

HBI

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Department of Planning Industry and Environment  
Locked Bag 5022  
PARRAMATTA NSW 2124

7 March 2023

Ref:201208-ER\_DPE-February 2023

Dear Rob

**RE: Sydney Metro - Sydney Metro West SSI - ER Monthly Report for February 2023**

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

- Condition A30 (k) of the Sydney Metro West, Concept and Stage 1 SSI 10038 Approval (11 March 2021), and associated modifications (MOD 1 - 28 July 2021, MOD 2 - 3 June 2022, MOD3 – 4 July 2022 and MOD4 - 23 December 2022); and
- Condition A32(k) of the Sydney Metro West – The Bays to Sydney CBD SSI 19238057 Approval (24 August 2022).

The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro – Sydney Metro West for the month of February 2023.

Yours sincerely

Greg Byrnes  
Environmental Representative

Cc:

Sydney Metro: Matthew Marrinan, John Ierokis, Pamela Tummers, Andrew Hendy, David Virtue, Ari Stypel  
Contractors: Joshua Maltese (Quick way), Jared Lipton (AFJV), Tahlia Moore (Transport for Tomorrow), Steph Mifsud (GLC), Sally Reynolds (JCG)  
DPE: Major Projects Portal



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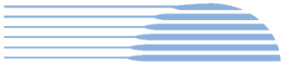


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## **1 PHASE A - POWER ENABLING WORKS**

The Environmental representatives for Phase A of Sydney Metro West are:

- Michael Woolley
- Greg Byrnes

Phase A - Power Enabling Works (PEW) is being delivered by Quickway.

Quickway are not required to hold an Environmental Protection Licence for these works.

### **1.1 Key Construction Activities During the Period**

- Sites held by Quickway had been handed over to SM during the October 2022 reporting period.
- Works conducted by Quickway during the month of February 2023 comprised continuation of road restoration works in Darling Street; Merton Street; Robert Street and other streets in Rozelle. It is understood that as of the date of this report only line marking of some streets was still to be undertaken.

### **1.2 Key Construction Activities Look Ahead**

- Line marking where road restoration works has been completed is planned in March 2023.

### **1.3 ER Inspections**

No ER Inspections were conducted during the reporting period as road restoration works were nearly complete. No further ER Inspections are planned for Quickway works.

#### **1.3.1 Photos**

There were no ER Inspections held, therefore no photos were obtained during the reporting period.

### **1.4 Endorsed Documents**

The following updated document were endorsed during the reporting period:

- OOHW-013(b) – Final Road Restorations – Various Locations (Mullens and Robert Street) Rev 6 dated 3-2-23;
- OOHW-014- Darling Street Restoration Works (Rev 2.0) covering line marking works along Darling Street and Merton Street in February 2023.

### **1.5 Complaints**

Based on weekly Sydney Metro Complaint Registers provided, no complaints relating to PEW activities were reported during the month.

It is understood that some property damage claims are currently being reviewed by Sydney Metro.



## **1.6 Compliance**

### **1.6.1 Incidents**

No incidents were reported as per A43 of the Conditions of Approval for SSI 10038 for works conducted under the project approval during the reporting period.

### **1.6.2 Non-compliance**

No Non-Compliance Reports (NCRs) were issued by the Contractor during the reporting period. No events were observed by the ER that were formally determined to represent a non-compliance.

### **1.6.3 Audits**

No audits were conducted during the reporting period.

## **1.7 Looking Forward – Core Focus Areas**

Nil, given works completed except for line marking.



## 2 PHASE B - CENTRAL TUNNELLING PACKAGE

The Environmental representatives for Phase B of Sydney Metro West are:

- Michael Woolley
- Jo Robertson

Phase B – Central Tunnelling Package (CTP) is being delivered by Acciona Ferroviol Joint Venture (AFJV). Phase B of Sydney Metro West has been further broken into:

- Phase B1: Civil works
- Phase B2: Tunnelling works

The AFJV hold EPL 21610 for this Phase of works. Activities defined as Phase B2-Tunneling Works in the Staging Report for Metro West commenced during the November 2022 reporting period at Burwood North.

### 2.1 Key Construction Activities During the Period

#### The Bays

- Ongoing operation of the Construction WTP.
- Ongoing use of the haul road for WCX vehicles to access their site without going through the footprint of the station box.
- Ongoing Form Reo Pour (FRP) for spoil shed slab, footings and walls. Some of these works has been conducted OOHs.
- Ongoing excavation of the station box involving use of rock hammers. Removal of spoil from the station box using long reach excavators. Completion of drilling and stressing of rock anchors within the station box. Completion of excavation in the eastern end of the station box. Concrete slab construction and TBM rail construction in the eastern end of the station box to prepare for TBM assembly in the station box.
- Ongoing construction of the Segment Shed frame over the station box using multiple cranes.
- Site offices and compound in operation.
- Stockpiling and load out of spoil from site during extended work hours.
- Construction (trenching) of the TBM water supply pipeline along Robert Street using the former Quickway compound as a laydown area. Much of this work was OOHs.

#### Five Dock

- West shaft: Construction of capping beams and general concreting works for slabs and footings. AFJV advised that they now plan to construct a noise wall around the site (as per the original acoustic shed), however do not plan to construct the high walls and roof of the shed. Further details are still to be provided. Commencement of excavation of the shaft.
- East Shaft: Completion of installation of panels on the shed walls and roof. Drilling and placement of rock anchors around the shaft. Ongoing excavation of the shaft and loading of trucks off site. Use of a house on Waterview Street adjacent the eastern shaft site leased from Council.
- Utilities works in local streets such as water pipe and Ausgrid works in Great North Road.

#### Burwood North

- Shotcreting and wall support activities for the adit during evening period under EPL OOHs permit. Lining of the tunnel.
- Ongoing excavation of the crossover cavern at the western end of the Station Box by road header.



- Ongoing excavation of the station box; stockpiling and load out off site of excavated materials. Wall support such as rock anchor installation. Ongoing construction of the acoustic shed over the station box including installation of acoustic panels.
- Use of truck egress to Parramatta Road.
- Operation of the Water Treatment Plant.
- Use of multi storey site offices.
- Various site establishment activities across the site.
- South Shaft: Completion of construction of piling pad using shale excavated from the north shaft. Piling activities with approximately half of the piles completed.

### **North Strathfield**

- Ongoing piling activities on the upper side of the station box.
- Capping beam construction on the lower side of the station box.
- Utility and traffic related works in the vicinity of the station box and general area.
- Road alteration and pedestrian crossing works on Queen Street.
- Use of footpath on south side of Queen Street on recently constructed concrete pavement. Soon to be closed when pedestrian crossings are completed across Queen Street.
- Ongoing construction of concrete pavement for future loading area along Queen Street adjacent the site.

### **Sydney Olympic Park**

- Ongoing excavation of the station box using a ripper on a dozer and excavators; drilling; installing and testing rock anchors; shotcreting of walls. Load out of spoil from site using truck and dogs.
- Use of site exit including weighbridge and wheel wash (as deemed to be required) to Figtree Drive. Heavy vehicles entering from Herb Elliot Av.
- Project Office Operating.

Various utility and other works out of hours at most sites.

## **2.2 Key Construction Activities Look Ahead**

- Ongoing activities as described above. Various OOHWs relating to services; road signs and signals, hoarding installation etc at many sites. Activities such as site investigations; utilities related works and site establishment.
- TBM water supply works in Rozelle along Robert St and other streets.
- Electrical works at kiosks on Herb Elliot Ave at SOP

## **2.3 ER Inspections**

There were four ER inspections conducted by the ER on each Thursday in February 2023, with the Bays being inspected weekly and other sites on an alternating basis. Key issues raised during the inspections included:

### **The Bays:**

- ERSED control maintenance at the Spoil Shed construction area and under site sheds
- Adequacy of ERSED controls/capacity at the low point sump
- Repair washout section at WBPS drain and install adequate ERSED controls
- Secondary containment for chemicals at various locations

### **Five Dock:**





- Inadequate containment and management of truck wheel wash water
- Maintenance and adequacy of ERSED controls at the low point of the site
- Road repair required outside East Shaft acoustic shed exit point
- Gap under hoarding in NE corner of east acoustic shed leading to noise leakage, particularly from generator in use in the shed in this corner
- Construction vehicles parking in No Stopping zones on Great North Road and Waterview Street.

#### Burwood North:

- Secondary containment for chemicals
- Road repairs required on Burton and Loftus Streets
- Maintenance and adequacy of ERSED controls in area adjacent Parramatta Road
- Stabilisation of unsealed areas adjacent Parramatta Road
- Dust generation at the south shaft during construction of piling pads
- The potential for noise from scrubbers if they were to be used at night time without completion of the acoustic shed. It was understood from AFJV that the scrubber has not been used OOHs and that a revised DNVIS that considers use of the scrubber in the station box OOHs would be provided prior to the scrubber being used OOHs.

#### North Strathfield

- Adequacy of ERSED controls/capacity at low point drain – removal of mud slurry in this area
- Dust generation during dry periods

#### SOP

- Dust generation on roads near the site

#### 2.3.1 Photos



Figure 2 1 Ongoing large concrete pours for the Spoil shed foundations and wall supports (The Bays)



Figure 2 2 Concreting works at the base of the station box – western end (The Bays).



Figure 2-3 Commencement of tunnelling for the cross over cavern at the western end of the station box (Burwood North). Ongoing lining works in the adit.



Figure 2-4 Installation of panels for the acoustic shed (Burwood North)



Figure 2-5 Ongoing excavation of the eastern shaft within the acoustic shed (Five Dock-east).



Figure 2-6 Commencement of excavation of the west shaft (FD). Load out of spoil.

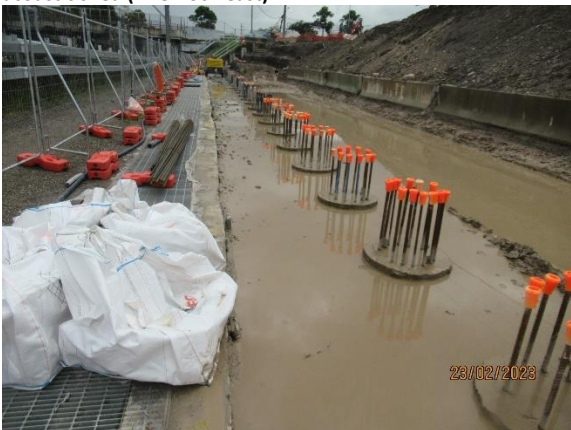


Figure 2-7 Capping beam construction on the lower side of the station box at North Strathfield



Figure 2-8 Ongoing excavation of the Station Box using dozers and excavators (SOP)

#### 2.4 Endorsed Document/s

- OOHW 200 FD Sydney Water utilities Great North Road
- OOHW 177 NS Queen St Upgrade (Rev 1)
- OOHW 259 SOP Electrical Kiosk works



## **2.5 Complaints**

Based on a monthly Sydney Metro Complaint Registers provided for February 2023, there were 25 Complaints relating to AFJV activities reported during the month. Six of the complaints were related to the Burwood North site comprising: OOHWs (1); haulage routes (2); noise during standard hours (1); dust (1); and worker behaviour (1). Fifteen complaints at Five Dock related to: OOHWs (11), including related concerns about volume and nature of upcoming night works and related impacts; daytime noise; worker behaviour; lack of engagement; and vibration. Four complaints at North Strathfield related to: driveway access blocked (not related to AFJV works); worker parking; worker behaviour; and noise from OOHWs.

## **2.6 Compliance**

### **2.6.1 Incidents**

No incidents considered to represent Incidents as defined under the Project Approval were reported to or observed by the ER.

One incident was reported to the ER under the SM Incident Reporting System for a diesel spill at the Bays site. AFJV reported that the spill was contained on site with the majority of the spill contained in the wheel wash.

### **2.6.2 Non-compliance and Potential Non Compliance**

The following Non-Compliance Reports were provided to the ER for the reporting period:

- NCR 013: The report related to rock drilling using percussion techniques observed during the ER Inspection on 19<sup>th</sup> January at Burwood during the nominated respite period. This event has already been reported in the January ER Monthly Report.
- NCR 014: The report identified that spoil haulage trucks booked for spoil disposal from Burwood North and South used a haul route that was not approved for project haulage.
- NCR 015: The report identified that a loose road plate required emergency works to re-seat the plate at Robert Street (The Bays); and that the required process to notify of the emergency works was not followed under Condition D37a.

The ER has previously reviewed and made comments on the Six-Monthly Monitoring report for the period Jan-June 2022, noting that not all the required information as described in the relevant Monitoring Programs is considered to be contained in the monitoring report. AFJV has issued the Six-Monthly Monitoring Report for the July to December 2022 to DPE. This is currently under Sydney Metro and ER review.

ER actions have included parking of construction vehicles in No Stopping zones at Five Dock. AFJV has provided responses to this issue that are under review.

One complaint related to a street sweeper operating prior to 8:00am on a Saturday morning at the Five Dock site. AFJV have stated that use of the street sweeper at this time was conducted as part of spoil haulage activities. It is understood that AFJV will avoid use of the street sweeper prior to 8:00am on a Saturday morning.

It is understood there are ongoing communications within the project and also with DPE regarding the upload of documents required under the approval to be placed on the website under Condition B11. Currently there are various documents required under the approval that are yet to be placed on the project website.

### **2.6.3 Audits**

It is understood that the third Independent Environmental Audit (IEA) related to the CTP scope of works is still to be scheduled.



## **2.7 Looking Forward – Core Focus Areas**

- Dust generation at all sites during dry weather
- Dirt Tracking onto roads from all sites
- Water Management and ERSED Management specifically at Burwood North, as well as generally at the other sites
- Noise and Vibration management at Five Dock
- Construction Parking around various sites





### **3 PHASE C - EXISTING RAIL CORRIDOR ENABLING WORKS**

The Environmental representatives for Phase C of Sydney Metro West are:

- Greg Byrnes
- Jo Robertson

Phase C – Existing Rail Corridor Works (Brownfield Works) is being delivered by Transport for Tomorrow (TfT).

Transport for Tomorrow are not required to have an EPL for these works.

#### **3.1 Key Construction Activities During the Period**

##### **Westmead:**

- During the WE34 (18-19 Feb 2023) TfT progressed with the removal of aerial cables and poles within the rail corridor. This work required the closure of Alexandra Avenue from Bridge Street, Westmead to Pitt Street, Parramatta, power outages and bus relocations.
- Ongoing installation of low voltage containment and pulling and commissioning of cables on Westmead Platform Canopy and concourse. These works were conducted during night periods between 6pm and 7am during off-peak train times.

##### **North Strathfield:**

- During the WE35 (25-26 Feb) TfT undertook the Pole 14 termination, installation of Pole 14A and 14S, installation and commissioning of cables between Pole 14 and 14A. These works required Traffic management along Queen Street and Gracemere Street
- Delivery of Pole 71S, excavation hole for Pole 71s and backfill.

#### **3.2 Key Construction Activities Look Ahead**

##### **Westmead:**

- WE40 (1-2 April 2023): LV Commissioning and Omission closeout and hand over
- Ongoing installation of low voltage containment and pulling and commissioning of cables on Westmead Platform Canopy and concourse.

##### **North Strathfield:**

- OOH WE38 (18-19 March 2023): Need M4 and Parramatta Rd occupancy, 11kV Jointing and Commissioning, Pole 71S installation and Connection, 11kV and 33kV Aerial removals, Pole Removals and Pole Modifications Poles 1-14

#### **3.3 ER Inspections**

One ER inspection was conducted in February 2023 (18/02/2023). This inspection was undertaken during OOH on being undertaken on Saturday night at Westmead. The ER Inspection focused on the implementation of the OOHW Permit – Westmead WE34. No actions were raised during the site inspection.

An ER Inspection is scheduled for the upcoming works at North Strathfield on the WE38 (18-19 March 2023).

### 3.3.1 Photos

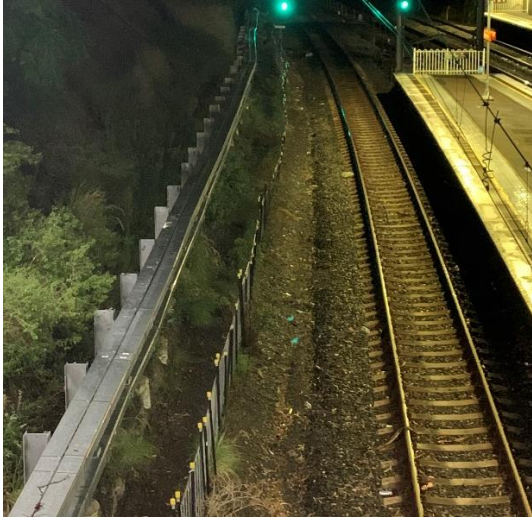


Figure 3.1: Westmead Station – New GST installed



Figure 3.2: Westmead Station– cables and insulators being removed

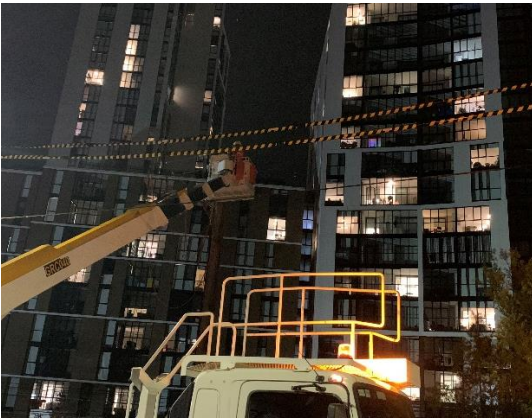


Figure 3.3: Westmead Station– cables and insulators being removed



Figure 4.4: Westmead Station– Community signed

### 3.4 Endorsed Documents

The following OOHW Permits were endorsed by the ER during the reporting period:

- Tft SMW Enabling Works – OOHW Permit – Westmead WE34 Rev B endorsed on the 12/2/2023.
- Tft SMW Enabling Works – OOHW Permit 018 – Westmead Mid-week Platform Works Rev E endorsed on the 24/2/2023.
- Tft SMW Enabling Works – OOHW Permit – North Strathfield WE35.36 Rev A endorsed on the 24/2/2023

### 3.5 Complaints

Based on the complaints register provided to the ER, no complaints were received during the period related to the Existing Rail Corridor Enabling Works being undertaken by Tft.



### **3.6 Compliance**

#### **3.6.1 Incidents**

No incidents were reported as per A43 of the Conditions of Approval for SSI 10038 for works conducted under the project approval during the reporting period.

#### **3.6.2 Non-compliance**

No Non-Compliance Reports (NCRs) were issued by the Contractor during the reporting period. No events were observed by the ER that were determined to represent a non-compliance.

#### **3.6.3 Audits**

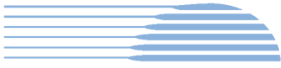
No audits were conducted during the reporting period. The ER conducted Interim Compliance Review reported in October was ongoing.

### **3.7 Looking Forward – Core Focus Areas**

The Tft project team continues to be a highly responsive team and are proactively managing their environmental compliance and approvals.

Key items moving forward continue to remain include:

- Works moving towards completion across ongoing possessions.
- Implementation of the CEMP and other Construction documentation required under the SSI approval.
- Ongoing cumulative interface with AFJV and GLC at North Strathfield and Westmead, respectively.
- Management of OOH at Westmead and North Strathfield



## 4 PHASE F – WESTERN TUNNELLING PACKAGE

The Environmental Representatives for Phase F of Sydney Metro West are:

- Greg Byrnes
- Swathi Gowda

Phase F – Western Tunnelling Package (WTP) is being delivered by Gamuda Australia Laing O’Rourke Consortium (GLC).

GLC are constructing this Phase of Sydney metro West under EPL 21676.

### 4.1 Key Construction Activities During the Period

Construction activities are continuing at multiple sites across the WTP with the excavation of the TBM Launch box at Rosehill, excavation of station box at Westmead and Guide Wall construction at Parramatta. The following activities were undertaken at the Westmead, Parramatta, Rosehill, Clyde Dive and Clyde MSF sites during February 2023:

#### Westmead

- Station box piling works completed and excavation starting.
- The Parramatta to Westmead HV cable conduit installation is continuing outside approved construction hours under the EPL provisions.
- Establishment of long-term office and facilities
- Spoil Stockpile management including storage, classification and removal from site.

#### Parramatta

- Archaeological investigations on the Church Street sides of the site
- Sewer relocation from inside the station box to outside continuing.
- Spoil Stockpile management including storage, classification and removal from site.
- D-wall and Bentonite Plant preparation including Bentonite Plant bunded area.
- Shared Access Road construction.

#### Clyde Dive

- Haul road and pedestrian access construction, this involves earthworks and concrete pavement.
- Shaft excavation is complete with final shotcreting works continuing.
- Spoil management including movement around site, stockpiling, segregation and classification. Spoil is being transferred to the Clyde MSF by Moxy and crossing Unwin Street
- Acid Sulfate Soil storage and treatment areas
- Acoustic shed construction
- The construction of the noise wall between the ATC and Clyde Dive has been completed.

#### Rosehill

- Excavation of TBM launch box.
- Spoil management including segregation, classification, and disposal. This includes the treatment of Acid Sulfate Soil
- Temporary Water Treatment Plant operation with discharge to Duck River
- Construction of Spoil Shed continuing.
- Long term water treatment plant mobilisation and assembly.





## Clyde MSF

- Water main and utilities trenching adjacent to the M4 on hold due to unexpected contamination find
- Piling for the water conveyance structure on both sides of Kay street and former Downer site.
- Spoil management including segregation, classification and disposal, including Acid Sulfate soil treatment.

### 4.2 Key Construction Activities Look Ahead

The key construction activities planned for March 2023 are similar to those listed in Section 4.1.

### 4.3 ER Inspections

Five ER inspections were conducted in February 2023 (1/02/2023, 8/02/2023, 15/2/2023, 22/2/2023 and 28/02/2023). A total of 115.6mm of rain fell during February 2023. Two rainfall events triggered additional site inspections (14/2/23 22.4mm and 21/2/2023 61mm). The ER Inspections following these events focused on the implementation of the PESCPs. In total 20 actions were raised across the WTP in February. The key issues were Acid Sulfate Soil management and implementation of PESCPs.

The actions and key issues raised at the inspections were:

- **Rosehill** – The Rosehill site is being managed adequately, with spoil management especially ASS is continuing to be a focus area for GLC and the ER at the Rosehill site. Five actions were raised for Spoil management including ASS and one for chemical storage.
- **Clyde MSF** - This site is being managed well with sediment controls being the key focus area for this site. Five actions raised, two for chemical storage and three for sediment controls.
- **Parramatta** – This site is being managed well with no major environmental issues. Two actions were raised, one for spoil management and one for noisy plant.
- **Westmead** – The Westmead site is being managed well with no actions raised.
- **Clyde Dive** – This site is being managed well with sediment controls being the key focus area for this site. Six actions raised, four for sediment controls, one for tree protection and one request for noise monitoring.

#### 4.3.1 Photos



Figure 4.1: Westmead Site – Water accumulated on site to be transferred to onsite tanks, then to offsite water treatment



Figure 4.2: Westmead site – Station box excavation has commenced



Figure 4.3: Parramatta Site – archaeology investigations adjacent to Church Street



Figure 4.4: Parramatta Site – D-wall excavation



Figure 4.5: Clyde Dive site – Acoustic shed construction



Figure 4.6: Clyde Dive site – Spoil shaft completed



Figure 4.7: Clyde Dive – Noise wall along ATC boundary completed



Figure 4.8: Clyde Dive – Tree protection requested





Figure 4.9: Rosehill – TBM launch excavation, water treatment plant and Spoil shed



Figure 4.10: Rosehill – Spoil shed



Figure 4.11: Clyde MSF – waste and spoil storage

#### 4.4 Endorsed Documents

No documents were endorsed by the ER during the reporting period.

#### 4.5 Complaints

Six complaints related to the WTP were provided to the ER during February 2023.

- **Westmead** – Four complaints; one complaint (27/2/2023) related to a truck driving erratically on Parramatta Road with project identification. One complaint (22/2/2023) related to a trip hazard outside the site and two complaints regarding the HV works occurring out of hours. All complaints have been adequately addressed.
- **Clyde MSF** – A complaint (6/2/2023) was received regarding flooding of a property on A'Beckett Creek. Following an investigation, a significant rain event occurred on the 31/2/2023 and the project and projects works have not impacted flooding. This complaint has been escalated to Sydney Metro
- **WTP** – A complaint (8/2/2023) was received with regard to geotech drilling in Hassell Street Parramatta. This complaint was adequately investigated and closed out.

#### 4.6 Compliance

##### 4.6.1 Incidents

One incident was reported to the ER under the SM Incident Reporting System during February.

- On the 2/2/2023 several skip bins and oil drums were identified being illegally dumped within the site premise and that some 44-gallon drums were leaking a thick oily substance in close proximity to a surface water drain. Spill clean-up material was immediately deployed to avoid off site pollution. The EPA and Parramatta City Council was notified.

##### 4.6.2 Non-compliance

Two Non-compliance occurred during the reporting period related to WTP works.



- On the 8/2/2023 While completing the HV works along Park Parade, a GLC contractor has placed spoil material onto the surface of the adjacent park area. When the spoil was removed a small section of the surface in the park area was disturbed. Parramatta Park is a State significant heritage site. GLC engaged a heritage specialist to investigate and advised that no heritage impact occurred. This is a non-compliance with Section 7.2 of the Heritage Management Plan.
- On the 20/2/2023 a concrete pour, supporting capping beam works, continued outside of standard construction hours. The concreting activities were being undertaken without an approved out of hours permit. This is a non-compliance with Section 6.4.3 of the Project's Noise and Vibration Management Plan and therefore also under Ministers Conditions of Approval (MCoA) D35 and D37(c)(i). No complaints related to this event were received by the ER.

#### **4.6.3 Audits**

No audits were undertaken during the reporting period.

#### **4.7 Looking Forward – Core Focus Areas**

GLC are managing their environmental risk and compliance adequately. The ER inspections and compliance monitoring focused on the implementation of Progressive Erosion and Sediment Control Plans and ASS treatment and storage.

The core focus areas for the coming month are:

- Noise management, especially at Westmead and the Clyde Dive site
- Spoil management, especially the storage and stockpiling measures
- Acid Sulfate soil storage and treatment.





## 5 PHASE G - EASTERN TUNNEL PACKAGE

The Sydney Metro West Eastern Tunnel Package is Stage 2 of the Sydney Metro West CSSI and is described as major civil construction works between The Bays and Sydney CBD, including station excavation at Pyrmont and Hunter Street and tunnel excavation between the Bays and Hunter Street. Stage 2 (SSI 19238057) was approved on the 24 August 2022.

The Environmental Representatives for the Sydney Metro West Eastern Tunnel Package are:

- Michael Woolley
- Greg Byrnes
- Jo Robertson

The Eastern Tunnelling Package (ETP) is being delivered by John Holland CPB Ghella Joint Venture (JCG) with the contract being awarded in November 2022.

JCG are in the process of applying for a project EPL.

### 5.1 Key Activities During the Period

The JCG is currently working through the pre-construction project approval process and Low Impact Works (LIW) applications. Minor LIWs continued in February 2023 and comprised:

- archival recording
- Pre-Construction Surveys
- Investigations for the conduct of Geotechnical Boreholes
- CCTV investigations of sewer lines.

JCG and Sydney Metro met with key stakeholders such as City of Sydney Council as part of ongoing interface management and to discuss upcoming works.

The ER team received the following project documents in February and provided comments where required:

LIWs 04 Monitoring Points	CTMP Hunter Street East – Stage 2 - Demolition Rev 00
LIWs 03 Geotech and CCTV Survey	West Stage 2 – Phasing Report
LIWs 08 Geotech	Preliminary Site Investigation Pyrmont East (Contamination) and Sampling and Analysis Quality Plan
LIWs 05 Tree Removal and Utilities	
LIWs 09 Survey	Phasing Report - Revision 2.0 covering Phase G2
LIWs 04 Monitoring Points Rev A	Hydrogeological Interpretive Report (HIR)
DNVIS Preliminary Works Project Wide Rev 2	Flora and Fauna Management Plan Rev B
DNVIS LIWs Project Wide Rev 2	Spoil Management Plan Rev C
CNVMP Rev B and Monitoring Program Rev C	CNVMP Rev D and Monitoring Program Rev C
Spoil Management Plan Rev B	Heritage Management Plan Rev C
Heritage Management Plan Rev B	Air Quality Management Plan Rev B
CTMP The Bays Site Establishment Rev 00	Waste Management Plan Rev B
Sydney Metro OOHW Protocol Rev 3	

### 5.2 Key Construction Activities Look Ahead

Various LIWs are planned in March including:

- Installation of monitoring points on surrounding buildings
- Drilling of geotechnical boreholes
- Ongoing surveys as was completed in February.



- Undergrounding of power cables at Pyrmont which also involves removal of two trees.

Construction under the Preliminary CEMP is scheduled to commence in March 2023. Subject to approval of required documents, Construction under the CEMP is also planned to commence in March.

### **5.3 ER Inspections**

No ER inspections were conducted in February 2023.

#### **5.3.1 Photos**

As no ER inspections were conducted in February 2023, there are no relevant photos to present as part of this report.

### **5.4 Endorsed Document/s**

The following documents were endorsed by the ER during the reporting period:

- The Phasing Report – Sydney Metro West Stage 2-Phase G2 Rev 2.0
- Eastern Tunnelling Package: Heritage Management Sub Plan (Rev C)
- Eastern Tunnelling Package: Noise and Vibration Management Sub-Plan (Rev D) including the Noise and Vibration Monitoring Program
- Eastern Tunnelling Package: Spoil Management Sub-Plan (Rev C)

In accordance with CoA A32(d)iii the written statement endorsing the above document is provided in Appendix A.

### **5.5 Complaints**

One complaint related to the ETP was provided to the ER during February 2023:

- **Pyrmont Station** – An enquiry was received from a community member regarding parking removal, respite offers. The community member has been offered a face-to-face meeting.

### **5.6 Compliance**

#### **5.6.1 Incidents**

No incidents were reported to the ER under the SM Incident Reporting System.

#### **5.6.2 Non-compliance**

No Non-compliances occurred during the reporting period related to ETP works.

#### **5.6.3 Audits**

No audits were undertaken during the reporting period.

### **5.7 Looking Forward – Core Focus Areas**

In March 2023, the ER Team will be focused on finalising reviews and endorsing remaining Environmental Management Plans and other documentation as provided and assessing other relevant documents for compliance with the project approval requirements.

As JCG investigations, monitoring and construction activities continue and commence in March, ER Inspections will commence and continue in line with the risk related to these activities.



## **6 SYDNEY METRO RETAINED OBLIGATIONS AND OTHER ACTIVITY**

The Environmental Representatives for the Sydney Metro Retained Obligations and other Activities are:

- Jo Robertson
- Greg Byrnes

The Sydney Metro Retained Obligations and other Activities is being delivered by Sydney Metro with various sub-contractors delivering the works. These works do not require an EPL.

### **6.1 Key Construction Activities During the Period**

The ER is not aware for other Sydney Metro managed construction activities during the period.

### **6.2 Key Construction Activities Look Ahead**

The ER is not aware for other Sydney Metro managed construction activities during the period.

### **6.3 ER Inspections**

There were no ER inspections of this work during the reporting period.

#### **6.3.1 Photos**

None

### **6.4 Endorsed Document/s**

No Sydney Metro documents were endorsed during the reporting period.

### **6.5 Complaints**

No complaints have been reported to the ER in relation to the investigations previously conducted for Sydney Metro.

### **6.6 Compliance**

#### **6.6.1 Incidents**

No incidents have been reported to the ER in relation to the investigations previously conducted for Sydney Metro.

#### **6.6.2 Non-compliance**

No non compliances have been reported to the ER in relation to the investigations previously conducted for Sydney Metro.

#### **6.6.3 Audits**

No audits were conducted during the reporting period.





## **6.7 Looking Forward – Core Focus Areas**

A risk workshop is held monthly with the ERs and the Sydney Metro Environment team to discuss contractor performance, environmental risk and identify key focus areas for the upcoming month. This process is continuing.



## **7 STATEMENT OF LIMITATIONS**

Healthy Buildings International (HBI) has prepared this report in accordance with the requirements of Condition A30(k) of the Sydney Metro West, Concept and Stage 1 SSI 10038 Approval (11 March 2021), and Condition A32(k) of the Sydney Metro West – The Bays to Sydney CBD SSI 19238057 Approval (24 August 2022).

The report is for the sole purposes of Department of Planning and Environment (DPE) 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.

Where the Report indicates that information has been provided to HBI by third parties, HBI assumes no liability for any inaccuracies in or omissions to that information.

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HBI Healthy Buildings International Pty Ltd

## **8 APPENDIX A – ER DOCUMENT ENDORSEMENT RECORDS**

Mr Ben Armstrong  
Director Sustainability, Environment and Planning  
Metro West  
Sydney Metro  
PO Box K659  
HAYMARKET NSW 1240

17 February 2023

REF: 201208(G) HMP REV C

Dear Ben

**RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Heritage Management Sub Plan (Rev C)**

I refer to Sydney Metro's (SM) submission of the following document required by Condition C5 and C12 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 1923805) which was approved by the Department of Planning and Environment (DPE) on , 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Heritage Management Sub-Plan Rev C dated 17 February 2023 (SMWSTETP-JCG-SWD-SW000-EM-PLN-002015).

It is noted that:

- The Heritage Management Sub-Plan (HMP Rev C) has been prepared by AMBS Ecology & Heritage for John Holland CPB Ghella JV (JCG) to address the requirements of Condition C5(c) and C12 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.
- In accordance with CoA C5(c), consultation has been undertaken with the Heritage NSW, Place Management NSW (in respect of The Bays) and Relevant Council(s).

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 1923805) in relation to the Heritage Management Plan.

As the approved Environmental Representative for the Metro West and as required by Conditions A32(d) and C7, on the basis of the above, the Heritage Management Sub-Plan (Revision C) is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Greg Byrnes

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package  
CC: Ari Stypel, Matthew Marrinan, Ben Armstrong

Mr Ben Armstrong  
Director Sustainability, Environment & Planning  
Metro West  
Sydney Metro  
PO Box K659  
HAYMARKET NSW 1240

17 February 2023

REF: 201208(G) NVMP REV D

Dear Ben

**RE: Sydney Metro West Stage 2– Eastern Tunnelling Package: Noise and Vibration Management Sub-Plan (Rev D)**

I refer to Sydney Metro's (SM) submission of the following document required by Condition C5 and C16 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 1923805) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Noise and Vibration Management Plan Rev D 15 February 2023 (SMWSTETP-JCG-SWD-SW000-EM-PLN-002012).

It is noted that:

- The Construction Noise and Vibration Management Plan (NVMP Rev D) which includes the Noise and Vibration Monitoring Program, has been prepared by Renzo Tonin & Associates on behalf of John Holland CPB Ghella JV (JCG) to address the requirements of Condition C5(a), C14(a) and C16 of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.
- The NVMP, including the Noise and Vibration Monitoring Program, has been reviewed by the Acoustic Advisor.
- In accordance with CoA C5(a), consultation has been undertaken for the NVMP with the Place Management NSW (in respect of The Bays) and Relevant Council(s)
- In accordance with CoA C14(a), consultation has been undertaken for the Noise and Vibration Monitoring Program with the EPA, Place Management NSW (in respect of The Bays) and Relevant Council(s).

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 1923805) in relation to the Noise and Vibration Management Plan and Monitoring Program.

As the approved Environmental Representative for the Metro West and as required by Conditions A32(d), C7, and C19, on the basis of the above, the Construction Noise and Vibration Management Plan (Revision D) which includes a Noise and Vibration Monitoring Program, is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Greg Byrnes

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package  
CC: Ari Stypel, Matthew Marrinan, Ben Armstrong

Mr Ben Armstrong  
Director Sustainability, Environment and Planning  
Metro West  
Sydney Metro  
Transport for NSW  
PO Box K659  
HAYMARKET NSW 1240

20 February 2023

REF: 201208 (G) SPOIL\_Rev C

Dear Ben

**RE: Sydney Metro West Stage 2 – Eastern Tunnelling Package: Spoil Management Sub-Plan (Rev C)**

I refer to Sydney Metro's (SM) submission of the following document required by Condition C1 and C5 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 1923805) which was approved by the Department of Planning and Environment (DPE) on 24 August 2022:

- Sydney Metro West, Eastern Tunnelling Package Spoil Management Sub-Plan Rev C dated 20 February 2023 (SMWSTETP-JCG-SWD-SW000-EN-PLN-002019).

It is noted that:

- The Spoil Management Plan (SMP Rev B) has been prepared by John Holland CPB Ghella JV (JCG) to address the requirements of Condition C1 and C5(d) of the Infrastructure Approval.
- Previous versions of the document have been reviewed and updated following comments from the ER.
- Sydney Metro has reviewed and commented on previous versions of the document.
- In accordance with CoA C5(d), consultation has been undertaken with the Relevant Council(s).

Following the above reviews, the document is considered to contain information required by the Conditions of Approval (SSI 1923805) in relation to the Spoil Management sub-Plan.

As the approved Environmental Representative for the Metro West and as required by Conditions A32(d) and C7, on the basis of the above, the Spoil Management Sub-Plan (Revision B) is endorsed and considered appropriate for submission to DPE for their consideration for Approval.

Yours sincerely



Greg Byrnes

Environmental Representative – Sydney Metro West – Eastern Tunnelling Package  
CC: Ari Stypel, Matthew Marrinan, Ben Armstrong

Mr Ben Armstrong  
Director Environment, Sustainability and Planning  
Metro West  
Sydney Metro  
PO Box K659  
HAYMARKET NSW 1240

17 February 2023

Ref: 201208 STG2G2 PHASINGRPT REV2.0

Dear Ben

**RE: Endorsement of the Phasing Report – Sydney Metro West Stage 2-Phase G2 Rev 2.0**

Thank you for providing the *Sydney Metro West Stage 2 – Phasing Report Phase G2, Rev 2.0, February 2022* for Environmental Representative (ER) required by Condition of Approval A14 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 1923805, 24 August 2022).

In the development of this report, as ER I have provided comment on the previous versions of the Phasing Reports with respect to the risk assessment required under A14(d) and how it informs Conditions C2, C7 and C18. In particular, the risk context, the level of inherent risk, and the level of likely mitigated risk post implement of various system controls, as well as the proposed application of the CEMF framework commensurate with risk.

Revision 1.0 (considering Phase G1) was presented to the Department of Planning and Environment (DPE) with comments sought. Feedback was received from DPE on the 19 January 2023. This Revision 2.0 of the Phasing Report has been amended to incorporate Phase G2 of the Sydney Metro West Stage 2.

It should be noted that the ER review of risks and the allocation of requirements is based on information known to the ER at the time of review and may be subject to update as the project evolves.

As an approved ER for the project under Condition A10, in accordance with Condition A32(d), I endorse this document as consistent with the requirements under the Approval and is appropriate for submission to the Planning Secretary.

Yours sincerely



Jo Robertson  
Environmental Representative – Sydney Metro