

Mr Rob Sherry
Team Leader Compliance – Government Projects
Department of Planning Industry and Environment
Locked Bag 5022
PARRAMATTA NSW 2124

8 October 2020
Ref: 170108-ER_DPIE-SEP-20

Dear Rob

RE: Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 – ER Monthly Report for September 2020

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

- Condition A24 (l) 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), MOD5_Blues Point Acoustic Shed (2 November 2018), MOD6_Administrative Changes (21 February 2019), and MOD7_ Administrative Changes (29 June 2020); and
- Condition A26(j) of the Sydney Metro Sydenham to Bankstown Upgrade SSI_8256 Approval (12 December 2018).

The attached summaries detail the key activities undertaken by Environmental Representatives for Sydney Metro – City and South West Chatswood to Sydenham for the following work packages for the month of **September 2020**.

- Tunnel and Station Excavation (TSE)
- Central Station (CSMW)
- Sydenham Station and Junction (SSJ),
- Line Wide (LWW)
- Train Service Operation and Maintenance (TSOM)
- Integrated Station Developments (ISDs)
- Sydenham to Bankstown (S2B) Enabling Works (SMEW)
- Relevant Sydney Metro Retained Obligations and Activity

Yours sincerely

Jo Robertson
Environmental Representative

Cc:

Sydney Metro: Carolyn Riley, Fil Cerone, Ben Armstrong, Hugh Chapman, Pam Tummers, Simon Fisher, Andrew Hendy, Tim Solomon
Ann Paterson, Julia Diamond, Chris Berg
Contractors: Rob Muir (TSE), Jason Ambler (MPISD and VCISD), Sally Reynolds (WLISD), Andrew Zvirzdinas (Pitt St ISD)
DPIE: Elizabeth Williamson, Matthew Todd-Jones, Erica Van Den Honert
cc. IEA: Larry Weiss, Julie Dickson

Contract Package	Environmental Representative/s
Tunnel and Station Excavation (TSE)	Michael Woolley
Key Construction Activities	
TSE	<p>Chatswood site:</p> <ul style="list-style-type: none"> ▪ Installation of pre-cast beams to roof of the dive using very large crane. ▪ Construction of Nelson Street Cul-de-sac. ▪ Construction of slabs on top of pre-cast beams over the dive and other works in the Northern Corridor and dive. <p>Victoria Cross North site:</p> <ul style="list-style-type: none"> ▪ Ongoing concrete pouring of arches and curing. ▪ WTP decommissioned and transported to Barangaroo with silo's removed. ▪ Ongoing works in the cavern. <p>Victoria Cross South site:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation and rock hammering of the shaft using multiple excavators. ▪ Stockpiling and load out of spoil onto trucks on Denison Street using telescopic bucket on the excavator. Support activities. ▪ Lining (FRP) of pedestrian adits. <p>Blues Point site:</p> <ul style="list-style-type: none"> ▪ Hammering and construction of walls and around tunnels. ▪ Water from site collected in sumps and pumped to shaft for treatment at Barangaroo. <p>Barangaroo Station:</p> <ul style="list-style-type: none"> ▪ Ongoing installation/commissioning of WTP from Victoria Cross North. ▪ Ongoing operation of the existing WTP (scheduled for removal mid-October). ▪ Ongoing FRP for slabs and walls, stair installation in the station box and sharks' fin (EPL variation for works until 10pm). ▪ Construction of plenum structure in crossover cavern. Laydown areas for steel and equipment. ▪ Foreshore re-establishment works commenced. <p>Martin Place Station-South:</p> <ul style="list-style-type: none"> ▪ Pedestrian adit lining complete. ▪ ESR shaft lining ongoing. ▪ Ongoing excavation of rock in the vicinity of the former tower crane. <p>Pitt Street North:</p> <ul style="list-style-type: none"> ▪ Ongoing excavation of sandstone and installation of wall support. ▪ Spoil movement out and transfer to Pitt Street South. ▪ Near end of rock hammering for excavation. <p>Pitt Street South:</p> <ul style="list-style-type: none"> ▪ Construction of blinding layers. One small area of blinding left to complete, and additional trench to be dug to act as a sump prior to pump to Martin Place. ▪ Excavation of remaining rock in the southern section of the shaft. ▪ Lining of adits between shaft and tunnels. ▪ Loading out of spoil from Pitt Street North. ▪ Demobilisation scheduled for mid-November 2020. <p>Marrickville dive site:</p> <ul style="list-style-type: none"> ▪ Piling works along road to Railway Parade. ▪ Water treatment plant (WTP) operational, however, idle for some periods until required for onsite dewatering. ▪ Local Area Utility Works on Edinburgh Road (involving road closure) and Railway Parade ongoing with stormwater pipes and pits installed; Underbore complete. ▪ Dive and Transgrid structure handed over to Line Wide. <p>Marrickville stabling yard</p> <ul style="list-style-type: none"> ▪ TSE culvert now connected to SSJ works. ▪ Works within the culvert near Sydney Steel Road bridge ongoing with new works on northern side of the culvert. ▪ Additional areas of existing culvert removed and backfilled.



	<ul style="list-style-type: none"> ▪ Piling for retaining wall adjacent to Sydenham Pit. ▪ Backfilling of culverts and extensive drainage works ongoing, including excavation and slab construction. ▪ Drainage tie-in works at Sydney Steel Road and Murray Street ongoing with diversion of flows via new culverts to the aqueduct. ▪ Spoil removal and import of sandstone for backfill ongoing with extended hours.
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ER Inspections

TSE	<p>There were five ER inspections carried out during the month. Issues identified during the inspections included:</p> <ul style="list-style-type: none"> ▪ Chatswood Dive: Some staining from potential turbid water was noted in the swale drain downgradient of the Nelson Street Cul-de-sac. Controls at the low point were limited. ▪ Victoria Cross North: Some sediment had accumulated at ERSED controls in the former Kane constructions area and had not been cleaned out. Sediment bags in the area required maintenance. ▪ Marrickville Stabling Yard: The controls at a stormwater pit on Sydney Steel Road had not been maintained and silt had built up within the control. ▪ Marrickville Stabling Yard: Hardstand in the Cherrie Civil works area contained fine dirt that is a source of dust and turbid runoff. ▪ Marrickville Stabling Yard: Built up sediment on the bridge over the existing culvert has not been removed. ▪ Marrickville Stabling Yard: Equipment was stored under the dripline of trees inside the site adjacent to Sydney Steel Road. Tree protection measures had not been implemented. ▪ Marrickville Dive – Local Area Utility Works: Equipment was stored under the dripline of trees adjacent to active local area works on Edinburgh Road. Tree protection measures had not been implemented. ▪ Barangaroo: One IBC of corrosive liquid was stored adjacent to the old WTP without secondary containment. <p>The large, open disturbed areas at Marrickville Stabling Yard continue to represent challenges in ERSED management and as conditions change ERSED controls will need to change.</p> <p>Various notes were made in the inspection reports reflecting commitments made by the TSE Contractors and risks identified during inspections. ER Inspection reports have been prepared and issued to Sydney Metro and the TSE Contractor.</p>
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Endorsed Document/s

TSE	<ul style="list-style-type: none"> ▪ Sewer CCTV Works VC OOHs ▪ Close out Conditions form E84 ▪ Site Environmental Plan Artarmon Rev 3 <p>In previous reporting periods the ER commented on a Draft groundwater monitoring report to be issued to NRAR. The report was requested by NRAR during consultation by JHCPBG on the development of the Groundwater Monitoring Plan. The report was submitted to NRAR this reporting period and discussed results of groundwater level monitoring throughout the project.</p> <p>Sydney Metro documents related to these work areas included:</p> <ul style="list-style-type: none"> ▪ Minor works application (MWA) for Contamination Investigations at Chatswood Dive. ▪ OOHWs Application for Contamination Investigations in Chatswood Dive. ▪ OOHWs Application for Contamination Investigations in Chatswood Dive _ Revised due to extension of time. ▪ MWA for Contamination Investigations at Chatswood Dive - revised due to extension of time
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Complaints / Incidents / Non-compliance

TSE	<p>It is understood that Sydney Metro has been providing summaries of complaints to DPIE daily. Responses to each complaint have been noted in each complaint report provided to the ER, with follow up actions often defined in revised reports. There were no incidents reported by JHCPBG as defined by the project approval definition for incidents under condition A41.</p>
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Audits (specific to packages reported in this report)

	<p>JHCPBG had an internal environmental management systems audit conducted by John Holland Corporate on 30 September. Two minor recommendations were made during the audit.</p>
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Looking Forward – Core Focus Areas	
TSE	<ul style="list-style-type: none"> ▪ Water and ERSED management at the Marrickville stabling yard generally and specifically at the interfaces with live culverts ▪ Noise and vibration impacts at Victoria Cross South and Pitt Street North during excavation activities ▪ Landscaping works recently commenced on wharf areas at Barangaroo

Contract Package	Environmental Representative/s
Central Station	Michael Woolley

Key Construction Activities	
Central Station	<ul style="list-style-type: none"> ▪ Metro Box - Truck movements; spoil excavation; metro box ventilation using scrubbers. Ongoing excavation and construction activities. Steel fixing and concrete pours in lower sections. Use of Metro Box for storing concourse canopy prior to installation. ▪ Central Walk – Excavating for Central Walk, shotcreting, loading out of excavated materials and installing new concrete beams underneath suburban Platforms 16-23 (24/7). Excavating within hoarded work zones on suburban Platforms 16-23 and platform surface excavation during rail possession weekends. Construction of canopy tubes to the Eastern Entrance. ▪ Sydney Yard - Water Treatment Plant Operation; truck access; laydown. Stockpiling, processing and loadout of excavated material from other areas of site such as platforms and Eastern Entrance. ▪ Northern Concourse - Opening of new escalators to the public. Hoarding established around old escalators to commence works in this area. Excavating, concreting, installing steel posts, props and demolition within hoardings on upper and lower Northern Concourse. Installation of new steel roof sections in prior weekend possessions. Excavation in area of old escalators. Ongoing installation of façade sections of the new steel roof. ▪ Eastern Entrance: Installing canopy tubes (horizontal piles) and wall support below Chalmers Street. Formwork construction. ▪ CSR works: Rail Institute - Continued installation of sheet piles using vibratory attachment near station entrance at Chalmers Street. Excavation of material from within the piles. Large diameter circular hollow section installed within sheet piles at the compound near station entrance at Chalmers Street. ▪ CSR works: Mortuary Station - Small compound remaining inside an ATF fence for laydown/equipment storage. Cable pulling is main activity in the area remaining. ▪ ESR Concourse - Temporary walkway installed and in use by pedestrians.

ER Inspections	
Central Station	<p>There were two ER inspections conducted in September 2020 . The key issues raised at these inspections were:</p> <ul style="list-style-type: none"> ▪ It was agreed Laing O'Rourke (LOR) were to investigate an exceedance of predicted noise levels from works on Platform 23 during the possession on 22 August to determine appropriate actions; and whether additional mitigation measures should be applied to future similar works. A report was prepared by LOR identifying investigation outcomes and recommendations for future possessions to reduce noise impacts. ▪ Sediment was observed on the hardstand on both sides of the gate to Track 12. The site should be maintained such that sediment does not build up on the hardstand; and that if it does it is prevented from moving off site to Track 12. ▪ The sediment control inside one stormwater pit on the path to the Yard was disconnected and not functioning. This should be repaired/ maintained.

Endorsed Document/s	
Central Station	<ul style="list-style-type: none"> ▪ Extension of existing Consistency Assessment for the Use of Mortuary Station for compound. ▪ Compliance review CTR Q2 2020, including completion of Conditions for various conditions as per the Central Q2 CTR. ▪ Approval of minor amendments to the following sub-plans: Biodiversity Management Plan, Construction Heritage Management Plan; Spoil Management Plan; and Construction Groundwater Management Plan

Non-compliance/ Incidents or Repeat Complaints	
<p>Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects.</p>	

Central Station	Complaint aspects for this site during the period have been provided to DPIE and included complaints relating to daytime and night time noise from various activities. There were no incidents for Central reported to the ER under conditions A41 to A44 of SSI 7400.
Audits	
Central Station	No audits conducted within the reporting period.
Looking Forward – Core Focus Areas	
Central Station	<ul style="list-style-type: none"> ▪ Noise and vibration management during works on platforms during possessions and generally at the Eastern Entrance during excavation ▪ Construction of the canopies at the Northern Concourse ▪ Ongoing operation of the Water Treatment Plant ▪ Managing impacts to heritage buildings around the Northern Concourse during adjacent excavations.

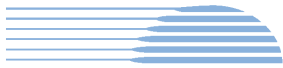
Contract Package	Environmental Representative/s
Sydenham Station and Junction (SSJ)	Jo Heltborg

Key Construction Activities	
SSJ	<ul style="list-style-type: none"> ▪ Geotechnical Area – Retaining wall construction and service installation; building refurbishment. ▪ Burrows Ave/ Platform 6 – Continuation of construction of new waste building on Platform 6. Installation of lift canopy cladding and handrails on the station structure. Station plaza/concourse works commenced, including service installation. ▪ Bolton St / Hogan Ave – Preparation for installation of sewer ventilation shaft. ▪ Platforms 1 & 2 –Headstocks complete and aerial pedestrian concourse lifted into place. Roofing over Platforms 1 & 2 lifted into place during three nights in September (to meet airport regulations). ▪ Sydenham Rd triangle area – Cutover of eastern Culverts 1 and 2 to the existing system complete. Ongoing works for future cutover of western Culverts 3 and 4. Excavation of Drainage Line 50 and regrading of gas main to Burrows Ave. ▪ 11 Sydenham Rd - Main structure of weir complete; construction of culvert back into Sydenham Pit continuing. Spoil movement and stockpiling. ▪ Sydenham Pit and Pumping Station – Expansion of the existing inlet to allow flows to enter from the new weir, involving removal of a section of heritage sandstone walls. Tie-in at top of the new ramp nearing completion. ▪ Confluence Structure & Temporary Upstream Connection – Construction of the confluence structure complete and in service; external completion works ongoing. Bulkhead in place along western channel and temporary bypass live. ▪ Bedwin Rd – Piling underway at city end, including vibration monitoring. Excavation for installation of drainage slab.

ER Inspections	
SSJ	<p>There were two inspections conducted by the ER in September 2020. The key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Dust mitigation ▪ Management of concrete washout ▪ Hazardous chemical storage ▪ Stockpile management, including covering and polymer application ▪ Maintenance of controls inside the temporary bypass to the confluence structure ▪ Covering of exposed batters to reduce the risk of sediment entering Sydenham Pit

Endorsed Document/s	
SSJ	<ul style="list-style-type: none"> ▪ Consistency Assessment Sydenham Pit Changes ▪ Compliance review Q2 2020

Non-compliance/ Incidents or Repeat Complaints	
Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for SSJ.	
SSJ	<p>There were no incidents for SSJ reported to the ER under conditions A41 to A44 of SSI 7400.</p> <p>There were three Class 3 environmental incidents reported during September 2020:</p>



	<ol style="list-style-type: none"> 1. 1/9/20: JHLOR was dewatering stormwater from a pit to land to undertake works on the pit. A small amount of excess water did not soak into the ground and passed through the site boundary into a neighbouring property (the Portuguese Club). The works were put on hold. A worker at the neighbouring property called the JHLOR Place Manager on her work number to enquire and complain about the water. The Project Engineer inspected the area and observed that the excess water had soaked into the ground adjacent to the footpath. There was no sign of sediment from the excess water. Testing carried out on the water prior to dewatering indicated a pH of 7.89 and NTU of 23. The EPA was notified via the Daily Complaints Report in accordance with the licence requirements. There was no material harm so the incident was not otherwise reportable. The Client was notified. 2. 7/9/20: Whilst excavating for drainage works in Burrows Ave Sydenham, a water main was struck causing it to rupture. The 100mm main was not struck directly; excavation work has exasperated an existing weak point. Sydney Water arrived at 17:26 and isolated the main. Traffic in the area moved through the earlier established traffic control; the footpath was closed as a precaution. Community Liaison spoke to affected residents. Service was restored at 19:39. Traffic control remained overnight. The Environmental Manager undertook water quality sampling. It was found that water entering the local stormwater system had a pH of 7.56 and a TSS of 46 mg/L, results were within the general, permissible discharge requirements of the EPL and the Sydney Metro Dewatering Procedure. Emergency works were required after standard construction hours - including removal of pavement and excavation. Works were undertaken under a lighting tower. The water main break and emergency works were self-reported via the NSW EPA Pollution Incident Reporting Line. 3. 29/9/20: The occupational hygienist (OH) was walking past the Brefni containers at 11 Sydenham Road when he observed a spill from a Forsoc 24 bitumen primer on the ground. The OH observed that the bitumen had just been spilt but no-one was in the vicinity at the time (i.e. the bitumen was slowly spreading). The Brefni Engineer was called and a spill kit was applied. The spill was fully contained to an asphalted laydown area using the spill kit - less than 10 litres had reportedly spilt. No material left site or entered the stormwater system. This incident report has been raised as the spill was an uncontrolled release. Actions to close out the incident included; Clean up spilled material; and refresh team on spill management at pre-start. <p>A non compliance was raised by JHLOR during September 2020 as a result of further investigations into an incident recorded in the ER Monthly Report to DPIE in August 2020. The non-compliance was raised in relation to an incident reported on 7/8/20 regarding discharge of water from a street sweeper into Sydenham Pit. In this case, dewatering was conducted without authorisation from the JHLOR Environment Manager (internal permit). JHLOR summarised the non-compliance as follows:</p> <p><i>“From the testing and observations undertaken, it is evident that there was no environmental impact. The action simply bypassed water that was going to be discharged into the Sydenham Pit via the stormwater system. In this case the Environmental Team was not consulted, and a Dewatering Permit was not issued. This has been recorded as a non conformance with the Sydney Metro Water Reuse and Discharge Procedure due to the following;</i></p> <ol style="list-style-type: none"> a. <i>Water was not tested prior to discharge</i> b. <i>The Environmental Manager (or delegate) did not signoff on a permit prior to discharge”</i>
Audits	
SSJ	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Looking Forward – Core Focus Areas	
SSJ	<ul style="list-style-type: none"> ▪ The management of contaminated groundwater during underbore works from the Sydenham Rd triangle to Hogan Ave & Sydenham Rd ▪ Management of ERSED controls generally, including stockpile management at 11 Sydenham Rd ▪ Completion of station structures and noise and vibration impacts during OOHW and possessions ▪ Implementation of the tree replacement strategy ▪ Compliance review Q3, 2020



Contract Package		Environmental Representative/s
Line Wide (Tallowong to Bankstown)		Peter Hatton / George Kollias
Key Construction Activities		
Line Wide	<p>SMTF (North)</p> <ul style="list-style-type: none"> ▪ Rail and road construction in the MTS Area, Maintenance Building, including excavation and concreting works ▪ Civil excavation and spoil movement from MTS to Snake Mountain. ▪ Preparation for landscaping. ▪ Capping and ballast on Roads 25 and 26 ▪ Combined Service Route (CSR) installation, preparation for inter-track drainage <p>Northern Connection</p> <ul style="list-style-type: none"> ▪ Piling ▪ Surveying ▪ Environmental protection works – track wetting and street sweeping ▪ Excavation around piles <p>Crows Nest Station site</p> <ul style="list-style-type: none"> ▪ Rail grinding, moving / stacking rail, butt welding ▪ Dragging rail towards Victoria Cross <p>Waterloo Station</p> <ul style="list-style-type: none"> ▪ Rail Dragging in Down Tunnel to Pitt St ▪ Survey setup in Up Tunnel <p>Southern Dive (Marrickville)</p> <ul style="list-style-type: none"> ▪ Not inspected this period <p>Canterbury to Campsie – Bulk Power Supply Works</p> <ul style="list-style-type: none"> ▪ Traffic control and road diversions ▪ Complete crossing of Canterbury Road ▪ Move material and float plant to Pat O'Connor Reserve ▪ Establish site and fencing ▪ Permit to excavate and prepare to commence excavation 	
ER Inspections		
Line Wide	<p><i>Construction Inspections</i></p> <p>For SMTF North, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Three new tracks and roads were being constructed inside the MTS Maintenance Building. Heavy vehicle access controls requiring maintenance. ▪ Recycled water in use (sourced from the Rouse Hill recycling plant) for dust suppression. ▪ Revegetation of the swale near the new test track in the SMTF Expansion Area. ▪ Staged removal of geofabric from the area to the north of the sediment basin. ▪ The surface of Snake Mountain remains exposed. Light ripping and watering may be required to enable the regeneration of vegetation, to stabilise the surface prior to handover. ▪ Drain controls throughout the SMTF expansion area had been reinstated since the last inspection and were in good condition. ▪ All actions from the last inspection were closed out. <p>For the Crows Nest Station site, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ All significant activities are currently occurring in the station box under the acoustic shed. ▪ Night time rail deliveries are running well – no complaints to date. ▪ The public areas surrounding the construction site are well maintained – no evidence of any waste from the construction site accumulating outside the site. ▪ Rail deliveries and unloading undertaken within a drive-in / drive-out acoustic shed. ▪ There is a water treatment plant on site that was installed by the TSE contractor. It is not required for the Line Wide works and is not currently in operation. 	



	<ul style="list-style-type: none"> ▪ Tunnel discharge water is collected in sumps at either end of work site and pumped to the water treatment plant (WTP) at Chatswood Dive Site treatment and off-site discharge. <p>For the Northern Connection, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Piling works occurring during daytime hours on western side of the corridor. ▪ Access track is sprayed as required to mitigate risk of any dust being generated. ▪ Street sweeper on station to remove any mud tracked off-site by construction vehicles. ▪ Piling works completed. ▪ Graffiti sprayed onto hoarding fronting Valetta Lane after previous removal. There are on-going discussions between Sydney Metro and Systems Connect about potential remedies for the problem. ▪ Minor dust volume generated by pile drilling works. ▪ Traffic control on site to facilitate entry and access to the site from Brand Street. Large vehicles are required to reverse from Brand Street onto the site due to lack of turning room on-site. ▪ Concrete wash-out bin installed in Valetta Lane lay down area. <p>For Waterloo Station, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ Welded 120m lengths of rail are placed on dollies and transferred into areas of the tunnel. Tonal noise is generated by the movements. Movements are only during standard construction hours ▪ Existing “Fish-Pond” and pipework for tunnel water remains in use. Water testing is occurring prior to use and will continue when tunnel water is being sent to and treated by Waterloo WTP ▪ Plant and equipment delivery to Waterloo including tunnel concrete trucks, before the country end tunnel portals ramps are removed <p>For Southern Dive (Marrickville)</p> <ul style="list-style-type: none"> ▪ Storage containers and lay-down of items within Southern Dive Compound. Preparation for rail deliveries, and the commencement of rail grinding and flash-butt welding activities within the Southern Dive <p>For Canterbury to Campsie – Bulk Power Supply Works, the key issues discussed were:</p> <ul style="list-style-type: none"> ▪ From an Out of Hours (OOH) ER Inspection at BPS works on Canterbury Rd, Canterbury. <ul style="list-style-type: none"> ○ Systems Connect Site Supervisor and Quickway (Subcontractor) Engineer were well versed on environment and community requirements and mitigations for working at night ○ Traffic control and pedestrian access management is effective. Footpaths remained open, and businesses could continue to operate. Food delivery bicycles frequented the sidewalks to get around the work area. ○ Alternative accommodation had been offered to residents of certain buildings within close proximity of the works, but not those of the building opposite that had been acoustically treated ○ A diesel-powered lighting tower was observed onsite which is not consistent with mitigation commitment in OOHW for battery powered lighting towers ○ Observed crew truck had tonal beeper. Consider a review of all plant / equipment to be used during OOH works to ensure non-tonal movement alarms fitted ▪ Establishment of a work area within Pat O’Connor Reserve has commenced. ▪ Unexpected Find of Asbestos contamination within Pat O’Connor Reserve ▪ OOH Works at Beamish St Campsie are ongoing. Plant parking areas will be cleaned-up with the completion of the works ▪ South Parade Compound needing some attention, with sediments and asphalt needing to be swept-up and shade cloth with complaints line replaced
Endorsed Document/s	
Line Wide	<ul style="list-style-type: none"> ▪ OOHWA #041 - SMTF WE 12 Possession Works ▪ OOHWA #036 - SMTF Sealing MTS carpark 15/09/2020
Non-compliance/ Incidents or Repeat Complaints	
<p>Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects.</p>	



Line Wide	<p>No Line Wide work related complaints were received during the period.</p> <p>There were no incidents for Line Wide reported to the ER under conditions A41 to A44 of SSI 7400.</p> <p>There was 1 minor Class 3 incident:</p> <ul style="list-style-type: none"> ▪ Canterbury to Campsie BPS – Fencing was not established around remnant vegetation and trees intending to be protected as the first establishment activity. To gain access to Pat O’Connor Reserve, an excavator had been tracked off Anzac St over the semi-exposed root of a large tree. Tree No.19 has been identified to be “Retain if possible” in the Tree Report, with controls for works within its Tree Protection Zone including supervision by an Arborist. Further plant tracks were identified on the high side of the same tree with scuffing of other semi-exposed roots. Other Tree Protection Zone (TPZ) fencing was observed to be installed incorrectly. Systems Connect advised that the ECM for works in Pat O’Connor Reserve was tool boxed on 10/09/20. Following observation of no Tree Protection Zone fencing, unplanned access, storage of items within TPZ and incorrectly installed fencing, all works were stopped and another toolbox was held during the ER Inspection. This incident has been raised as a non compliance to the Flora, Fauna and Biodiversity Management Sub-Plan, CoA E5 Tree Report and ECM, as documented by Systems Connect
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Audits

Line Wide	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
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Looking Forward – Core Focus Areas

Line Wide	<ul style="list-style-type: none"> ▪ SMTF (North) construction site works, especially dust management ▪ Cumulative impacts from adjacent projects ▪ Noise and vibration management during OOH for construction of portal between Chatswood and Artarmon ▪ Stakeholder engagement during transition/ handover between construction contractors ▪ OOH deliveries of Rail and Flash-butt Welding in amongst other works at Southern Dive (Marrickville) site
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Contract Packages	Environmental Representative/s
TSOM (Train Service Operation and Maintenance)	Peter Hatton
Key Construction Activities	
TSOM – SMTF(N)	<ul style="list-style-type: none"> ▪ Cable pulling through conduit on trackside continued ▪ Continued installation of trackside signalling and communication equipment ▪ Commencement of installation of perimeter camera poles and cameras
Degnan OCC Works	<ul style="list-style-type: none"> ▪ Generator slab (external) complete and generator in place and tested ▪ Continuing fit-out of ground floor and 1st floor rooms
ER Inspections	
TSOM	<ul style="list-style-type: none"> ▪ No ER inspection conducted in September 2020.
Endorsed Document/s	
TSOM	<ul style="list-style-type: none"> ▪ Nil this inspection period
Non-compliance/ Incidents or Repeat Complaints	
Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects.	
TSOM	No complaints, incidents or NCRs
Audits	
TSOM	No audits proposed
Looking Forward – Core Focus Areas	
TSOM	<ul style="list-style-type: none"> ▪ Nil

Contract Package		Environmental Representative/s
Martin Place ISD Macquarie Bank/Lend Lease		Michael Woolley/Jo Robertson
Victoria Cross ISD (VC-ISD) - Lend Lease		Michael Woolley/Jo Robertson
Crows Nest ISD – Sydney Metro		Michael Woolley
Waterloo ISD – John Holland		George Kollias
Pitt Street ISD - CPB		Michael Woolley
Key Construction Activities		
MP-ISD	<ul style="list-style-type: none"> Detailed works including footing construction; and detailed excavation 	
VC-ISD	<ul style="list-style-type: none"> Potholing investigations in footpaths in the vicinity of the site during out of hours 	
CN-ISD	<ul style="list-style-type: none"> During the month there were works by both Utility providers (works conducted under third party approvals) and ASP works contracted by Sydney Metro (to remove redundant gas/water mains and install electrical conduits) to facilitate the construction of a logistics lane adjacent the site on Pacific Highway 	
PS-ISD	<ul style="list-style-type: none"> Nil 	
WL-ISD	<ul style="list-style-type: none"> General supervision of the site by John Holland (Principal Contractor) Survey work Electrical and floodlights installation Strip existing TSE site sheds Interface with Line wide works: Pulling rail into tunnels 	
ER Inspections		
MP – ISD	ER Inspection at the Martin Place site was carried out on 17 September 2020. No new issues were identified during the inspection.	
VC-ISD	No inspections conducted.	
CN-ISD	No inspections conducted.	
PS-ISD	No inspections conducted.	
WL-ISD	There was one inspection conducted by the ER in September 2020. Site establishment activities ongoing with preparation for triple stacker crib sheds and shifting of personnel access. Instances of graffiti on site hoardings have been addressed. Site managed in a satisfactory condition including for dust and wastewater management	
Endorsed Document/s		
ISD- Martin Place	<ul style="list-style-type: none"> Consistency assessment for extension of use of Bligh Street OOH46 Deliveries Rev 3 OOH55 Remove excavators from site 	
VC - ISD	<ul style="list-style-type: none"> Spoil Management Plan Rev B OOH5 Potholing Investigations 	
CN - ISD	<ul style="list-style-type: none"> Extension of pre-existing ASP OOHs Application for Utility works - removal of old utilities Revised ASP OOHs Application for Utility works - Electrical Install 	
PS-ISD	<ul style="list-style-type: none"> Consistency assessment for Pitt Street North: Integration with ISD design: TfNSW 41 	
WL-ISD	<ul style="list-style-type: none"> OOHW #04 - Oversized Shed Delivery Rev C PCMWA (Minor works application) #03 - Botany Road Minor Ancillary Facility OOHW #05 - Oversized Equipment Delivery Rev B OOHW #04 Oversized Shed Delivery Rev D 	
Complaints / Incidents / Non-compliance		
ISD- Martin Place	<p>One complaint was reported to the ER that related to the MP-ISD project. A stakeholder complained about noise taking place from the Martin Place North Site. Lendlease reported that noise levels were in accordance with the limits. It is also noted works are taking place by another contractor on the corner of Castlereagh and Hunter streets that could have contributed to the noise.</p> <p>The ER is not aware of any non compliances. There were no incidents reported by Lend Lease as defined by the project approval definition for incidents under condition A41.</p>	



	<p>It is noted that during a previous reporting period in 2019, Lendlease reported grout inside the Sydney Water owned Bennelong Stormwater drain. It is understood that this was reported to Sydney Water soon after it was identified. Given the wording of E10, and that the stormwater channel is identified in the documents listed in A1, it appears this event did not comprise a non compliance with this condition. Sydney Metro continues to investigate the source of the grout with a number of potential sources identified.</p>
VC-ISD	No complaints, incidents or non compliances were reported to the ER during the reporting period.
CN-ISD	<p>On 25 September a complaint was received regarding noisy concrete drilling works by a contractor working directly for Sydney Metro. Further investigations by Sydney Metro showed that the contractor carried out saw cutting when they weren't permitted to carry out this type of work under the approved OOHs Application. It is understood the works went for 5 - 10 mins and then contractor stopped. This was reported by Sydney Metro as a Non Compliance under Condition A47 as works were not restricted to those described in the approved OOHs Application.</p> <p>It is understood there has been a number of different out of hours works occurring in the vicinity of the Crows Nest site, and complaints have occurred outside of those linked to Sydney Metro works. No incidents or non Compliances were reported to the ER during the reporting period.</p>
WL-ISD	<p>A complaint was received for tonal alarms used during OOH delivery of an elevated work platform (EWP). The beeper was on the EWP that was driven off the truck. The EWP has a series of beepers that alert for various conditions, one of which is for when the EWP is on a slope, which was triggered when unloading down the ramp of the truck</p> <p>A complaint was received regarding light spill with recently installed flood lights. These flood lights have been switched off until additional components are sourced to provide a greater angle downwards to address the issue</p>
Audits (specific to packages reported in this report)	
<p>As part of the approval for the EHS Plan at Martin Place, the ER is required to undertake an audit of the Implementation of the EHS Plan within three months of the approval. This audit was commenced by the ER on 24 September when the ER participated in a pre-organised audit of the Implementation of the EHS Plan as required of Macquarie Bank assurance processes. Further ER audit activities are planned for early October. The report is planned to be issued to DPIE in line with the EHS Plan Approval requirements, which is submission of the report within 6 months of the approval.</p>	
Looking Forward – Core Focus Areas	
MP –ISD	<ul style="list-style-type: none"> ▪ ER Audit of EHS Management Plan as per Condition of Approval of the document.
VC - ISD	<ul style="list-style-type: none"> ▪ Nil
CN - ISD	<ul style="list-style-type: none"> ▪ Noise from Out of Hours works for utilities along the Pacific Highway.
PS - ISD	<ul style="list-style-type: none"> ▪ Review of CEMP and Sub-Plans prior to submission to DPIE
WL-ISD	<ul style="list-style-type: none"> ▪ Commencement of construction



Contract Package		Environmental Representative/s
Sydenham to Bankstown Sydney Metro Early Works (SMEW)		Jo Robertson
Key Construction Activities		
SMEW	<ul style="list-style-type: none"> ▪ Myrtle Street Overbridge, Victoria Road Overbridge: Separation fencing under construction between the freight and passenger train lines. ▪ Albermarle Street, Kays Avenue, Wilga Avenue: GST installation. ▪ Ewart Street and Laydown, Garnet Street, Ness Avenue: Commencement of CSR establishment works to the city side of the Terrance Road Bridge (along Ewart Street). Protection to conduit structures was being installed. Some minor clearing had occurred. ▪ Church Street, Minter Street, Hutton Street: Installation of CSR at Hutton Street and fencing preparation and installation works along the pedestrian pathway to the west. Finishing works inside the work zone on Hutton Street. Installation of security fencing along the pedestrian pathway to the west on hold due to low hanging cable. ▪ Retaining Wall 1 (RW1), Cooks River: No activity along the corridor behind the carpark area. Exposed faces were mostly wrapped in geofabric. ▪ Retaining Wall 2 (RW2), Shotcreting, grouting of soil nails, and drilling of weep holes to the shotcrete to the batter at Cooks River end of the site. Drilling of weep holes to the shotcrete was underway at the time of inspection. Retaining wall construction and backfilling batters behind wall was continuing. Batter stability tests and civil work underway at Cooks River end of the site. Some civil work underway on the batters at the Wairoa end of the site. Fill being placed behind the retaining wall Retaining wall construction and backfilling batters behind wall was continuing. ▪ Retaining Wall 3 (RW3), Wairoa Street, Nowra Street, North and South Parade, Charles Street (near bridge), Broughton Street: Batter civil works had extended towards the Campsie end of the RW3 worksite. Retaining wall works on the corner of Wairoa Street delayed. 	
ER Inspections		
SMEW	<p>There were three inspections conducted by the ER in September 2020. The key issues discussed were:</p> <ul style="list-style-type: none"> ▪ The stabilisation of exposed batters on the southern side of Foord Avenue. ▪ The management of dust and maintenance of ERSED controls and shade cloth on site boundary fencing. ▪ The establishment of tree protection measures at Zone 7 Ewart Street. ▪ The appropriate storage of lime bags, i.e. to be stored appropriately when near flow paths. ▪ Improvements in housekeeping (mainly used empty water bottles). ▪ The compliant storage of oils, glues and fuel jerry cans. ▪ Workers were heard to be playing loud music on a portable radio on the opposite side of the railway bridge at Albermarle Street. It is noted that worker behaviour has been raised as a complaint from nearby residents previously. ▪ The stabilisation of surfaces on site to reduce tracking onto Sugar Loaf Road, Zone 11 Hutton Street. 	
Endorsed Document/s		
SMEW	<ul style="list-style-type: none"> ▪ PCMW13 - Landscape Sampling SHL Stations ▪ SMCSW1SSJ - SMEW - Construction Monitoring Report - February to July 2020 (review only) 	
Non-compliance/ Incidents or Repeat Complaints		
<p>Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for SMEW.</p>		
SMEW	<p>There were no incidents reported to the ER under conditions A36 of SSI 8256.</p> <p>The ER is not aware of any non compliances for SMEW for the period.</p> <p>There were three complaints related to the SMEW works, all raised on 11/9/2020:</p> <ul style="list-style-type: none"> • Two complaints were related to visual amenity. A loss of amenity was a concern for residents at Albermarle Street due to the installation of four-tier GST in the rail corridor behind their residence. Complainants also reported a lack of consultation. Sydney Metro has been in contact with the complainants. • A complaint was made from the residents at the Sugar Loaf apartments in Canterbury regarding 'noise pollution, walkway destruction, property damage, and blocking of roads and driveways'. Sydney Metro 	



	has been in contact with a group of residents from this area to discuss their concerns.
Audits	
SMEW	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Looking Forward – Core Focus Areas	
SMEW	<ul style="list-style-type: none"> ▪ Environmental controls associated with works in proximity to Cooks River ▪ Complaint management ▪ Compliance review Q3, 2020

Summary of Contract Packages		Environmental Representative/s
Sydney Metro Retained Obligations (SM)		Jo Robertson
Key Construction Activities		
SM	<ul style="list-style-type: none"> ▪ Nil 	
ER Inspections		
SM	<ul style="list-style-type: none"> ▪ Nil 	
Endorsed Document/s		
SM	<ul style="list-style-type: none"> ▪ Consistency assessment for additional areas under the SDPP at Barangaroo – Revised. ▪ Overarching Community Communications Strategy (review of minor amendments) 	
Non-compliance/ Incidents or Repeat Complaints		
Sydney Metro has been providing summaries of complaints to DPIE daily and a summary to the ER. Responses to each complaint have been noted in each complaint report, with follow up actions often defined in revised reports. Key or repeat items of note are discussed below for the respective projects.		
Audits		
SM	No ER involvement in audit activity including Independent Environmental Audits (IEA program).	
Looking Forward – Core Focus Areas		
SM	<ul style="list-style-type: none"> ▪ Compliance review Q1 and Q2, 2020. 	

Statement of Limitations

Healthy Buildings International (HBI) has prepared this report in accordance with the requirements of Condition A24(l) of the Sydney Metro Conditions of Approval (CSSI 15_7400) and Condition A26(j) of the Sydney Metro Conditions of Approval (CSSI 17_8256). The report is for the sole purposes of Department of Planning Industry and Environment (DPIE) and Sydney Metro. It has been prepared based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this Report. This report did not assess any aspects relating to safety.

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