

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

7 September 2019

Ref: 170108-ER-DPIE-Aug19-SSJ CS NCW LW S2B

Dear Erica

Re: Sydney Metro City & South West - ER Monthly Report for August 2019 – CS, NCW, SSI, LW and S2B

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), MOD3_Martin Place Metro Station (22 March 2018), MOD5_Blues Point Acoustic Shed (2 November 2018) and MOD6_Administrative Changes (21 February 2019);
- Condition A26(j) of the Sydney Metro Sydenham to Bankstown Upgrade SSI_8256 Approval (12 December 2018).

The attached summary details the following key activities undertaken by ERs for Sydney Metro – City and South West Chatswood to Sydenham (C2S) during the month of **August 2019** for Sydenham Station Junction, Central Station, Northern Corridor and Line Wide Works.

It also provides a summary in relation to the Sydney Metro - Sydenham to Bankstown (S2B) for the same period.

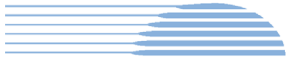
Yours sincerely

Jo Robertson
Environmental Representative

Sydney Metro Cc: Fil Cerone, Matt Marrinan, Ben Armstrong, Stuart Hodgson, Adam Koutsamanis, Margarita Ognjanovic, Andrew Hendy, Simon Fisher, Tim Solomon
DPIE Cc: Elizabeth Williamson, Ron Sherry, Alice Pryke
IEP Cc: Larry Weiss, Julie Dickson



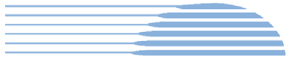
Summary of Contract Packages		Environmental Representative/s
Sydenham Station Junction (SSJ)		Alberto Paludetto
Central Station		Alberto Paludetto
Northern Corridor (NCW)		Peter Hatton
Line Wide (Tallawong to Bankstown)		Peter Hatton
Sydenham to Bankstown Sydney Metro Early Works (SMEW)		Jo Robertson
Key Construction Activities		
Sydenham Station Junction (SSJ)	<ul style="list-style-type: none"> ▪ Fraser Park Ancillary Facility ▪ Combined service route (CSR) Works area - Retaining wall construction and steel components delivery ▪ Inlet works area - Excavation of cables to complete CSR connection ▪ Burrows Ave - Installation of services, wiring, and post bridge beam installation ▪ 11 Sydenham Rd Marrickville - Removal, treatment, stabilisation and disposal of potential acid sulfate soil (PASS) is complete. Virgin excavated natural material (VENM) has been imported to raise the site to working level and this activity is ongoing ▪ Sydenham Pumping Station - Construction of the new access ramp continues. Construction of aqueduct support columns has commenced in the Pit ▪ Sydney Trains Geotechnical Office area is being used for temporary excavated material storage. Underline crossing (ULX) cable installation is ongoing in this area as well ▪ Bedwin Rd Marrickville - Drainage culverts and flood mitigation work is ongoing 	
Central Station	<ul style="list-style-type: none"> ▪ Archaeological clearance is completed in the Area 1A (Y tunnels to Metro Box) ▪ Construction of new secant piles to support the Devonshire Street Tunnel is complete ▪ Testing and commissioning of new wheel wash facility occurred in the last month ▪ Demolition of stairs has continued in upper Northern Concourse area to the lower Concourse ▪ At the Bounce Hotel, the access pad is in use at loading bay for trucks continuing to remove demolition debris. Demolition is ongoing ▪ Movement sensors have been placed in the Tunnel necessary to confirm stability of the structures whilst the Tunnel remains open to commuter use ▪ Track slab construction at the northern end of the Metro Box is ongoing ▪ Use of sprays for dust suppression is ongoing ▪ Mechanical and hand sieving excavated sand from former Devonshire Street Cemetery ▪ Operations of street sweeper and water cart on hardstand areas ▪ Installation of vapour wells has occurred. Sampling of vapour wells yet to occur. Additional core sampling has occurred in vicinity of the potential gasworks facility ▪ Temporary guard room pods installed. Construction of an edge beam on each platform and platform reinstatement 	
Northern Corridor Works (NCW)	<ul style="list-style-type: none"> ▪ Artarmon and Chatswood – 3rd August possession: <ul style="list-style-type: none"> ○ Removal of existing Galvanised steel troughing (GST) posts and spoil removal ○ Demolition of Nelson St central pier footings, stockpile management and removal ○ Overhead wiring adjustment works ○ On site detention spillway construction ○ Combined service route works ○ Drainage and underline crossings ▪ Final possession for 2019 is scheduled for WE 12 from 21 to 23 September 	
Line Wide	<ul style="list-style-type: none"> ▪ Site establishment activities at SMTF including establishment of the site compound, installation of erosion and sediment controls and preparation of the car parking area 	
SMEW	<ul style="list-style-type: none"> ▪ Laydown ▪ CSR - GST installation both sides of Livingstone Road Bridge, and past Mc Neilly Park area and at number of other locations in the corridor ▪ Establishment for the Under road crossing (URX) at Abermarle Street ▪ Revegetation activities between Canterbury and Campsie Stations ▪ Retaining Wall 2 (North and South Parade) Campsie - Recent works, including revegetation activities conducted the WE 10 possession works, were evident. Geofabric applied to exposed 	



	earth batters at the western end of the Zone 13 towards Campsie Station
ER Inspections	
SSJ	There were two inspections conducted by the ER in August 2019. Issues identified during inspections involved the potential for dust migration off site during windy weather (early August inspection, EPA in attendance) and concrete waste management. Regarding dust it was identified that the Sydenham Pit was dry and ready to receive catchment runoff. Ongoing, the strategy to manage this will be to keep the material wet, either by use of water cart or leaving a residual amount of water in the Pit post rain events. Regarding the concrete, the contractor should ensure concrete washout is contained in bags then removed as is standard practice.
Central Station	There were two ER inspections conducted in August 2019. Key issue identified during inspections was that confirmation is required to confirm that the output of the water treatment plant operation is compliant to water quality parameters (EPL and water quality monitoring program requirements).
NCW	There was one ER inspection conducted in August 2019. Issues identified during inspections included the lack of velocity controls or sediment containment devices to reduce sediment discharge velocity and reduce the risk of mud tracking onto Brand Street.
Line Wide	There was one inspection in August 2019. The key issue discussed was the management of water on site given the complexity of overlapping boundaries with the operation of the Metro Train Services (MTS) facility and ongoing finishing works for Sydney Metro.
SMEW	There were two ER inspections conducted in August 2019. Issues identified during inspections included the de-vegetation activities between Campsie and Canterbury, maintenance of ground cover controls (ie: pin down geofabric), correct coverage of drain grates, materials in drip lines.
Endorsed Document/s	
SSJ	<ul style="list-style-type: none"> ▪ Q2 2019 CTR
Central Station	<ul style="list-style-type: none"> ▪ Nil
NCW	<ul style="list-style-type: none"> ▪ Q2 2019 CTR
Line Wide	<ul style="list-style-type: none"> ▪ Artarmon/Willoughby - Bulk power Supply Early Works Investigation Survey MWA005 ▪ Campsie/Canterbury - Early Works Services Investigation Survey ▪ Consistency Assessment – Bulk Power Supply (BPS) Route from Canterbury to Campsie ▪ Q2 2019 CTR
SMEW	<ul style="list-style-type: none"> ▪ Southwest Metro Design Services OOHW Application #001 Rev 2 ▪ Southwest Metro Design Services (SMDS), Metron T2M, General site-wide minor works application – September/October and WE19 (Rev 04)
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.	
SSJ	<p>Complaints for this site during the period included:</p> <ul style="list-style-type: none"> ▪ Dust and noise from heavy vehicles using stockpile site (Way St Marrickville) ▪ Noise and littering during approved notified night works ▪ Dust generation during very high wind conditions <p>There were no incidents for SSJ reported to the ER under conditions A41 to A44 of SSI 7400.</p>
NCW	<p>12 community complaints were received during the month. All were related to noise and vibration and 7 of them were reported during a possession on weekend 5. One was a complaint to the EPA about works near Hopetoun Avenue. The matters were investigated by Sydney Metro and closed out.</p> <p>The OSD Spillway Investigation report was provided to the ER on 15 August.</p> <p>There were no incidents for NCW reported to the ER under conditions A41 to A44 of SSI 7400.</p>



Central Station	<p>10 complaints were received for this site during the period including:</p> <ul style="list-style-type: none"> ▪ Saw cutting noise was recorded as impacting a resident in building on Chalmers St. Work was stopped while additional noise blankets were installed. Program changed so work will now occur from 8pm-midnight. Further, an alternative saw has been procured. Monitoring was carried out. ▪ A local business complained of demolition work taking place on adjoining wall. LOR instructed the subcontractor to cease work during peak business trading period. LOR attended site to confirm work had stopped. LOR will ensure respite observed and will keep complainant informed of work progress. ▪ A complaint was regarding LOR carrying out allowed work at peak AM on the northern concourse. LOR continue to work with Sydney Trains and Sydney Metro to find a balanced solution for work in the area. ▪ A complaint regarding noise generated when the piling machine was cleaning the auger. It was determined that the machine was being used correctly and within approved work hours. ▪ A complaint regarding noise and vibration impacts to a business. Noise and vibration monitoring was undertaken and a summary report issued to building management. ▪ A local business cancelled yoga lesson due to planned power outage as part of works. LOR had notified the business in advance. ▪ Complaints received concerning dripping water, smoke from generator blowing onto platform, a non project related humming noise, and housekeeping at worksite. <p>There were no incidents for Central reported to the ER under conditions A41 to A44 of SSI 7400.</p>
Line Wide	No incidents, non compliances or complaints.
SMEW	<p>There were three complaints which included concerns about noisy works, tree de-vegetation and visual aspects of the galvanised steel troughing .</p> <p>There were no incidents reported to the ER under conditions A36 of SSI 8256. There were emergency works conducted on the 14 August. The ER was notified as required under E21.</p>
Audits	
SSJ	<p>ER attended an internal JHLOR audit (29/08/19)</p> <p>No ER involvement in any Independent Environmental Audits (IEA program).</p>
NCW	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
Central Station	No ER involvement in audit activity including Independent Environmental Audits (IEA program).
SMEW	<p>SSJ ER attended an internal JHLOR audit (29/08/19)</p> <p>No ER involvement in any Independent Environmental Audits (IEA program).</p>
Line Wide	No ER involvement in audit activity. No Independent Environmental Audits (IEA program).
Looking Forward – Core Focus Areas	
Sydney Metro	<ul style="list-style-type: none"> ▪ Compliance review for Q1 and Q2 for 2019
SSJ	<ul style="list-style-type: none"> ▪ Flood management and the flood report compliance ▪ Construction of new ramp, access platform and pump house update at Sydenham Pit ▪ Protection and relocation of sewer and water utilities ▪ Communications relocation works
NCW	<ul style="list-style-type: none"> ▪ Management of noise and vibration during possession works in light of numerous complaints ▪ Management of sediment movement and mud-tracking off-site ▪ Management of project vehicle parking
Central Station	<ul style="list-style-type: none"> ▪ Archaeological investigation beneath slab at 28 Chalmers St beneath slab for Central Walk and Eastern Entrance. ▪ Development of the Heritage Interpretation Plan.



Line Wide	<ul style="list-style-type: none">▪ Planning for early investigations including BPS routes from Campsie to Canterbury, Surry Hills to Waterloo and Artarmon to Willoughby.▪ Strategy for delivery of multiple approvals.▪ Endorsement of early works and OOHW applications▪ Input and endorsement as required to pre commencement approval documentation.▪ Occupation of SMTF (North) construction site and commencement of erection of site buildings, construction of car park/laydown area and construction of ERSED works including a new sediment treatment pond .▪ Cumulative impacts from adjacent projects
SMEW	<ul style="list-style-type: none">▪ Temporary road closure works (Various)▪ Erosion and sediment control between Campsie and Canterbury Stations.▪ Approval of OOHW under the OOHW Protocol.▪ Works conducted during possession under the Sydney Trains Environment Protection Licence (EPL).