

Healthy Buildings International Pty Ltd A.C.N. 003 270 693 A.B.N. 39 003 270 693 Suite 2.06, Level 2 29-31 Solent Circuit Norwest NSW 2153

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

Mr Rob Sherry Team Leader Compliance – Government Projects Department of Planning and Environment Locked Bag 5022 PARRAMATTA NSW 2124 5 May 2023 Ref:201208-ER\_DPE-April 2023

Dear Rob

### RE: Sydney Metro - Sydney Metro West SSI - ER Monthly Report for April 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 April 2023.

Yours sincerely

Greg Byrnes Environmental Representative

Cc:

Sydney Metro: Matthew Marrinan, John Lerokis, Pamela Tummers, Andrew Hendy, David Virtue, Ari Stypel, Ben Armstrong, Sarah Kemp Contractors: Jared Lipton (AFJV), Tahlia Moore (Transport for Tomorrow), Steph Mifsud (GLC), Sally Reynolds (JCG) DPE: Major Projects Portal

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# **Table of Contents**

1	Phas	e B - Central Tunnelling Package	4
	1.1	Key Construction Activities During the Period	. 4
	1.2	Key Construction Activities Look Ahead	. 5
	1.3	ER Inspections	. 5
	1.3.1	Photos	. 6
	1.4	Endorsed Document/s	. 7
	1.5	Complaints	. 7
	1.6	Compliance	. 8
	1.6.1	Incidents	. 8
	1.6.2	Non-compliance and Potential Non Compliance	. 8
	1.6.3	Audits	. 8
	1.7	Looking Forward – Core Focus Areas	. 8
2	Phas	se C - Existing Rail Corridor Enabling Works1	10
	2.1	Key Construction Activities During the Period	10
	2.2	Key Construction Activities Look Ahead	10
	2.3	ER Inspections	10
	2.3.1	Photos	10
	2.4	Endorsed Documents	10
	2.5	Complaints	10
	2.6	Compliance	11
	2.6.1	Incidents	11
	2.6.2	Non-compliance	11
	2.6.3	Audits	11
	2.7	Looking Forward – Core Focus Areas	11
3	Phas	se F – Western Tunnelling Package	12
	3.1	Key Construction Activities During the Period	12
	3.2	Key Construction Activities Look Ahead	13
	3.3	ER Inspections	13
	3.3.1	Photos	14
	3.4	Endorsed Documents	15
	3.5	Complaints	15
	3.6	Compliance	15
	3.6.1	Incidents	15
	3.6.2	Non-compliance	16
	3.6.3	Audits	16



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	3.7	Looking Forward – Core Focus Areas	16
4	Phas	e G - Eastern Tunnel Package	17
	4.4	Endorsed document/s	18
	4.5	Complaints	19
	4.6	Compliance	19
	4.6.1	Incidents	19
	4.6.2	Non-compliance	19
	4.6.3	Audits	19
	4.7	Looking Forward – Core Focus Areas	19
5	Sydr	ney Metro Retained Obligations and Other Activity	20
	5.1	Key Construction Activities During the Period	20
	5.2	Key Construction Activities Look Ahead	20
	5.3	ER Inspections	20
	5.3.1	Photos	20
	5.4	Endorsed Document/s	20
	5.5	Complaints	20
	5.6	Compliance	20
	5.6.1	Incidents	20
	5.6.2	Non-compliance	20
	5.6.3	Audits	20
	5.7	Looking Forward – Core Focus Areas	21
6	State	ement of Limitations	22
7	Арр	endix A – ER Document Endorsement Records	23



# **1** PHASE B - CENTRAL TUNNELLING PACKAGE

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

- Michael Woolley
- Greg Byrnes
- Jo Robertson

Phase B – Central Tunnelling Package (CTP) is being delivered by Acciona Ferrovial 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.

### 1.1 Key Construction Activities During the Period

#### The Bays

- Ongoing construction of the spoil shed frame and cladding
- Ongoing excavation of the station box involving use of rock hammers in the eastern end. Removal of spoil
  from the station box using long reach excavators. Stockpiling and load out of spoil from site during
  extended work hours
- TBM assembly in the western end of the station box and commencement of TBM tunnelling
- Completion of the grout plant
- Ongoing installation of acoustic panels on the Segment Shed over the station box
- 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
- Preparation for handover of the eastern portion of the site to the ETP contractor.

#### **Five Dock**

- West shaft: Ongoing excavation of rock from the shaft using dozers and excavators with hammers. Load out of material by trucks during standard construction hours
- East Shaft: Ongoing excavation of the shaft and wall support activities. Loading of trucks using a telescopic excavator. Ongoing use of a house on Waterview Street adjacent the eastern shaft
- Ongoing utilities works in local streets
- Operation of the WTP at the east site.

#### **Burwood North**

- Ongoing excavation of the crossover cavern at the western end of the Station Box by road header during 24 hour operation
- Ongoing excavation of the station box; stockpiling and load out off site of excavated materials. Wall support such as rock anchor installation
- Ongoing placement of remaining acoustic panels on the acoustic shed over the station box including installation of doors and closing of gaps in acoustic treatment
- Lining of adit completed



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- 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: Construction of capping beam for the shaft.

#### North Strathfield

- Ongoing piling activities on the upper side of the station box
- Ongoing capping beam construction including drilling and stressing of rock anchors
- Utility and traffic related works in the vicinity of the station box and general area
- Use by the public of pedestrian crossings on Queen Street
- Use of concrete pavement along Queen Street for loading of trucks and truck haul route through the site. Construction of a hoarding/traffic barrier along outside edge of the pavement to separate it from Queen Street
- Hoarding construction along Queen Street.

#### 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. Use of alternate haul route during the Easter show as required by SOPA
- Electricity connection works
- Project Office Operating.

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

### 1.2 Key Construction Activities Look Ahead

- Ongoing activities as described above. Various OOHWs (subject to approvals) relating to services; road signs and signals, hoarding installation etc at many sites. Activities such as site investigations; utilities related works and site establishment
- Second TBM to commence tunnelling at the Bays.

### 1.3 ER Inspections

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

#### The Bays:

- Various ERSED related and water management actions
- Cleaning of hardstand
- Secondary containment for chemicals at various locations.

#### Five Dock:

- Road repair required outside East Shaft acoustic shed exit point
- Construction vehicles parking in No Stopping zones on Great North Road and Waterview Street
- Review of sweeper truck operation with an aim to reduce passes when not required.



### **Burwood North:**

- Secondary containment for chemicals
- Display of appropriate signs for pedestrians when footpaths are closed
- 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
- The potential for noise from OOHs tunnelling operations and related activities in the shed such as crane usage without (acoustic) completion of the acoustic shed.

#### **North Strathfield**

• Nil actions raised; however, dust management and tracking of dirt are ongoing challenges.

### SOP

- Augment ERSED controls at one stormwater pit.
- Ensure all spoil haulage trucks have signage as per Condition A47.

A number of the above actions continue to remain open from previous reporting periods.

### 1.3.1 Photos



Figure 1 1 Tunnel Boring Machine on left commenced tunnelling during the reporting period. (The Bays)



Figure 1 3 Excavation of the eastern end of the station box (Burwood North).



Figure 1 2 Ongoing construction of the frame of the spoil shed. (The Bays).



Figure 1 4 Works inside the acoustic shed. (Burwood North)



Figure 1 5 Ongoing excavation of the eastern shaft and loading of trucks within the acoustic shed (Five Dock-east).



Figure 1.7 Piling on the top level of the station box at North Strathfield



Figure 1 6 Ongoing excavation of the west shaft (FD).



Figure 1.8 Excavation of the Station Box (SOP)

#### 1.4 Endorsed Document/s

• Nil

A revised DNVIS (Rev 6) for Five Dock was reviewed during the period and comments provided to AFJV.

#### 1.5 Complaints

Based on a monthly Sydney Metro Complaint Registers provided for March 2023, there were 22 Complaints relating to AFJV activities reported during the month; the same number as the prior month. Eighteen of the complaints were related to the Five Dock site; thirteen of which were from one resident. Complaints at Five Dock related to: noise from the vacuum truck on the streets to clean roads (6 complaints); other construction noise (2, of which one was not related to AFJV activities); light spill; voucher offers; complaint response; dust; parking; acoustic shed not built; pothole in road; confirmation of compliance with the disability legislation; building waste and takeaway food containers in rubbish bin (not related to the project); and trucks reversing into western site and trucks parking on in front of the western site.

Based on an ER inspection on 4 May, it appeared AFJV had reduced the frequency of the use of the sweeper truck to reduce impacts from this noise source in response to the high number of complaints from this activity. AFJV have responded to each complaint. Dust management was observed to be adequate during an ER inspection on 4 May and respite periods for noise mitigation was being implemented at this time.



Two complaints were received at Burwood and related to noise from: temporary repairs to a road crossing; and from a street sweeper when not in use (idling). The complaint relating to the truck idling has been closed, however repairs remain outstanding to fix the road crossing.

Two complaints were received at North Strathfield and related to signage at a new pedestrian crossing; and general noise and dust. AFJV responded to the complaints, noting that signage was adequate after conducting an audit; and provided details regarding noise and dust mitigation methods implemented at the site.

### 1.6 Compliance

#### 1.6.1 Incidents

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

The following incident reports were issued to the ER under the SM Incident Reporting System:

- EI029: A small volume of construction water left the project boundary at Burwood North and onto Loftus Street. A small volume of water entered the nearby stormwater pit on Loftus Street. The incident occurred approximately 225m from the nearest waterway, St Luke's Park Canal, and upon visual inspection no discoloured water was observed entering the canal. The EPA was notified via the pollution hotline. AFJV did not activate the PIRMP as this was considered a minor incident with no residual environmental harm occurring.
- EI030: An injured Common/Indian Myna bird was observed underneath the staircase to The Bays site offices. AFJV contacted WIRES and upon their direction took it to the vet.

#### 1.6.2 Non-compliance and Potential Non Compliance

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

• EVT-0001599: Five Dock - Sydney Metro raised an NCR for commencement of excavation of the shaft at Five Dock prior to the establishment of an acoustic shed. The DNVIS (Rev 5) for the site had not been updated for this situation. An Addendum DNVIS to cover this situation was provided to and endorsed by the AA.

As reported in the March report, the tunnelling DNVIS states *"Completion of the acoustic roof structure over the eastern end of station box would commence once excavation work has reached a depth of around 6m."* Construction of the cover has not yet commenced. AFJV has indicated a revised DNVIS is under preparation for Burwood North.

### 1.6.3 Audits

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

#### 1.7 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 some of the other sites
- Noise and Vibration management at Five Dock and review of an anticipated update to the DNVIS previously submitted for the proposed case with no acoustic shed at the Five Dock West site
- OOHWs at Burwood North



• Construction Parking around various sites



# 2 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.

#### 2.1 Key Construction Activities During the Period

### Westmead:

• Remaining poles removed during WE40 (1-2 April 2023).

### North Strathfield:

• Works completed

#### 2.2 Key Construction Activities Look Ahead

#### Westmead:

• Works completed.

### North Strathfield:

• Works completed.

#### 2.3 ER Inspections

No ER inspections were conducted in April 2023.

#### 2.3.1 Photos

No photos supplied.

#### 2.4 Endorsed Documents

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

#### 2.5 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.



### 2.6 Compliance

### 2.6.1 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.

### 2.6.2 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.

### 2.6.3 Audits

No audits were conducted during the reporting period.

### 2.7 Looking Forward – Core Focus Areas

Phase C works have now been completed.



# **3** 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.

### 3.1 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, Piling for the Dive structure at Clyde and Diaphragm Wall preparation at Parramatta. The following activities were undertaken at the Westmead, Parramatta, Rosehill, Clyde Dive and Clyde MSF sites during March 2023:

#### Westmead

- Station box excavation, rock bolts and shotcrete.
- Spoil Stockpile management including storage, classification and removal from site.
- Acoustic shed assembly

#### Parramatta

- Archaeological investigations
- Shared Access Road construction complete.
- Weigh bridge installation and commissioning
- Church and Macquarie Street footpath concreting and paving.
- Piling pad earthworks in areas cleared by the archaeological investigations

#### **Clyde Dive**

- Haul road and pedestrian access construction, this involves earthworks and concrete pavement.
- Horizontal tunnelling from shaft excavation.
- Spoil management including movement around site, stockpiling, segregation and classification. Spoil is being transferred to the Clyde MSF by Moxy and crossing Unwin Street
- Acoustic shed construction completed.
- Piling for Dive structure (Three per day with two piling rigs).

#### Rosehill

- Excavation of TBM launch box (approximately 70% complete)
- TBM delivery and assembly
- Spoil management including segregation, classification, and disposal.
- Treatment and disposal of Acid Sulfate Soil. All treated ASS is now being transferred to Clyde MSF
- Temporary Water Treatment Plant operation with discharge to Duck River
- Construction of Spoil Shed continuing.
- Long term water treatment plant mobilisation and assembly.
- Wheel wash and weigh bridge commissioning



### Clyde MSF

- Water main and utilities trenching adjacent to the M4 continuing.
- 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.
- Spoil storage and stockpiling ready for filling Parramatta Speedway site when design finalised.
- Unexpected Find in Downer Site delineated by Epic potentially seven buried drums of hydrocarbons.
- Installation of weigh bridge and wheel wash

### 3.2 Key Construction Activities Look Ahead

The key construction activities planned for May 2023 are similar to those listed in Section 3.1 with the addition of the following:

- The Diaphragm Wall at Parramatta is scheduled to start in June 2023
- Archaeological investigation works are scheduled to be completed at the Parramatta site

### 3.3 ER Inspections

Four ER inspections were conducted in April 2023 (5/04/2023, 12/04/2023, 19/04/2023 and 26/04/2023). A total of 147.6mm (Parramatta BOM) of rain fell during April 2023 with two rainfall events triggering additional site inspections. In total nine actions were raised across the WTP in April. The key issues were erosion and sediment controls around stormwater pits and implementation of PESCPs.

During March and April a number of actions were raised for mud tracking on Unwin, Kay and Wentworth streets in the Rosehill and Clyde area. In response, GLC held a workshop with senior construction staff to identify additional mitigation measures to avoid mud tracking. During the ER Inspections on 19 and 26/4/2023 an improvement was observed.

The actions and key issues raised at the inspections were:

- **Rosehill** The Rosehill site is being managed adequately, spoil management especially ASS is continuing to be a focus area for GLC and the ER and has improved this month. One actions was raised for cleaning onsite haul roads to prevent mud tracking off the site.
- **Clyde MSF** This site is being managed well with sediment controls being the key focus area for this site. Six actions raised, four for stormwater pit controls, one for erosion and sediment controls and one for dewatering.
- Parramatta This Parramatta site is being managed well with no actions were raised.
- Westmead The Westmead site is being managed well with one action raised for the investigation of mud on Hawkesbury Road from another project.
- **Clyde Dive** This site is being managed well with noise management being the key focus area for this site. One action was raised for poor concrete wash out practices.

### 3.3.1 Photos



Figure 3.1: Westmead Site – Station Box excavation



Figure 3.3: Parramatta Site – Bentonite Plant assembly and hardstand cleaning



Figure 3.5: Clyde Dive site – Piling for the Dive Structure along the ATC boundary



Figure 3.2: Westmead site – Station box excavation and soil nail installation

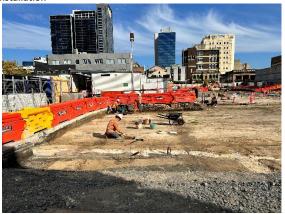


Figure 3.4: Parramatta Site – Archaeological investigations



Figure 3.6: Clyde Dive site – Acoustic Shed





Figure 3.7: Rosehill Site – TBM assembly



Figure 3.9: Clyde MSF Site – Wheel washing prior to entering Wentworth Street



#### 3.4 Endorsed Documents

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

#### 3.5 Complaints

Seven complaints related to the WTP were provided to the ER during April 2023.

- Westmead One complaint: The (11/4/2023) complaint related to noise from a street sweeper. The complaint was closed out satisfactorily with GLC reviewing the frequency of the Street Sweeper.
- Parramatta Two complaints: The (19/4/2023) complaint related to Laneway closure and business access for footpath restoration works. The complaint was adequately addressed and closed out. The (20/4/2023) complaint related to footpath works blocking building access on Macquarie Street. Complaint was adequately responded to with alternate pedestrian access was available.
- **Clyde MSF** Four complaints: The (8/3/2023) complaint related to mud tracking and dust on Wentworth Street. The ER raised on action for this issue on the 29/3/2023 and will follow up to ensure it is adequately closed.

#### 3.6 Compliance

#### 3.6.1 Incidents

No incidents considered to represent Incidents as defined under the Project Approval were reported to or observed by the ER during the reporting period. However, on the 30/4/2023 a water transfer hose broke free and sprayed approximately 5000L of treated water over the site hoarding on Bailey Street. The source of the water was the



Figure 3.8: Rosehill Site – Hard stand requiring cleaning to prevent mud tracking



Figure 3.10 – Spoil stockpiling awaiting Speedway backfilling



transfer hose from the baffled treatment tanks to the holding tanks. The ER investigated the incident on the 3/5/2023 and was satisfied with the management and close out of the incident.

### 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 undertaken during the reporting period.

#### 3.7 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:

- Mud tracking on public roads
- Noise management, especially at Westmead and the Clyde Dive site
- Spoil management, especially the storage and stockpiling measures.



# 4 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. SM notified DPE that the date of commencement of construction was 17 March 2023. JCG have received an Environmental Protection Licence (EPL) for the project.

### 4.1 Key Construction Related Activities During the Period

Previously approved Low Impact Works (LIWs) and construction activities continued in April 2023. Works conducted during the reporting period included:

- Pre-Construction Surveys
- Drilling of geotechnical investigation boreholes
- Soft strip of some buildings to be demolished
- CCTV investigations of sewer lines
- Tree removal at Pyrmont East and Hunter East sites
- Investigations of utilities using NDD and other techniques
- Trenching for undergrounding of electricity cables in the vicinity of Pyrmont west
- Activities inside the Bligh Street acoustic shed including ongoing site establishment; completion of a concrete pillar; ongoing tunnelling for the access decline using road header; and drilling of vertical ventilation shafts.
- Installation of survey markers and prisms for monitoring of buildings and other items.

#### 4.2 Key Construction Activities Look Ahead

The following works are planned in May:

- Ongoing activities as were conducted for April
- Utility investigations and relocations
- Driveway and site access construction
- Ongoing tree trimming and removal.

### 4.3 ER Inspections

Two ER inspections were conducted during the reporting period on 11<sup>th</sup> and 18<sup>th</sup> of April 2023. No inspection was conducted on 25<sup>th</sup> April due to the ANZAC day holiday.

No actions were raised during the inspections.

#### 4.3.1 Photos

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Figure 5 1 Pyrmont East: Installation of a groundwater monitoring well inside a borehole.



Figure 5 3 Hunter St West: Coring in preparation for geotechnical drilling.



Figure 5 5 Tunnel decline: Setting up for road header to commence the tunnel.



Figure 5 2 Pyrmont West: Utilities works on Pyrmont Bridge Road



Figure 5 4 Hunter St West: Clean up after completion of geotechnical drilling activities in Hunter Street.



Figure 5 6 Hunter Street East: Works within the acoustic shed

#### 4.4 Endorsed document/s

There were no documents endorsed by the ER during the reporting period.

In accordance with CoA A32(d)iii the written statements endorsing the above documents are provided in Appendix A (if relevant).



### 4.5 Complaints

Five complaints related to the ETP were reported to the ER during April 2023. These were all related to the Pyrmont sites regarding the following issues: out of hours noise from tree removal at the Pyrmont East site; proposed duration and impact of works; interaction with a traffic controller; customer access at a business; and traffic at a site access gate. Based on the complaints register, the complaints were responded to, and were generally for transient activities or events which have now been completed. The number of nature of noise complaints at the Pyrmont site for the activities conducted indicates a likely ongoing high sensitivity for noise in this location.

### 4.6 Compliance

#### 4.6.1 Incidents

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

### 4.6.2 Non-compliance

No Non-compliances were reported to the ER or were observed by the ER during the reporting period that related to ETP works.

### 4.6.3 Audits

No audits were undertaken during the reporting period.

### 4.7 Looking Forward – Core Focus Areas

In May 2023, the ER Team will be focused on the monitoring of construction activities; including the planning for works at the Bays.



# 5 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 subcontractors delivering the works. These works do not require an EPL.

#### 5.1 Key Construction Activities During the Period

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

#### 5.2 Key Construction Activities Look Ahead

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

#### 5.3 ER Inspections

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

5.3.1 Photos

None

#### 5.4 Endorsed Document/s

No Sydney Metro documents were endorsed during the reporting period.

#### 5.5 Complaints

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

#### 5.6 Compliance

#### 5.6.1 Incidents

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

#### 5.6.2 Non-compliance

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

#### 5.6.3 Audits

No audits were conducted during the reporting period.



### 5.7 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.



# **6** 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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# 7 APPENDIX A – ER DOCUMENT ENDORSEMENT RECORDS