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REF: BN04/23

Date: 11th January 2023

Company: Environmental Protection Agency/Dept Planning

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Attention: to Whom it may concern

Blast Result Notification

Attached are the blast monitor results for today's blast, Wednesday, 11th January 2023, all residential overpressures did not exceed residential threshold of 115.0 dB with the highest reading at the Correctional Facility which recorded 107.8 dB. The residential ground vibrations did not exceed the residential ground vibration limit of 5mm/s with the highest recording of 3.96mm/s at the Goodsell Residence. All commercial overpressures were also below the threshold of 125.0 dB with the highest reading 107.0 dB at Commercial Properties. The commercial ground vibrations were also below the commercial limits of 25mm/s with the highest reading 4.773mm/s at the Commercial Properties.

Regards

A handwritten signature in black ink, appearing to be 'Budd Green', written in a cursive style.

Budd Green
0418 112 776

Date/Time Vert at 13:01:28 January 11, 2023
Trigger Source Geo: 0.260 mm/s
Range Geo: 254.0 mm/s
Record Time 10.0 sec at 1024 sps
Operator/Setup: Operator/Precision DB.MMB

Serial Number UM9308 V 10-90GC Micromate ISEE
Battery Level 3.7 Volts
Unit Calibration March 31, 2022 by Saros Int
File Name UM9308_20230111130128.IDFW

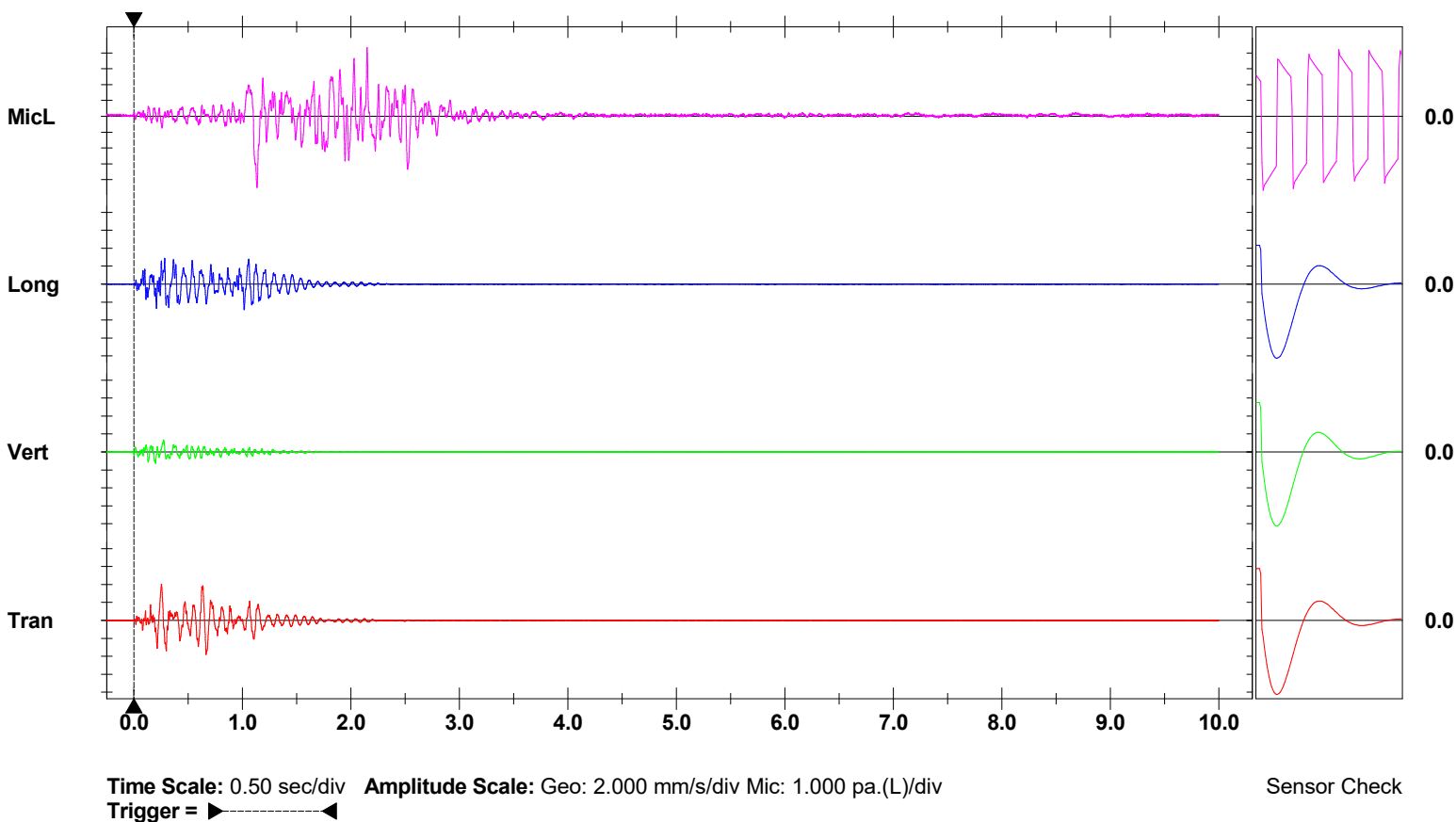
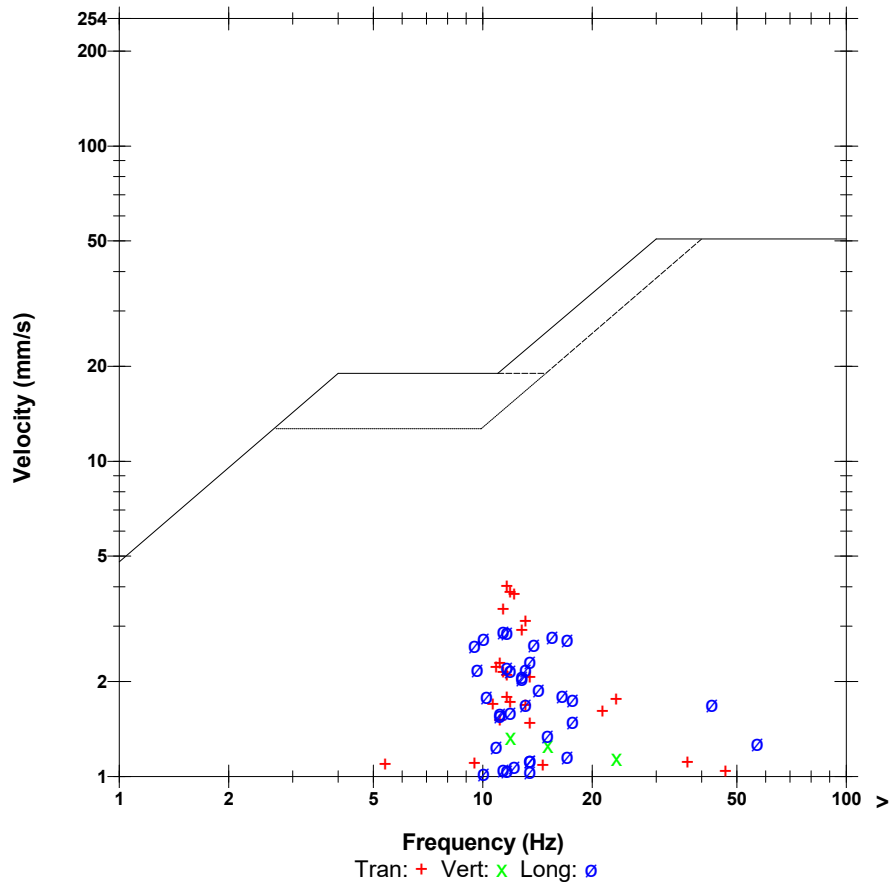
Notes

Microphone Linear Weighting
PSPL 107.0 dB(L) at 1.134 sec
ZC Freq 8.1 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1467 mv)

	Tran	Vert	Long	
PPV	4.035	1.340	2.901	mm/s
ZC Freq	12	12	11	Hz
Time (Rel. to Trig)	0.254	0.273	0.284	sec
Peak Acceleration	0.049	0.020	0.066	g
Peak Displacement	0.048	0.015	0.035	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	3.8	3.8	4.0	

Peak Vector Sum 4.773 mm/s at 0.254 sec

USBM RI8507 And OSMRE



Date/Time Vert at 13:01:28 January 11, 2023
Trigger Source Geo: 0.250 mm/s, Mic: 113.0 dB(L)
Range Geo: 254.0 mm/s
Record Time 10.0 sec at 1024 sps
Operator/Setup: Operator/Precision DB.MMB

Serial Number UM9309 V 10-90GC Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration March 31, 2022 by Saros Int
File Name UM9309_20230111130128.IDFW

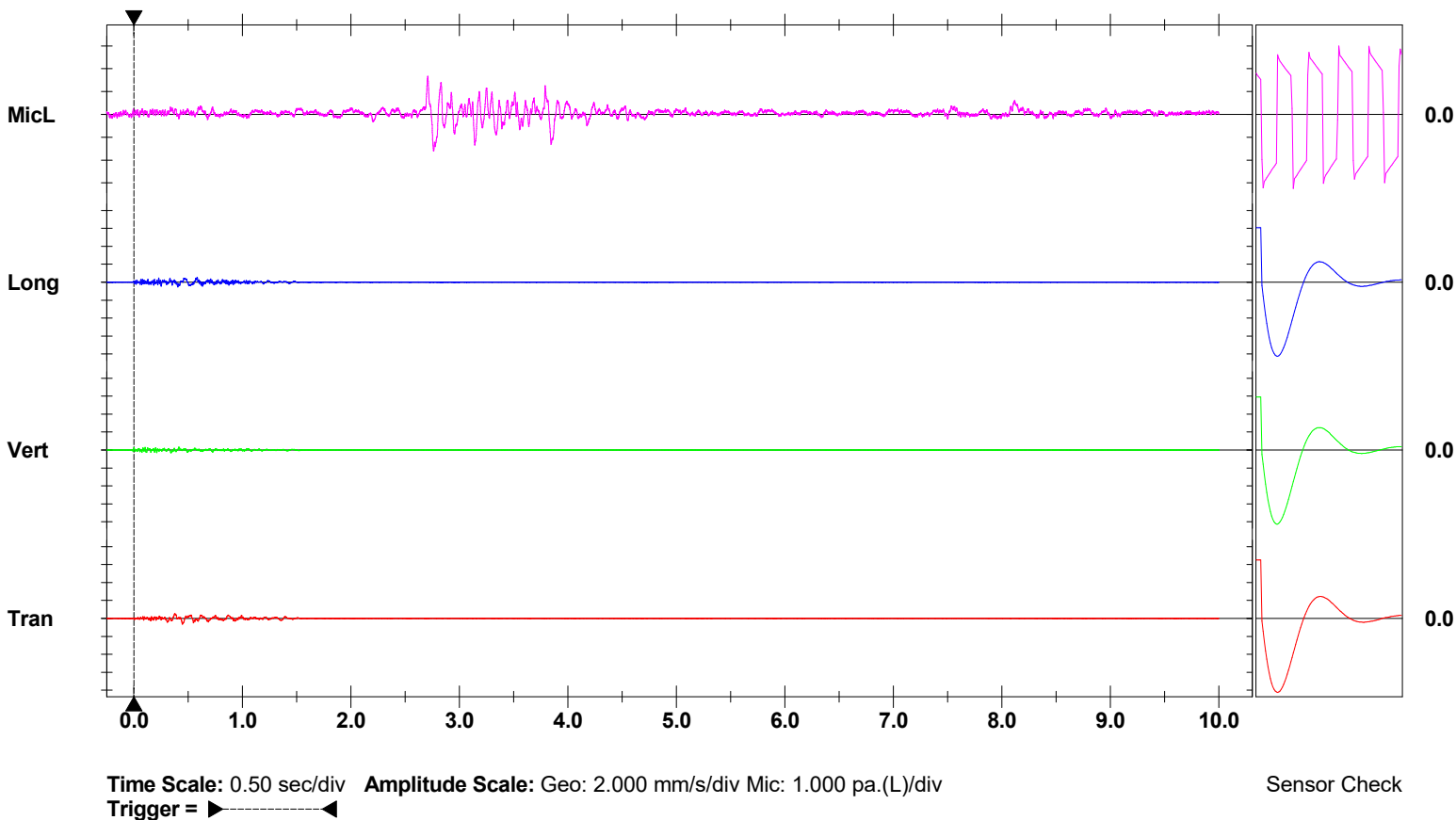
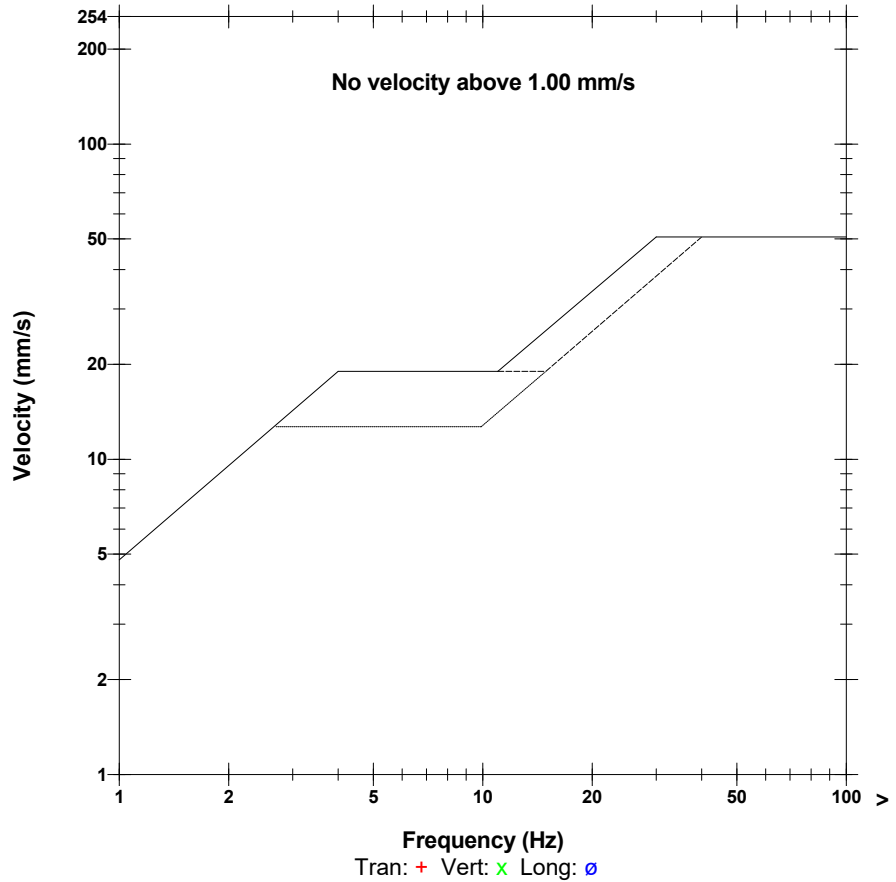
Notes

Microphone Linear Weighting
PSPL 98.5 dB(L) at 2.709 sec
ZC Freq 4.5 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1218 mv)

	Tran	Vert	Long	
PPV	0.623	0.347	0.552	mm/s
ZC Freq	15	22	12	Hz
Time (Rel. to Trig)	0.446	0.342	0.404	sec
Peak Acceleration	0.011	0.012	0.015	g
Peak Displacement	0.007	0.002	0.007	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.5	7.3	Hz
Overswing Ratio	3.4	3.3	3.6	

Peak Vector Sum 0.630 mm/s at 0.459 sec

USBM RI8507 And OSMRE

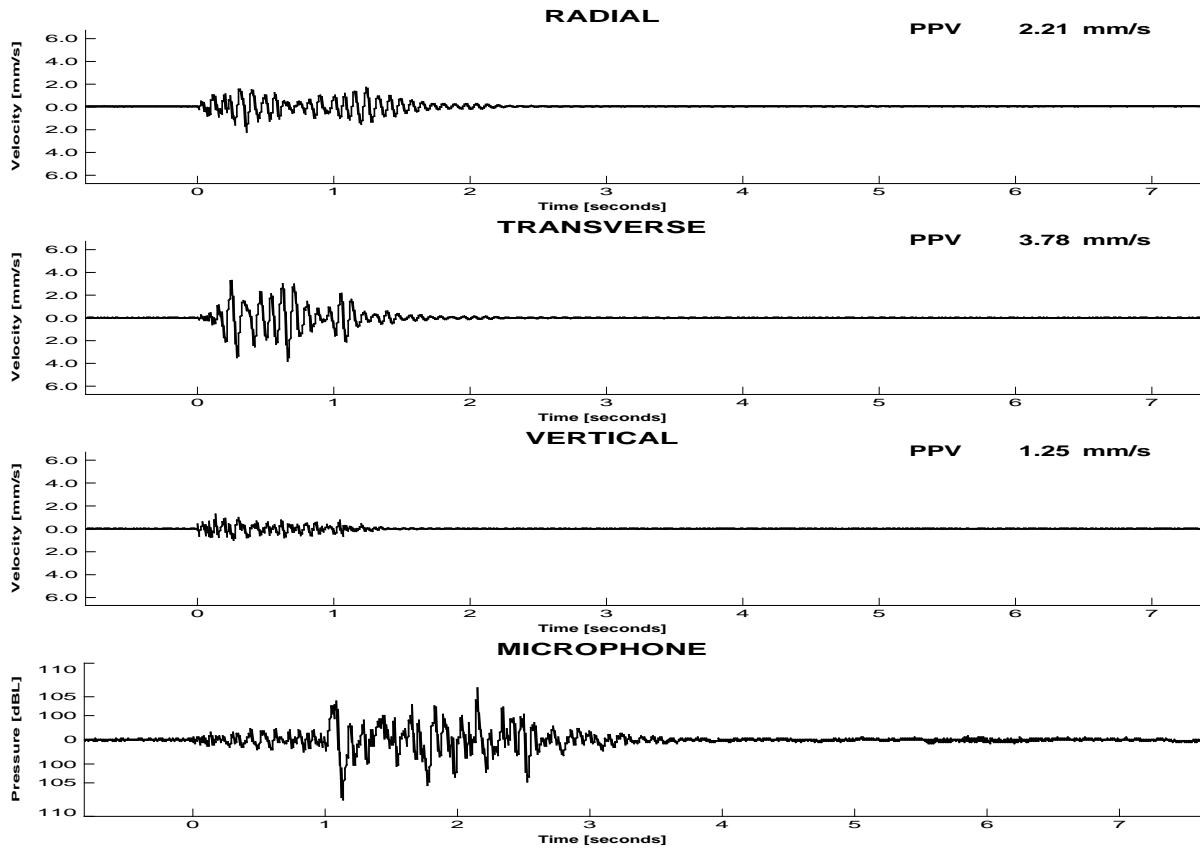


Nowra Brick Works Quarry

Location: Correctional Facility
Triggered by : Vertical

Date: 2023-01-11
Time: 13:02:13

Triggers Set : Vector Sum: 0.50mm/s, Channels 1-3: 0.21mm/s



RESULTS

Peak Vector Sum Velocity : 3.84 mm/s at 0.664 s
Peak Overpressure : 107.8 dBL at 1.131 s

	Peak	Frequency	Time	Acceleration	Displacement
	[mm/s]	(ZC at Peak) [Hz]	(Rel. to Trigger) [s]	(Est. from PPV) [mm/s ²]	(Est. from PPV) [mm]
Radial	2.21	12.9	0.360	147	42.8
Transverse	3.78	11.9	0.662	245	79.4
Vertical	1.25	21.9	0.131	148	14.3

Monitoring conducted by:
(SCCCR Quarries:Budd Green)

TM Serial Number : 4238 Last Calibration: 2022-09-07

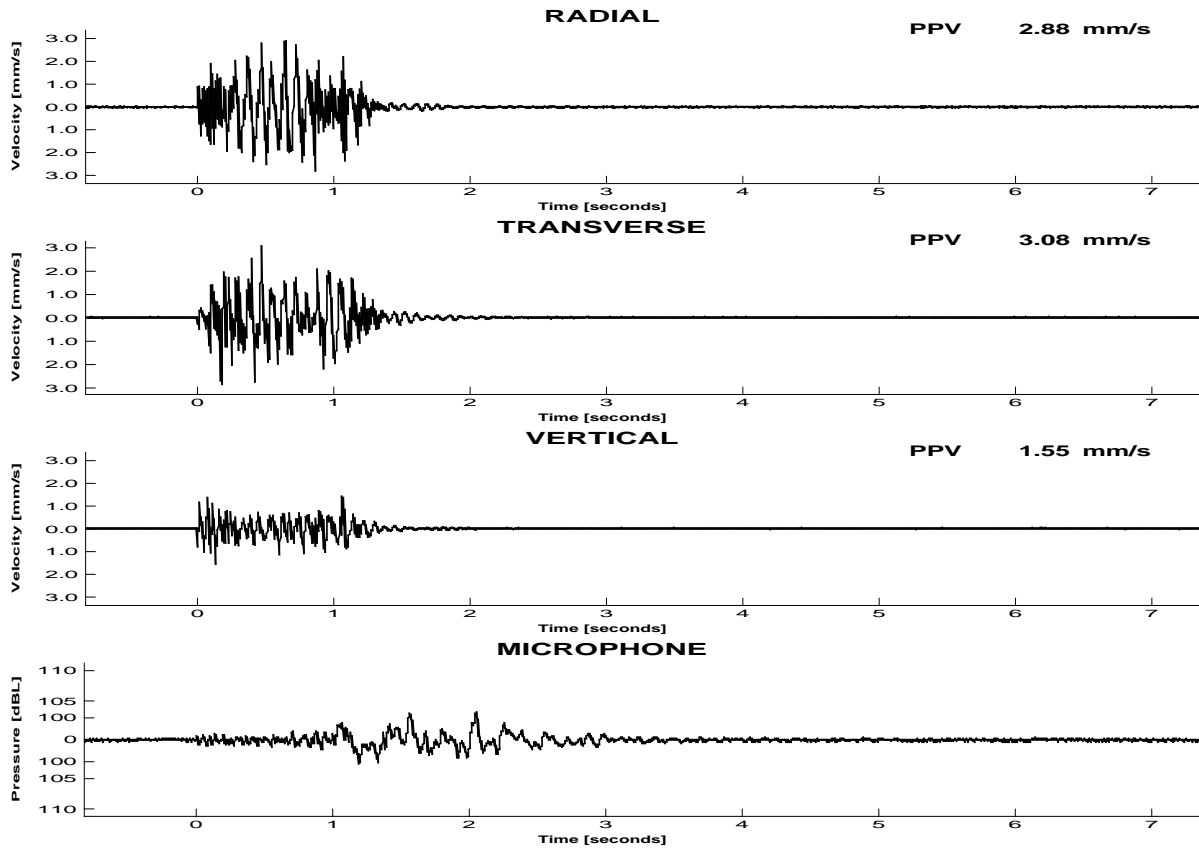
Nowra Brick Works Quarry\M4238 Nowra Brick Works Quarry @ Bench @ 2023-01-11 13.02.13.twf
T-Link 1.2 - ANZEC Standard.rtt Texcel Monitors comply with Appendix J of AS 2187.2-2006

Nowra Brick Works Quarry

Location: Goodsell Residence
Triggered by : Vertical

Date: 2023-01-11
Time: 13:02:24

Triggers Set : Channels 1-3: 0.26mm/s



RESULTS

Peak Vector Sum Velocity : 3.96 mm/s at 0.469 s
Peak Overpressure : 102.0 dBL at 2.049 s

	Peak	Frequency	Time	Acceleration	Displacement
	[mm/s]	(ZC at Peak) [Hz]	(Rel. to Trigger) [s]	(Est. from PPV) [mm/s ²]	(Est. from PPV) [mm]
Radial	2.88	13.7	0.644	149	52.5
Transverse	3.08	19.6	0.468	373	39.3
Vertical	1.55	20.4	0.136	169	19.1

Monitoring conducted by:
(SCCCR Quarries:Budd Green)

TM Serial Number : 4239 Last Calibration: 2022-09-07

Nowra Brick Works Quarry\M4239 Nowra Brick Works Quarry @ Bench @ 2023-01-11 13.02.24.twf
T-Link 1.2 - ANZEC Standard.rtt Texcel Monitors comply with Appendix J of AS 2187.2-2006