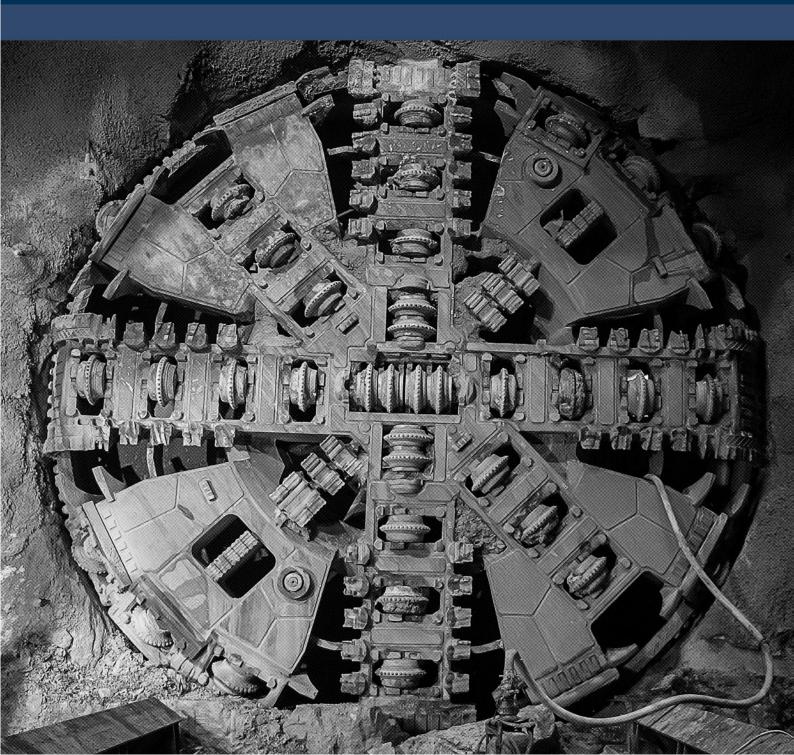


EPL 21784 POLLUTION MONITORING REPORT February 2025





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February 2025

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1. Introduction

1.1. Project overview

Sydney Metro West (SMW) is a new 24-kilometre metro line with nine new stations confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pyrmont, and Hunter Street in the Sydney CBD.

The planning process for Sydney Metro West was assessed as a staged infrastructure application under section 5.20 of the *Environment Planning and Assessment Act 1979 (EP&A Act)*.

Stage 1 of the development, the Sydney Metro West Concept and major civil construction work for Sydney Metro West between Westmead and The Bays (SSI-10038 Schedule 2), was approved on 11 March 2021 and includes:

- Construction and operation of new passenger rail infrastructure between Westmead and the central business district of Sydney, including:
 - Tunnels, stations (including surrounding areas) and associated rail facilities
 - Stabling and maintenance facilities (including associated underground and overground connections to tunnels)
- Modification of existing rail infrastructure, including stations and surrounding areas
- Ancillary development.

The Eastern Tunnelling Package (ETP or this Project) is addressed under the Stage 2 Planning Approval (SSI 19238057). This Project includes all major civil construction work including station excavation (at the Pyrmont Station and Hunter Street Station (Sydney CBD) construction sites) and tunnelling between The Bays and Sydney CBD (Figure 1).

It is noted that the existing Sydney Metro West precast facility at Eastern Creek will be utilised in the delivery of the ETP Works. The facility, which was assessed by Sydney Metro in a Review of Environmental Factors (REF) and approved on 11 March 2021, is outside of the scope of the SWMP.

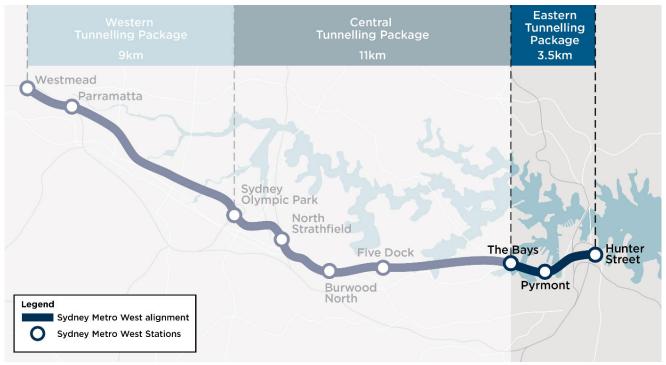


Figure 1: Sydney Metro West alignment



1.2. Project Scope

The ETP Works include design and construction of:

- Demolition of existing buildings at Pyrmont East and West shaft sites and at Hunter Street East and West shaft sites
- Tunnel Boring Machine (TBM) assembly, launch, tunnelling support from an existing shaft at The Bays
- Approximately 2.5 km twin underground eastbound and westbound bored railway tunnels between The Bays and Hunter Street and six cross passages spaced up to 500 metres apart
- Pyrmont Station excavation, including two shaft excavations, associated access adits and nozzle enlargements, including temporary ground support and cast in situ cavern linings
- Excavation and lining of a mined crossover cavern to allow trains to cross from one track to the other
- Hunter Street station mined cavern excavation, including:
 - Two shaft excavations, associated access adits
 - Nozzle enlargements
 - Conversion of an existing temporary connection adit at Bligh Street linking Hunter Street Station to Martin Place Station into a permanent pedestrian connection linking the stations (including temporary ground support and cast in situ linings)
- A turnback extension tunnel, of approximately 675 metres, east of the Hunter Street Station works to enable Sydney Metro train storage and to change tracks and travel direction (eastbound to westbound)
- TBM disassembly and retrieval from Hunter Street East.

1.3. Scope of this report

John Holland CPB Contactors Ghella (JCG) have been issued an Environmental Protection Licence (EPL No. 21784) from the NSW Environment Protection Authority (EPA) for the Sydney Metro West Eastern Tunnelling Package (ETP) Project.

The EPL applies to the works approved under the Infrastructure Approval SSI-19238057 associated with the delivery of the Sydney Metro West Eastern Tunnelling Package (ETP) Project.

This EPL Pollution Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21784 as required by Section 66 of the Protection of the Environment Operations Act 1997 (POEO Act) and with reference to EPA Publication Requirements for publishing pollution monitoring data (Environment Protection Authority, 2013).

Table 1 provides a summary of the EPL 21784 details.

Table 1: Licence Details

Licence Details	
Number	21784
Copy of Licence	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=266460&SYSUID=1&LICID=21784
Anniversary Date	16 March
Licensee	John Holland Pty Ltd
Premises	Sydney Metro West – Eastern Tunnelling Package
Scheduled Activity	Railway activities – railway infrastructure construction



2. Reporting Requirements

Under the POEO Act, holders of environment protection licences (licensees) must publish or make pollution monitoring data available to members of the public.

The POEO Act Section 66 requires:

"66 Conditions requiring monitoring, certification or provision of information, and related offences

- (1) Monitoring The conditions of a licence may require—
 - (a) monitoring by the holder of the licence of the activity or work authorised, required or controlled by the licence, including with respect to—
 - (i) the operation or maintenance of premises or plant, and
 - (ii) discharges from premises, and
 - (iii) relevant ambient conditions prevailing on or outside premises, and
 - (iv) anything required by the conditions of the licence, and
 - (b) the provision and maintenance of appropriate measuring and recording devices for the purposes of that monitoring, and
 - (c) the analysis, reporting and retention of monitoring data.
- (2) False or misleading information. A holder of a licence who supplies information, or on whose behalf information is supplied, to the appropriate regulatory authority under the conditions of the licence is guilty of an offence if the information is false or misleading in a material respect."

The primary objective of the pollution monitoring reporting requirements is that members of the public have access to the results of all pollution monitoring (which a licence specifies must be carried out) in a way that is meaningful to them. Data for the Sydney Metro West Eastern Tunnelling Package is presented on a monthly sampling period.

The monitoring data that must be published and/or made available on request is any data that is obtained as a result of a monitoring condition on a licence that relates to air, water (surface or groundwater), noise and/or land pollution. The data to be published or provided is limited to data that relates to pollutants generated, discharged or emitted from the licensed premises.

The data is provided in tabular format that is easy for the general public to understand. Tables definitively display raw data values, while graphs and charts are useful for overviews and visualisation of long-term trends. Raw data will be provided upon request.

An upfront note will be included on the licensee's website or in this report to explain why any data may appear to be missing because there is no discharge or the level of pollutant being below the detection level of the measurement instrument.

It is possible from time to time that incorrect data may be published in good faith. As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading (refer to **Section 4**).



Table 2 provides a summary of the pollution monitoring requirements of EPL 21784.

Table 2 EPL 21784 Pollution Monitoring Requirements

EPL Condition	Require	ment			Report Reference	
Weather						
M5.1	velocity ar equivalent Monitoring a) be repri b) comme and					
		te has been stabilise		vities cease at the premises		
Noise						
L5.9	under con a) Prepare with the In i. a desc construc	andard construction hours the following: t assessment in accordance (2009) that is to include: es outside of standard	Section 3.2 Appendix B			
	from the than tho iii. a mo bounda that are predicte	ii. predictions of LAeq (15 minute) dB noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than those permitted under condition L5.3; and iii. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the works and activities, including during the period/s predicted to have the highest noise level impacts. b) Undertake noise monitoring in accordance with the monitoring plan required by condition L5.9(a)(iii)				
M4.4		onitoring as directed by an to obtain permission, they	N/A			
Water		-				
P1.1	purposes			tified in this licence for the its for discharges of pollutants	Section 3.3	
	EPA Identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description		
	1	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Hunter St Station WTP to Sydney Harbour		
	2	Discharge & monitoring	Discharge & monitoring	Discharge from the Eastern Creek Precast Facility sediment basin		
	3	Discharge & monitoring	Discharge & monitoring	Discharge from The Bays temporary WTP to White Bay		
	4	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Pyrmont Station WTP to Sydney Harbour		
	5	Discharge & Monitoring	Discharge & Monitoring	Discharge from the Eastern Tunnelling Package Eastern Creek Precast Facility Water Treatment Plant into Ropes Creek		
	6 7	Discharge & Monitoring Discharge & Monitoring	Discharge & Monitoring Discharge & Monitoring	Discharge from The Bays Construction WTP to White Bay Discharge from Pyrmont East		
M2.1	number), t analysis) t must use	the licensee must mo the concentration of e	onitor (by sampling an each pollutant specific I, units of measure, an	ea specified below (by a point id obtaining results by ed in Column 1. The licensee and sample at the frequency,	Section 3.3	



EPL Condition	Rec	quirement				Report Reference
M2.2	POIN	т 1				Section 3.3
		Pollutant	Units of measure	Frequency	Sampling Method	
		Aluminium	micrograms per litre	Monthly during	Grab sample	
		Ammonia	micrograms per litre	discharge Monthly during	Grab sample	
		Arsenic (III)	micrograms per litre	discharge Monthly during	Grab sample	
		Cadmium	micrograms per litre	discharge Monthly during	Grab sample	
		Chromium	micrograms per litre	discharge Monthly during	Grab sample	
		(hexavalent) Cobalt	micrograms per litre	discharge	Grab sample	
				Monthly during discharge	•	
		Copper	micrograms per litre	Monthly during discharge	Grab sample	
		Iron	micrograms per litre	Monthly during discharge	Grab sample	
		Manganese	micrograms per litre	Monthly during discharge	Grab sample	
		Nitrate	micrograms per litre	Monthly during	Grab sample	
		Nitrogen (total)	micrograms per litre	discharge Monthly during	Grab sample	
		Oil and Grease	Visible	discharge Monthly during	Visual Inspection	
		рН	pН	discharge Daily during any	Probe	
		•	micrograms per litre	discharge	Grab sample	
		Phosphorus (total)		Monthly during discharge	•	
		TRH C10-C14	micrograms per litre	Monthly during discharge	Grab sample	
		TSS	milligrams per litre	Monthly during discharge	Grab sample	
		Zinc	micrograms per litre	Monthly during	Grab sample	
	POINT	2		discharge		
		Pollutant	Units of measure	Frequency	Sampling Method	
		Oil and Grease	Visible	Special Frequency 1	Visual Inspection	
		рН	рН	Special Frequency 1	Probe	
		TSS	milligrams per litre	Special Frequency 1	Grab sample	
	POINT	3				
		Pollutant	Units of measure	Frequency	Sampling Method	
		Arsenic (III)	micrograms per litre	Monthly during discharge	Grab sample	
		Manganese	micrograms per litre	Monthly during discharge	Grab sample	
		Nitrate + nitrite	micrograms per litre	Monthly during	Grab sample	
		(oxidised nitrogen) Oil and Grease	Visible	discharge Monthly during	Visual Inspection	
		рH	pН	discharge Daily during any	Probe	
		Phosphorus (total)	micrograms per litre	discharge	Grab sample	
				Monthly during discharge		
		TSS	milligrams per litre	Monthly during discharge	Grab sample	
	POINT	4				
		Pollutant	Units of measure	Frequency	Sampling Method	
		Aluminium	micrograms per litre	Monthly during	Grab sample	
		Ammonia	micrograms per litre	discharge Monthly during	Grab sample	
		Arsenic (III)	micrograms per litre	discharge Monthly during	Grab sample	
		Cadmium	micrograms per litre	discharge Monthly during	Grab sample	
		Chromium	micrograms per litre	discharge Monthly during	Grab sample	
		(hexavalent) Cobalt		discharge		
			micrograms per litre	Monthly during discharge	Grab sample	
		Copper	micrograms per litre	Monthly during discharge	Grab sample	
		Iron	micrograms per litre	Monthly during discharge	Grab sample	
		Manganese	micrograms per litre	Monthly during	Grab sample	
		Nitrate	micrograms per litre	discharge Monthly during	Grab sample	
				discharge		



EPL Condition	Req	uirement				Report Referenc
		Nitrogen (total)	micrograms per litre	Monthly during	Grab sample	
		Oil and Grease	Visible	discharge Monthly during	Visual Inspection	
		pH	pH	discharge Daily during any	Probe	
		Phosphorus (total)	micrograms per litre	discharge Monthly during	Grab sample	
		TSS	milligrams per litre	discharge Monthly during	Grab sample	
		Zinc	micrograms per litre	discharge Monthly during discharge	Grab sample	
	POINT	5		distrial ge		
		Pollutant	Units of measure	Frequency	Sampling Method	
		Oil and Grease	Visible	Monthly during	Visual Inspection	
		рН	pH	discharge Daily during any	Probe	
		TSS	milligrams per litre	discharge Monthly during discharge	Grab sample	
	POIN	T 6		uischarge		
		Pollutant	Units of measure	Frequency	Sampling Method	
		Aluminium	micrograms per litre	Monthly during	Grab sample	
		Ammonia	micrograms per litre	discharge Monthly during	Grab sample	
		Arsenic	micrograms per litre	discharge Monthly during	Grab sample	
		Cadmium	micrograms per litre	discharge Monthly during discharge	Grab sample	
		Chromium (hexavalent)	micrograms per litre	Monthly during	Grab sample	
		Cobalt	micrograms per litre	discharge Monthly during discharge	Grab sample	
		Copper	micrograms per litre	Monthly during discharge	Grab sample	
		Iron	micrograms per litre	Monthly during	Grab sample	
		Lead	micrograms per litre	discharge Monthly during	Grab sample	
		Manganese	micrograms per litre	discharge Monthly during	Grab sample	
		Mercury	micrograms per litre	discharge Monthly during	Grab sample	
		Nickel	micrograms per litre	discharge Monthly during discharge	Grab sample	
		Nitrate + nitrite (oxidised nitrogen)	micrograms per litre	Monthly during	Grab sample	
		Nitrogen (total)	micrograms per litre	discharge Monthly during	Grab sample	
		Oil and Grease	Visible	discharge Monthly during	Visual Inspection	
		рН	pH	discharge Daily during any	Probe	
		Phosphorus (total)	micrograms per litre	discharge Monthly during discharge	Grab sample	
		TPH > C10-C40	micrograms per litre	Monthly during	Grab sample	
		(sum) Fraction TSS	milligrams per litre	discharge Monthly during discharge	Grab sample	
		Zinc	micrograms per litre	Monthly during discharge	Grab sample	
	POINT	7				
		Pollutant	Units of measure	Frequency	Sampling Method	
		Oil and Grease	Visible	Monthly during	Visual Inspection	
		рН	рН	discharge Monthly during	Probe	
		TSS	milligrams per litre	discharge Monthly during	Grab sample	
			g. Sine per nue	discharge		

3. Monitoring

Section 3 presents a summary of the monitoring programs completed in the reporting period from 16 January 2025 to 15 February 2025.

Detailed monitoring results for each program are presented in the Appendices.



3.1. Meteorological Data

Meteorological data for the Project has been mostly taken from the Observatory Hill but some has also been taken from Fort Denison and Sydney Airport, Bureau of Meteorology Weather Station.

The total rainfall recorded during the reporting period was 184.8 mm, with 11 days exceeding 1mm and 4 days exceeding 10mm.

During the reporting period, there were 28 days where the maximum wind gust recorded was greater than 25km/h, 9 days where the maximum wind gust recorded was greater than 50km/h and 6 days where the maximum wind gust recorded was greater than 60km/h. Winds recorded during the reporting period in the mornings were varying and predominately southerly into the afternoons.

A summary of the weather observations and weather events during the reporting period of relevance to the Soil and Water Management Sub-plan and Air Quality Management Sub-plan Trigger Action Response Plans (TARPs) are summarised in Table 3.

Detailed weather observation records for the reporting period are presented in Appendix A.

Table 3 Weather summary and trigger weather events for the reporting period

Weather Event	Observation
Minimum temperature	15 °C
Maximum temperature	32.1 °C
Total rainfall	184.8 mm
Number of days with rain (>1 mm)	11 days
Number of days with rain (>10 mm)	4 days
>25 km/hr wind	28 days
>50 km/hr wind	9 days
>60 km/hr wind	6 days

3.2. Noise

Table 4 Summary of noise and vibration monitoring completed during the reporting period

Date	Monitoring Location	Method	Description
15/01/25	The Sebel Hotel	Sound Level Meter	Sawcutting and load out
15/01/25	28 Paternoster Row	Sound Level Meter	Sawcutting and load out
15/01/25	63 Edward St	Sound Level Meter	Spoil management
16/01/25	28 Paternoster Row	Sound Level Meter	Sawcutting
16/01/25	60 Union St	Sound Level Meter	Spoil management
16/01/25	1-9 Pyrmont Bridge Road	Sound Level Meter	Truck exiting site
20/01/25	39 Paternoster Row	Sound Level Meter	Spoil management
20/01/25	39 Paternoster Row	Sound Level Meter	Spoil management
21/01/25	200 Harris St	Sound Level Meter Spoil management	
21/01/25	200 Harris St	Sound Level Meter	Spoil management
21/01/25	27 O'Connell St	Sound Level Meter	B-Class Hoarding removal
21/02/25	16 O'Connell St	Sound Level Meter	B-Class Hoarding Removal
21/01/25	2 Hunter St	Sound Level Meter	Utilities Disconnection
21/01/25	66 Hunter	Sound Level Meter	Ausgrid propping works
31/01/25	39 Hunter St	Sound Level Meter	Shaft excavation
13/02/25	104 Pyrmont St	Sound Level Meter	Validation - Concrete deliveries into Pyrmont West shed
14/02/25	104 Pyrmont St	Sound Level Meter	Validation - Concrete deliveries into Pyrmont West shed



Date	Monitoring Location	Method	Description
13/02/25	28 Paternoster Row	Sound Level Meter	Concrete works inside Pyrmont West shed and shotcreting in shaft
14/02/25	104 Pyrmont St	Sound Level Meter	Concrete works inside Pyrmont West shed and shotcreting in shaft

No noise and vibration monitoring were undertaken as a result of a direction by the EPA.

3.3. Discharge to water

Discharge water quality monitoring is a requirement of the following conditions of EPL 21784:

 M2.1 Monitoring the concentration of each pollutant specified using the specified sampling method, units of measure and frequency

During the reporting period sampling was undertaken from:

- Point 1 Discharge from The Hunter Street Construction WTP.
- Point 6 Discharge from The Bays Construction WTP.

No discharges to other licensed discharge points occurred during the reporting period.

Table 6 provides the details of the concentration of pollutants discharged during the reporting period.

Table 5 Concentration of pollutants discharged from Point 1 during the reporting period

Date			21/01/2025
Pollutant	Units	Criteria	Discharge
Aluminium	(µg/L)	900	50
Ammonia	(µg/L)	910	50
Arsenic (III)	(µg/L)	8	5
Cadmium	(µg/L)	0.7	<0.1
Chromium (hexavalent)	(µg/L)	38	<5
Cobalt	(µg/L)	1	<1
Copper	(µg/L)	1.3	1
Iron	(µg/L)	700	<10
Manganese	(µg/L)	80	8
Nitrate	(µg/L)	660	890
Nitrogen (Total)	(µg/L)	1720	1600
Oil and Grease	Visible	Not Visible	Not visible
рН	рН	7.0-8.5	7.8
Phosphorus (total)	(µg/L)	140	60
TRH C10-C14	(µg/L)	100	<50
TSS	(mg/L)	15	6
Zinc	(µg/L)	15	2



Table 6 Concentration of pollutants discharged from Point 6 during the reporting period

Date			28/01/2025
Pollutant	Units	Criteria	Discharge
Aluminium	(µg/L)	250	20
Ammonia	(µg/L)	910	78
Arsenic	(µg/L)	4.5	<1
Cadmium	(µg/L)	0.7	<0.1
Chromium (hexavalent)	(µg/L)	20	<5
Cobalt	(µg/L)	1.4	<1
Copper	(µg/L)	2	<1
Iron	(µg/L)	700	<10
Lead	(µg/L)	4.4	<1
Manganese	(µg/L)	1900	<5
Mercury	(µg/L)	0.1	<0.05
Nickel	(µg/L)	70	<1
Nitrate	(µg/L)	660	40
Nitrogen (Total)	(µg/L)	1720	900
Oil and Grease	Visible	Not Visible	Not visible
рН	рН	7.0-8.5	7.4
Phosphorus (total)	(µg/L)	140	<50
TPH>C10 - C40 (sum)	(µg/L)	100	<50
TSS	(mg/L)	15	<5
Zinc	(µg/L)	15	1



4. Correction Log

It is possible from time to time for incorrect data to get published in good faith.

As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

There are no matters included in the correction log for this reporting period.



Appendix A Weather Data

Table 7 Weather Observations. Temperature and Relative Humidity. Observatory Hill BOM Station.

Date	Min temperature	Max temperature	Rainfall (mm)	9am Temperature	9am relative	3pm Temperature	3pm relative
	(°C)	(*6)		(°C)	humidity (%)	(°C)	humidity (%)
16/01/2025	18.5	21.6	48.4	18.6	95	19.6	75
17/01/2025	18.1	20.8	6.6	18.4	71	20.2	66
18/01/2025	17.6	24.3	17	20.7	92	23.7	76
19/01/2025	17.8	24.6	9	20.8	62	21	64
20/01/2025	15	25.5	0	18.8	73	24.7	53
21/01/2025	16.1	25.9	0	19.9	71	25.4	62
22/01/2025	19.6	30.8	0.6	22.5	78	26.7	69
23/01/2025	20.2	25.6	0.2	22.1	62	23.5	62
24/01/2025	19.1	25.1	0	21.1	79	24.2	58
25/01/2025	18.2	26.8	0	20.7	68	24.2	60
26/01/2025	19.6	28.9	0	23.8	80	27.4	60
27/01/2025	23.1	30.7	0	25.4	74	30.3	61
28/01/2025	21.9	35.5	24.4	26.6	76	30.5	64
29/01/2025	19.6	25.7	10	21.5	69	25.3	62
30/01/2025	19.8	25.1	2.6	20.6	93	24.2	75
31/01/2025	20.6	27.1	0.6	22.7	79	26.3	57
01/02/2025	21	27.8	0.2	24	72	26.9	60
02/02/2025	19.7	28.9	0	22.5	75	27.6	54
03/02/2025	20	30	0	24.3	74	29.3	62
04/02/2025	21.6	29.5	0	24.5	77	28.9	63
05/02/2025	22.8	32.1	0	25.0	78	25.8	73
06/02/2025	20.5	29.3	1.0	22.8	80	28.3	67
07/02/2025	21.4	30.0	0	23.7	89	28.7	62
08/02/2025	21.4	29.1	0	23.3	80	28.8	59
09/02/2025	20.0	29.5	8.6	22.7	88	28.0	64
10/02/2025	22.0	25.1	0	23.6	78	20.8	87
11/02/2025	18.6	27.4	53.2	21.1	86	24.1	74
12/02/2025	19.9	29.1	0	22.4	81	26.8	69
13/02/2025	22.4	28.5	2.2	24.3	80	28.0	67
14/02/2025	21.9	nd	0.2	23.9	81	Nd	Nd

Note: nd = no data available



Table 8 Wind Observations. Observatory Hill BOM Station.

Date	Direction of max	Speed of max wind	Time of max wind	9am wind direction	9am wind speed	3pm wind direction	3pm wind speed
Date	wind gust	gust (km/h)	gust	Salli Willa direction	(km/h)	Spill will direction	(km/h)
16/01/2025	SSW	61	8:11	SSW	31	S	33
17/01/2025	SSW	85	11:44	SSW	30	S	48
18/01/2025	S	72	1:20	SSE	33	SSE	37
19/01/2025	SE	52	0:05	S	26	SSE	17
20/01/2025	ESE	28	12:54	WNW	13	ESE	20
21/01/2025	NNE	35	18:53	W	6	E	24
22/01/2025	nd	Nd	nd	W	7	S	37
23/01/2025	SSE	44	2:33	SE	22	SE	20
24/01/2025	S	57	14:06	S	13	S	33
25/01/2025	E	35	15:32	NNE	2	E	24
26/01/2025	ESE	39	15:48	SSE	17	ESE	28
27/01/2025	SSW	83	18:21	NNE	13	NE	28
28/01/2025	S	83	16:26	SE	6	ESE	22
29/01/2025	S	35	0:31	S	13	SSE	15
30/01/2025	S	37	21:29	WNW	13	S	13
31/01/2025	S	39	23:23	SSE	20	SE	17
01/02/2025	SSE	30	8:53	SSE	20	ESE	20
02/02/2025	E	30	16:08	SE	2	E	19
03/02/2025	NE	43	16:12	ESE	4	ENE	22
04/02/2025	NE	43	15:59	NE	11	NE	24
05/02/2025	SSW	46	11:33	E	2	S	22
06/02/2025	Е	39	01:58	NW	6	ESE	17
07/02/2025	ENE	46	13:06	NE	17	ENE	30
08/02/2025	NNE	39	23:12	NE	13	ENE	31
09/02/2025	ESE	35	16:08	SW	9	SSW	22
10/02/2025	W	72	11:48	SSW	20	W	26
11/02/2025	ESE	30	15:26	WNW	6	ESE	19
12/02/2025	ENE	39	19:29	S	9	ESE	24
13/02/2025	ENE	56	14:22	NE	24	NE	28
14/02/2025	Nd	Nd	Nd	N	7	Nd	Nd

Note: nd = no data available



Appendix B Noise Monitoring Results

Table 9 Noise Monitoring Results

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Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted * (dBA)	Recorded L _{eq. 15min} (dBA)	LAmax	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments	
	Attended noise monitoring												
15/01/25	11:00	Day	Sawcutting and load out	Pyrmont West	The Sebel Hotel	60	38	53.3	73.9	N/A	15.3	Monitoring was taken within the reception area of the Sebel Hotel. Construction noise was inaudible, traffic from Pyrmont street was dominant noise source	
15/01/25	11:35	Day	Sawcutting and load out	Pyrmont West	28 Paternoster Row	60	56	57.8	79	N/A	1.8	Construction noise was inaudible, traffic from Pyrmont Bridge Road was dominant noise source	
15/01/25	20:00	Evening	Picking of oversized rock	Pyrmont East	63 Edward St	52	50	62.4	79.2	N/A	10.4	Construction noise was inaudible, cars driving along Edward St was the dominant noise source	
16/01/25	20:50	Evening	Sawcutting	Pyrmont West	28 Paternoster Row	52	56	56.3	68.8	N/A	0.3	Construction noise was inaudible.	
16/01/25	20:14	Evening	Picking of oversized rock	Pyrmont East	60 Union St	52	52	48.1	56.2	No	-3.9	Construction work noise levels were below the predicted levels	
16/01/25	23:07	Night	Truck exiting site	Pyrmont East	1-9 Pyrmont Bridge Road	51	70	69.6	79.9	No	-0.4	Construction work noise levels were below the predicted levels	
20/01/25	09:46	Day	Rockhammering	Pyrmont West	39 Paternoster Row	60	61	46.6	52.6	No	-14.4	Construction work noise levels were below the predicted levels	
20/01/25	09:35	Day	Rockhammering	Pyrmont West	39 Paternoster Row	60	61	58.3	72.4	No	-2.7	Construction work noise levels were below the predicted levels	
21/01/25	12:45	Day	Rockhammering	Pyrmont West	200 Harris St	60	56	41.6	54.3	No	-14.4	Construction work noise levels were below the predicted levels	
21/01/25	12:55	Day	Rockhammering	Pyrmont West	200 Harris St	60	56	41.9	46.3	No	-14.1	Construction work noise levels were below the predicted levels	
21/01/25	21:41	Evening	B-Class Hoarding removal	Hunter St East	27 O'Connell St	75	87	63.8	77.6	No	-23.2	Construction work noise levels were below the predicted levels	
21/02/25	22:30	Night	B-Class Hoarding Removal	Hunter St East	16 O'Connell St	75	87	68.6	80.4	No	-18.4	Construction work noise levels were below the predicted levels	
21/01/25	21:10	Evening	Utilities Disconnection	Hunter St	2 Hunter St	65	87	86.7	94.9	No	-1.7	Construction work noise levels were below the predicted levels	
21/01/25	20:25	Evening	Ausgrid propping works	Hunter St	66 Hunter	65	67	69.3	86.9	Yes	2.3	Construction work noise levels were not the dominant noise source. Traffic created	
31/01/25	14:32	Day	Shaft excavation	Hunter St East	39 Hunter St	71	68	50.4	69.4	No	-17.6	Construction work noise levels were below the predicted levels	



Date	Time	Works Period	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Ρ	redicted * (dBA)	Recorded L _{eq. 15min} (dBA)	LAmax	Exceedance of Predicte (dBA)		Comments	
13/02/25	23:15	Night	Validation - Concrete deliveries into Pyrmont West shed	Pyrmont West	104 Pyrmont St	52		-	68.7	77.1	N/A	N/A	Construction work noise levels were similar to noise generated by traffic on Pyrmont St and Pyrmont Bridge Road. Could not determine a dominant noise source during a 3-minute reading.	
14/02/25	00:50	Night	Validation - Concrete deliveries into Pyrmont West shed	Pyrmont West	104 Pyrmont St	52		-	71.0	80.5	N/A	N/A	Construction work noise levels were similar to noise generated by traffic on Pyrmont St and Pyrmont Bridge Road. Could not determine a dominant noise source during a 3-minute reading.	
13/02/25	23:52	Night	Concrete works inside Pyrmont West shed and shotcreting in shaft	Pyrmont West	28 Paternoster Row	52		45	58.7	73.0	Yes	13.7	Site noise was minimal with the rapid doors shut. Traffic noise was recorded around 65-73dB.	
14/02/25	01:00	Night	Concrete works inside Pyrmont West shed and shotcreting in shaft	Pyrmont West	104 Pyrmont St	52		45	62.7	81.7	Yes	17.7	Concrete works inaudible over traffic at Pyrmont St and Pyrmont Bridge Road intersection.	
	und Power lev													
+Real time no		ntinuous	Construction – Noise	Hunter Street	The Ivy (Level 5 External)		*			*	*			
	Со	ntinuous	Construction – Noise	Hunter Street	The Ivy (Level 2 Office Printer Room)	*	*	*		*	*			
	Co	ntinuous	Construction – Noise	Pyrmont	1-5 Hardwood Ln	*	*	*	*	*	*			
	Co	ntinuous	Construction – Noise	Pyrmont East	69 Edward Street, Pyrmont, 2009	*	*	*	*	*	*			
	Continuous		Construction – Noise	Pyrmont West	Site Hoarding on Paternoster Row	*	*	*	*	*	*	Real time noise and vibration monitoring data is available request.		
	Со	ntinuous	Construction – Noise	Hunter Street	The Radisson Blu Plaza Hotel (Level 1) 27 O'Connell Street, Sydney, 2000		*							
	Co	ntinuous	Construction – Noise	Hunter Street	Hunter East (site)	*	*	*	*		*			
	Со	ntinuous	Construction – Vibration	Pyrmont	125 Pyrmont St	*	*	*	*	*	*			



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	Continuous	Construction – Vibration	Pyrmont	170 Harris Street	*	*		*	*	*		
	Continuous	Construction – Vibration	Pyrmont	107 Pyrmont St	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Hunter Street	The Ivy (Basement)	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Hunter Street	The Skinners Hotel (Level 3 South)	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Hunter Street	The Skinners Hotel (Level 1)	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Hunter Street	Pangas House	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Pyrmont East	69 Edward Street, Pyrmont, 2009	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Pyrmont West	28 Paternoster Row, Pyrmont, 2009	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Hunter Street	109 Pitt Street	*	*	*	*	*	*		
	Continuous	Construction – Vibration	Pyrmont	Pyrmont Pharmacy	*	*		*		*		