



Project	Power Enabling Works, 33kV Rozelle	Report No.	052	Date Collected	16/05/2022	Time Collected	22:16-00:18
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Data & Report By:	D. Mutkins	Works	Conduit sponging and proving	Purpose of Data Collection	Ongoing monitoring / model validation
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Location of construction activity (see Attachment)	Monitoring locations 1. 155a Mansfield Street 2. 122a Mansfield Street 3. 4 Mackenzie Street 4. 157 Mansfield 5. 132 Mansfield Street
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Observed construction activity Conduit proving, with compressor to remove water from conduits.	
	

Meteorological conditions

Wind	Light S		
Temperature (°C)	15	Cloud Cover:	Clear
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 five locations. LAeq, LA90 and LAmix 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	LAmix	LAeq
1	22:16-22:31	Vac truck in operation to remove water from joint bay, conduits containing water blown out with a compressor. ~LAeq 74-75dBA behind noise mats.	75	66	85	79
2	22:33-22:48	Vac truck in use, as above required to suck water out from joint bay, noting when the joint bay has little water the vac truck makes a whistle sound which is ~2dBA louder than when in deeper water. Truck stopping ~9min into recording.	80	44	90	79
3	22:50-23:05	Activity as above, vac truck removing water from joint bay. ~60-61 LAeq from 30m	61	54	69	63
4	23:06-23:21	Activity as above, vac truck removing water from joint bay. ~ 60dB LAeq	60	57	73	67
5	00:03-00:18	Activity as above, vac truck removing water from joint bay. ~57dB LAeq	57	51	71	58

Result Summary

Joint Bay on Mansfield Street has experienced unexpected amounts of water which requires removal using a vac truck. Modelling has been updated to reflect the use of the vac truck in consultation with Metro comms team to ensure additional mitigation measures have been offered. The KNOWnoise predictions are representative of the updated modelling and not the original model which was included within the OOHW permit for these works.

