

Vibration Monitoring Data-Monthly Summary

Month and Year:	Jun-20					
Project:	Central Station Main Works					
EPL Licence Number:	21148					
EPL Weblink:	https://centralstationmetro.com/documents/					
Specific EPL Monitoring Condition:	M7.2- Vibration Monitoring					
Monitoring Location:	Number of Monitoring Events during the Month	Attended/Continuous Monitoring	Event Based Monitoring? (Y/N)	Measured Parameter: Peak particle Velocity (PPV) (mm/s)	Predicted Parameter: Peak Particle Velocity (PPV) (mm/s)	Comment
TCAC	1	Continuous	Y	All measures <2mm/s	<7.5mm/s	Vibration intensive works occurring in the Northern Concourse breaking out soldier piles using hand breakers. Out side of area of influence for CEB. 1 measure of 1.36mm/s during this activity identified.
30 Chalmers St	1	Continuous	Y	<25mm/s	<25mm/s	The works at the Eastern Entrance throughout June 2020 consisted of excavation of shale, as well as canopy tube drilling and material off-loading into tipper trucks using a crane. There were four momentary instances where vibration detected exceeded 25mm/s, however this was attributed to localised bumps of the vibration meter and not CSM works.

Definitions

Attended: Operator attended measure at either the façade of sensitive receiver, internal dwelling of a sensitive receiver or at a location of interest, typically in anticipation of an event.

Continuous: Real time vibration data recording the peak within a 1 min intervals, 24/7.

Event: The peak particle velocity (PPV) measured in mm/s of any measuring interval either during attended monitoring or a period of interest reviewed from the continuous data. The period is typically selected to monitor works as the works occur, or to validate predictions of planned works, or in response to a complaint, or due to an unexplained elevated PPV in the continuous data noise trace.