





Water Monitoring Data - Monthly Summary

Month and Year	June 2024	 							
Project	Sydenham Metro upgrade								
EPL License No.	21147								
EPL Weblink	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&amp;id=21147&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&amp;id=21147&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>								
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	June 2024	 
Project	Sydenham Metro upgrade	
EPL license No.	21147	
EPL Weblink	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&amp;id=21147&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&amp;id=21147&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>	
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,15min in work period at Monitoring Location (dBA)	Predicted noise level LAeq,15min at resident (dBA)	Compliant	Comments
1	NCA 12 Bankstown  • Continuous Monitoring  • Location: 25m east of West Terrace Rail Bridge 6m south of track	27/05/2024 To 28/05/2024	Night 22:00 to 7:00	<ul style="list-style-type: none"> <li>Installation of Security Fence on West Terrace Rail Bridge balustrade</li> </ul>	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>EWP/telehandler</li> <li>Powered hand tool</li> <li>Site Lights</li> </ul>	60	70	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 25m from working location.</li> <li>Nearest sensitive receiver's façade is 40m from working location.</li> <li>LAeq15min at monitoring location was below predictions at the nearest sensitive receiver.</li> <li>Noise monitor detect highest LAeq15min value of 60 dB NOT related to general construction noise between the hours of 22:00 and 07:00.</li> <li>The Highest LAeq in work period (60 dB) is lower than the predicted level (70 dB)</li> <li>Predicted noise levels in this area triggered offers for Respite (RO).</li> </ul>
2		28/05/2024 To 29/05/2024	Night 22:00 to 7:00	<ul style="list-style-type: none"> <li>Installation of Security Fence on West Terrace Rail Bridge balustrade</li> <li>Cable pulling from Bankstown Station to Stacey Street inside corridor</li> </ul>	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>EWP/telehandler</li> <li>Powered hand tool</li> <li>Site Lights</li> <li>2T Wrench</li> </ul>	61	71	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 25m from working location.</li> <li>Nearest sensitive receiver's façade is 40m from working location.</li> <li>LAeq15min at monitoring location was below predictions at the nearest sensitive receiver.</li> <li>Noise monitor detect highest LAeq15min value of 61 dB NOT related to general construction noise between the hours of 22:00 and 07:00.</li> <li>The Highest LAeq in work period (61 dB) is lower than the predicted level (70 dB)</li> <li>Predicted noise levels in this area triggered offers for Respite (RO).</li> </ul>
3		29/05/2024 To 30/05/2024	Night 22:00 to 7:00	<ul style="list-style-type: none"> <li>Installation of Security Fence on West Terrace Rail Bridge balustrade</li> <li>Cable pulling from Bankstown Station to Stacey Street inside corridor</li> </ul>	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>EWP/telehandler</li> <li>Powered hand tool</li> <li>Site Lights</li> <li>2T Wrench</li> </ul>	61	71	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 25m from working location.</li> <li>Nearest sensitive receiver's façade is 40m from working location.</li> <li>LAeq15min at monitoring location was below predictions at the nearest sensitive receiver.</li> <li>Noise monitor detect highest LAeq15min value of 61 dB NOT related to general construction noise between the hours of 22:00 and 07:00.</li> <li>The Highest LAeq in work period (61 dB) is lower than the predicted level (70 dB)</li> <li>Predicted noise levels in this area triggered offers for Respite (RO).</li> </ul>
4		30/05/2024 To 31/05/2024	Night 22:00 to 7:00	<ul style="list-style-type: none"> <li>Cable pulling from Bankstown Station to Stacey Street inside corridor</li> </ul>	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>Site Lights</li> <li>2T Wrench</li> </ul>	60 <sup>1</sup>	38	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Background highest LAeq15min value during the night period (22:00-07:00) without construction activity is consistently around 60 dBA.<sup>1</sup></li> <li>As the construction activities were significantly far away from the monitor to have no impact, the noise model predicted noise levels lower than the RBL. The exceedance was considered not to be influenced by construction activities.</li> <li>Predicted noise levels (weekend works) near this area do not trigger offers for Respite.</li> <li>Actual noise levels (weekend works) in this area do not trigger offers for Respite.</li> </ul>

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location (dBA)	Predicted noise level LAeq, 15min at resident (dBA)	Compliant	Comments
1	Location a (NCA01 – HEX483) Adjacent to 29 & 31 Leofrene Ave back wall, Marrickville Continues Monitoring	1/06/2024 To 2/06/2024	Night 22:00 to 7:00 (Modeled from 18:00 to 7:00)	General track related construction activities	<ul style="list-style-type: none"> <li>Excavators 3T, 6 and 13T (inc jack hammer attachments)</li> <li>Balloon tyre dump trucks (Hydrema)</li> <li>Light vehicles</li> <li>Trucks</li> <li>Payloader</li> <li>Handheld powered and non-powered tools</li> <li>Vac Trucks</li> <li>ERP/telehandler</li> <li>Front-end loader</li> <li>Concrete truck and line pump</li> <li>Portable Generators</li> <li>Compressors</li> <li>Compactor</li> <li>Bogie</li> <li>Water pumps</li> <li>4T Dump</li> <li>Site lights</li> </ul>	60	71	YES	<ul style="list-style-type: none"> <li>RBL: 33 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 60 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (60 dBA) is lower than the predicted level (71 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
2	Location b (NCA02 – HEX537) 12m N of 1 Ewart Ln, Dulwich Hill Continues Monitoring					66	76	YES	<ul style="list-style-type: none"> <li>RBL: 33</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 66 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (66 dBA) is lower than the predicted level (76 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
3	Location c (NCA02 – HEX282) 11m N of 81 Ewart St, Dulwich Hill Continues Monitoring					71	44	YES	<ul style="list-style-type: none"> <li>RBL: 33 dBA</li> <li>LAeq15min is above the predictions.</li> <li>No JHLOR construction activity within 200m radius.</li> <li>Noise monitor detect highest LAeq15min value of 71 dBA due to ARTC freight train noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (71 dBA) is higher than the predicted level (44 dBA)</li> <li>Predicted noise levels (Night shift works) in this area did not trigger offers for Respite.</li> <li>Actual Noise level do not consistent with the prediction due to the ARTC freight train.</li> <li>No additional mitigation measures required.</li> </ul>
4	Location d (NCA03 – HEX419) 20m N of 5 Railway St, Hurlstone Park Continues Monitoring					64	67	YES	<ul style="list-style-type: none"> <li>RBL: 34 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 64 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (64 dBA) is lower than the predicted level (67 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
5	Location e (NCA06 - HEX344) 25m S of 1 Assets St, Campsie Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 70</li> <li>Excluding Freight train, the construction related highest LAeq detected to be 64<sup>1</sup></li> <li>Due to the monitoring location is 25m from the noise source and sensitive receiver is 42m from the noise source, the <u>calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 59</u></li> </ul>	61	YES	<ul style="list-style-type: none"> <li>RBL: 35 dBA</li> <li>Calculated construction related highest LAeq15min below the predictions.</li> <li>Calculated construction related highest LAeq15min value of 59 dBA related to general construction noise between the hours 22:00 to 07:00.</li> <li>The calculated construction related highest LAeq in work period (59 dBA) is lower than the predicted level (61 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> <li>Actual Noise level (Nightshift works) consistent with the predicted offers for Respite</li> <li>No additional mitigation measures required.</li> </ul>
6	Location f (NCA07 - HEX505) 5m E of 1 Hall St, Belmore Continues Monitoring					62	70	YES	<ul style="list-style-type: none"> <li>RBL: 35 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 62 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (62 dBA) is lower than the predicted level (70 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
7	Location g (NCA08 – HEX315) 35m SE of 54A Railway Parade, Lakemba Continues Monitoring					54	64	YES	<ul style="list-style-type: none"> <li>RBL: 35 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 54 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (54 dBA) is lower than the predicted level (64 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
8	Location h (NCA12 - HEX516) 45m NW of 2 A West Terrace, Bankstown Continues Monitoring					64	68	YES	<ul style="list-style-type: none"> <li>RBL: 42 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 64 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (64 dBA) is lower than the predicted level (68 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>

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 – HEX483) Adjacent to 29 & 31 Leofrene Ave back wall, Marrickville Continues Monitoring	2/06/2024	Day to Evening 7:00 to 15:00	General track related construction activities	<ul style="list-style-type: none"> <li>Excavators 3T, 6 and 13T (inc jack hammer attachments)</li> <li>Balloon tyre dump trucks (Hydrema)</li> <li>Light vehicles</li> <li>Trucks</li> <li>Payloader</li> <li>Handheld powered and non-powered tools</li> <li>Vac Trucks</li> <li>EW/telehandler</li> <li>Front-end loader</li> <li>Concrete truck and line pump</li> <li>Portable Generators</li> <li>Compressors</li> <li>Compactor</li> <li>Bogie</li> <li>Water pumps</li> <li>4T Dumpy</li> <li>Site lights</li> </ul>	66	64	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>LAeq15min above predictions.</li> <li>Noise monitor detect highest LAeq15min value of 66 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (66 dBA) is higher than the predicted level (64 dB)</li> <li>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> <li>Actual noise levels (Day shift works) in this area did not trigger offers for Respite.</li> <li>No additional mitigation measures required.</li> </ul>
2	Location b (NCA02 – HEX537) 12m N of 1 Ewart Ln, Dulwich Hill Continues Monitoring		Day to Evening 7:00 to 15:15			71	75	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 71 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (71 dBA) is lower than the predicted level (75 dBA)</li> <li>Predicted noise levels (Day shift works) in this area triggered offers for Respite.</li> </ul>
3	Location c (NCA02 – HEX282) 11m N of 81 Ewart St, Dulwich Hill Continues Monitoring		Day to Evening 7:00 to 15:30			<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 72</li> <li>Excluding Freight train, the construction related highest LAeq detected to be 68<sup>1</sup></li> <li>Due to the monitoring location is 7m from the noise source and sensitive receiver is 18m from the noise source, the <u>calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 80</u></li> </ul>	64	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>Calculated construction related highest LAeq15min below the predictions.</li> <li>Calculated construction related highest LAeq15min value of 60 dBA not related to general construction noise between the hours 22:00 to 07:00.</li> <li>The calculated construction related highest LAeq in work period (60 dBA) is lower than the predicted level (64 dBA)</li> <li>However Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> <li>Actual noise levels (Day shift works) in this area did not trigger offers for Respite.</li> <li>No additional mitigation measures required.</li> </ul>
4	Location d (NCA03 – HEX419) 20m N of 5 Railway St, Hurlstone Park Continues Monitoring		Day to Evening 7:00 to 22:00			63	64	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 63 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (63 dBA) is lower than the predicted level (64 dBA)</li> <li>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> </ul>
5	Location e (NCA06 - HEX344) 25m S of 1 Assets St, Campsie Continues Monitoring		Day to Evening 7:00 to 22:00			70	72	YES	<ul style="list-style-type: none"> <li>RBL: 45 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 70 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (70 dBA) is lower than the predicted level (72 dBA)</li> <li>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> </ul>
6	Location f (NCA07 - HEX505) 5m E of 1 Hall St, Belmore Continues Monitoring		Day to Evening 7:00 to 22:00			65	70	YES	<ul style="list-style-type: none"> <li>RBL: 41 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (65 dBA) is lower than the predicted level (70 dB)</li> <li>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> </ul>
7	Location g (NCA08 – HEX315) 35m SE of 54A Railway Parade, Lakemba Continues Monitoring		Day to Evening 7:00 to 22:00			58	63	YES	<ul style="list-style-type: none"> <li>RBL: 47 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 58 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (58 dBA) is lower than the predicted level (63 dBA)</li> <li>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> </ul>
8	Location h (NCA12 - HEX516) 45m NW of 2 A West Terrace, Bankstown Continues Monitoring		Day to Evening 7:00 to 22:00			68	72	YES	<ul style="list-style-type: none"> <li>RBL: 54 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 68 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (68 dBA) is lower than the predicted level (72 dBA)</li> <li>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</li> </ul>

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq,15min in work period at Monitoring Location (dBA)	Predicted noise level LAeq,15min at resident (dBA)	Compliant	Comments
1	NCA 12 Bankstown <ul style="list-style-type: none"> <li>Continuous Monitoring</li> <li>Location: 25m east of West Terrace Rail Bridge 6m south of track</li> </ul>	12/06/2024 To 13/06/2024	Night 22:00 to 7:00	Installation of Security Fence on West Terrace Rail Bridge balustrade	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>EWP/telehandler</li> <li>Powered hand tool</li> <li>Site Lights</li> </ul>	<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 64</li> <li>Excluding Non-construction related noise, the construction related highest LAeq detected to be 61<sup>1</sup></li> </ul>	62	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 25m from working location.</li> <li>Nearest sensitive receiver's façade is 40m from working location.</li> <li>Construction related LAeq15min at monitoring location was below predictions at the nearest sensitive receiver.</li> <li>Noise monitor detect highest LAeq15min value of 60 dB NOT related to general construction noise between the hours of 22:00 and 07:00.</li> <li>The construction related highest LAeq in work period (61 dB) is lower than the predicted level (62 dB)</li> <li>Predicted noise levels in this area triggered offers for Respite (RO).</li> </ul>
2		13/06/2024 To 14/06/2024	Night 22:00 to 7:00	Installation of Security Fence on West Terrace Rail Bridge balustrade	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>EWP/telehandler</li> <li>Powered hand tool</li> <li>Site Lights</li> </ul>	61	62	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 25m from working location.</li> <li>Nearest sensitive receiver's façade is 40m from working location.</li> <li>LAeq15min at monitoring location was below predictions at the nearest sensitive receiver.</li> <li>The Highest LAeq in work period (61 dB) is lower than the predicted level (72 dB)</li> <li>Predicted noise levels in this area triggered offers for Respite (RO).</li> </ul>
3		14/06/2024 To 15/06/2024	Night 22:00 to 7:00	Installation of Security Fence on West Terrace Rail Bridge balustrade	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>EWP/telehandler</li> <li>Powered hand tool</li> <li>Site Lights</li> </ul>	61	62	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 25m from working location.</li> <li>Nearest sensitive receiver's façade is 40m from working location.</li> <li>LAeq15min at monitoring location was below predictions at the nearest sensitive receiver.</li> <li>The Highest LAeq in work period (61 dB) is lower than the predicted level (72 dB)</li> <li>Predicted noise levels in this area triggered offers for Respite (RO).</li> </ul>

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location (dBA)	Predicted noise level LAeq, 15min at resident (dBA)	Compliant	Comments
1	Location b (NCA02 – HEX537) 12m N of 1 Ewart Ln, Dulwich Hill Continues Monitoring	15/06/2024 To 16/06/2024	Night 22:00 to 7:00 (Modeled from 18:00 to 7:00)	General track related construction activities	<ul style="list-style-type: none"> <li>Excavators 3T, 6 and 13T (inc jack hammer attachments)</li> <li>Balloon tyre dump trucks (Hydrema)</li> <li>Light vehicles</li> <li>Trucks</li> <li>Payloader</li> <li>Handheld powered and non-powered tools</li> <li>Vac Trucks</li> <li>EWP/telehandler</li> <li>Front-end loader</li> <li>Concrete truck and line pump</li> <li>Portable Generators</li> <li>Compressors</li> <li>Compactor</li> <li>Bogie</li> <li>Water pumps</li> <li>4T Dumpy</li> <li>Site lights</li> </ul>	62	73	YES	<ul style="list-style-type: none"> <li>RBL: 33</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 62 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (62 dBA) is lower than the predicted level (73 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
2	Location c (NCA02 – HEX282) 11m N of 81 Ewart St, Dulwich Hill Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 71</li> <li>Excluding Freight train, the construction related highest LAeq at monitoring point detected to be 59<sup>1</sup></li> </ul>	63	YES	<ul style="list-style-type: none"> <li>RBL: 33</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 59 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (59 dBA) is lower than the predicted level (63 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
3	Location d (NCA03 – HEX419) 20m N of 5 Railway St, Hurlstone Park Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 67</li> <li>Excluding Freight train, the construction related highest LAeq detected to be 56<sup>2</sup></li> <li>Due to the monitoring location is 20m from the noise source and sensitive receiver is 40m from the noise source, <u>the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 50</u></li> </ul>	40	YES	<ul style="list-style-type: none"> <li>RBL: 34 dBA</li> <li>Calculated construction related highest LAeq15min above the predictions.</li> <li>The calculated construction related highest LAeq in work period (50 dBA) is higher than the predicted level (40 dBA)</li> <li>However Predicted noise levels (night shift works) in this area did not trigger offers for Respite.</li> <li>Actual noise levels (Night shift works) in this area did not trigger offers for Respite.</li> <li>No additional mitigation measures required.</li> </ul>
4	Location e (NCA06 - HEX344) 25m S of 1 Assets St, Campsie Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 70</li> <li>Excluding Freight train, the construction related highest LAeq detected to be 66<sup>3</sup></li> <li>Due to the monitoring location is 20m from the noise source and sensitive receiver is 44m from the noise source, <u>the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 63</u></li> </ul>	63	YES	<ul style="list-style-type: none"> <li>RBL: 35 dBA</li> <li>Calculated construction related highest LAeq15min match the predictions.</li> <li>The calculated construction related highest LAeq in work period (62 dBA) is match the predicted level (63 dBA)</li> <li>Predicted noise levels (night shift works) in this area triggered offers for Respite.</li> <li>Actual noise levels (Night shift works) in this area triggered offers for Respite.</li> <li>No additional mitigation measures required</li> </ul>
5	Location f (NCA07 - HEX505) 5m E of 1 Hall St, Belmore Continues Monitoring					65	72	YES	<ul style="list-style-type: none"> <li>RBL: 35 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (65 dBA) is lower than the predicted level (72 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
6	Location a (NCA07 – HEX483) 26m N of 2 Acacia St, Belmore Continues Monitoring					57	64	YES	<ul style="list-style-type: none"> <li>RBL: 35 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 57 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (57 dBA) is lower than the predicted level (64 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
7	Location g (NCA08 – HEX315) 35m SE of 54A Railway Parade, Lakemba Continues Monitoring					58	66	YES	<ul style="list-style-type: none"> <li>RBL: 41 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 58 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (58 dBA) is lower than the predicted level (66 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>
8	Location h (NCA12 - HEX516) 45m NW of 2 A West Terrace, Bankstown Continues Monitoring					69	72	YES	<ul style="list-style-type: none"> <li>RBL: 42 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 69 dBA due to general construction noise between the hours 22:00 to 07:00.</li> <li>The Highest LAeq in work period (69 dBA) is lower than the predicted level (72 dBA)</li> <li>Predicted noise levels (Night shift works) in this area triggered offers for Respite.</li> </ul>





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 b (NCA02 – HEX537) 12m N of 1 Ewart Ln, Dulwich Hill Continues Monitoring	16/06/2024	Day to Evening 7:00 to 15:00	General track related construction activities	<ul style="list-style-type: none"> <li>Excavators 3T, 6 and 13T (inc jack hammer attachments)</li> <li>Balloon tyre dump trucks (Hydrema)</li> <li>Light vehicles</li> <li>Trucks</li> <li>Payloader</li> <li>Handheld powered and non-powered tools</li> <li>Vac Trucks</li> <li>EWP/telehandler</li> <li>Front-end loader</li> <li>Concrete truck and line pump</li> <li>Portable Generators</li> <li>Compressors</li> <li>Compactor</li> <li>Bogie</li> <li>Water pumps</li> <li>4T Dump</li> <li>Site lights</li> </ul>	60	74	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 60 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (60 dBA) is lower than the predicted level (74 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> </ul>
2	Location c (NCA02 – HEX282) 11m N of 81 Ewart St, Dulwich Hill Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 71</li> <li>Excluding Freight train, the construction related highest LAeq detected to be 66<sup>1</sup></li> <li>Due to the monitoring location is 7m from the noise source and sensitive receiver is 18m from the noise source, <u>the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 58</u></li> </ul>	64	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>Calculated construction related highest LAeq15min below the predictions.</li> <li>The calculated construction related highest LAeq in work period (58 dBA) is lower than the predicted level (64 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li><b>Actual noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li>No additional mitigation measures required.</li> </ul>
3	Location d (NCA03 – HEX419) 20m N of 5 Railway St, Hurlstone Park Continues Monitoring					65	66	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (65 dBA) is lower than the predicted level (66 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> </ul>
4	Location e (NCA06 - HEX344) 25m S of 1 Assets St, Campsie Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 70</li> <li>Excluding Freight train, the construction related highest LAeq detected to be 65<sup>2</sup></li> <li>Due to the monitoring location is 25m from the noise source and sensitive receiver is 42m from the noise source, <u>the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 50</u></li> </ul>	63	YES	<ul style="list-style-type: none"> <li>RBL: 38 dBA</li> <li>Calculated construction related highest LAeq15min below the predictions.</li> <li>The calculated construction related highest LAeq in work period (58 dBA) is lower than the predicted level (64 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li><b>Actual noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li>No additional mitigation measures required.</li> </ul>
5	Location f (NCA07 - HEX505) 5m E of 1 Hall St, Belmore Continues Monitoring					65	72	YES	<ul style="list-style-type: none"> <li>RBL: 41 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (65 dBA) is lower than the predicted level (72 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> </ul>
6	Location a (NCA07 – HEX483) 28m N of 2 Acacia St, Belmore Continues Monitoring					<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 78</li> <li>The high noise impact event only identified between 10:00 to 10:15, unexpected activity observed (machine dump scrap metal 1m away from the noise monitor).</li> <li>Due to the monitoring location is 1m from the metal dropping and sensitive receiver is 28m from the metal dropping, <u>the calculated unexpected high noise impact event LAeq at the sensitive receiver (Actual Noise level) is 48</u></li> <li>Excluding the single high noise impact event, the construction related highest LAeq at monitoring point detected to be 60</li> </ul>	64	YES	<ul style="list-style-type: none"> <li>RBL: 41 dBA</li> <li>Calculated construction related highest LAeq15min below the predictions.</li> <li>The calculated construction related highest LAeq in work period (49 dBA) is lower than the predicted level (64 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li><b>Actual noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li>No additional mitigation measures required.</li> </ul>
7	Location g (NCA08 – HEX315) 35m SE of 54A Railway Parade, Lakemba Continues Monitoring					62	69	YES	<ul style="list-style-type: none"> <li>RBL: 47 dBA</li> <li>LAeq15min below predictions.</li> <li>Noise monitor detect highest LAeq15min value of 62 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (62 dBA) is lower than the predicted level (69 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> </ul>
8	Location h (NCA12 - HEX516) 45m NW of 2 A West Terrace, Bankstown Continues Monitoring					65	64	YES	<ul style="list-style-type: none"> <li>RBL: 54 dBA</li> <li>LAeq15min above predictions.</li> <li>Noise monitor detect highest LAeq15min value of 65 dBA due to general construction noise between the hours 07:00 to 22:00.</li> <li>The Highest LAeq in work period (65 dBA) is higher than the predicted level (64 dBA)</li> <li><b>Predicted noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li><b>Actual noise levels (Day shift works) in this area did not trigger offers for Respite.</b></li> <li>No additional mitigation measures required.</li> </ul>

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq,15min in work period at Monitoring Location (dBA)	Predicted noise level LAeq,15min at resident (dBA)	Compliant	Comments
1	<p>NCA 12 Bankstown</p> <ul style="list-style-type: none"> <li>Continuous Monitoring</li> <li>Location: 85m west of West Terrace Rail Bridge 30m south of track</li> </ul>	20/06/2024 To 21/06/2024	Night 22:00 to 7:00	Demobilize the site shed from South Terrace Bus Depot	<ul style="list-style-type: none"> <li>Light vehicles</li> <li>Front end loader</li> <li>Flatbed truck</li> <li>Site light</li> </ul>	<ul style="list-style-type: none"> <li>Highest LAeq in work period at Monitoring Location is 68</li> <li>Excluding Non-construction related noise, the construction related highest LAeq detected to be 64<sup>1</sup></li> <li>Due to the monitoring location is 88m from the noise source and sensitive receiver is 170m from the noise source, <u>the calculated construction related highest LAeq at the sensitive receiver (Actual Noise level) is 58</u></li> </ul>	56	Yes	<ul style="list-style-type: none"> <li>RBL: 42</li> <li>Noise monitoring location is 88m from working location.</li> <li>Nearest sensitive receiver's façade is 170m from working location.</li> <li>The calculated construction related highest LAeq in work period (58 dBA) is higher than the predicted level (56 dBA)</li> <li>Predicted noise levels (Night shift works) in this area did not trigger offers for Respite.</li> <li>Actual noise levels (Night shift works) in this area did not trigger offers for Respite.</li> <li>No additional mitigation measures required.</li> </ul>



Vibration Monitoring Data - Monthly Summary

Month and Year	June 2024										
Project	Sydenham Metro upgrade										
EPL license No.	21147										
EPL Weblink	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&amp;id=21147&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=21147&amp;id=21147&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>										
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		