

A.C.N. 003 270 693

A.B.N. 39 003 270 693

Suite 2.06, Level 2 29-31 Solent Circuit Baulkham Hills NSW, 2153 Australia

Tel: 61 (02) 9659-5433 E-mail: <u>hbi@hbi.com.au</u> Web: www.hbi.com.au

Stacy Warren Director Infrastructure Department of Planning and Environment GPO Box 39 SYDNEY NSW 2001

6 April 2018 Ref: 170108-ER-DPE-TSE-Mar 18

Dear Stacy

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for March 2018 – 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 SSI 15_7400 and associated modifications (MOD1_Victoria Cross and Artarmon (18 October 2017), MOD2_Central Walk (21 December 2017), and MOD4_Sydenham Station and Metro Facility South (13 December 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 **March 2018**.

Yours sincerely

VO

Michael Woolley Environmental Representative

Cc: Sydney Metro: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Nicole Williams, Adam Koutsamanis, Suzanne Saunders, Rob Muir (JHCPBG) DPE: Swati Sharma, Rob Sherry

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

Key Construc	ction Activities
Demolition	Works conducted in March 2018 at the following sites are summarised below:
and TSE	Chatswood Dive Site and Artarmon Substation:
	Chatswood dive site
	 Removal of existing concrete and asphalt slabs involving hammering and
	disposing of contaminated materials
	 Construction of piling platforms, driveways, and the foundations of various facilities using excavators to remove unsuitable material. New road base material delivered and compacted using heavy rollers.
	 Installation of concrete piles around the dive area to support the ground during excavation involving drilling holes using an auger, installing steel reinforcement
	and pouring concrete into each hole
	 Installation of a water treatment plant and sheds involving concreting, building retaining walls and setting-up silos and water tanks
	 Utility, heritage and geotechnical investigations
	 Installation of hoarding, drainage and setting up offices and amenities
	 Relocation and commissioning of underground utilities
	Nelson Street
	 Relocation of underground utility services and temporarily reinstating the works area
	Rail corridor between Brand Street and Mowbray Road
	 Set-up works to allow access to the rail corridor via Brand Street including
	installation of drainage and modifying fencing
	 Survey, utility and geotechnical investigations
	Out-of-hours works
	 Chatswood dive site
	 Delivery and unloading of oversized plant and equipment Accessing the site intermittently to load and unload materials required for out-of-hours works on Mowbray Road, Hampden Road and Pacific Highway
	 Mowbray Road, Hampden Road and Pacific Highway/Nelson Street Identifying, relocating and commissioning underground utilities on Mowbray Road, Hampden Road and the Pacific Highway/Nelson Street intersection involving saw cutting, excavating and backfilling trenches, laying and pulling cables and temporarily reinstating works areas Building site driveways on Mowbray Road involving removing the existing kerb and footpath, minor earthworks and pouring concrete Installing temporary traffic and pedestrian management and establishing works areas
	Crows Nest Station:
	 Installation of hoarding and gates around the site perimeter

		0	Completion of retention works around the site
		0	Earthworks to level the site and to construct platforms to hold piling rigs (this
			work includes the use of a large rollers to compact the soil)
		0	Relocation of utility services including power, water and telecommunications
		0	Piling works around the site perimeter
		0	Construction of a capping beam to join the piles
		0	Continuing surveys and geotechnical investigations around the site
		0	Upgrading driveways and constructing new site driveways
		0	Construction of site services such as a water treatment plant and power supply
			Installation and commissioning of a new electricity substation at 14 Clarke
		0	Street
		0	Decommission of the existing substation in Clarke Lane
		0	Installation of line marking to indicate changes to road alignment
		0	Preparation for construction of new site entrance in Oxley Street
		0	Planning for and closing Hume Street between Pacific Highway and Clarke Lane
			for around 6 months, and installing a pedestrian detour along the south side of
			Hume Street
	\triangleright	Out-of-l	hours works:
		0	Around the site
			 Delivery and removal of oversized equipment such as cranes and
			piling rigs
			 Utility investigations and relocations
		0	Pacific Highway/Hume Street
		-	 Excavation of a pit and installing Telstra conduits across the Pacific
			Highway at Hume Street
			 Installation of cables in the footpath
			 Disconnection of a water main
			 Adjusting the traffic signals in preparation for the Hume Street closure
			 Excavation of a trench and installing Telstra and Optus conduits
			(Hume Street south between Clarke Lane and Pacific Highway)
		0	Hume Street (west of Pacific Highway), Clarke Street and Clarke Lane (south of
		0	Hume Street)
			 Installing cables and conduits in footpaths and parking lanes around
			the site
		0	Oxley Street
			 Grinding down a tree stump
			 Upgrading kerbs and constructing a driveway for a new site entrance
			and exit
	Victoria	Cuese C+	ation
			Cross South site
			Completion of demolition of 181, 187, 189 and 155 Miller Street and loading
		0	out demolition materials
		0	Removal of scaffolding and relocating sections of hoarding
		0	Relocation of site sheds to allow access to complete demolition
		0	Continued the surveys of the roads around the site
		0	Removal of vegetation/trees on Miller Street
		0	Continued the retention works and installing ground anchors to prepare the
			site for tunnel excavation
		0	Commencement of sub-station relocation works
		0	Installation of stormwater drainage on Miller Street near the site entry
	\succ		Cross North site
1	1	\cap	Farthworks to prepare the site for installation of acoustic sheds

	• Delivery of fill to the site and using a vibratory roller to compact the fill	
	 Delivery of fill to the site and using a vibratory roller to compact the fill 	
	 Continuing surveys and soil, heritage and geotechnical investigations 	
	 Removal of vegetation/trees within site boundary 	
	 Removal of hazardous material from the site 	
	 Installation of fencing and hoarding around the site perimeter 	
	 Establishment of site offices and amenities 	
	 Installation of erosion and sediment controls 	
	 Demolition of existing concrete driveways and slabs 	
	 Commencement of piling works 	
≻	Out-of-hours works	
	 Around the sites 	
	 Mobilisation and delivery/removal of oversized equipment 	
	 Relocation of site sheds and preparing the site for the start of tur 	nnel
	excavation works	
	 Installation of traffic signage 	
	 Miller Street/Berry Street 	
	 Continuing to investigate and relocate utility services 	
	 Removal or relocation of fencing and hoarding 	
	 Removal of vegetation/trees 	
	 Completion of works to car park at 65 Berry Street 	
	 Installation of stormwater drainage (near site entry) 	
	 Denison Street 	
	 Completion of demolition of 155 Miller Street (Tower Square) 	
	 Completion of substation works including removal of scaffolding 	
	 Miller Street/McLaren Street 	
	 Removal of vegetation/trees around overhead power lines 	
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		 Installation of fencing around work sites and relocating street lights 	
		 Hickson Road (between Munn Street and High Steps) Excavation and pipe laving 	
		 Relocation of street lights 	
		• Corner of Sussex and Erskine streets	
		 Excavation and pipe laying 	
N	/lartin	ace Station:	
	>	ligh Street site	
		 Delivery of equipment, tunnelling machinery and materials to site 	
		 Removal of excavated material from site 	
		 Storage, management and removal off site of contaminated soils 	
		 Delivery of site amenities and steel 	
		 Installation of hoarding 	
		 Relocation of utilities 	
	\triangleright	Aartin Place North site	
		 Installation (and removal) of scaffolding and hoarding 	
		 Ongoing structural demolition works and removing materials from site 	
	\triangleright	Aartin Place South site	
		 Preparation of building for demolition 	
		• Reconfiguring pedestrian access near the worksite in Martin Place and the	
		underground shopping circle	
		 Removal of hazardous materials 	
		 Delivery equipment and materials to site 	
		 Substation decommissioning 	
	\triangleright	Junter, Castlereagh, Elizabeth, Bligh and O'Connell Streets and Martin Place	
		 Relocation of utilities 	
	\triangleright	Dut-of-hours works	
		 Hunter, Castlereagh and Elizabeth Streets, Martin Place 	
		 Installing hoarding 	
		 Ausgrid pit inspections, utilities work including potholing and 	
		trenching	
		 Castlereagh, Elizabeth, Bligh and O'Connell Streets 	
		 Oversized equipment deliveries and crane mobilisations for lifting 	
		equipment into sites	
Р		t Station:	
	\triangleright	Pitt Street North site	
		 Structural demolition near to finishing 	
		 Site establishment works for the piling phase 	
		• TSE contractors notified that piling works around the site are required to	
		stabilise the footpath and that this would limit heritage excavations in some	
		areas immediately on the boundary where piling is to occur. Casey and Lowe	
		provided a memo detailing these changes and changes in approach compared	d
		to as detailed in the AMS.	
		Pitt Street South site	
		 Site establishment for demolition 	
		Dut-of-hours works	
		• Pitt Street North	
		 Ausgrid works, modification and relocating existing electrical service 	!S
		in Castlereagh Street	
		 Ausgrid works to install a substation kiosk and upgrade services on t 	he
		corner of Pitt and Park Streets are still ongoing	
		• Pitt Street South	
		 Demolition of awnings and constructing hoardings. 	

Waterle	oo Station:
>	Within the Waterloo Station site
	 Completion of the removal of the buildings on Botany Road, including external walls and roofing and removing rubble from the site
	 Installation of hoarding around the site
	 Preparation of the site for excavation of the station box, including piling and
	concrete works
	 Continuing heritage investigation works
	• Sewer diversion works
	 Moving plant and equipment to and from site using large vehicles via the site access on Botany Road.
\triangleright	Out-of-hours works
	 Botany Road, Raglan Street, Cope Street Sewer diversion works
	 Botany Road at Ragian Street, Botany Road at Wellington Street, Wellington Street at Cope Street
	 Installation of new power poles, involving minor trenching and
	overhead cable works
Marriel	kville dive site:
	Marrickville dive site
-	
	 Installation of hoarding along Edinburgh Road, Railway Parade and the rail corridor
	 Truck movements to and from the site, including deliveries of materials and
	construction equipment, during and outside of standard construction hours
	 Creation of the internal road network, involving saw cutting, concrete works, excavation and earthworks
	 Concrete breaking and demolition activities
\succ	Marrickville precast site
	 Delivery of materials and construction equipment during standard and out-of-
	hours deliveries
	 Ongoing construction of the precast facility and support infrastructure
\triangleright	Edinburgh Road, Edgeware Road, and Lord and Council Streets
	• Underground utility investigation and installation works for a new high voltage
	cable power supply for the tunnel boring machines
\succ	Out-of-hours works
	 May Street and King Street/Princess Highway intersection
	 Underground investigations and installation works for a new high
	voltage cable power supply for the Marrickville tunnel boring
	machines
Marrick	kville Station:
\succ	Completion of survey work – Illawarra Road Bridge

ER Inspectio	ns
Demolition	Weekly inspections continued under the management of the TSE contractor for the demolition
and TSE	sites. Sites inspected in March 2018 comprised:
	Victoria Cross South – 13/03/18, 27/03/18
	Victoria Cross North – 13/03/18, 27/03/18
	Chatswood – 13/03/18, 27/03/18
	Martin Place – 06/03/18, 20/03/18
	Barangaroo – 06/03/18, 20/03/18
	Pitt Street – 06/03/18, 20/03/18
	Crows Nest – 13/03/18, 27/03/18
	Waterloo – 06/03/18, 20/03/18
	Marrickville – 06/03/18, 20/03/18
	Bligh St – 13/03/18, 27/03/18
	ER Inspection reports have been prepared and issued to Sydney Metro and the TSE Contractor.
	Actions identified during the inspections comprised:
	Inspection on 06/03/18
	 Waterloo – erosion and sedimentation controls
	 Marrickville – erosion and sedimentation controls, weed control
	 Barangaroo – no actions
	 Pitt Street (north) – no issues identified
	Inspection on 13/03/18
	 Bligh Street - no issues identified
	 Victoria Cross (south) - no issues identified
	 Victoria Cross (north) - erosion and sediment controls
	 Crows Nest – erosion and sediment controls
	 Chatswood – erosion and sediment controls
	 Martin Place – no issues identified
	Inspection on 20/03/18
	 Pitt Street (north) – no issues identified
	 Waterloo – no issues identified
	\circ Marrickville- dust suppression, erosion and sediment controls, pedestrian
	management, graffiti removal
	 Barangaroo – litter, hazardous materials management, erosion and sediment
	controls, dust
	Inspection on 27/03/18
	 Crows Nest – no issues identified
	 Chatswood – no issues identified
	 Bligh Street - no issues identified
	 Victoria Cross (south) - no issues identified
	 Victoria Cross (north) - erosion and sediment controls, heritage
	• Martin Place – no new issues identified
	Various notes were made in the reports reflecting commitments made by the TSE Contractors.

Endorsed	Endorsed Document/s		
Sydney	The following documents were reviewed and endorsed by the ER with the assistance of alternate		
Metro	ERs: • Sydney Metro, City & Southwest Tree Report Revisions W and X		
	 Sydney Metro, city & Sodiffwest free Report Revisions w and X City Southwest Chatswood to Sydenham TfNSW Unexpected Finds Procedure v1.3 		
	(draft) and v1.4 for issue		
	 Barangaroo Temporary Northern Shaft - Consistency Assessment 		

TSE	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:			
	 Construction Traffic Management Plans CTMP Barangaroo Stage 3 CTMP Barangaroo Addendum 1 CTMP Victoria Cross South CTMP VC South Miller Street Stormwater works CNVIS Crows Nest Station Excavation CNVIS Rev 4 Martin Place South CNVIS for demolition 			
	 Out of hours works (OOHW) approvals Extension of Dates for OOHWs for CH019 Rev 2 Consistency Assessment Crows Nest Utilities Consistency Assessment Rev 3 - additional trench across Hume Street Barangaroo Temporary Northern Shaft - Consistency Assessment – DRAFT Others 			
	 Blues Point SEP for Investigations, Blues Point SEP Rev 01 for Investigations Sustainability Management Plan SEP Waterloo Rev 01 			
Demolition	 Out of hours work approvals: OOHWs Application VC 018 Extension of dates VC 017 Extension for Plant removal Extension to VC 018 Hoarding 			

Non-complia	ance/ Incidents / Complaints
TSE and demolition	It is understood that Sydney Metro has been providing summaries of complaints to DPE daily (changed from fortnightly to daily during January 2018). Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. There were no incidents related to TSE works, 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.
Sydney Metro	There were no complaints received in relation to works undertaken directly by Sydney Metro. There were no incidents related to Sydney Metro conducted works 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.

Audits	
TSE	Flora and Fauna Management Plan
	Construction Heritage Management Plan Audit Proposed for April
Demolition	Nil
Sydney	Nil
Metro	

Looking Forward			
Demolition	Core Focus Areas for the month of March 2018 are:		
and TSE	Finalisation of residual Construction Environmental Management Framework		

documentation including the Visual Amenity Management Plan , the Spoil Management
Plan and the Waste Management Plans.
Historic heritage Investigations at Waterloo, Pitt Street, and Barangaroo.
Contaminated soil management at Bligh Street; Marrickville; Waterloo; Crows Nest and Chatswood.
Noise and vibration management for works at Crows Nest, Pitt Street, Martin Place and
Victoria Cross TSE and demolition sites, and
Set up of mitigation controls as part of site establishment across all sites.