



EPL 21423 Pollution Monitoring Report - October 2022

Sydney Metro City & Southwest – Line-wide Works

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1. Introduction

1.1 Project Summary

The Sydney Metro City & Southwest (SMCSW) is the second portion of the new standalone rail network known as the Sydney Metro, which is Australia's largest public transport infrastructure project and a priority rail project for the NSW Government. The project will extend Sydney Metro Northwest to the CBD and beyond to Bankstown. The project is being delivered through a suite of contracts for the tunnels, stations, Line-wide infrastructure and systems. Line-wide is a key component of the SMCSW, with works taking place over the full length of the project as shown in Figure 1 below:

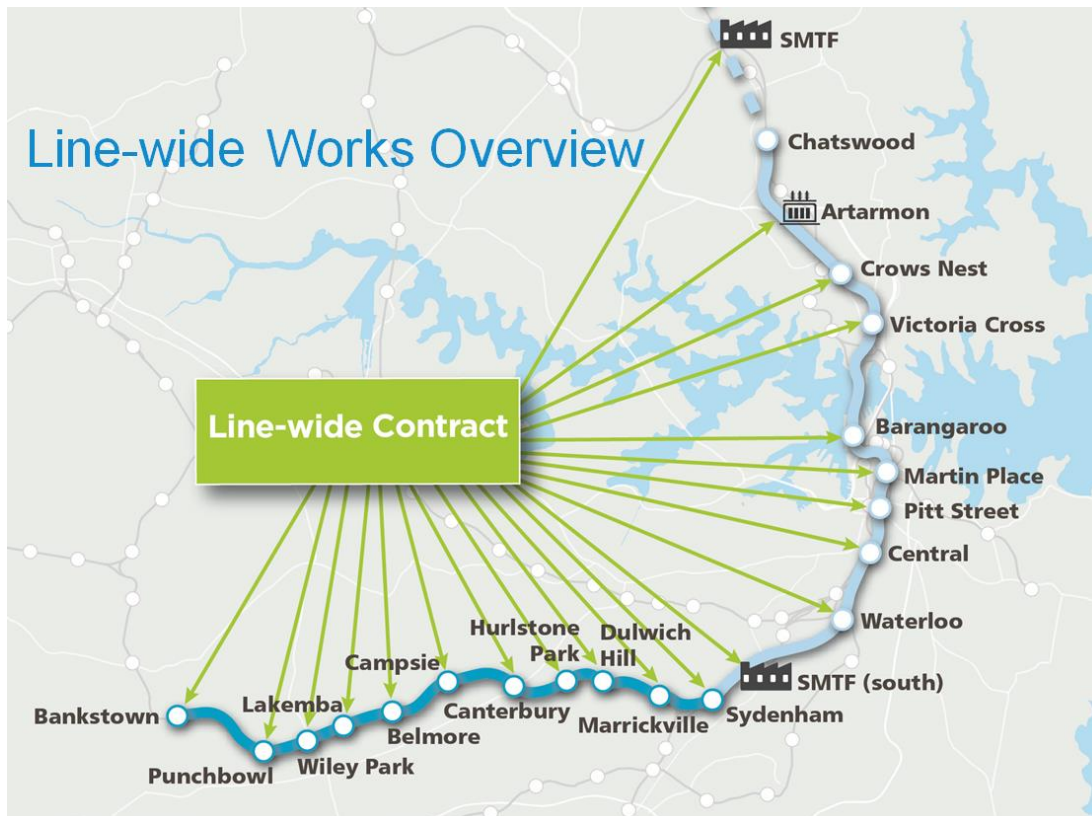


Figure 1: Line-wide Locations

1.2 Scope of this report

CPB Contractors Pty Ltd obtained the Environment Protection Licence (EPL No. 21423) from the NSW Environment Protection Authority for the Line wide (LW) Works on behalf of the Systems Connect CPB and UGL (SCLWW) Joint Venture. The licence is for construction works relating to Rail Systems Activities as defined under Schedule 1 of the Protection of the Environment Operations Act, 1997 (POEO Act). EPL No. 21423 covers the Line-wide works under CSSI 7400 between Chatswood and Sydenham.

The licence describes monitoring and reporting requirements for the LW Works, and specifically provides discharge criteria for water treatment plant and sediment basin discharge water quality.

This EPL Pollution Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21423 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)

EPL 21423 can be found by following the link below to the EPA's website:

<https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21423&id=21423&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued>

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 October 2022. 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 – October 2022

Identifier	Date	pH	Turbidity (NTU)	Oil and Grease	Comments
Point 1	1/10/2022 to 31/10/2022	7.5 - 8.5	0.7 - 8.2	None visible	Compliant
Point 2	1/10/2022 to 31/10/2022	7.3 - 8.1	1 - 5.3	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 – October 2022

Date	Location	Detailed Monitoring Location	NCA	Predicted Noise Level (dB(A))	Measured L _{Aeq} (dB(A))	Comments
4/10/2022	Northern Connection	13 Drake Street, Artarmon	CDS_05	75	69	Below predicted, LW works compliant
4/10/2022	Northern Connection	7-11 Nelson Street, Chatswood	CDS-03	66	49	Below predicted, LW works compliant
4/10/2022	Northern Connection	99 Hampden Road, Artarmon	CDS-06	79	61	Below predicted, LW works compliant
4/10/2022	Northern Connection	2 Nelson Street, Chatswood	CDS_03	74	48	Below predicted, LW works compliant

17/10/2022	Chatswood Dive	2 Nelson Street, Chatswood	CDS_03	56	49	Below predicted, LW works compliant
17/10/2022	Chatswood Dive	13 Hopetoun Avenue, Chatswood	CDS_03	36	54	Background noise dominant, LW works compliant
17/10/2022	Chatswood Dive	15 Nelson Street, Chatswood	CDS_03	48	62	Traffic noise dominant, LW works compliant
17/10/2022	Chatswood Dive	2 Nelson Street, Chatswood	CDS_03	53	48	Below predicted, LW works compliant
17/10/2022	Chatswood Dive	13 Hopetoun Avenue, Chatswood	CDS_03	33	51	Background noise dominant, LW works compliant
17/10/2022	Chatswood Dive	15 Nelson Street, Chatswood	CDS_03	45	68	Traffic noise dominant, LW works compliant
20/10/2022	Northern Connection	13 Brand Street, Artarmon	CDS_05	71	64	Below predicted, LW works compliant
20/10/2022	Northern Connection	8-10 Brand Street, Artarmon	CDS-05	68	59	Below predicted, LW works compliant

4.2 Vibration Monitoring (M4.1)

No vibration monitoring was undertaken by Systems Connect for EPL #21423 in October 2022.

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 October 2022.

5.2 Vibration Monitoring (M4.4)

Systems Connect was not directed by an authorised officer of the EPA to undertake vibration monitoring in October 2022.

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 – October 2022

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)
1/10/2022	13.6	19.9	10.4	16.4	61	SE	20	18.2	53	SSE	19
2/10/2022	10.8	19.5	0.8	13.2	86	WNW	13	17.4	61	ESE	24
3/10/2022	9.9	20.9	0	12.7	90	WNW	15	19.7	58	E	19
4/10/2022	11	21.5	0	13.9	80	W	13	21.1	55	NE	15
5/10/2022	13.8	16.9	17.6	16.2	75	E	22	15.6	90	ESE	33
6/10/2022	13.9	16.7	27.6	15.8	96	E	33	16.1	100	NNE	20
7/10/2022	14.7	21.5	91	16.7	95	ENE	9	18.9	86	NE	11
8/10/2022	16	23.1	5.6	17.2	97	W	6	19.5	93	S	13
9/10/2022	10.3	17.4	50.2	11	82	SW	24	17	60	S	17
10/10/2022	11	18.4	2.2	14.4	74	SSE	11	16.9	63	ESE	15

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)
11/10/2022	12.9	21	0	16.5	70	E	17	20.5	57	E	24
12/10/2022	12.4	20.1	0.2	15.2	87	WNW	11	19.5	70	E	17
13/10/2022	14.2	21.6	0.4	18.4	72	NE	17	21.1	63	ENE	30
14/10/2022	16.9	25.6	0.2	17.6	90	NNE	15	25	27	W	31
15/10/2022	13.3	23.6	0	16.4	59	W	20	21.9	53	ESE	19
16/10/2022	15.2	23.1	0	17.7	59	S	7	22.2	57	ESE	22
17/10/2022	14.2	19.2	41.4	14.6	99	SSE	17	18.2	71	SE	24
18/10/2022	13.7	21.3	13.8	17.7	81	E	22	18.3	83	E	22
19/10/2022	16.7	25.3	0.8	18.1	96	WNW	13	22.7	72	ESE	22
20/10/2022	17.9	23.1	0	20.2	91	SE	13	20.5	87	E	13
21/10/2022	18.6	23.3	1	20.2	95	NE	13	21.9	84	NE	26
22/10/2022	17.9	24.3	0.6	19.9	90	NE	19	21.3	84	NE	31
23/10/2022	17.9	22.3	1	19.5	91	NE	6	21.1	82	SE	15
24/10/2022	16.4	21.1	7	18	100	SE	20	20.3	94	NW	7
25/10/2022	17.4	27.3	21.2	19.1	98	WNW	15	25.1	73	ENE	20
26/10/2022	17.7	29	0.8	22	66	E	4	28.3	36	WNW	24
27/10/2022	18.2	28.2	0	22	54	WNW	15	22.5	65	NNW	20
28/10/2022	15.4	25.9	1.4	19.4	46	W	24	23.2	29	WNW	31
29/10/2022	15.1	27.5	0.2	18.8	44	W	26	26.9	29	NNW	19

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)
30/10/2022	13.9	23.6	0	17.9	47	WSW	9	22.1	50	ENE	24
31/10/2022	16.5	27.6	0	21.4	65	E	13	25.9	60	WNW	6

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 October 2022.

7.2 Vibration Monitoring (M7.5)

Vibration monitoring was not undertaken in response to a complaint in October 2022.

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.