



Water Monitoring Data - Monthly Summary

Month and Year	Feb 2024	<div><div></div><div>LAING O'ROURKE</div></div> <div><div>JOHN HOLLAND</div></div>							
Project	Sydenham Metro upgrade								
EPL License No.	21147								
EPL Weblink	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&id=21147&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued								
Specific EPL monitoring conditions	M2 - Requirement to monitor concentration of pollutants discharged								
Monitoring Location	Number of times monitored during the month	Eventbased monitoring (Y/N)	Parameter eg. TSS, pH	Unit eg mg/L	Minimum valuefor month	Maximum valuefor month	AllowableMaximum limit	AllowableMinimum limit	Comment
South WestMetroCorridor Waterways									No activities requiring water monitoring



Noise Monitoring Data - Monthly Summary



Month and Year	Feb 2024	 
Project	Sydenham Metro upgrade	
EPL license No.	21147	
EPL Weblink	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&id=21147&option=licence&searchchange=licence&range=POEO%20licence&prp=no&status=Issued	
Specific EPL monitoring conditions	M7.1 - Noise monitoring	

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq, 15min at resident	Compliant	Comments
1	Location a (NCA01) 21m N of 17 Warburton St, Marrickville Continues Monitoring	04/02/2024	Day to Evening 7:00 to 22:00	General track related construction activities	<ul style="list-style-type: none"> Excavators 3T, 6 and 13T (inc jack hammer attachments) Balloon tyre dump trucks (Hydrema) Light vehicles Trucks Payloader Handheld powered and non-powered tools Vac Trucks EWV/telehandler Front-end loader Concrete truck and line pump Portable Generators Compressors Compactor Bogie Water pumps 4T Dumpy Site lights 	65 (Calculated highest LAeq in work period at the nearest resident is 62)	64	YES	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 62 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (62 dB) is higher than the predicted level (64 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
2	Location b (NCA02) 14m N of Kays Ave East, Dulwich Hill Continues Monitoring					67 (Calculated highest LAeq in work period at the nearest resident is 65)	64	YES	<ul style="list-style-type: none"> RBL: 38 LAeq15min above the predictions, however the exceedance did not change additional mitigation measures. Noise monitor detect highest LAeq15min value of 65 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (65 dB) is higher than the predicted level (64 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
3	Location c (NCA02) 10m N of 73 Ewart St, Dulwich Hill Continues Monitoring					77	38 ¹	YES	<ul style="list-style-type: none"> RBL: 38 The noise monitor recorded a highest LAeq15min value of 77 dB. This daytime noise level of 77 dB appears consistent with the actual background noise when there are no construction activities². In this respect exceedance was considered not to be influenced by construction activities between the hours 07:00 to 22:00 Live ARTC freight train 25m from monitoring location
4	Location d (NCA03) 18m S of 74-76 Floss St, Hurststone Park Continues Monitoring					68 (Calculated highest LAeq in work period at the nearest resident is 64)	57	YES	<ul style="list-style-type: none"> RBL: 38 LAeq15min above the predictions, however the exceedance did not change additional mitigation measures. Noise monitor detect highest LAeq15min value of 64 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (64 dB) is higher than the predicted level (57 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
5	Location e (NCA07) 13m NW of 25-29 Loftus St, Campsie Continues Monitoring					55	61	YES	<ul style="list-style-type: none"> RBL: 41 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 55 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (55 dB) is higher than the predicted level (61 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
6	Location f (NCA08) 26m S of 17 Railway Pde, Lakemba Continues Monitoring					58	47 ¹	YES	<ul style="list-style-type: none"> RBL: 47 LAeq15min above the predictions, however the exceedance did not change additional mitigation measures. Noise monitor detect highest LAeq15min value of 58 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (58 dB) is higher than the predicted level (47 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
7	Location g (NCA09) 15m S CNR of Alice and Railway Parade Wiley Park Continues Monitoring					60	75	YES	<ul style="list-style-type: none"> RBL: 44 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 60 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (60 dB) is higher than the predicted level (75 dB) Predicted noise levels (Day shift works) in this area triggered offers for Respite.
8	Location h (NCA12) 30m N of 232 South Terrace, Bankstown Continues Monitoring					61	64	YES	<ul style="list-style-type: none"> RBL: 54 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 61 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (61 dB) is higher than the predicted level (64 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq, 15min at resident	Compliant	Comments
1	Location a (NCA01) 21m N of 17 Warburton St, Marrickville Continues Monitoring	17/02/2024	Night 22:00 to 7:00 (Modeled from 18:00 to 7:00)	General track related construction activities	<ul style="list-style-type: none"> Excavators 3T, 6 and 13T (inc jack hammer attachments) Balloon tyre dump trucks (Hydrema) Light vehicles Trucks Payloader Handheld powered and non-powered tools Vac Trucks EWB/telehandler Front-end loader Concrete truck and line pump Portable Generators Compressors Compactor Bogie Water pumps 4T Dumpy Site lights 	69 (Calculated highest LAeq in work period at the nearest resident is 67)	69	YES	<ul style="list-style-type: none"> RBL: 33 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 67 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (67 dB) is higher than the predicted level (69 dB) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
2	Location b (NCA02) 30m W of 22 Kays Ave West, Dulwich Hill Continues Monitoring					70	<ul style="list-style-type: none"> No construction activity within 200 m radius. Noise level being logged related to ARTC freight train. 		
3	Location c (NCA02) 10m N of 73 Ewart St, Dulwich Hill Continues Monitoring					69 (Calculated highest LAeq in work period at the nearest resident is 67)	67	YES	<ul style="list-style-type: none"> RBL: 33 LAeq15min matches predictions. Noise monitor detect highest LAeq15min value of 67 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (67 dB) is equal to the predicted level (67 dB) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
4	Location d (NCA03) 18m S of 74-76 Floss St, Hurlstone Park Continues Monitoring					68	<ul style="list-style-type: none"> No construction activity within 200 m radius. Noise level being logged related to ARTC freight train. 		
5	Location e (NCA07) 13m NW of 25-29 Loftus St, Campsie Continues Monitoring					56	59	YES	<ul style="list-style-type: none"> RBL: 35 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56 dB due to general construction noise between the hours 22:00 to 07:00. The Highest LAeq in work period (56 dB) is higher than the predicted level (59 dB) Predicted noise levels (Night shift works) in this area triggered offers for Respite.
6	Location f (NCA08) 26m S of 17 Railway Pde, Lakemba Continues Monitoring					48	<ul style="list-style-type: none"> No construction activity within 200 m radius. Noise level being logged related to traffic. 		
7	Location g (NCA09) 15m S CNR of Alice and Railway Parade Wiley Park Continues Monitoring					54	<ul style="list-style-type: none"> No construction activity within 200 m radius. Noise level being logged related to traffic. 		
8	Location h (NCA12) 30m N of 232 South Terrace, Bankstown Continues Monitoring					61	<ul style="list-style-type: none"> No construction activity within 200 m radius. Noise level being logged related to traffic. 		

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq, 15min at resident	Compliant	Comments
1	Location a (NCA01) 21m N of 17 Warburton St, Marrickville Continues Monitoring	18/02/2024	Day to Evening 7:00 to 22:00	General track related construction activities	<ul style="list-style-type: none"> Excavators 3T, 6 and 13T (inc jack hammer attachments) Balloon tyre dump trucks (Hydrema) Light vehicles Trucks Payloader Handheld powered and non-powered tools Vac Trucks EWB/telehandler Front-end loader Concrete truck and line pump Portable Generators Compressors Compactor Bogie Water pumps 4T Dump Site lights 	64	66	YES	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 64 dB due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (64 dB) is lower than the predicted level (66 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
2	Location b (NCA02) 30m W of 22 Kays Ave West, Dulwich Hill Continues Monitoring					70	58	YES	<ul style="list-style-type: none"> RBL: 38 Refer to Table 1 - Reference Number 1, with the actual background noise when there are no construction activities is 70 dB. The noise monitor recorded a highest LAeq15min value of 70 dB. This daytime noise level of 70 dB appears consistent with the actual background noise when there are no construction activities. In this respect exceedance was considered not to be influenced by construction activities between the hours 07:00 to 22:00 Live ARTC freight train 6m from monitoring location
3	Location c (NCA02) 10m N of 73 Ewart St, Dulwich Hill Continues Monitoring					73	68	YES	<ul style="list-style-type: none"> RBL: 38 The noise monitor recorded a highest LAeq15min value of 73 dB. This daytime noise level of 73 dB appears consistent with the actual background noise when there are no construction activities¹. In this respect exceedance was considered not to be influenced by construction activities between the hours 07:00 to 22:00 Live ARTC freight train 25m from monitoring location
4	Location d (NCA03) 18m S of 74-76 Floss St, Hurststone Park Continues Monitoring					69	56	YES	<ul style="list-style-type: none"> RBL: 38 Refer to Table 1 - Reference Number 4, with the actual background noise when there are no construction activities is 68 dB. The noise monitor recorded a highest LAeq15min value of 69 dB. This daytime noise level of 69 dB appears consistent with the actual background noise when there are no construction activities. In this respect exceedance was considered not to be influenced by construction activities between the hours 07:00 to 22:00 Live ARTC freight train 7m from monitoring location
5	Location e (NCA07) 13m NW of 25-29 Loftus St, Campsie Continues Monitoring					62	62	YES	<ul style="list-style-type: none"> RBL: 41 LAeq15min matches predictions. Noise monitor detect highest LAeq15min value of 62 dB due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (67 dB) is equal to the predicted level (67 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite. Actual noise levels (Day shift works) in this area did not trigger offers for Respite.
6	Location f (NCA08) 26m S of 17 Railway Pde, Lakemba Continues Monitoring					55	56	YES	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 55 dB due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (55 dB) is higher than the predicted level (56 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.
7	Location g (NCA09) 15m S CNR of Alice and Railway Parade Wiley Park Continues Monitoring					53	54	YES	<ul style="list-style-type: none"> RBL: 44 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 53 dB due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (53 dB) is higher than the predicted level (54 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.
8	Location h (NCA12) 30m N of 232 South Terrace, Bankstown Continues Monitoring					59	66	YES	<ul style="list-style-type: none"> RBL: 54 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 59 dB due to general construction noise between the hours 07:00 to 22:00. The Highest LAeq in work period (59 dB) is higher than the predicted level (66 dB) Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.

Vibration Monitoring Data - Monthly Summary

Month and Year	Feb 2024									
Project	Sydenham Metro upgrade									
EPL license No.	21147									
EPL Weblink	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&id=21147&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued									
Specific EPL monitoring conditions	M7.2 - Vibration monitoring									
Monitoring Location	Number of times monitored during the month	Attended or continuous monitoring	Eventbased monitoring (Y/N)	Parameter eg. PPV	Unit	Minimum value for month	Maximum value for month	Goals/Targets	Comment	
South West Metro Corridor									No activities requiring vibration monitoring	