Month and Year	May 2023								JOHN
roject	Sydenham Metro upgrade								LAING O'ROURKE HOLLAND
PL License No.	21147								HOLLAND
PL Weblink	https://apps.epa.nsw.gov.au/prpoe	oapp/Detail.aspx?inst	id=21147&id=21147	&option=licence&s	earchrange=licence&	range=POEO%20licence&p	rp=no&status=Issued		
	M2 - Requirement to monitor con	centration of pollutar	nts discharged						
pecific EPL monitoring conditions									
pecific EPL monitoring conditions									
Monitoring Location	Number of times monitored	Event based	Parameter eg.	Unit eg. mg/L	Minimum	Maximum	Allemanda	allacordo agratados	Comment
		Event based monitoring (Y/N)	Parameter eg. TSS, pH	Unit eg. mg/L	Minimum value for	Maximum value for	Allowable Maximum	Allowable Minimum	Comment
pecific EPL monitoring conditions Monitoring Location	Number of times monitored			Unit eg. mg/L	-		Allowable Maximum limit	Allowable Minimum limit	Comment

Noise Monitoring Data - Monthly Summary

Month and Year	May 2023
Project	Sydenham Metro upgrade
FDI license No	211/17



EPI Weblink https://apps.epa.nsw.gov.au/prpoeaapp/Detail.aspx?instid=21147&id=21147&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued_

Specific EPL monitoring M7.1 - Noise monitoring

Monitoring Location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. LAeq (15min)	Unit	Min value dB(A) for month	Max value dB(A) for month	Goals / targets dB(A)	Comment			
WE45 NCA01 80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville	Friday 5/05/23 Night	Continuous	Υ	LAeq (15min)	dB(A)	N/A	99	82	RBL: 33 dB LAeq15min below predictions. Highest LAeq15min value of 49.757 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.			
80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville	Saturday 6/05/2023 Day	Continuous	Y	LAeq (15min)	dB(A)	N/A	83	78	RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 58.533 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Respite provided to residents			
80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville	6/05/2023 Night	Continuous	Y	LAeq (15min)	dB(A)	N/A	85	80	RBL: 33 dB Laeq15min below predictions. Highest Laeq15min value of 56.673 dB due to general construction noise between the hours of 22:00 pm and 07:00 am. Respite and alternate accommodation provided to residents.			
80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville	Sunday 7/05/2023 Day	Continuous	Y	LAeq (15min)	dB(A)	N/A	87	84	RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 56.902 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Respite provided to residents.			
NCA02 12m north of 83 Ewart Street, 100m north-west of new site entrance, Dulwich Hill	Friday 5/05/23 Night	Continuous	Υ	LAeq (15min)	dB(A)	N/A	94	76	RBL: 33 dB LAeq15min below predictions. Highest LAeq15min value of 49.218 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.			
12m north of 83 Ewart Street, 100m north-west of new site entrance, Dulwich Hill	Saturday 6/05/2023 Day	Continuous	Υ	LAeq (15min)	dB(A)	N/A	102	76	RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 63.026 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Respite provided to residents.			
12m north of 83 Ewart Street, 100m north-west of new site entrance, Dulwich Hill	6/05/2023 Night	Continuous	Y	LAeq (15min)	dB(A)	N/A	87	76	RBI: 33 dB LAeq15min below predictions. Highest LAeq15min value of 69.921 dB due to general construction noise between the hours of 22:00 pm and 07:00 am. Respite and alternate accommodation provided to residents.			
12m north of 83 Ewart Street, 100m north-west of new site entrance, Dulwich Hill	Sunday 7/05/2023 Day	Continuous	Y	LAeq (15min)	dB(A)	N/A	96	76	RBI: 38 LAeq15min below predictions. Highest LAeq15min value of 63.980 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Respite provided to residents			
NCA03 5m south of 48A Kilbride Street and 72m east of Melford Street, Hurlstone Park	Friday 5/05/23 Night	Continuous	Υ	LAeq (15min)	dB(A)	N/A	96	80	RBL: 34 dB LAeq15min below predictions. Highest LAeq15min value of 51.588 dB due to general construction noise between the hours of 12:00 pm and 07:00 am. Respite and alternate accommodation provided to residents.			
5m south of 48A Kilbride Street and 72m east of Melford Street, Hurlstone Park	Saturday 6/05/2023 Day	Continuous	Y	LAeq (15min)	dB(A)	N/A	91	78	RBL: 38 Laeq15min below predictions. Highest Laeq15min value of 58.336 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Respite provided to residents.			
om south of 48A Kilbride Street and 72m east of Melford Street, Hurlstone Park	6/05/2023 Night	Continuous	Y	LAeq (15min)	dB(A)	N/A	89	79	RBI: 34 dB LAeq15min below predictions. Highest LAeq15min value of 62.584 dB due to general construction noise between the hours of 22:00 pm and 07:00 am. Respite and alternate accommodation provided to residents.			
5m south of 48A Kilbride Street and 72m east of Melford Street, Hurlstone Park	Sunday 7/05/2023 Day	Continuous	Υ	LAeq (15min)	dB(A)	N/A	99	78	RBI: 38 LAeq15min below predictions. Highest LAeq15min value of 68.842 dB due to general construction noise between the hours of 072:00 am and 22:00 pm. Respite provided to residents.			
NCA05 28m north of 28 South Parade, 13m north-west of site entrance, Campsie	Friday 5/05/23 Night	Continuous	Y	LAeq (15min)	dB(A)	N/A	84	74	RBL: 32 dB LAeq15min below predictions. Highest LAeq15min value of 54.543 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.			
28m north of 28 South Parade, 13m north-west of site entrance, Campsie	Saturday 6/05/2023 Day	Continuous	Υ	LAeq (15min)	dB(A)	N/A	96	74	RBL: 36 LAeq15min below predictions. Highest LAeq15min value of 54.081 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Respite provided to residents.			
28m north of 28 South Parade, 13m north-west of site entrance, Campsie	6/05/2023 Night	Continuous	Y	LAeq (15min)	dB(A)	N/A	79	74	RBI: 32 dB LAeq15min below predictions. Highest LAeq15min value of 55.098 dB due to general construction noise between the hours of 22:00 pm and 07:00 am. Respite and alternate accommodation provided to residents.			

28m north of 28 South Parade,	Sunday	Continuous	V	LAeq	dB(A)	N/A	89	74	• RBL: 36
		Continuous	Y		uB(A)	N/A	89	74	LAeq15min below predictions.
43m north-west of site	7/05/2023			(15min)					Highest LAeq15min value of 55.446 dB due to general construction noise between the
entrance, Campsie	Day								hours of 07:00 am and 22:00 pm.
									Respite provided to residents.
WE47	Saturday	Continuous	Y	LAea	dB(A)	N/A	96	59	• RBL: 38
	20/05/2023			(15min)	,	, , , , , , , , , , , , , , , , , , ,			LAeq15min below predictions.
NCA01	Day			(25)					 The calculated actual LAeq15min value at nearest resident is 59 dB due to general
80m north-west of 17	Day								construction noise between the hours of 07:00 am an 22:00 pm. • Predicted noise levels did not trigger offers for Respite and alternate accommodation.
Warburton Street, 30m (across									Predicted noise levels did not trigger offers for Respite and alternate accommodation.
track) south-west of 20 Arthur									
Street, Marrickville									
80m north-west of 17	Sunday	Continuous	Y	LAeq	dB(A)	N/A	100	59	RBL: 38
Warburton Street, 30m (across	21/05/2023			(15min)	,	, , , , , , , , , , , , , , , , , , ,			LAeq15min below predictions.
track) south-west of 20 Arthur	Day			(25)					 Highest LAeq15min value of 55.83 dB due to general construction noise between the hours
Street, Marrickville	Day								of 07:00 am and 22:00 pm.
									Predicted noise levels did not trigger offers for Respite and alternate accommodation RBL: 41
NCA07	Saturday	Continuous	Υ	LAeq	dB(A)	N/A	89	64	RBL: 41 LAeq15min below predictions.
110m east of Cecilia Street,	20/05/2023			(15min)					The calculated actual LAeq15min value at nearest resident is 62 dB due to general
25m south of 10 Redman	Day								construction noise between the hours of 07:00 am and 22:00 pm.
Parade, Belmore									Predicted noise levels did not trigger offers for Respite
110m east of Cecilia Street.	Sunday	Continuous	V	LAeq	dB(A)	N/A	Data	64	• RBL: 41
25m south of 10 Redman	21/05/2023	Continuous		(15min)	ub(A)	14/75	invalid	04	LAeq15min below predictions.
Parade, Belmore				(1311111)			IIIVallu		 21/05/23 wind speed recorded at 17.5 m/s, exceeding the RTA monitoring guideline wind
Parade, Beimore	Day								speed limit (5 m/s). Noise monitoring data is invalid.
									Predicted noise levels did not trigger offers for Respite
NCA09	Saturday	Continuous	Υ	LAeq	dB(A)	N/A	96	67	• RBL: 44
120m east of Alice Street North	20/05/2023			(15min)					 LAeq15min below predictions. Highest LAeq15min value of 66.61 dB due to general construction noise between the hours
and 35m south of 67 Railway	Day								of 07:00 am and 22:00 pm.
Parade, Lakemba	·								Predicted noise levels did not trigger offers for Respite
120m east of Alice Street North	Sunday	Continuous	Υ	LAea	dB(A)	N/A	87	67	BBI : 44 BBI : 44
and 35m south of 67 Railway	21/05/2023	Continuous	'	(15min)	UD(A)	IN/A	67	07	LAeg15min below predictions.
Parade, Lakemba	21/03/2023 Dav			(1311111)					 Highest LAeq15min value of 66.759 dB due to general construction noise between the
Parade, Lakemba	Day								hours of 07:00 am and 22:00 pm.
									Predicted noise levels did not trigger offers for Respite
NCA11	Friday	Continuous	Υ	LAeq	dB(A)	N/A	N/A	N/A	No Construction Activities during this period.
40 m west of Stacy Street, 10	19/05/2023			(15min)					Background noise level (LAeq15min) was observed at 61 dB during 12:00 am to 7:00 am
m north of South Terrace.	Night								
Bankstown	Ü								
40 m west of Stacy Street, 10	Saturday	Continuous	Υ	LAea	dB(A)	N/A	Data	58	• RBI: 47
m north of South Terrace,	21/05/2023	Continuous	'	(15min)	UD(A)	IN/A	invalid	36	Monitoring data invalid – crew conversations at the location of the monitor
				(1311111)			IIIVallu		 Background LAeq15min value of 61 dB was observed during 12:00 am to 7:00 am, the
Bankstown	Day								background noise is higher than the predicted construction noise (LAeq15min value of 58
									dB)
									Predicted noise levels did not trigger offers for Respite
40 m west of Stacy Street, 10	Saturday	Continuous	Υ	LAeq	dB(A)	N/A	73	58	RBL: 39 - RBL: 3
m north of South Terrace,	21/05/2023			(15min)					 Excessive traffic from adjacent road during monitoring period Background LAeq15min value of 61 dB was observed during 12:00 am to 7:00 am, the
Bankstown	Night								background noise is higher than the predicted construction noise (LAea15min value of 58
									dB)
									Respite provided to residents.
40 m west of Stacy Street, 10	Sunday	Continuous	Υ	LAeq	dB(A)	N/A	Data	58	• RBL: 47
m north of South Terrace.	21/05/2023			(15min)	,	, , , , , , , , , , , , , , , , , , ,	invalid		 Excessive traffic from adjacent road during monitoring period
Bankstown	Day			(25)					 Background LAeq15min value of 61 dB was observed during 12:00 am to 7:00 am, the
Dalikstowii	Day								background noise is higher than the predicted construction noise (LAeq15min value of 58 dB)
									 Wind speed on the day recorded at 17.5 m/s, exceeding the RTA monitoring guideline wind
									speed limit (5 m/s). Noise monitoring data is invalid.
									Predicted noise levels did not trigger offers for Respite

Vibration Monitoring Data - Monthly Summary											
Month and Year	May 2023								JAING CERTIFIE		
Project	Sydenham Metro upgrade								LAING O'ROURKE HOLLAND		
EPL license No.	21147										
EPL Weblink	https://apps.epa.nsw.gov.au/pr	poeoapp/Detail.aspx?in	stid=21147&id=2114	17&option=licence	&searchrange=licen	nce⦥=POEO%	620licence&prp=no&status=Iss	<u>ue</u> d			
Specific EPL monitoring conditions	M7.2 - Vibration monitoring	M7.2 - Vibration monitoring									
Monitoring Location	Number of times monitored during the month	Goals/Targets	Comment								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No activities requiring vibration monitoring		