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Stacy Warren Director Infrastructure Department of Planning and Environment GPO Box 39 SYDNEY NSW 2001 7 February 2018 Ref: 170108-ER-DPE-TSE-Jan 18

Dear Stacy

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for January 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 **January 2018**.

Yours sincerely

Michael Woolley Environmental Representative

Cc: Sydney Metro: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Nicole Williams, Adam Koutsamanis, Nicole Vanella, 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 Constru	ction Activities
Demolition	Works conducted in January 2018 at the following sites are summarised below:
and TSE	Chatswood Dive Site and Artarmon Substation:
	Chatswood dive site
	 Utility, heritage and geotechnical investigations
	 Installation of hoarding and setting up offices and amenities
	 Relocation of underground utility services
	 Removal of existing concrete and asphalt slabs involving hammering and
	disposing of contaminated materials
	• Construction of internal roads, driveways, piling platforms and the foundations
	for sheds and other facilities involving excavating unsuitable material and
	importing and compacting road base material
	• Commencement of installation of a water treatment plant and sheds involving
	concreting, building retaining walls and setting-up silos and water tanks
	 Clearing of vegetation around the Mowbray House Building
	Nelson Street
	 Relocation of underground utility services and temporarily reinstating the
	works areas
	Frank Channon Walk between Nelson Street and Gordon Avenue
	 Frank Channon Walk was temporarily closed between Gordon Avenue and
	Nelson Street from 27 November 2017 until mid-December 2017 to facilitate
	work by Telstra to relocate telecommunication cables
	Out-of-hours works
	 Mowbray Road, Hampden Road and Pacific Highway
	 Identification of the location of existing underground utility services
	involving cutting the road and footpath, excavating with a vacuum
	truck and temporarily reinstating the works areas
	 Installation of underground telecommunication and power cables
	involving cutting the road and footpath, digging and backfilling
	trenches, laying cables and temporarily reinstating the works areas
	 Building of site driveways on Mowbray Road involving removing the
	existing kerb and footpath, minor earthworks using an excavator,
	vacuum truck and plate compactor and pouring concrete
	 Trimming of the branches of trees located within the dive site
	overhanging the footpath and Mowbray Road
	 Pacific Highway / Nelson Street
	 Identification of the location of existing underground utility services
	involving cutting the road and footpath, excavating with a vacuum
	truck and temporarily reinstating the work areas
	 Installation of underground power cables involving cutting the road
	and footpath, excavating and backfilling trenches, laying cables and
	temporarily reinstating works areas
	Crows Nest Station:
	 Within and around the site
	 Installing hoarding around the site perimeter
	 Demolition of remaining sections of buildings at 473 and 521 Pacific Highway
	and 14 Clarke Street

	• Completing retention works (structural works i.e. anchoring works around the
	nearby properties) around the site
	• Continuing to identify and relocate utility services such as power, gas, sewer
	and telecommunication lines around the perimeter of the Crows Nest Station
	site, along Pacific Highway, Hume Street, Oxley Street and Willoughby Road
	 Continuing earthworks to level the site and constructing platforms to hold
	piling rigs
	 Completing vegetation and tree removal around the site perimeter on Oxley
	Street, Pacific Highway and Hume Street
	 Continuing surveys, soil, heritage and geotechnical investigations around the
	site and removing hazardous material
	 Constructing two new power kiosk substations on the corner of Clarke Street
	and Hume Street
	 Upgrading driveways and constructing new site driveways
	 Continuing the widening of Clarke Lane from the back of 22 Clarke Lane to
	Oxley Street
	 Continuing preparations for the Hume Street bridge closure, which is
	scheduled for six months from February 2018
×	Out of house works, other then for the delivery and removed of evening deriving out
-	Out-of-hours works - other than for the delivery and removal of oversized equipment,
	the following works were conducted during out of hours:
	 Albany, Oxley, Hume and Clarke Streets, Hume Lane and Clarke Lane -
	Conducting road condition surveys
	 Hume Street -Hume Street (between Clarke Lane and Pacific Highway) closed
	between 27-30 December 2017 to complete utility (sewer) relocation works, in
	preparation for the 6-month closure of the Hume Street bridge from February
	 Pacific Highway at Willoughby Road - continuing utility relocation, involving
	saw cutting, trenching, installing cables and reinstating the work areas
	 Pacific Highway, Hume, Oxley and Clarke Streets and Willoughby Road
	continuing utility relocation including potholing and trenching and removing
	vegetation and trees
	 Clarke Street - completing bundling and commissioning of aerial cables
	between Pole Lane and Hume Street
Victoria	a Cross Station:
\checkmark	Victoria Cross South site
	 Demolition of 181, 187, 189 and 155 Miller Street and loading out demolition
	materials
	 Removing scaffolding from demolished buildings
	• Continuing investigating and relocating services such as power, gas and sewer
	lines, involving potholing, saw cutting, trenching, installing cables and
	reinstating the works areas
	 Decommissioning a substation on Denison Street and Miller Street
	 Continuing surveys and geotechnical drilling in the roads around the site
	 Continuing retention works and installing ground anchors to prepare the site
	for tunnel excavation
\succ	Victoria Cross North site
	 Continuing surveys and soil, heritage and geotechnical investigations
	 Removing hazardous material from the site
	• Tree clearing
	 Establishing site offices and amenities
	 Installing erosion and sediment controls
1	 Importation and compaction of clean fill for construction of piling pads

Leaders in Environmental Consulting

	 Investigating and relocating utilities including temporary lane and footpath
~	closures
	Out-of-hours works –Other than for the delivery and removal of oversized equipment,
	the details of the following works were conducted during out of hours:
	 Miller, McLaren, Walker, Denison, Spring and Little Spring Streets, Blues Point Road and Henry Lawson Avenue - Conducting road condition surveys
	 Miller Street
	 Investigating and relocating utility services
	 De-commissioning a substation
	 Continuing installation of a block wall in the 65 Berry Street car park
	 Denison Street - demolishing 155 Miller Street (Tower Square) during standard
	construction hours and on Saturdays between 8am and 5pm and
	decommissioning a substation
	 Berry Street/Denison Street - continuing to investigate and relocate services
	and utilities
Blues P	oint temporary site retrieval:
4	No works conducted in January 2018.
Barang	aroo Station:
≻	Hickson Road (between Munn Street overpass and High Steps)
	 Utility and geotechnical investigations carried out in the footpath and the road
	 Installation of utilities outside of the Heritage Area
	• Installation bolts to protect and secure the High Street heritage wall before the
	start of station excavation works
	Nawi Cove foreshore and lawn area
	 Installation of hoarding and temporary fencing
	• Closing public access to the lawn area and the southern side of Nawi Cove to
	start site establishment from 8 January 2018. Pedestrian access to Dukes Pier
	and the pontoon maintained using sealed footpath detour.
	 Removing trees, vegetation, pavement, sandstone edging and street furniture
	within the new worksite
	 Delivering materials and equipment, including out-of-hour large vehicle deliveries
	 Site investigation works, involving trenching and drilling activities.
\triangleright	Out-of-hours works
-	 Hickson Road (between Munn Street overpass and High Steps)
	 Utility and geotechnical investigations and relocation of underground
	services
	 Installing high voltage power for tunnelling machines
Martin	Place Station:
4	Bligh Street site
	• Excavating acoustic shed foundations and concrete ramps using rock hammers
	and excavators
	 Storage of contaminated materials on site and loading into sealed drums
	 Removing excavated material from site
	 Constructing site driveways on O'Connell Street
	 Delivering site huts, equipment, tunnelling machinery and materials to site
	 Concrete works for foundations of the acoustic shed
\triangleright	Martin Place North site
	 Internal strip out of buildings on Hunter, Castlereagh and Elizabeth Streets
	 Installing (and removing) scaffolding and hoarding
	 Ongoing structural demolition works and removing materials from site

>	Martin Place South site
	 Preparing building for demolition
	 Substation decommissioning
\succ	Hunter, Castlereagh, Elizabeth, Bligh and O'Connell Streets and Martin Place
	 Identifying existing utility services using a hand-held scanner and vacuum truck
	and accessing service pits on footpaths and within the road
	 Trenching and potholing
\succ	Out-of-hours works
	 Ausgrid works to remove, modify and relocate existing services were
	undertaken around the Martin Place Station and Bligh Street sites from
	Wednesday 20 December 2017.
	• Works occurred on Castlereagh and Elizabeth Streets (between Hunter and
	King Streets), Martin Place (between Elizabeth and Castlereagh Streets) and at
	the intersection of Hunter and Bligh Streets.
	 Works between Wednesday 27 December and Monday 15 January were
	undertaken up to 24 hours a day, in order to complete as much of the works as
	possible when traffic and pedestrian volumes were lowest
Pitt Str	eet Station:
>	Pitt Street North site
	 Ongoing structural demolition work and removal of material from site
	 Removing scaffolding and waterproofing of adjoining exposed walls
	 Contamination investigations
	 TSE site establishment works
\triangleright	Pitt Street South site
, , , , , , , , , , , , , , , , , , ,	 Site establishment and enabling works for demolition
	 Scaffolding within the site boundaries
\succ	Out-of-hours works
· ·	 Pitt, Park and Castlereagh Streets
	 Removing and replacing existing hoarding around the site
	 Delivering and removing plant and equipment including oversized
	loads to and from site
	 Ausgrid works including trenching and installing new ductwork and
	cabling in footpaths and roads
	 Installing a kiosk substation behind hoarding
	 Pitt and Bathurst Streets
	 Preparation for demolition
Waterle	po Station:
>	Within and around the Waterloo Station site
	 Continuing to remove internal walls and demolish external walls and roofing
	 Installing hoarding and scaffolding around the site, involving tree trimming
	 Moving plant and materials to and from the site
	 Overhead cable tagging activities
	 Concrete slab removal
	 Archaeological (Historic Heritage) excavations
	 Preparing the site for excavation of the station box, including hammering,
	piling and concrete works.
\triangleright	Out-of-hours works
	 Within and around the Waterloo Station site
	 Moving plant and equipment to and from site using large vehicles
	which will access the site via Botany Road
	 Installing hoarding and scaffolding around the site
	 Botany Road, Raglan Street and Cope Street

	 Installing new power poles, bundling overhead cables and testing new cables at Raglan Street and Botany Road in December 2017 and early January 2018.
	 Sewer relocation investigations on Botany Road
	 Testing new power cables in Raglan, Cope and Wellington streets in
	December, and Botany Road, Buckland and Wellington streets in
	January.
IN IN	Aarrickville dive site: Marrickville dive site (including external property boundary activities)
	 Delivering materials and construction equipment
	 Setting up the precast acoustic shed structure
	 Constructing the precast facility, including the concrete plant and silo structures
	 Construction of the TBM water treatment plant
	 Preparing for piling and steel works, including building footings for future
	gantry cranes
	 Creating the internal road network, involving saw cutting, concrete works, excavation and earthworks
	• Minor tree removal works within the site and along the footpath
	 Concrete breaking activities across the dive site
	 Installing site hoarding and perimeter fencing
	 Edinburgh Road and Railway Parade
	 Underground utility investigations, involving slit trenching
	Edgeware Road, Lord, Council and May streets
	 Underground utility investigations
	Out-of-hours works
	 Edinburgh and Bedwin roads - underground utility investigations, involving slit trenching
	Aarrickville Station:
	Completion of survey work - Livingstone Road Bridge.

ER Inspectio	ER Inspections		
Demolition	Weekly inspections continued under the management of the TSE contractor for the demolition		
and TSE	sites.		
	Sites inspected in January 2018 comprised:		
	Victoria Cross South – 16/01/18, 30/01/18		
	Victoria Cross North – 30/01/18		
	Chatswood – 16/01/18, 30/01/18		
	Martin Place –09/01/18, 30/01/18		
	Barangaroo – 23/01/18		
	Pitt Street – 09/01/18, 23/01/18		
	Crows Nest – 16/01/18, 30/01/18		

Waterloo – 09/01/18, 23/01/18
Marrickville – 09/01/18, 23/01/18
Bligh St – 16/01/18, 30/01/18
ER Inspection reports have been prepared and issued to Sydney Metro and the TSE Contractor.
Actions identified during the inspections comprised:
Inspection on 16/01/18
 Crows Nest – erosion and sedimentation controls
 Victoria Cross – graffiti and erosion and sedimentation controls
Inspection on 23/01/18
 Marrickville – prevention control (absorbent socks) for hydrocarbons stains at previous warehouse area
 Barangaroo – dust and erosion and sedimentation controls
Inspection on 30/01/18
 Chatswood – maintenance of verge (grass overgrown) in front of site required
Various notes were made in the reports reflecting commitments made by the TSE Contractors.

Endorsed Do	ocument/s
Sydney	The following documents were reviewed and endorsed by the ER with the assistance of alternate
Metro	ERs:
	 Tree Report Rev Q
TSE	The following TSE documents were reviewed, comments provided to the TSE Contractor and Sydney
102	Metro where relevant, and endorsed by the ER with the assistance of alternate ERs:
	Construction Traffic Management Plans
	 Marrickville Utility Works CTMP
	 Martin Place South - Tiffany Building CTMP
	> CNVISs
	 CNVIS Site Est; Rev 8
	Site Establishment Plans (SEPs)
	 VCN SEP
	 Crows Nest (Post CEMP Approval) Rev 00
	 Out of hours works (OOHW) approvals
	 OOHW App 016 and 017 for control survey at Pitt St; Martin Place and Victoria
	Cross
	 Design Investigation works - Chatswood
	 CH 019 Potholing - Hampden Road
	Compliance Tracking Review Q3 2017 Report
Demolition	Out of hours work approvals:
	 Delta - OOHW Application VC011 Denison St sub excavation
	 Delta - OOHW Application VC012 Scaffold Scree Denison St
	 Delta -VC 0013 Plant Delivery OOHWs
	 Delta - VC 0014 MSB Disconnection OOHWs
	 Delta - Extension of Crows Nest ABC Installation OOHWs
	 Delta -VC011 Denison Street Substation Abolishment - extension of time
	Delta -VC 016 Concrete Pour
	 Metropolitan - Extension of OOHWs MP001 Extension of Detter for OOHWs for VC002, VC006, and DS004
	 Extension of Dates for OOHWs for VC003; VC006; and PS004

The following complaints were received:				
Site	No of Complaints	Complaint Category	Date/s of Complaint/s raised	
Barangaroo	8	Noise	12/01/18. 15/01/18, 16/01/18, 16/01/18, 17/01/18, 17/011/18, 30/01/18, 31/01/18	
	1	Dust	16/01/18	
	1	Noise -not related to TSE works	16/01/18	
	2	Traffic	20/01/18, 31/01/18	
Chatswood	1	Property impact (dirt on private property)	22/12/17	
	1	Property impact (flat tyre due to utility works)	22/12/17	
	1	Traffic	15/01/18	
	1	Noise	16/01/18	
	2	Dust	16/01/18, 16/01/18	
	1	Vibration	18/01/18	
	1	Safety (trip hazard)	25/01/18	
	1	Noise not TSE related works	30/01/18	
Crows Nest	1	Water leaking not related to TSE works	31/12/17	
	4	Vibration	4/01/18, 10/01/18, 23/01/18 23/01/18	
	1	Dust	3/01/18	
	1	Traffic	8/1/18	
	1	Safety (wire hanging over the fence)	15/01/18	
	1	Soil on ground – not related to TSE works	16/01/18	
	1	Worker behaviour	31/01/18	
Martin Place	1	Traffic	28/12/17	
Bligh St	6	Noise	29/01/18, 29/01/18, 30/01/18, 31/01/18, 31/01/18, 31/01/18	
Pitt Street	1	Noise	22/01/18	
	1	Traffic	23/01/18	
Waterloo	1	Worker behaviour	23/12/17	
Marrickville	1	Project banners on footpath	4/01/18	
	2	Dust	20/01/18, 27/01/18	
	1	Traffic	31/01/18	
Total Complaints' this month	45			

	 a daily basis (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.
Demolition	 The following complaints were received at the following sites: ▶ Victoria Cross south – 6/01/18 (traffic), 29/01/18 (flora and fauna) ▶ Pitt Street North – 12/01/18 (dust) ▶ Waterloo – 8/01/18 (vibration), 9/01/18 (vibration), 13/01/18 (dust), 16/01/18 (demolition) It is understood that Sydney Metro has been providing summaries of complaints to DPE on a daily basis (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 demolition 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	-The ER attended a TSE Internal audit of the Construction Soil, Water and Groundwater Management Plan (CSWGMP) on 31 January 2018. The audit commenced as a desktop audit and then continued on 6 February at the Marrickville site. The audit was also attended by representatives from Sydney Metro and the Independent Certifier.
Demolition	Nil
Sydney	Nil
Metro	

Looking Forward	
Demolition	Core Focus Areas for the month of February 2018 are:
and TSE	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.
	Dust management during demolition works at Pitt Street, Martin Place and Victoria Cross demolition sites; and
	Set up of mitigation controls as part of site establishment across all sites.