



EPL 21423 Pollution Monitoring Report - February 2023

Sydney Metro City & Southwest – Line-wide Works

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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

“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 Line wide Works 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. Any data that may appear to be missing is because there is no discharge, or the level of pollutant is 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 8).

Table 1: Summary of the monitoring requirements of EPL 21423

EPL Condition	Requirement	Report Reference
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1.	Section 2
M4.1	The licensee must monitor noise and vibration from construction work and especially during work undertaken out of hours specified in Condition L4.1	Section 3
M4.4	Noise and vibration monitoring as directed by an authorised officer of the EPA	Section 4
M5.1	The licensee must monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either the project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology	Section 5
M7.5	In response to noise and vibration complaints	Section 6

3. Water Quality (Condition M2.1)

EPL#21423 Condition M2.1 requires that water quality monitoring will be undertaken for discharge points specified in EPL Condition P1 for the concentration limits identified in EPL Condition L2.4.

Systems Connect had two discharge points active in February 2023. Discharge Point 1 is the storm water pit immediately northeast of the Water Treatment Plant located at the Chatswood Dive Site. Discharge Point 2 is the storm water pit immediately west of the Water Treatment Plant located at the Marrickville Southern Dive Site. Construction water is treated by the water treatment plant before being discharged to the stormwater pit.

Table 2: Discharge Water Monitoring Data – February 2023

Identifier	Date	pH	Turbidity (NTU)	Oil and Grease	Comments
Point 1	1/02/2023 to 28/02/2023	7.3 - 7.8	0.2 - 2.9	None visible	Compliant
Point 2	1/01/2023 to 28/02/2023	7.5 - 8.1	0.3 - 1.7	None Visible	Compliant

4. Noise and Vibration (Condition M4.1)

EPL#21423 Condition M4.1 requires that the licensee conducts noise and vibration monitoring of construction work, particularly during works outside of the hours specified in Condition L4.1.

Condition L4.1 state that unless permitted by another condition of this licence, construction works and activities must:

- only be undertaken between the hours of 7:00 am and 6:00 pm Monday to Friday;
- only be undertaken between the hours of 8:00 am and 6:00 pm Saturday; and
- not be undertaken on Sundays or Public Holidays.

4.1 Noise Monitoring (M4.1)

Table 3: Monthly Noise Monitoring – February 2023

Date	Location	Detailed Monitoring Location	NCA	Predicted Noise Level (dB(A))	Measured L _{Aeq} (dB(A))	Comments
1/02/2023	SMTF-S	108 Railway Road, Sydenham	MDS_05	61	56	Below predicted, LW works compliant
1/02/2023	SMTF-S	115 Railway Road, Sydenham	MDS_05	58	50	Below predicted, LW works compliant
1/02/2023	SMTF-S	11 Swain Street, Sydenham	MDS_04	65	53	Below predicted, LW works compliant
5/02/2023	Northern Connection	11-13 Hopetoun Avenue, Chatswood	CDS_04	62	56	Below predicted, LW works compliant

5/02/2023	Northern Connection	84-86 Albert Avenue, Chatswood	CDS_03	74	72	Below predicted, LW works compliant
5/02/2023	Northern Connection	2A Gordon Avenue, Chatswood	CDS_03	64	46	Below predicted, LW works compliant
5/02/2023	Chatswood	344 Mowbray Road Artarmon	CDS_06	79	75.4	Below predicted, LW works compliant
5/02/2023	Chatswood	342 Mowbray Road Artarmon	CDS_06	76	70.1	Below predicted, LW works compliant
5/02/2023	Chatswood	2 Orchard Street Chatswood	CDS_06	59	59.7	Traffic noise dominant, LW works compliant
6/02/2023	Chatswood	344 Mowbray Road Artarmon	CDS_06	79	67.3	Below predicted, LW works compliant
6/02/2023	Chatswood	342 Mowbray Road Artarmon	CDS_06	60	60.2	Traffic noise dominant, LW works compliant
6/02/2023	Chatswood	342 Mowbray Road Artarmon	CDS_06	63	65.8	Traffic noise dominant, LW works compliant
6/02/2023	Chatswood	344 Mowbray Road Artarmon	CDS_06	63	64.6	Traffic noise dominant, LW works compliant
20/02/2023	Northern Connection	7-11 Nelson Street, Chatswood	CDS_03	66	50	Below predicted, LW works compliant
20/02/2023	Northern Connection	11-13 Hopetoun Avenue, Chatswood	CDS_03	62	49	Below predicted, LW works compliant
20/02/2023	Northern Connection	2A Gordon Avenue, Chatswood	CDS_03	65	46	Below predicted, LW works compliant

4.2 Vibration Monitoring (M4.1)

No vibration monitoring was undertaken by Systems Connect for EPL #21423 in February 2023.

5. Noise and Vibration (Condition M4.4)

EPL#21423 Condition M4.4 requires that the licensee must undertake noise and vibration monitoring as directed by an authorised officer of the EPA.

5.1 Noise Monitoring (M4.4)

Systems Connect was not directed by an authorised officer of the EPA to undertake noise monitoring in February 2023.

5.2 Vibration Monitoring (M4.4)

Systems Connect was not directed by an authorised officer of the EPA to undertake vibration monitoring in February 2023.

6. Weather (Condition M5.1)

EPL #21423 Condition M5.1 requires that the licensee must monitor and record temperature, humidity, wind direction, wind velocity and rainfall at either the project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology. Monitoring must:

- a) be representative of each catchment;
- b) be undertaken prior to any works that may cause sediment to leave the premises; and
- c) continue to be operated until soil disturbance activities cease at the premises and the site has been stabilised.

Meteorological data is not considered to be pollution data and therefore does not have to be published. However, the meteorological data is published with the pollution monitoring data to provide additional context to the water discharge data.

The nominated Australian Bureau of Meteorology weather station for the project is Sydney (Observatory Hill) {station 066214}.

Temperature, humidity and rainfall observations are from Sydney (Observatory Hill) {station 066214}.

Wind observations are from Fort Denison {station 066022}.

Table 4: Monthly Weather Data – February 2023

Date	Minimum temp (°C)	Maximum temp (°C)	Rainfall (mm)	9am Temp (°C)	9am relative humidity (%)	9am wind direction	9am wind speed (km/h)	3pm Temp (°C)	3pm relative humidity (%)	3pm wind direction	3pm wind speed (km/h)
1/02/2023	20	28.7	0	22.2	71	WSW	9	27	55	ESE	22
2/02/2023	21.6	29.1	0	23.4	77	N	11	28.9	68	NE	26
3/02/2023	22.1	30.6	0	22.8	45	W	17	28.1	43	ESE	31
4/02/2023	17.5	28.9	0	18.8	45	WNW	20	27.7	22	WNW	22
5/02/2023	17.7	28	0	20.5	50	W	15	27.4	43	E	20
6/02/2023	20.5	28.4	0	22.8	82	ENE	2	28	65	E	30
7/02/2023	21.8	28.7	0	24.4	78	NNE	11	28.4	59	E	20
8/02/2023	21.1	28.2	0	23.8	77	WNW	7	25.8	74	ESE	24
9/02/2023	19.4	23.4	27.8	22	94	ENE	19	20.8	95	E	30

Date	Minimum temp (°C)	Maximum temp (°C)	Rainfall (mm)	9am Temp (°C)	9am relative humidity (%)	9am wind direction	9am wind speed (km/h)	3pm Temp (°C)	3pm relative humidity (%)	3pm wind direction	3pm wind speed (km/h)
10/02/2023	17.8	28	19.4	20	97	WNW	13	27.3	72	E	20
11/02/2023	19.3	30.4	0	22.2	88	W	11	29.9	65	NE	26
12/02/2023	21.5	27.3	0	24.6	53	WSW	17	26.8	64	SSE	37
13/02/2023	19.1	25.5	0.4	21.4	75	SSE	28	24.9	60	S	22
14/02/2023	18.3	21.2	3.4	20.2	84	SSW	20	18.6	99	SW	11
15/02/2023	18.1	26.9	45.8	20.3	93	W	13	26.1	59	E	22
16/02/2023	18.2	28.3	0	21	77	NNE	11	27.5	57	ENE	26
17/02/2023	19.6	28.3	0	22.1	83	N	7	27.6	65	ENE	24
18/02/2023	20.7	30	0	22.7	85	ESE	6	29.3	65	ENE	17
19/02/2023	20.9	28.7	5	23.4	77	SSW	19	25.7	74	ESE	11
20/02/2023	21.6	29.4	0	24	87	N	9	28.7	66	ENE	24
21/02/2023	21.1	28.4	0	23.1	89	ESE	7	27.9	66	E	20
22/02/2023	18.9	21.6		21	72	SSE	28	18.6	91	SSE	17
23/02/2023	18.5	24.4		19	87	E	24	22.8	65	E	28
24/02/2023	16.9	26.8		19.9	85	WNW	9	26.6	53	E	24
25/02/2023	17.7	26.9	0.2	18.9	92	WNW	13	26.1	56	NE	20
26/02/2023	18.7	29.4	0	20.5	83	NNW	4	28.3	61	ENE	13
27/02/2023	20.5	26.2	1.2	23.2	82	SSW	15	25.6	72	SE	15
28/02/2023	20.8	27.7	2.4	22.1	86	WNW	9	27.5	64	E	24

7. Noise and Vibration (Condition M7.5)

EPL#21423 Condition M7.5 requires that in the event of a noise and vibration complaint the licensee must include an offer to the complainant to undertake attended noise or vibration monitoring at their premises if:

- i) any investigation referred to in this condition identifies works or activities being undertaken on the licensed premises as the likely source of the complaint; and
- ii) the licensee is not in possession of noise monitoring data representative of the complainant's location and of the subject works and activities being undertaken on the licensed premises.

7.1 Noise Monitoring (M7.5)

Noise monitoring was not undertaken in response to a complaint in February 2023.

7.2 Vibration Monitoring (M7.5)

Vibration monitoring was not undertaken in response to a complaint in February 2023.

8. Correction log

It is possible from time to time that incorrect data be 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.