



Project	Power Enabling Works, 33kV Rozelle	Report No.	051	Date Collected	12/05/2022	Time Collected	21:35-23:19
Data & Report By:	D. Mutkins	Works	CAT pit excavation, testing and proving conduits		Purpose of Data Collection	Ongoing monitoring / model validation	
Location of construction activity (see Attachment)			Monitoring locations				
			<ol style="list-style-type: none"> 1. 689 Darling Street 2. 700 Darling Street 3. 685 Darling Street 4. 41 Merton Street 5. 42 Merton Street 6. 638 Darling Street 				
Observed construction activity			 				
Excavation of CAT pit, preparation for conduit testing and proving for cable pull.							
Meteorological conditions							
Wind	Light E						
Temperature (°C)	15	Cloud Cover:		Cloudy with rain			
Instrumentation details	Rion NL-42 – Sound Level Meter	Calibration valid until		March 2023			

Instrumentation and method

Monitoring was performed with sound level meter Rion NL-42 fixed to a tripod at a height of approx.. 1.5m above the ground surface. The sound level meter was pre calibrated with a valid certificate until March 2023. A field calibrator was also used prior to taking the first recording and after the monitoring session to ensure device was within required range. Monitoring was conducted over multiple 15-minute periods in six locations. LAeq, LA90 and Lmax parameters were recorded in all cases.

Monitoring locations were selected to represent nearest affected receivers. See attachment monitoring locations and KNOWnoise maps.

Results

Particulars			Actual Recording(s)			KNOWnoise Prediction(s)
Location	Time	Observations	LAeq	LA90	Lmax	LAeq
1	21:35-21:50	Site being setup, 13t beginning mucking out spoil, traffic noise dominating, bus idling with continuous traffic 4m from monitor. ~LAeq 70-71	71	65	80	67
2	21:51-22:06	Bogie reversing into site with squawker, people yelling walking ~2m from monitor device Lmax 94dBA ~LAeq 74dB	74	68	94	67
3	22:08-22:23	Bus traffic very heavy, passing emergency vehicles on Victoria Road. 13 t mucking spoil into bogie. ~92dB traffic emergency vehicles on North side of Vic Road.	74	70	92	67
4	22:31-22:46	5t excavating cat pit on Merton Street. Vehicles movements around monitor during recording period. Resident parking and car boot slamming across the road from monitor Lmax 70dB. LAeq elevated from passing traffic and pedestrian activity.	57	49	70	46
5	22:47-23:02	5t excavating cat pit, construction noise is slightly audible at times, as above residents attending to cars and taking out rubbish increasing background levels and increasing LAeq ~51dB	51	43	63	45
6	23:04-23:19	5t excavating cat pit, crew finishing towards end of recording, passing traffic on wet road more frequently on Darling Street. Horn beeping on Darling ~84dB Lmax.	64	48	84	51

Result Summary

Recordings were taken on Darling Street and Merton Street for OOHV works occurring for excavation of CAT pits, conduit clearing and proving. Recorded noise levels were influenced by various other external noise sources during all recordings, pedestrians and noticeably high vehicle activity. The 5t excavator on Merton Street was audible at times down Merton Street though relatively consistently below 55 dBA. Works on Darling Street still trigger AA and RO and the works are considered intrusive to some residents.

