reasons. Two complaints were received related to the emergency works.</p> <p>The Compliance Tracking Reports for Q4 2018 as developed by the TSE Contractors was endorsed during the reporting period.</p>
USP/ ISD- Martin Place	Nil to report
Sydney Metro	There were no complaints received in relation to works undertaken directly by Sydney Metro. There were no incidents reported by Sydney Metro for Sydney Metro conducted works as defined by the project approval definition for incidents reported to DPE under condition A41.
Audits	
No audits were conducted during the period:	
Looking Forward – Core Focus Areas	
TSE	<ul style="list-style-type: none"> ▪ Barging at Barangaroo and Clyde Barging Facility ▪ Dust management at Barangaroo ▪ Works in the Northern Corridor Area ▪ Tracking of dust onto roads at key excavation sites
MP – USP/ ISD	<ul style="list-style-type: none"> ▪ Management of tracking dirt onto Castlereagh Street