

Miramar Siesmic Reading: White Rock Quarries.

Location: 5276 SW 152 Ave

Date:	Time:	PPV:
5/4/2020	2:01 PM	0.073
5/26/2020	9:57 AM	0.08
6/18/2020	11:57 AM	0.128
6/23/2020	11:46 AM	0.12
6/29/2020	1:31 PM	0.108
7/8/2020	2:31 PM	0.095
7/17/2020	11:48 AM	0.103
7/21/2020	11:47 AM	0.08
7/24/2020	11:47 AM	0.06
7/28/2020	11:46 AM	0.088
8/5/2020	11:32 AM	0.103
8/11/2020	1:17 PM	0.058
8/14/2020	11:32 AM	0.058
8/18/2020	11:47 AM	0.075
8/19/2020	8:37 AM	0.065
8/27/2020	11:33 AM	0.1

Location: 16171 SW 49 Ct

Date:	Time:	PPV:
5/27/2020	3:15 PM	0.053
7/8/2020	2:30 PM	0.115
7/17/2020	11:47 AM	0.068

This location is no longer available for monitoring

Location: 17040 SW 53 Ct

Date:	Time:	PPV:
5/1/2020	11:15 AM	0.098
5/7/2020	3:15 PM	0.038
5/11/2020	11:30 AM	0.055
5/12/2020	11:15 AM	0.065
5/13/2020	11:30 AM	0.053
5/18/2020	2:46 PM	0.04
5/20/2020	11:34 AM	0.03
5/21/2020	3:12 PM	0.093
5/22/2020	11:46 AM	0.06
6/15/2020	11:46 AM	0.143
6/16/2020	3:00 PM	0.05
6/17/2020	3:15 PM	0.033
6/18/2020	11:47 AM	0.058
6/19/2020	11:30 AM	0.075
6/22/2020	2:46 PM	0.07

6/23/2020	11:46 AM	0.068
6/24/2020	11:31 AM	0.063
6/25/2020	11:16 AM	0.04
6/29/2020	1:31 PM	0.065
7/27/2020	11:17 AM	0.038
7/28/2020	11:47 AM	0.09
8/3/2020	11:47 AM	0.09
8/5/2020	11:32 AM	0.175
8/6/2020	1:17 PM	0.038
8/7/2020	11:32 AM	0.138
8/11/2020	1:17 PM	0.108
8/14/2020	11:32 AM	0.128
8/18/2020	11:47 AM	0.175
8/20/2020	11:50 AM	0.165
8/26/2020	11:33 AM	0.113
8/27/2020	11:34 AM	0.2

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5150 v3.67
 Date: 05/04/2020 14:01:19
 Event No: 3
 Record Time: 15.0 s
 Client: City of Miramar
 Operation: White Rock Quarries
 Location: 5276 SW 152 Ave
 Distance:
 Operator: Roy A.
 Comment: In Ground
 Seismic Trigger: 0.050 in/s

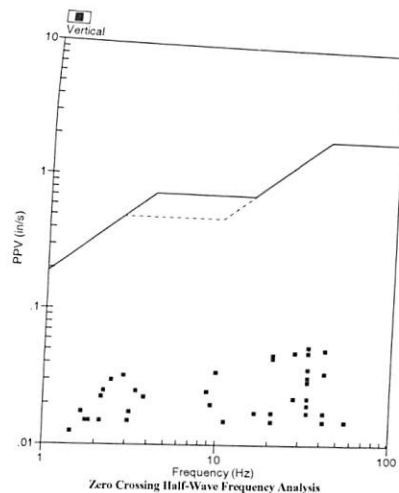
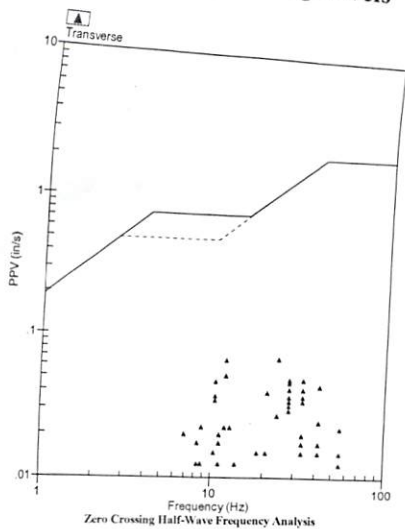
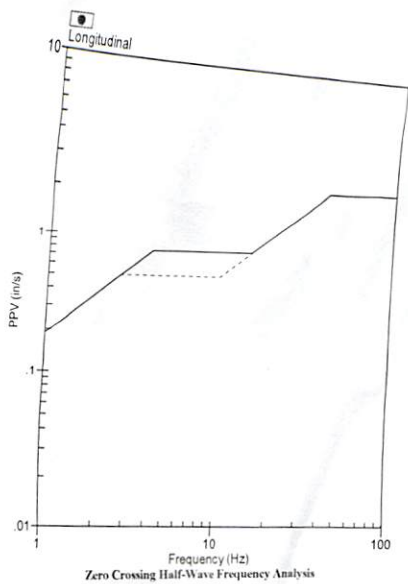
PPV (in/s) 0.003
 FREQ (Hz) .4
 PD (.001") 0.16
 PPA (g) 0.007
 Peak Vector Sum:
 Peak Air Pressure:

Summary Data		
L	T	V
0.070	0.073	0.073
23.8	41.7	41.7
0.83	2.09	2.09
0.033	0.039	0.039
0.080 in/s		
102 db		
0.00041 PSI @ 27.8 Hz		

Additional Info:

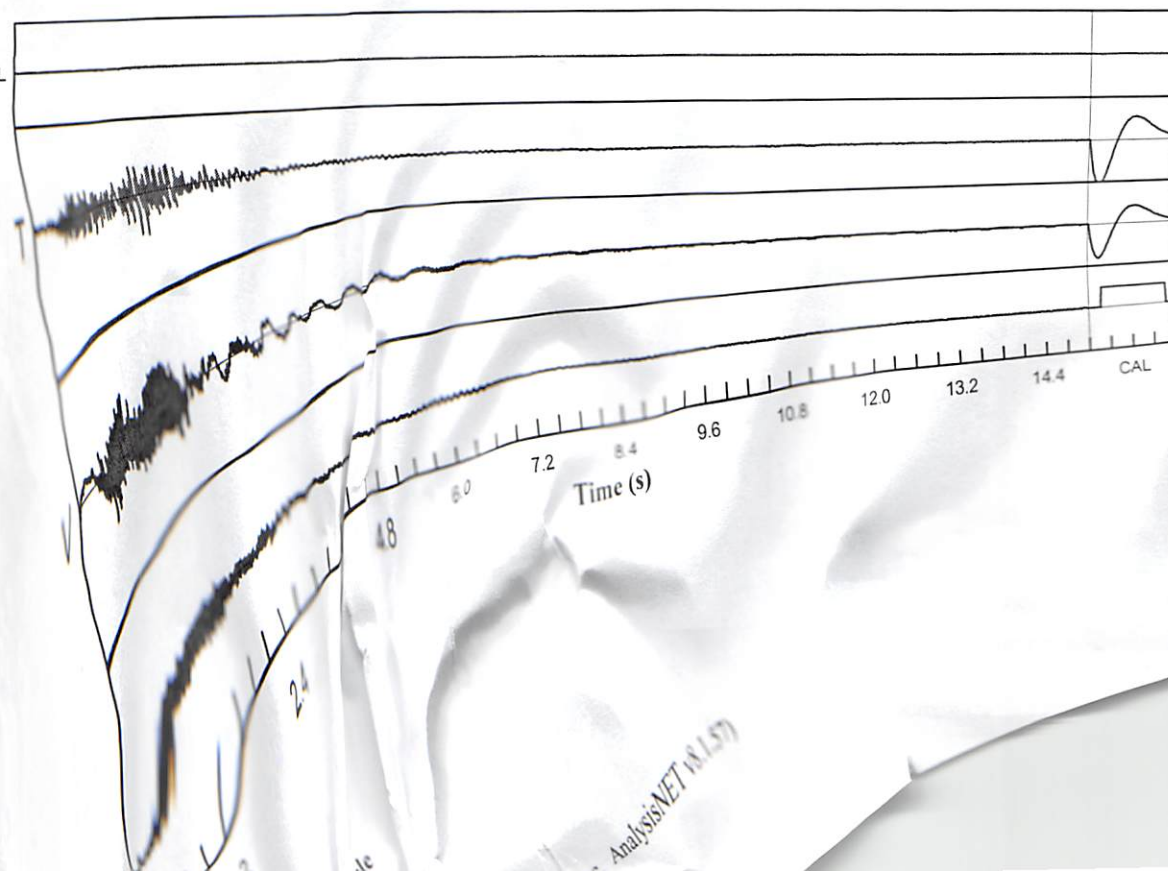
Shaketable Calibrated: 03/02/2019
 By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 3

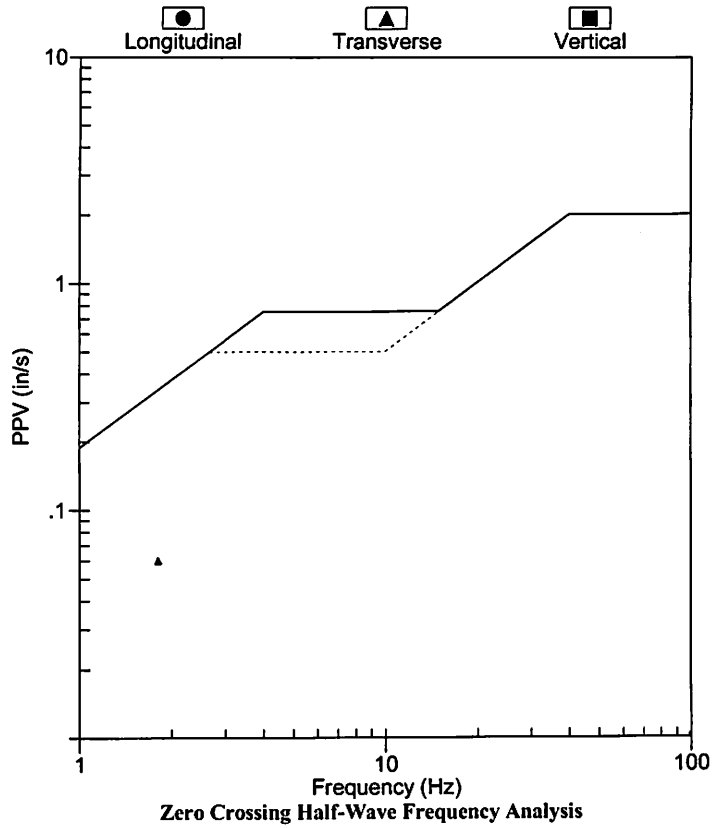


Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 05/26/2020 09:56:47
Event No: 1
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A.
Comment: In Ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels SN: 5150 Event: 1



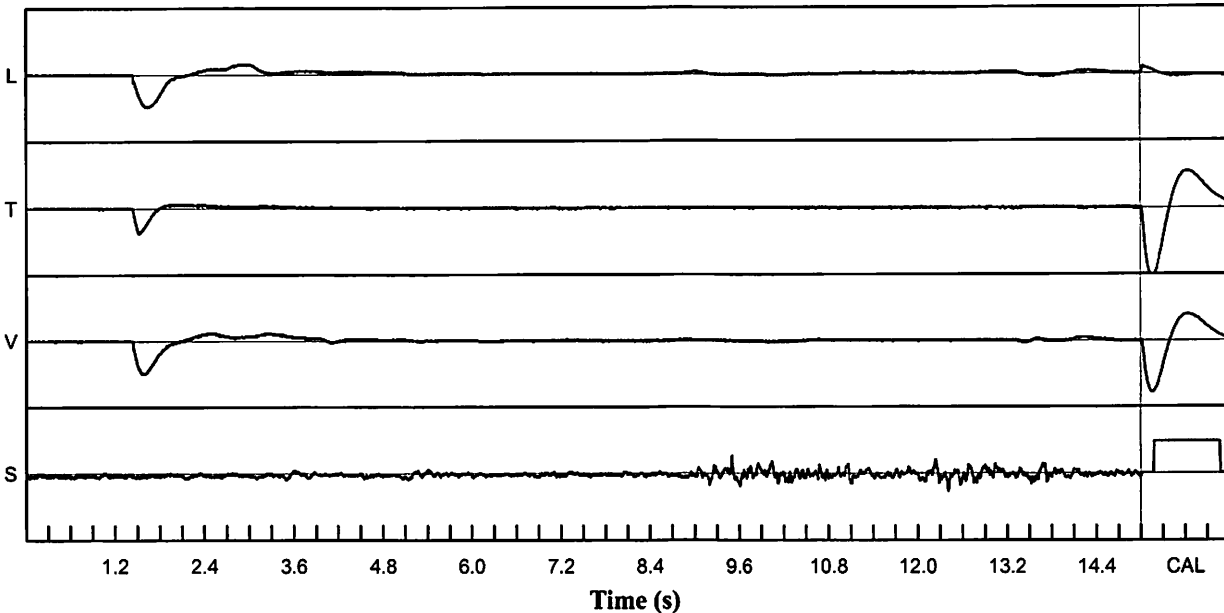
	Summary Data		
	L	T	V
PPV (in/s)	0.078	0.060	0.080
FREQ (Hz)	.7	1.5	.8
PD (.001")	13.66	5.59	12.33
PPA (g)	0.013	0.007	0.020
Peak Vector Sum :	0.120 in/s		
Peak Air Pressure:	106 db		
	0.00062 PSI @ 9.3 Hz		

Additional Info:

Shaketable Calibrated: 03/02/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform SN: 5150 Event: 1



Seismic Analysis

Velocity Waveform Report

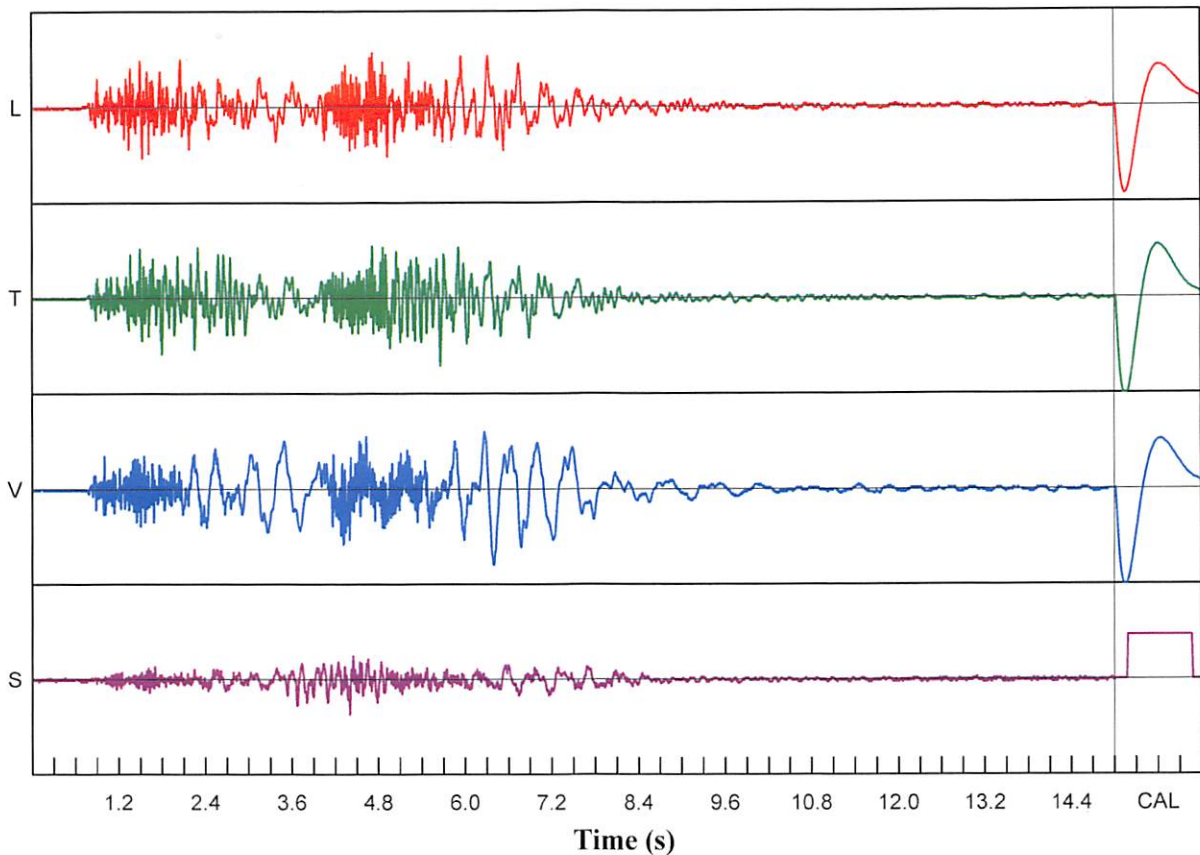
Serial Number	8616 v5.29	Tran	Vert
Event Date	June 18, 2020 11:47:21	PPV (in/s)	0.090 0.115 0.128
Event Number	1	PD (.001")	2.79 2.47 5.67
Recording Time	15.0 s	PPA (g)	0.039 0.046 0.046
Seismic Trigger Level	0.050 in/s	FREQ (Hz)	18.5 9.3 3.4
Sound Trigger Level	0 db	Peak Vector Sum	0.135 in/s
Sample Rate	1000 samples/second		

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	108 db
Location:	White Rock Quarries		0.00085 psi
User:	Roy A		
Seis Location:	5276 SW 152 Ave		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 12, 2020 By GeoSonics Inc.
	Battery Level	8.3

Velocity Waveform

SN: 8616 Event: 1



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

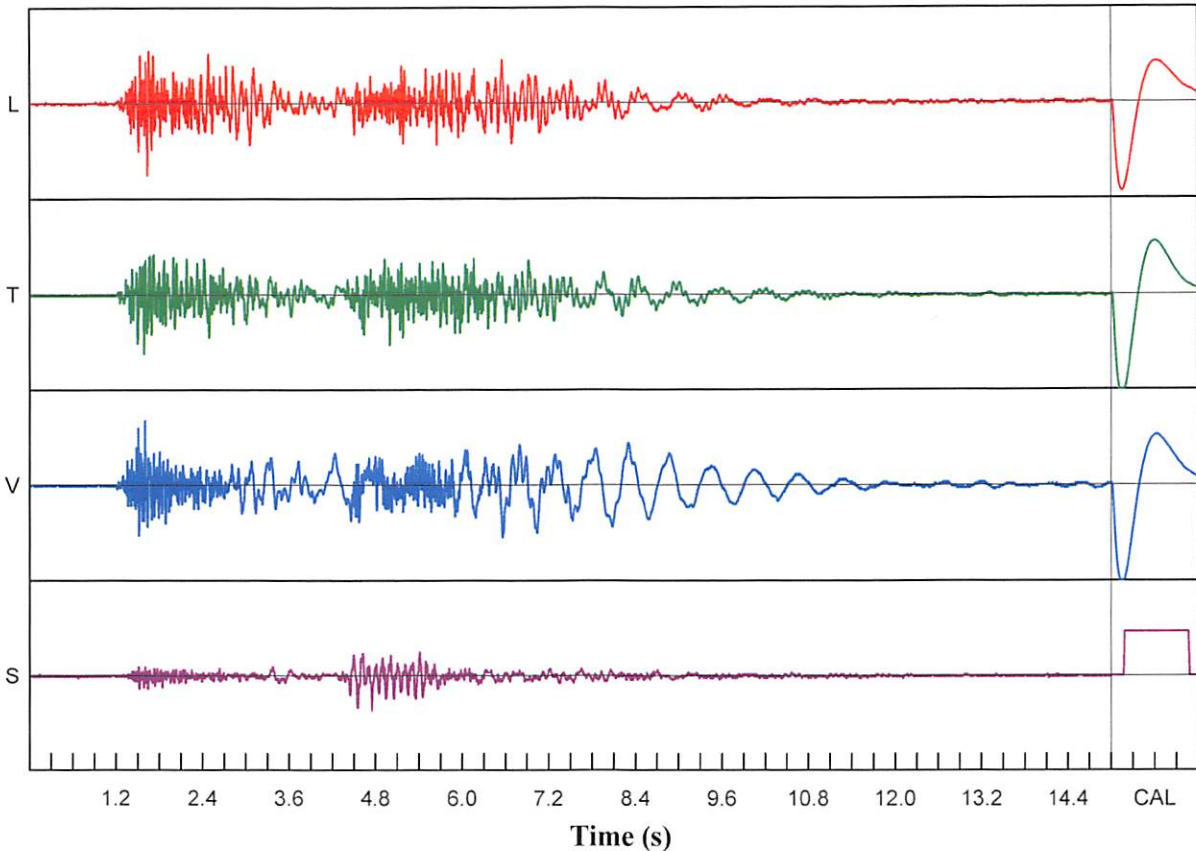
Serial Number	8616 v5.29	Tran	Vert
Event Date	June 23, 2020 11:46:07	PPV (in/s)	0.120 0.100 0.108
Event Number	2	PD (.001")	1.97 1.87 5.06
Recording Time	15.0 s	PPA (g)	0.052 0.065 0.072
Seismic Trigger Level	0.050 in/s	FREQ (Hz)	16.7 41.7 41.7
Sound Trigger Level	0 db	Peak Vector Sum	0.138 in/s
Sample Rate	1000 samples/second		

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	108 db
Location:	White Rock Quarries		0.00085 psi
User:	Roy A		
Seis Location:	5276 SW 152 Ave		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 12, 2020 By GeoSonics Inc.
	Battery Level	8.1

Velocity Waveform

SN: 8616 Event: 2



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

Serial Number	8616 v5.29	Tran	
Event Date	June 29, 2020 13:30:46	PPV (in/s)	0.068 0.085 0.108
Event Number	3	PD (.001")	2.16 2.01 5.07
Recording Time	15.0 s	PPA (g)	0.033 0.033 0.046
Seismic Trigger Level	0.050 in/s	FREQ (Hz)	20.8 6.2 4.2
Sound Trigger Level	0 db	Peak Vector Sum	0.113 in/s
Sample Rate	1000 samples/second		

Notes
 Client: City of Miramar
 Location: White Rock Quarries
 User: Roy A
 Seis Location: 5276 SW 152 Ave
 Distance:
 Comment: In Ground

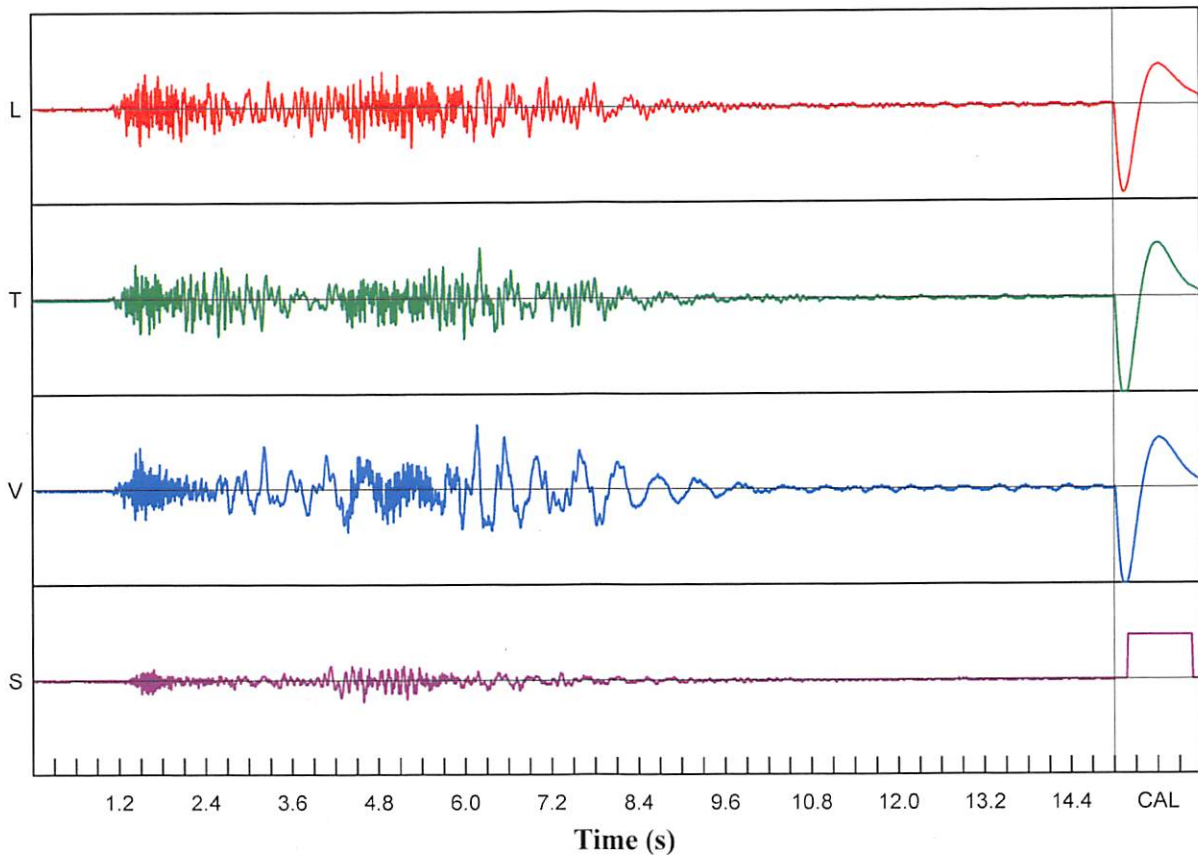
Microphone N/A
PSPL 104 db
 0.00053 psi

Additional Notes

Dynamic Geo Cal
 Calibration April 12, 2020 By GeoSonics Inc.
 Battery Level 8

Velocity Waveform

SN: 8616 Event: 3



Velocity Waveform Graph Scale

Time Scale: 0.300 s
 Seismic Scale: +/- 0.160 in/s
 Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

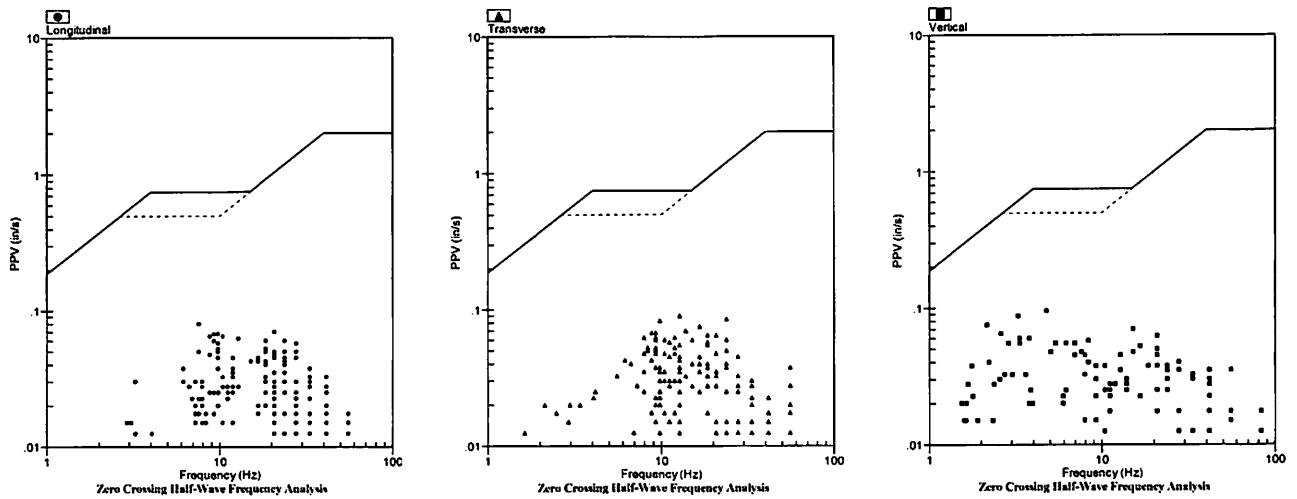
Serial No: 8616 v5.29
Date: 07/08/2020 14:31:10
Event No: 1
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.080	0.090	0.095
FREQ (Hz)	7.6	12.8	4.8
PD (.001")	1.96	2.21	4.64
PPA (g)	0.033	0.033	0.039
Peak Vector Sum:	0.115 in/s		
Peak Air Pressure:	104 db		
	0.00053 PSI @ 4.4 Hz		

Additional Info:

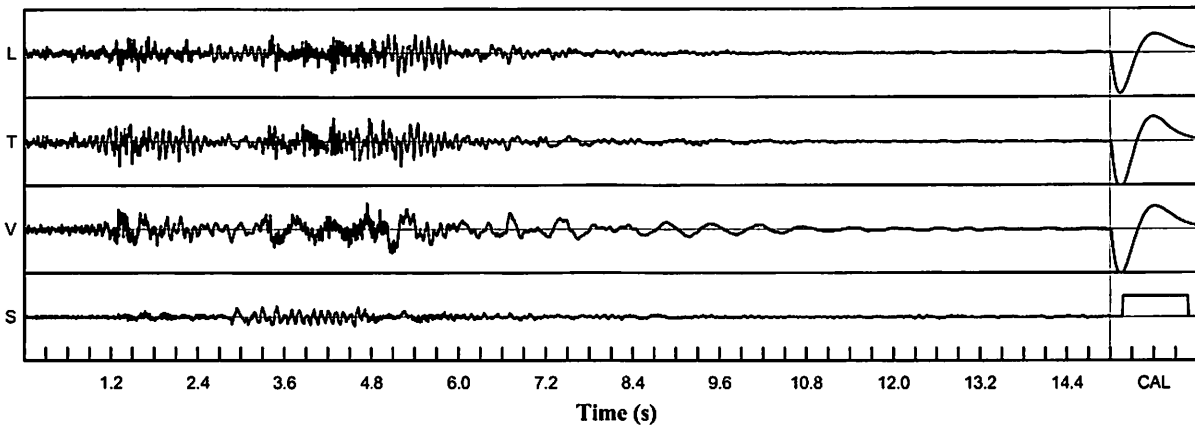
Shaketable Calibrated: 04/12/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 8616 Event: 1



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

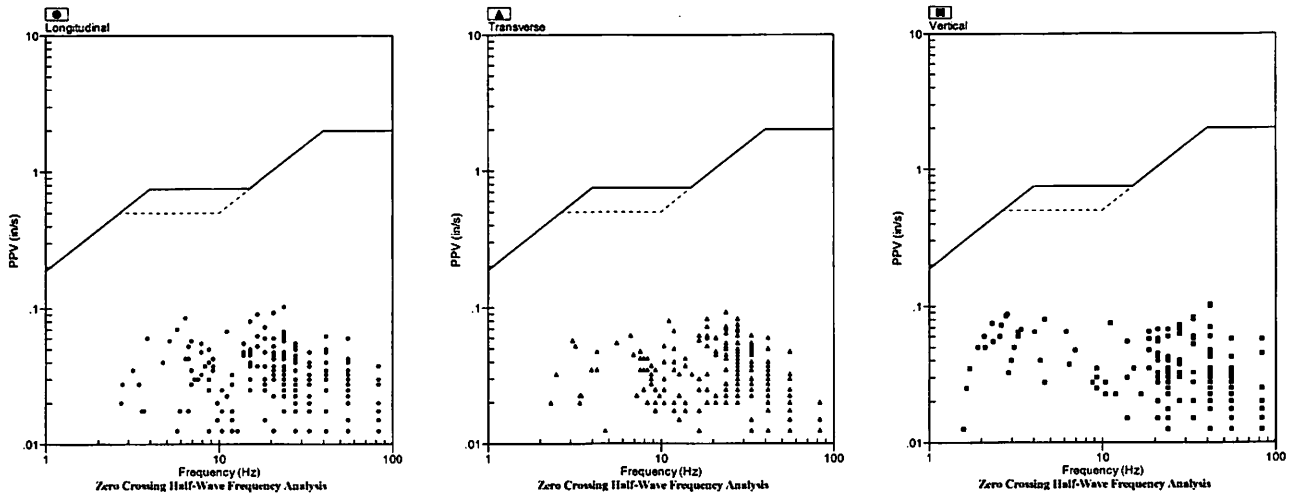
Serial No: 8616 v5.29
Date: 07/17/2020 11:47:41
Event No: 3
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.103	0.093	0.103
FREQ (Hz)	23.8	23.8	41.7
PD (.001")	2.56	2.36	5.20
PPA (g)	0.039	0.046	0.072
Peak Vector Sum:	0.138 in/s		
Peak Air Pressure:	103 db		
	0.00050 PSI @ 33.3 Hz		

Additional Info:

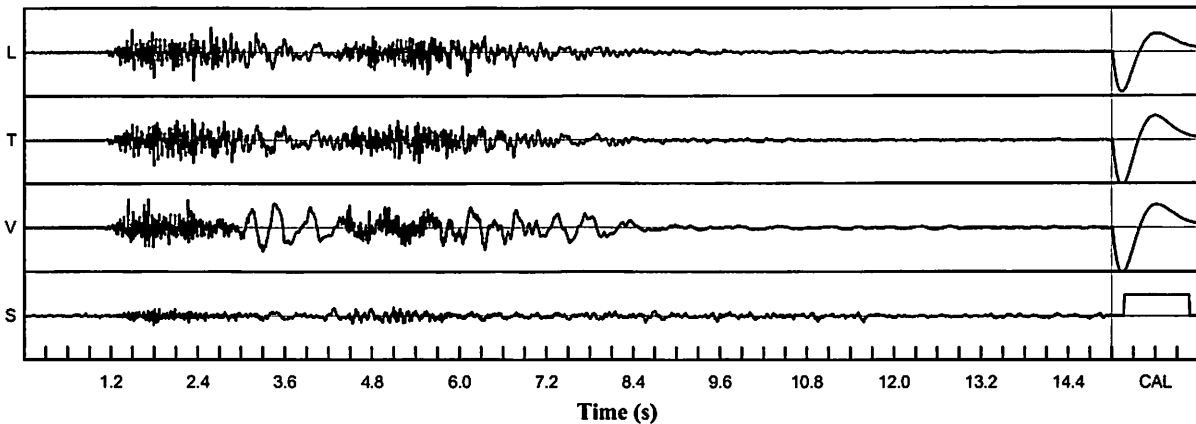
Shaketable Calibrated: 04/12/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 8616 Event: 3



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

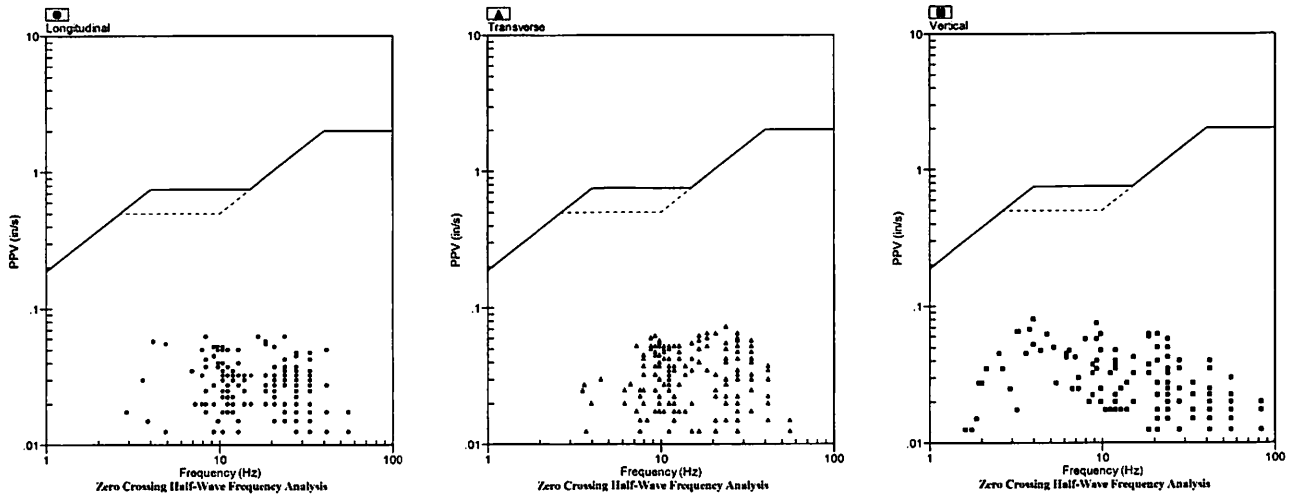
Serial No: 8616 v5.29
Date: 07/21/2020 11:46:32
Event No: 4
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.068	0.073	0.080
FREQ (Hz)	15.2	23.8	4.0
PD (.001")	1.82	1.73	3.06
PPA (g)	0.033	0.039	0.033
Peak Vector Sum:	0.103 in/s		
Peak Air Pressure:	101 db		
	0.00046 PSI @ 33.3 Hz		

Additional Info:

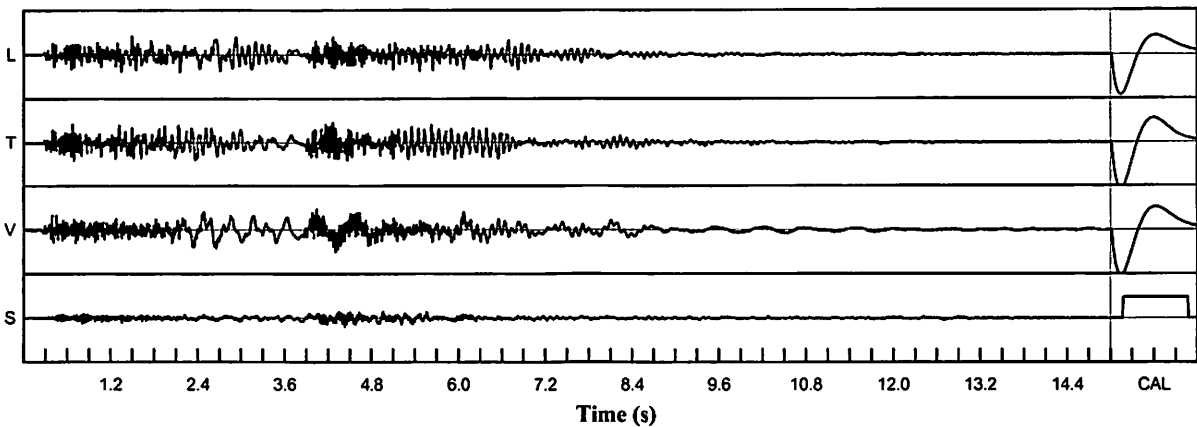
Shaketable Calibrated: 04/12/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 8616 Event: 4



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

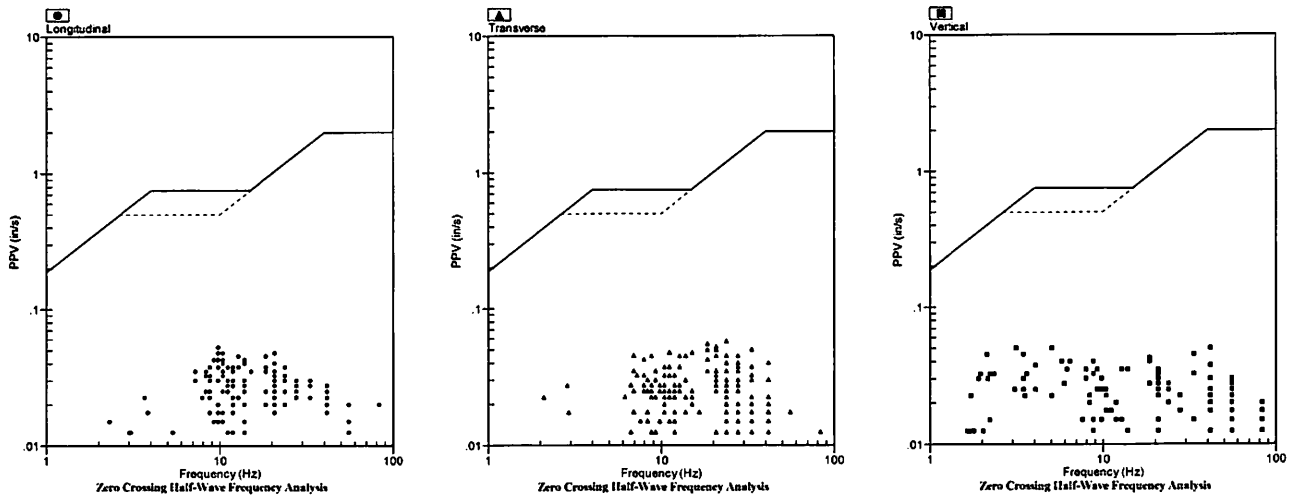
Serial No: 8616 v5.29
Date: 07/24/2020 11:46:44
Event No: 5
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.053	0.060	0.050
FREQ (Hz)	9.8	7.9	4.2
PD (.001")	1.37	1.52	2.49
PPA (g)	0.026	0.033	0.026
Peak Vector Sum:	0.070 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 4.8 Hz		

Additional Info:

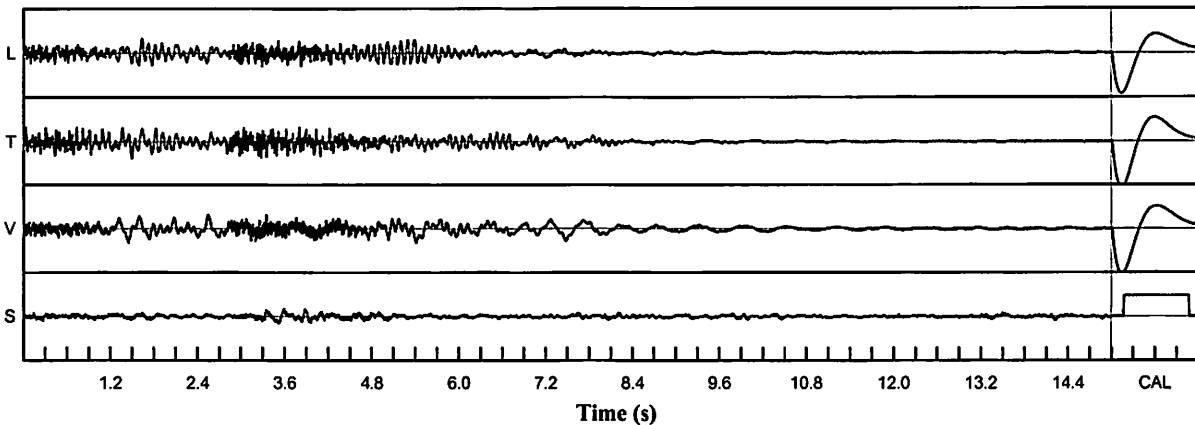
Shaketable Calibrated: 04/12/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 8616 Event: 5



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5150 v3.67
Date: 07/28/2020 11:46:20
Event No: 1
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

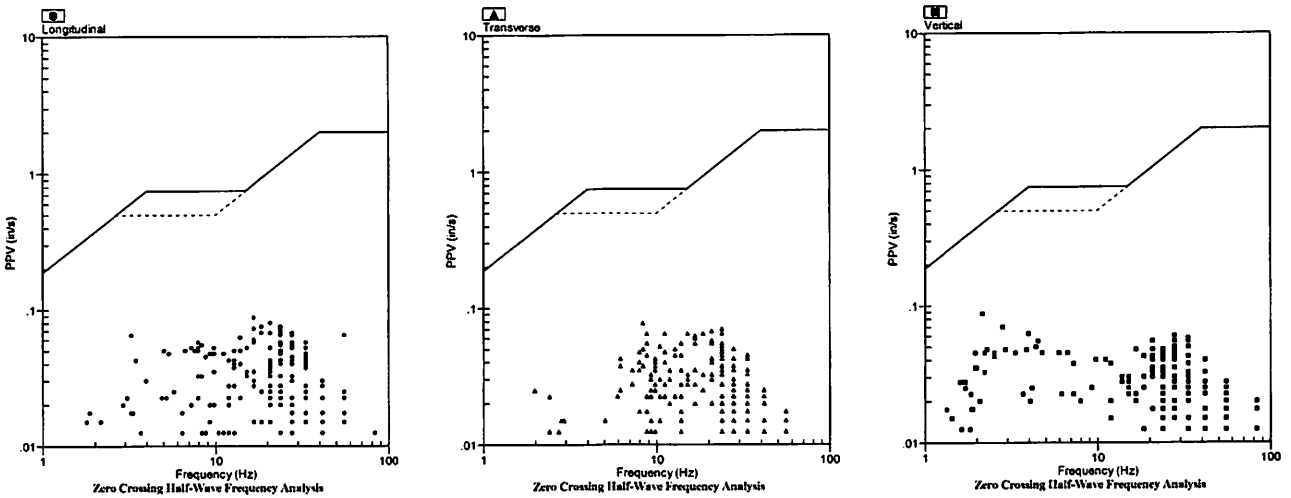
Summary Data

	L	T	V
PPV (in/s)	0.088	0.078	0.088
FREQ (Hz)	16.7	8.3	2.2
PD (.001")	2.08	1.83	4.60
PPA (g)	0.046	0.033	0.033
Peak Vector Sum:	0.095 in/s		
Peak Air Pressure:	106 db		
	0.00064 PSI @ 7.2 Hz		

Additional Info:

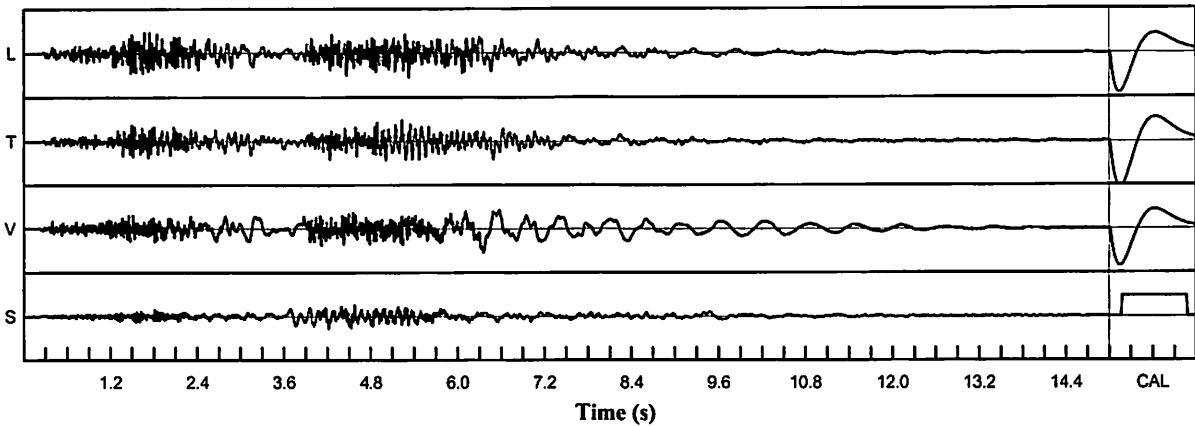
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 1



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5150 v3.67
Date: 08/05/2020 11:31:30
Event No: 2
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

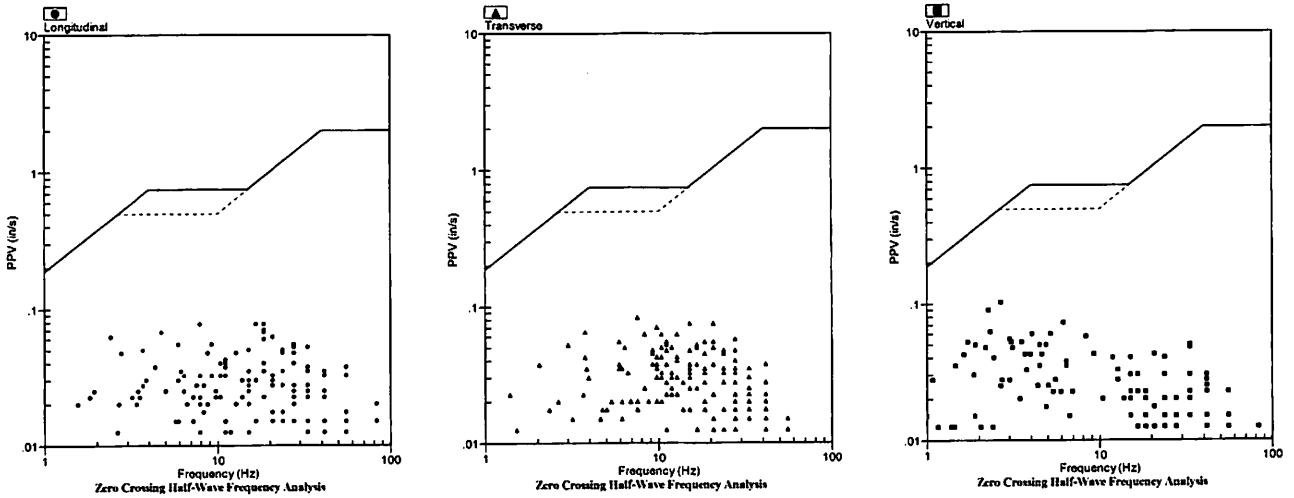
	L	
PPV (in/s)	0.078	0.0
FREQ (Hz)	16.7	7.6
PD (.001")	2.99	2.65
PPA (g)	0.039	0.026
Peak Vector Sum:		0.108 ir.
Peak Air Pressure:		107 db
		0.00070 F

Summary

Additional Info:

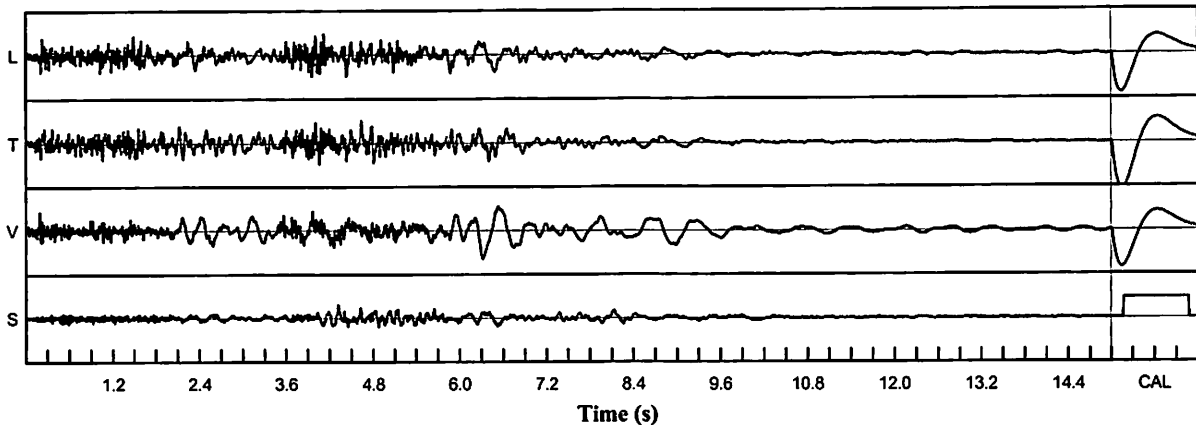
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 2



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5150 v3.67
Date: 08/11/2020 13:16:46
Event No: 3
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

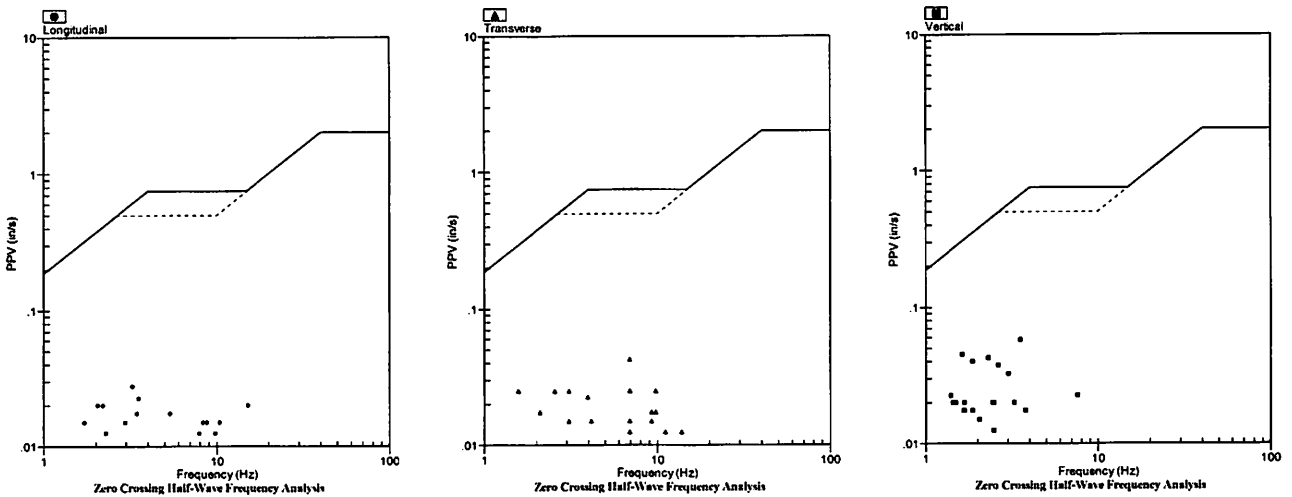
Summary Data

	L	T	V
PPV (in/s)	0.045	0.048	0.058
FREQ (Hz)	8.3	12.8	2.5
PD (.001")	1.49	1.53	3.52
PPA (g)	0.013	0.013	0.007
Peak Vector Sum:	0.063 in/s		
Peak Air Pressure:	101 db		
	0.00036 PSI @ 3.5 Hz		

Additional Info:

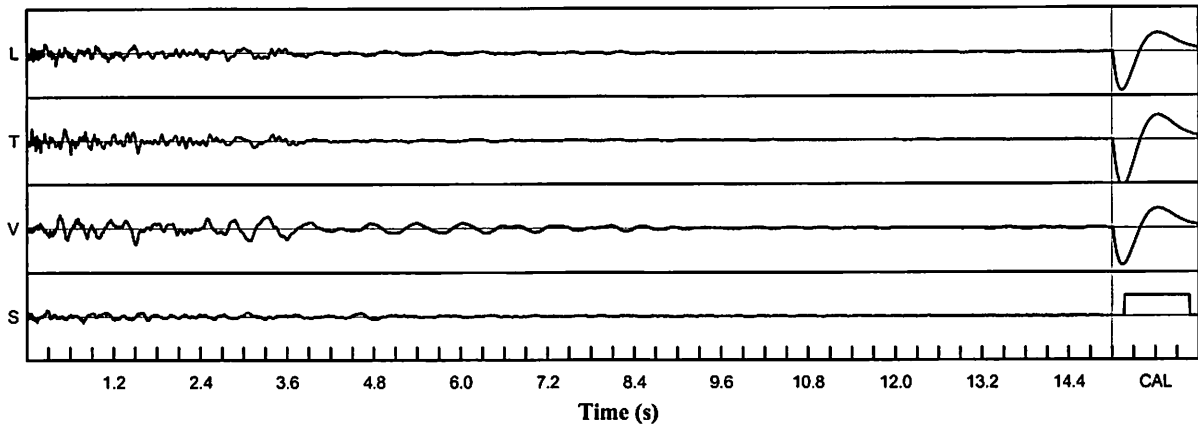
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 3



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

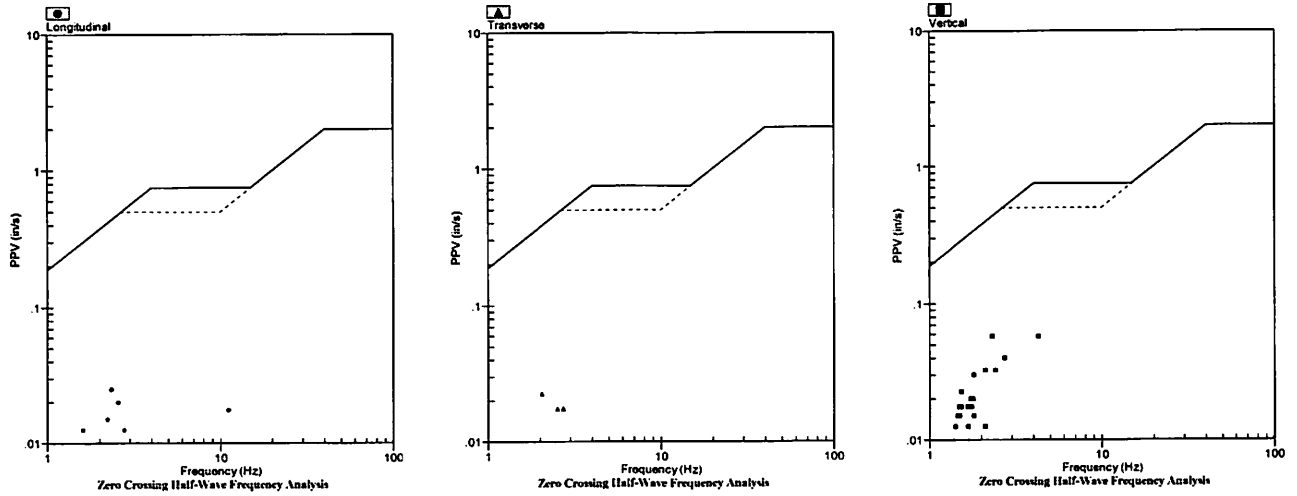
Serial No: 5150 v3.67
Date: 08/14/2020 11:31:57
Event No: 4
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.025	0.030	0.058
FREQ (Hz)	2.4	2.3	2.3
PD (.001")	1.86	1.70	3.90
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.060 in/s		
Peak Air Pressure:	101 db		
	0.00034 PSI @ 3.2 Hz		

Additional Info:

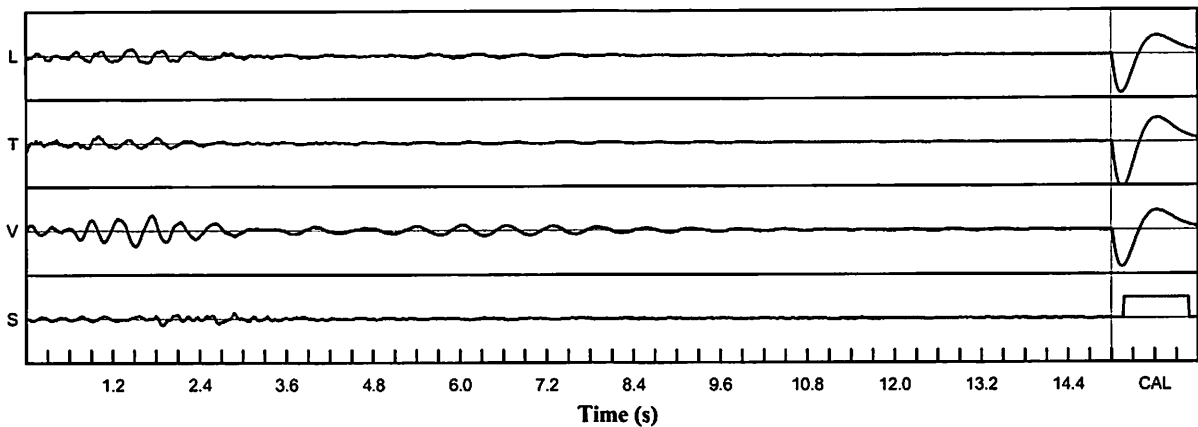
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 4



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5150 v3.67
Date: 08/18/2020 11:46:49
Event No: 5
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

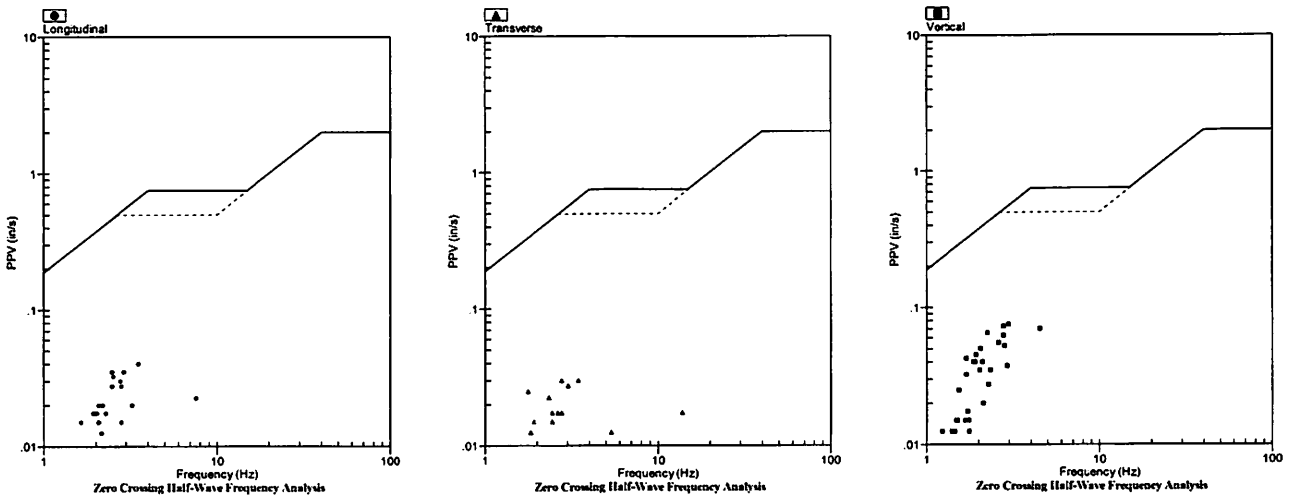
Summary Data

	L	T	V
PPV (in/s)	0.040	0.030	0.075
FREQ (Hz)	3.5	2.7	3.0
PD (.001")	2.08	1.62	4.19
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.080 in/s		
Peak Air Pressure:	102 db		
	0.00041 PSI @ 5.2 Hz		

Additional Info:

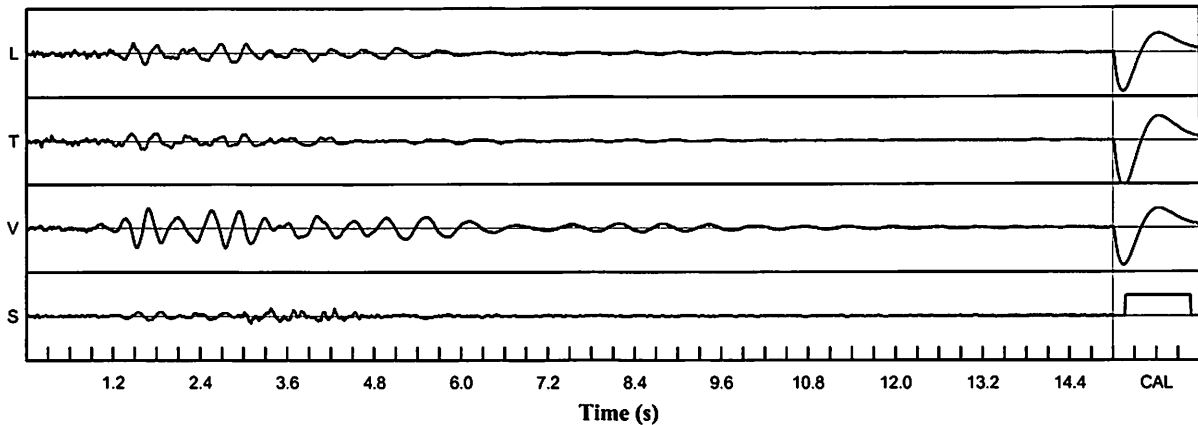
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 5



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

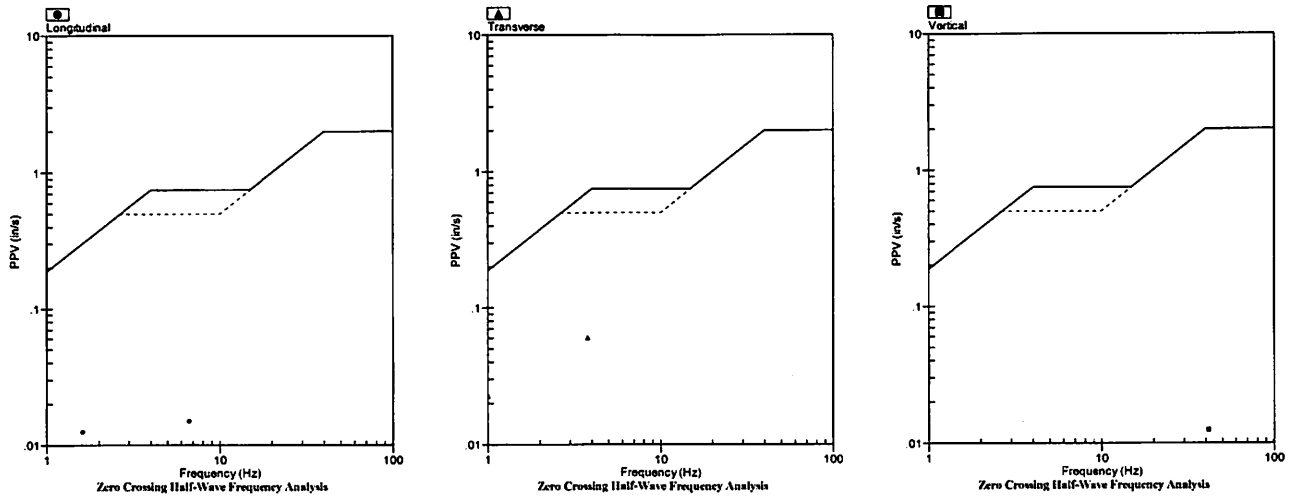
Serial No: 5150 v3.67
Date: 08/19/2020 08:36:59
Event No: 6
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.058	0.065	0.043
FREQ (Hz)	33.3	2.6	41.7
PD (.001")	0.79	3.22	0.24
PPA (g)	0.052	0.033	0.052
Peak Vector Sum:	0.075 in/s		
Peak Air Pressure:	89 db		
	0.00016 PSI @ 6.9 Hz		

Additional Info:

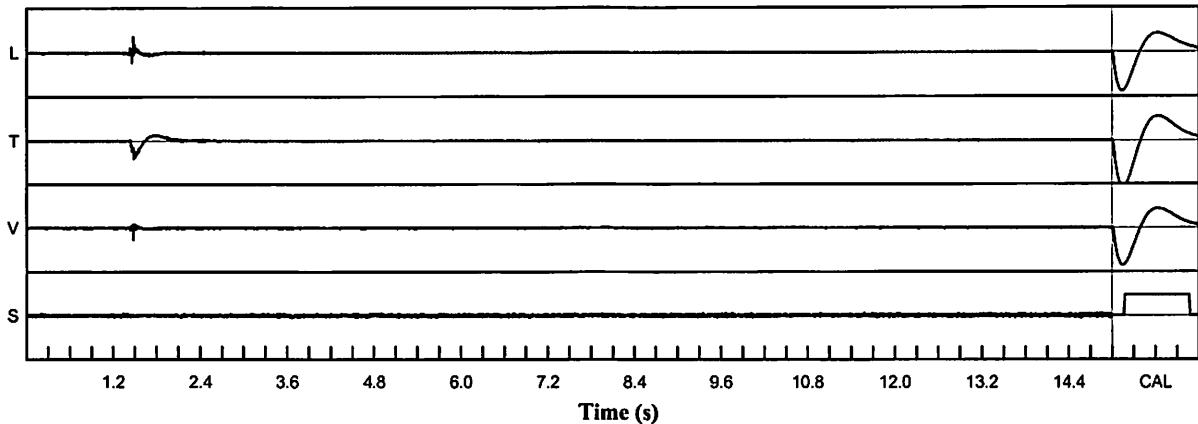
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 6



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5150 v3.67
Date: 08/27/2020 11:33:00
Event No: 7
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

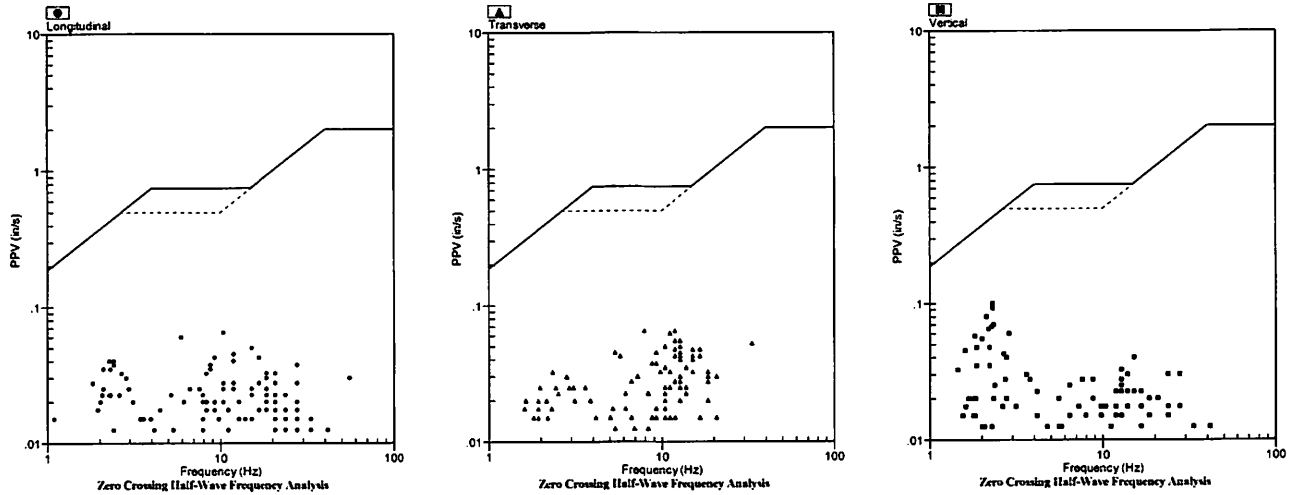
Summary Data

	L	T	V
PPV (in/s)	0.065	0.065	0.100
FREQ (Hz)	10.4	11.9	2.3
PD (.001")	2.67	1.93	6.89
PPA (g)	0.013	0.013	0.013
Peak Vector Sum:	0.103 in/s		
Peak Air Pressure:	108 db		
	0.00075 PSI @ 2.5 Hz		

Additional Info:

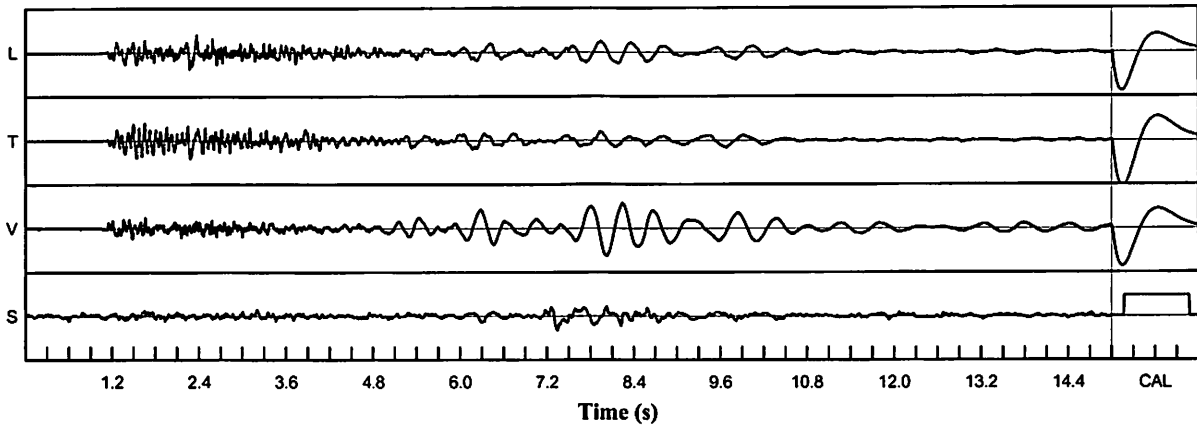
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5150 Event: 7



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5223 v5.29
Date: 05/27/2020 15:15:25
Event No: 10
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 16171 SW 49th Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

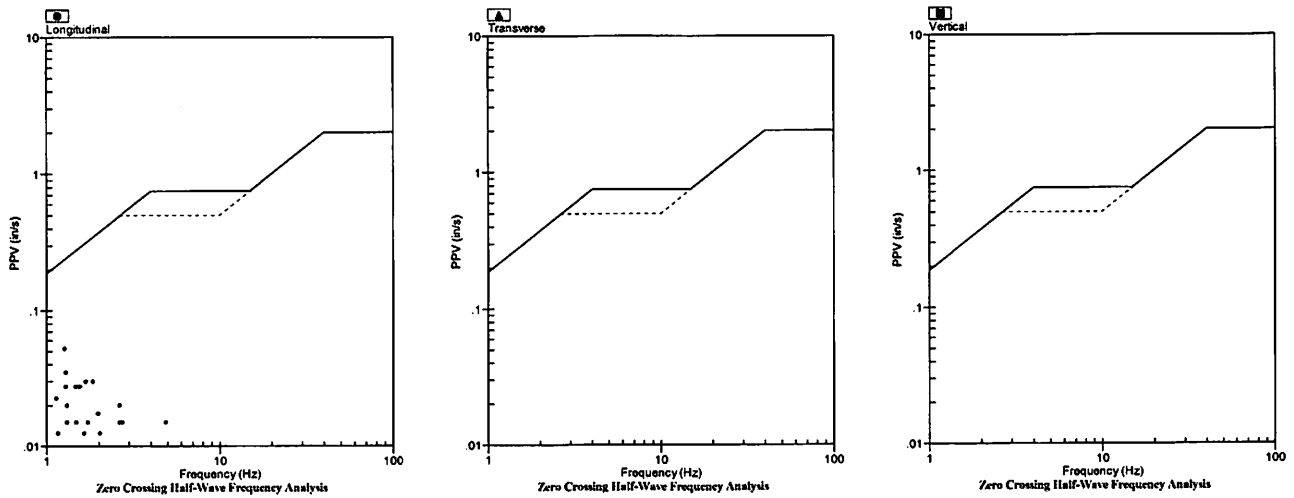
Summary Data

	L	T	V
PPV (in/s)	0.053	0.013	0.005
FREQ (Hz)	.9	1.0	9.3
PD (.001")	13.37	3.42	0.36
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.053 in/s		
Peak Air Pressure:	85 db		
	0.00011 PSI @ 1.0 Hz		

Additional Info:

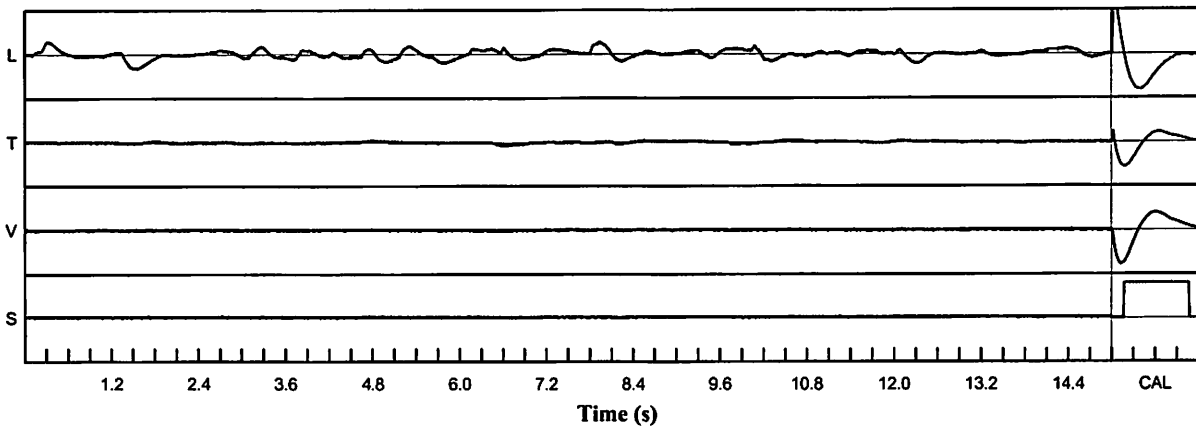
Shaketable Calibrated: 08/06/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5223 Event: 10



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

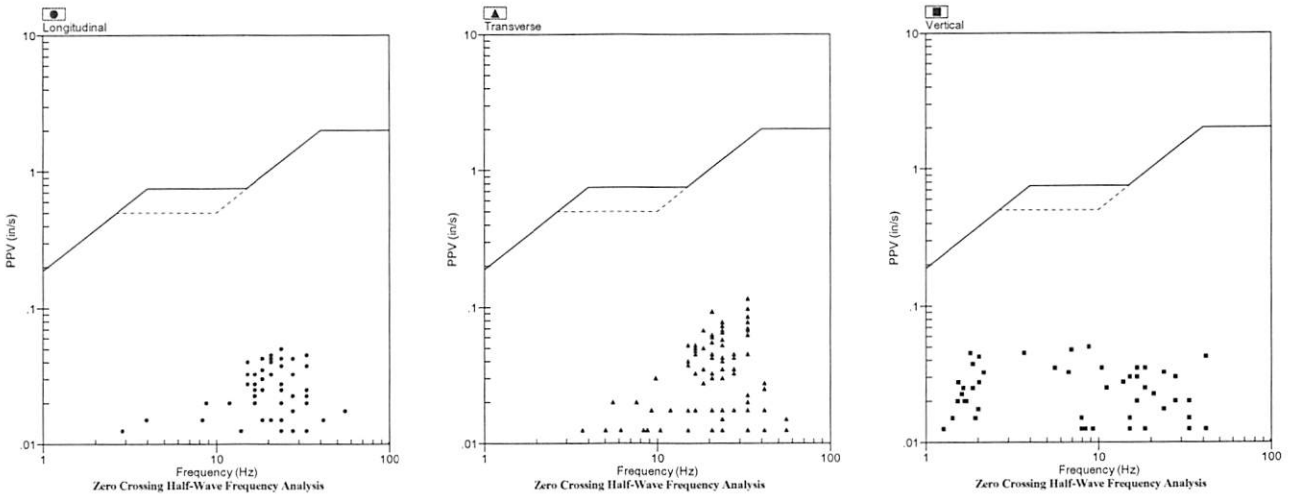
Serial No: 5149 v3.67
Date: 07/08/2020 14:30:23
Event No: 2
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 16171 SW 49th Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

	L	T	V
PPV (in/s)	0.050	0.115	0.050
FREQ (Hz)	23.8	33.3	8.8
PD (.001")	1.17	1.10	3.05
PPA (g)	0.026	0.052	0.020
Peak Vector Sum:	0.123 in/s		
Peak Air Pressure:	102 db		
	0.00043 PSI @ 8.3 Hz		

Additional Info:

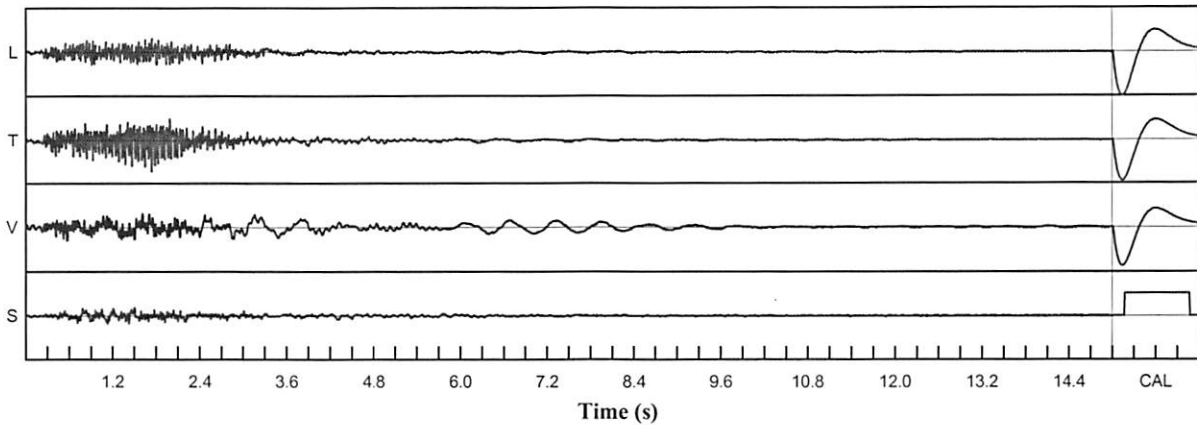
Shaketable Calibrated: 06/05/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5149 Event: 2



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5149 v3.67
Date: 07/17/2020 11:47:18
Event No: 50
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 16171 SW 49th Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.050 in/s

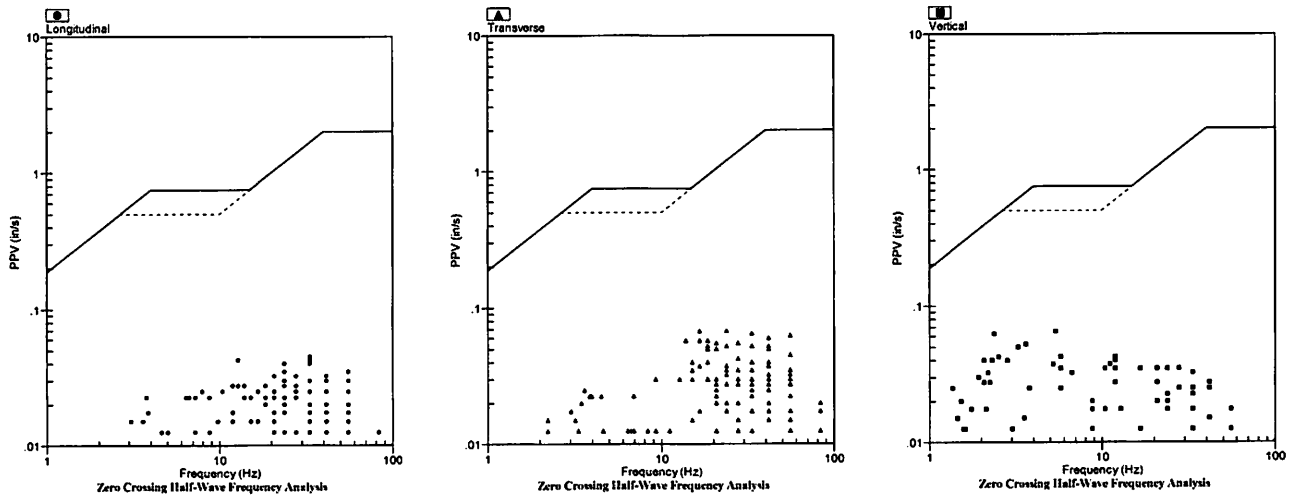
Summary Data

	L	T	V
PPV (in/s)	0.045	0.068	0.065
FREQ (Hz)	33.3	23.8	3.1
PD (.001")	0.87	1.32	3.16
PPA (g)	0.026	0.039	0.020
Peak Vector Sum:	0.078 in/s		
Peak Air Pressure:	103 db		
	0.00046 PSI @ 4.9 Hz		

Additional Info:

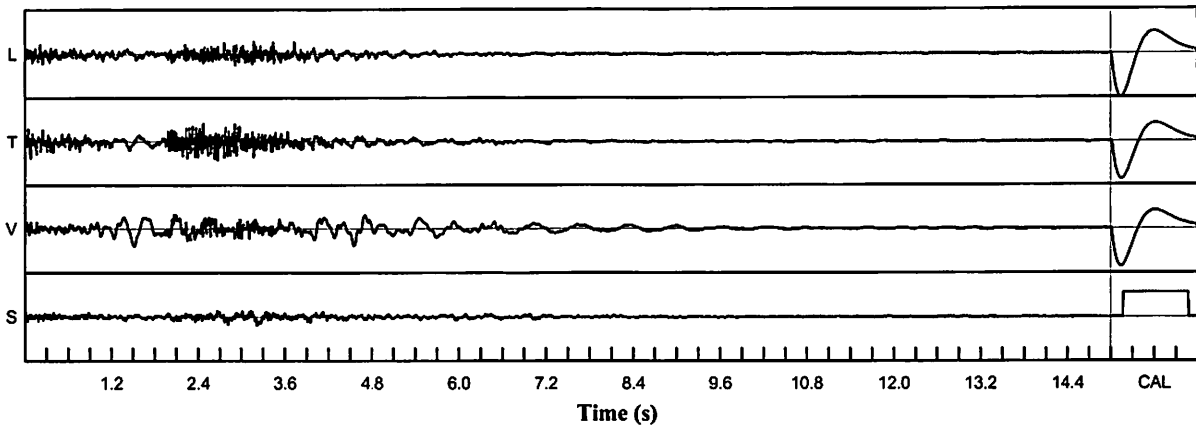
Shaketable Calibrated: 06/05/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5149 Event: 50



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/01/2020 11:15:00
Event No: 1
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

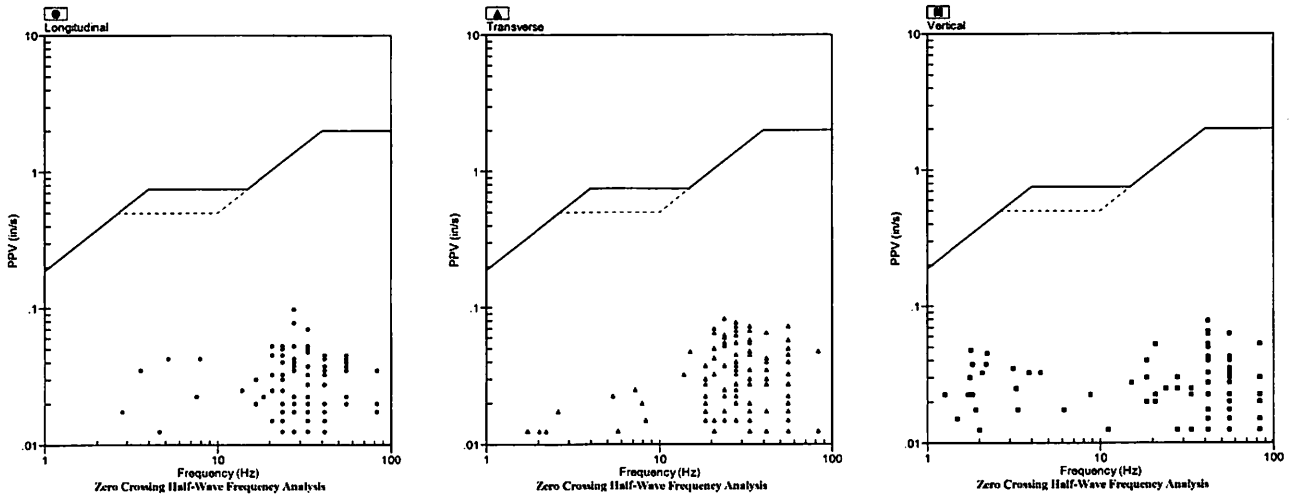
Summary Data

	L	T	V
PPV (in/s)	0.098	0.083	0.078
FREQ (Hz)	27.8	23.8	41.7
PD (.001")	2.01	1.47	3.90
PPA (g)	0.052	0.052	0.059
Peak Vector Sum:	0.108 in/s		
Peak Air Pressure:	103 db		
	0.00050 PSI @ 2.5 Hz		

Additional Info:

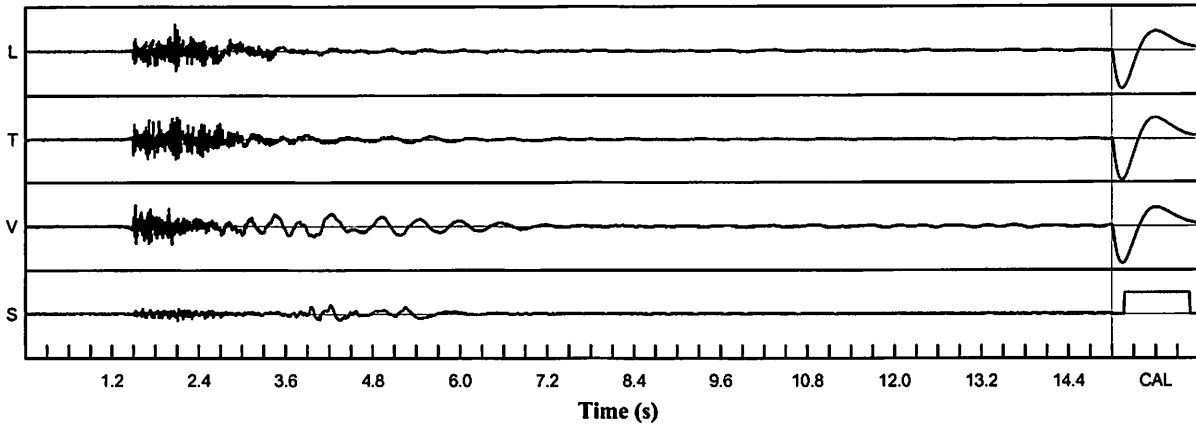
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 1



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/07/2020 13:15:11
Event No: 2
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

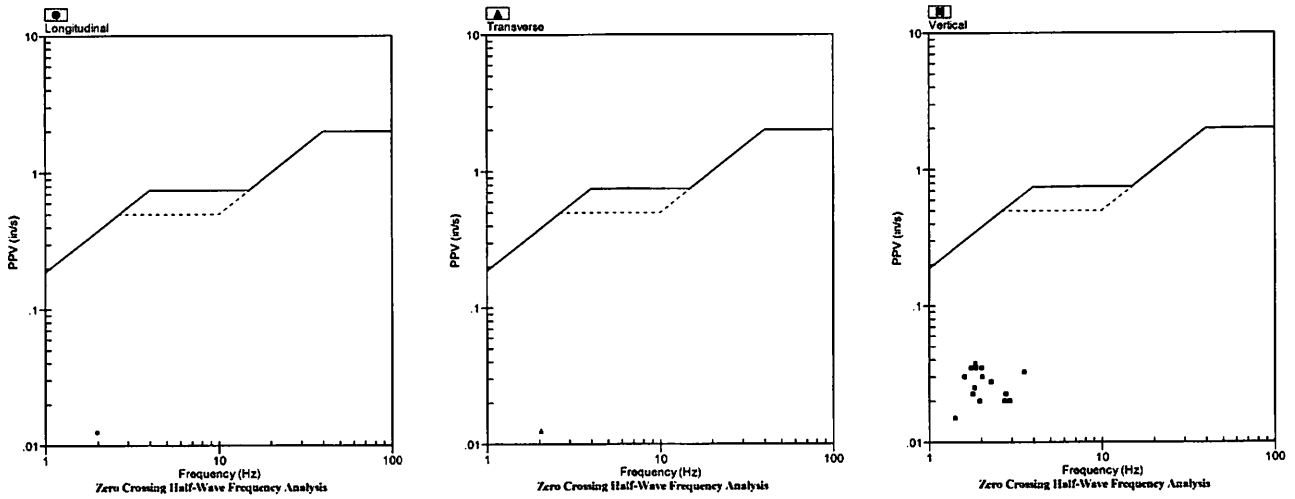
Summary Data

	L	T	V
PPV (in/s)	0.015	0.013	0.038
FREQ (Hz)	2.2	3.6	1.9
PD (.001")	1.19	1.53	3.13
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:		0.038 in/s	
Peak Air Pressure:		95 db	
		0.00032 PSI @ 2.0 Hz	

Additional Info:

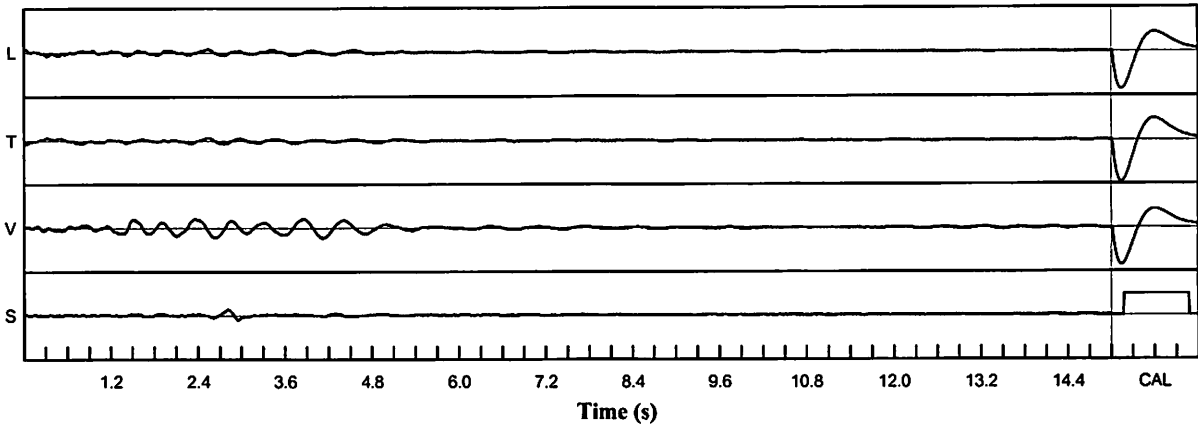
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 2



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/11/2020 11:30:22
Event No: 3
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

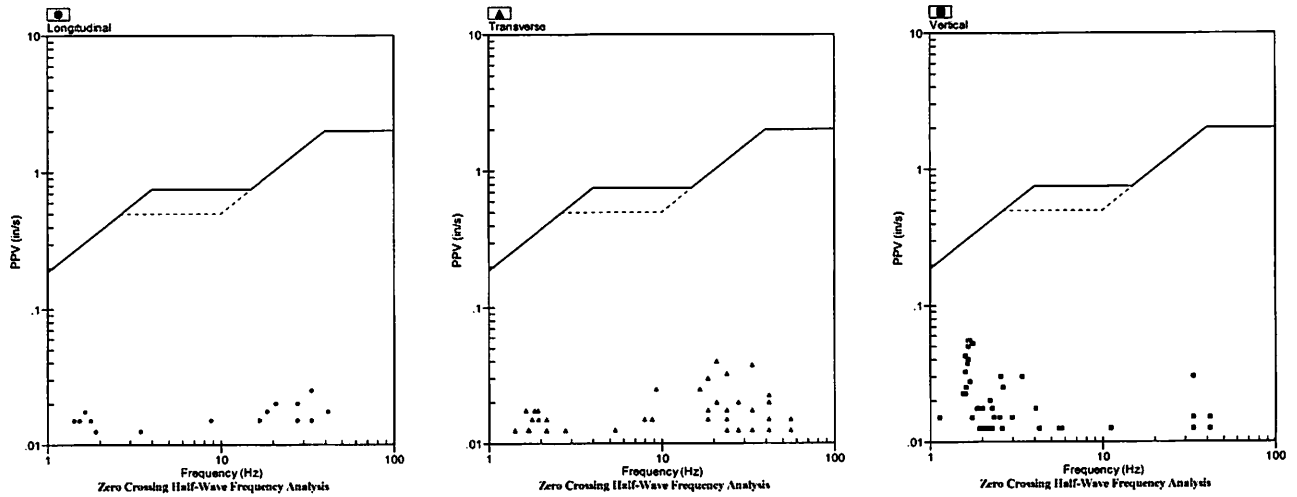
Summary Data

	L	T	V
PPV (in/s)	0.025	0.048	0.055
FREQ (Hz)	33.3	33.3	1.7
PD (.001")	1.28	1.51	5.04
PPA (g)	0.013	0.033	0.020
Peak Vector Sum:	0.055 in/s		
Peak Air Pressure:	91 db		
	0.00025 PSI @ 10.4 Hz		

Additional Info:

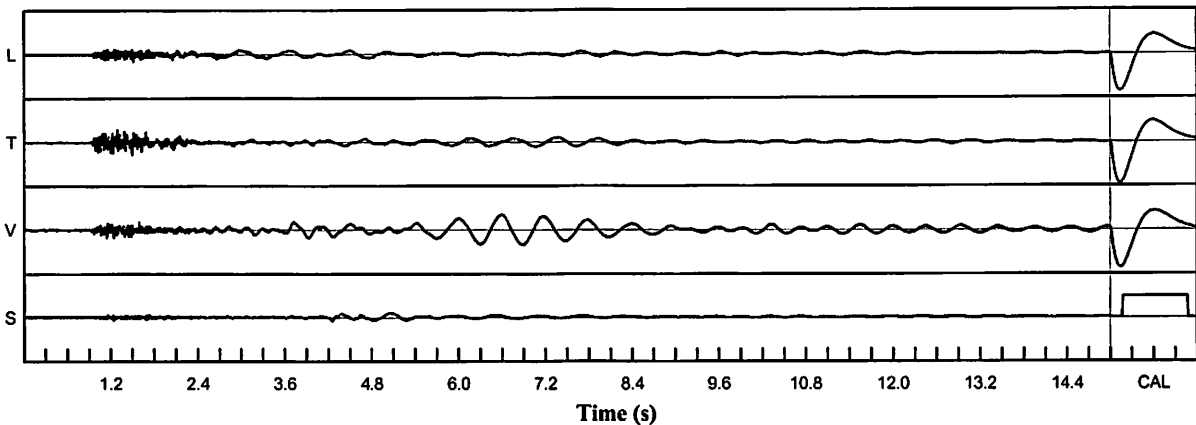
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 3



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

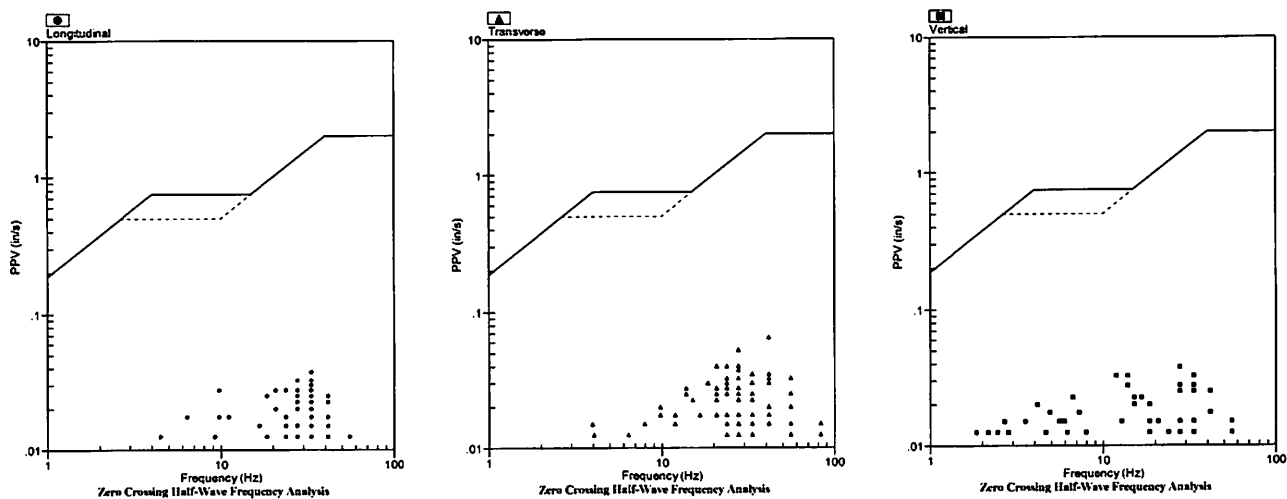
Serial No: 5148 v3.67
Date: 05/12/2020 11:15:13
Event No: 4
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.038	0.065	0.038
FREQ (Hz)	33.3	27.8	27.8
PD (.001")	0.56	0.59	0.82
PPA (g)	0.020	0.039	0.020
Peak Vector Sum:	0.078 in/s		
Peak Air Pressure:	90 db		
	0.00021 PSI @ 27.8 Hz		

Additional Info:

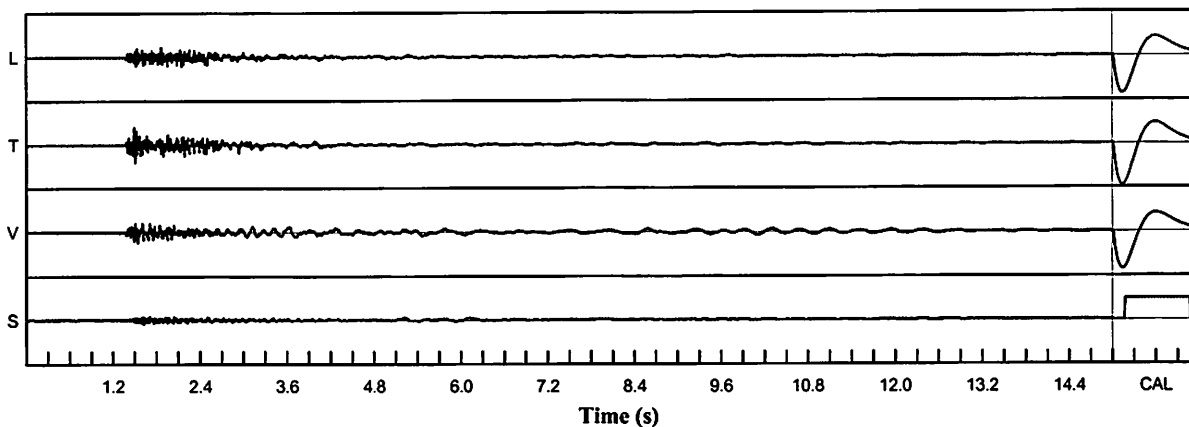
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 4



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/13/2020 11:30:22
Event No: 5
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

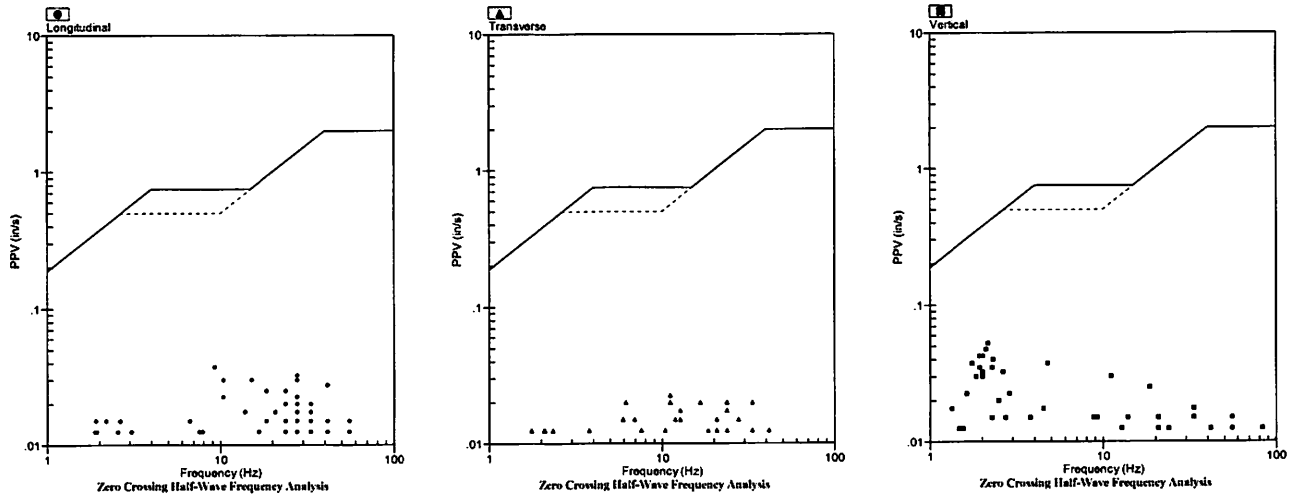
Summary Data

	L	T	V
PPV (in/s)	0.038	0.030	0.053
FREQ (Hz)	9.3	7.6	2.2
PD (.001")	1.17	0.93	3.61
PPA (g)	0.020	0.013	0.020
Peak Vector Sum:	0.055 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 2.3 Hz		

Additional Info:

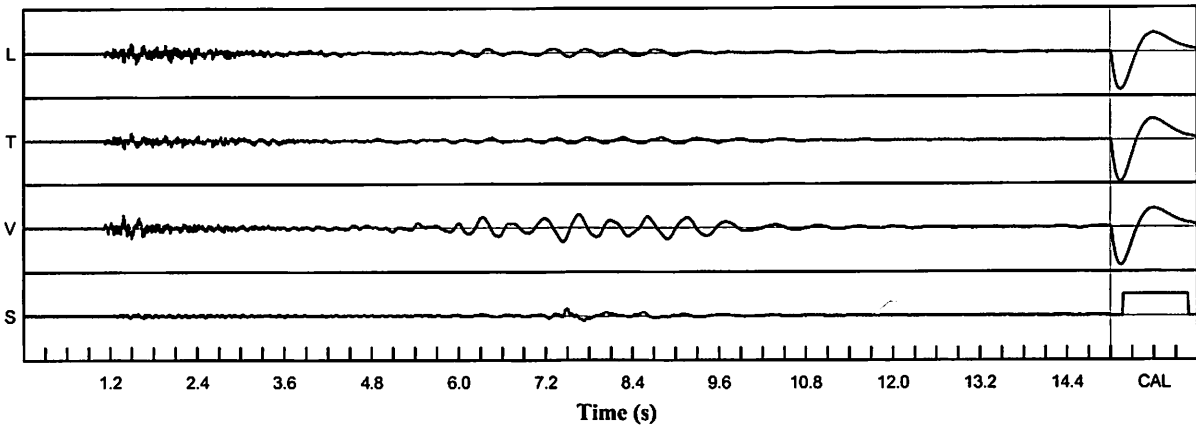
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 5



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/18/2020 14:45:44
Event No: 6
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

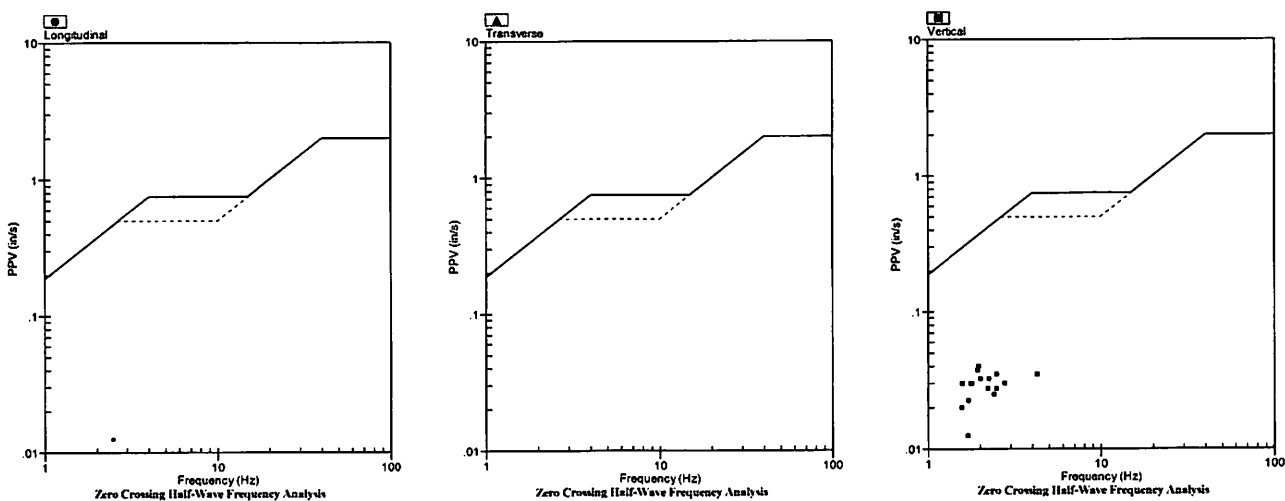
Summary Data

	L	T	V
PPV (in/s)	0.013	0.010	0.040
FREQ (Hz)	2.5	3.4	2.0
PD (.001")	0.79	1.09	3.07
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.040 in/s		
Peak Air Pressure:	99 db		
	0.00043 PSI @ 3.7 Hz		

Additional Info:

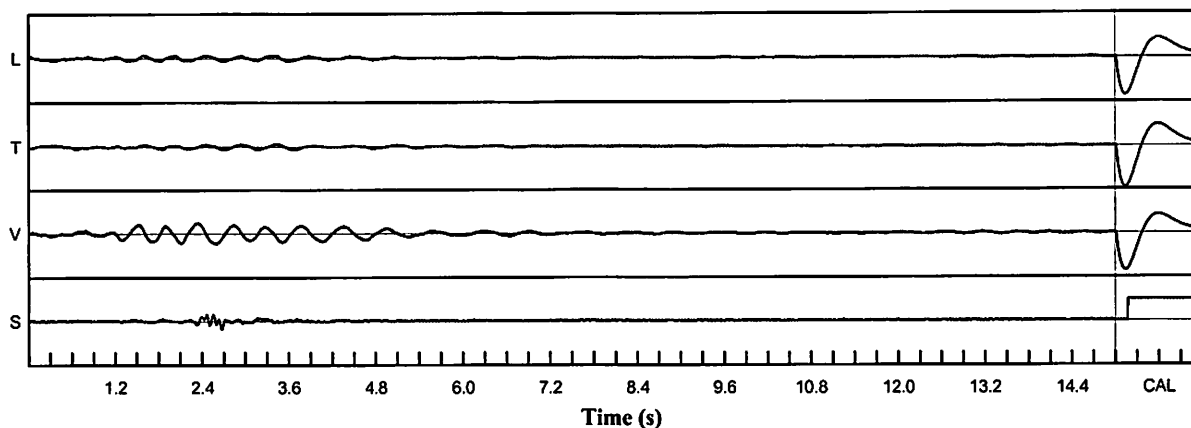
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 6



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/20/2020 11:30:34
Event No: 7
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

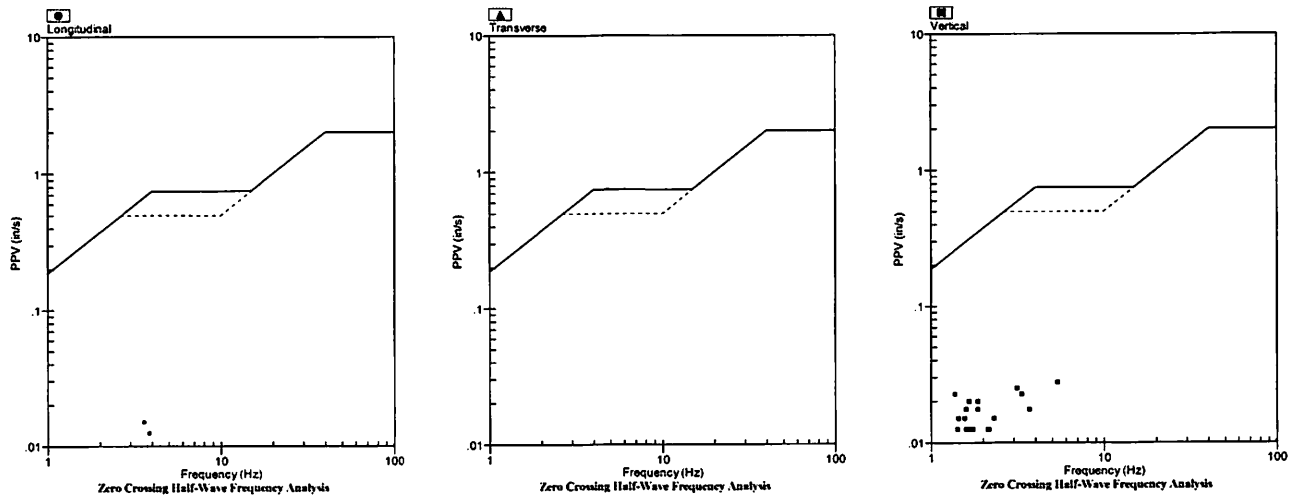
Summary Data

	L	T	V
PPV (in/s)	0.020	0.023	0.030
FREQ (Hz)	33.3	15.2	3.3
PD (.001")	0.57	0.55	1.70
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.030 in/s		
Peak Air Pressure:	93 db		
	0.00028 PSI @ 4.2 Hz		

Additional Info:

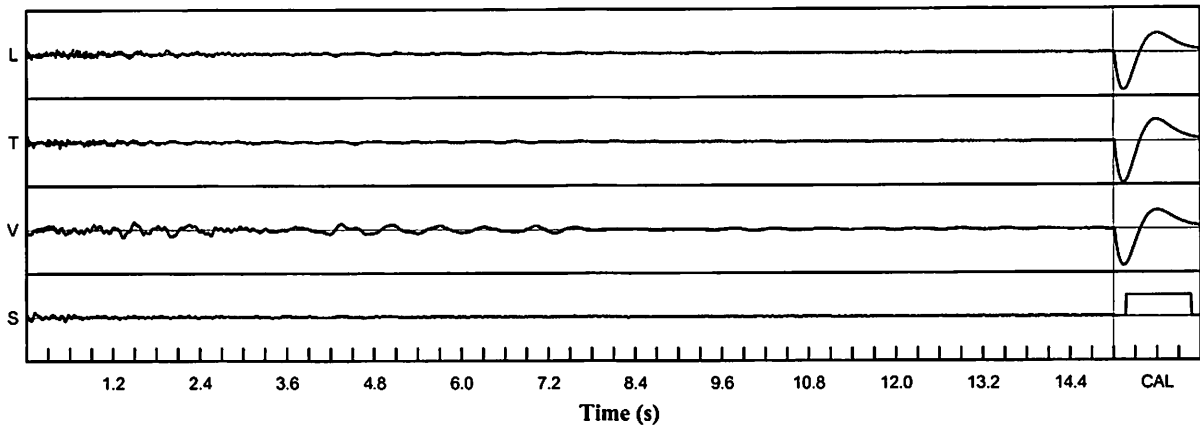
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 7



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

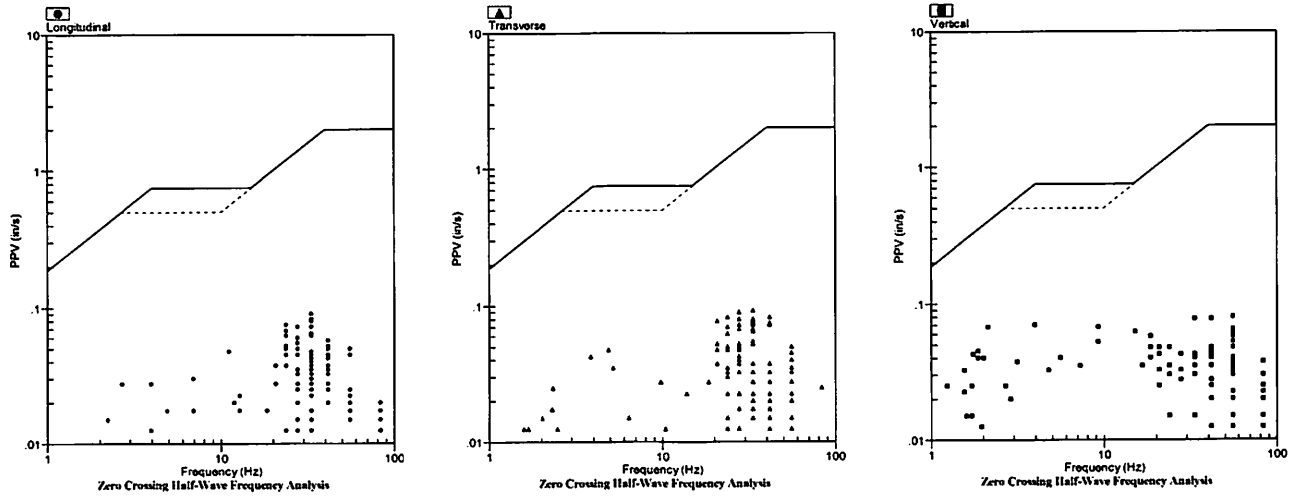
Serial No: 5148 v3.67
Date: 05/21/2020 15:12:12
Event No: 8
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.090	0.093	0.080
FREQ (Hz)	33.3	33.3	55.6
PD (.001")	1.96	1.82	4.54
PPA (g)	0.052	0.065	0.072
Peak Vector Sum:	0.123 in/s		
Peak Air Pressure:	103 db		
	0.00050 PSI @ 8.3 Hz		

Additional Info:

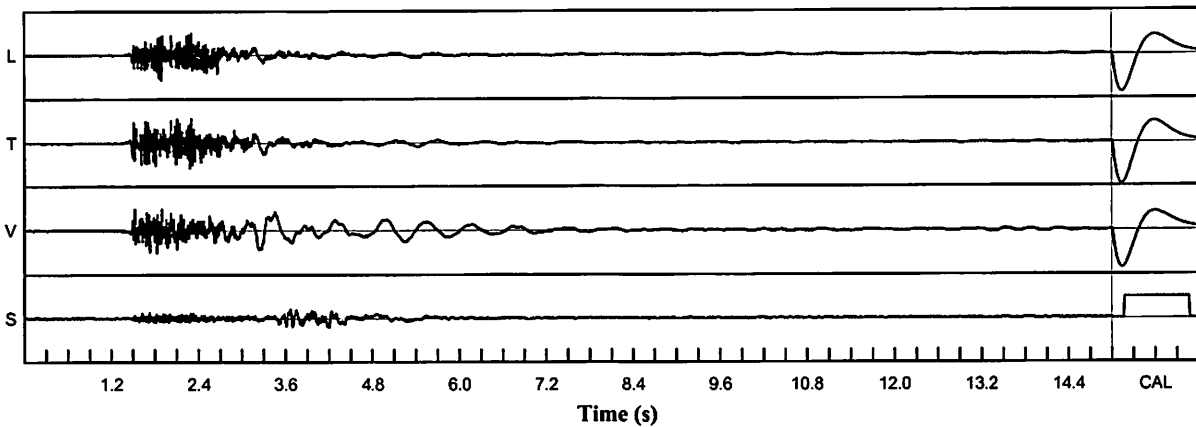
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 8



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 05/22/2020 11:45:53
Event No: 9
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

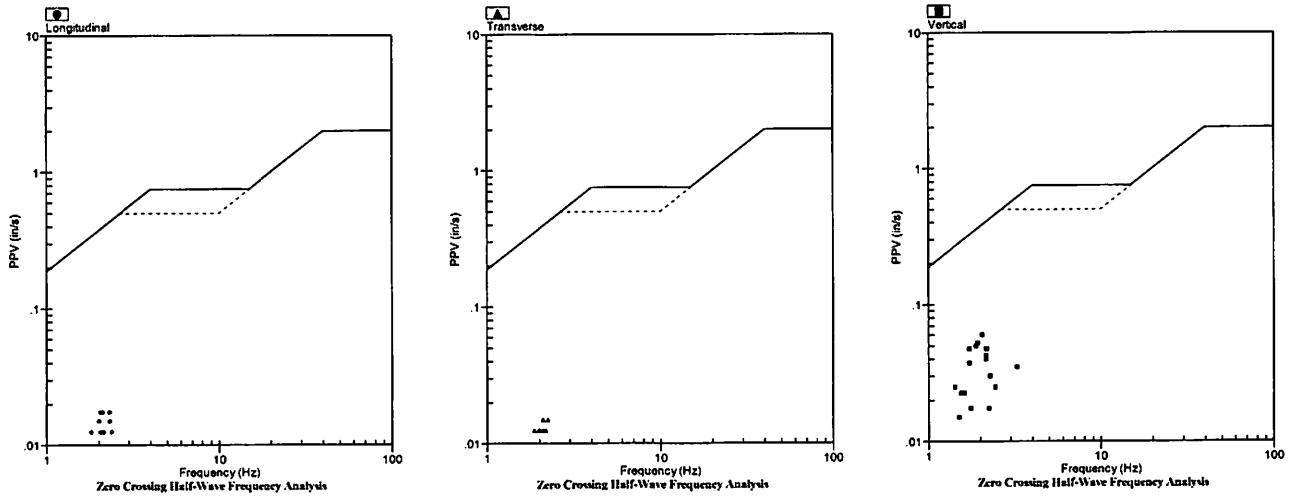
Summary Data

	L	T	V
PPV (in/s)	0.018	0.015	0.060
FREQ (Hz)	2.1	2.1	2.1
PD (.001")	1.16	1.05	4.62
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.060 in/s		
Peak Air Pressure:	93 db		
	0.00028 PSI @ 1.7 Hz		

Additional Info:

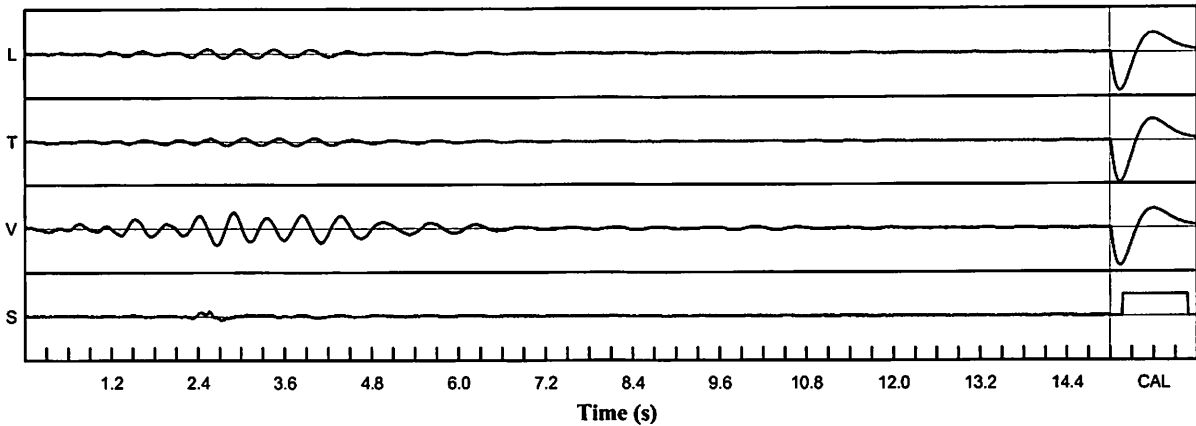
Shaketable Calibrated: 07/25/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 9



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

Serial Number	8913 v5.29	Tran	0.085	0.080	0.143
Event Date	June 15, 2020 11:45:54	PPV (in/s)	3.77	2.69	10.37
Event Number	1	PPA (g)	0.059	0.046	0.059
Recording Time	15.0 s	FREQ (Hz)	4.2	33.3	4.2
Seismic Trigger Level	0.030 in/s	Peak Vector Sum	0.145 in/s		
Sound Trigger Level	0 db				
Sample Rate	1000 samples/second				

Notes
 Client: City of Miramar
 Location: White Rock Quarries
 User: Roy A
 Seis Location: 17040 SW 53 Ct
 Distance:
 Comment: In Ground

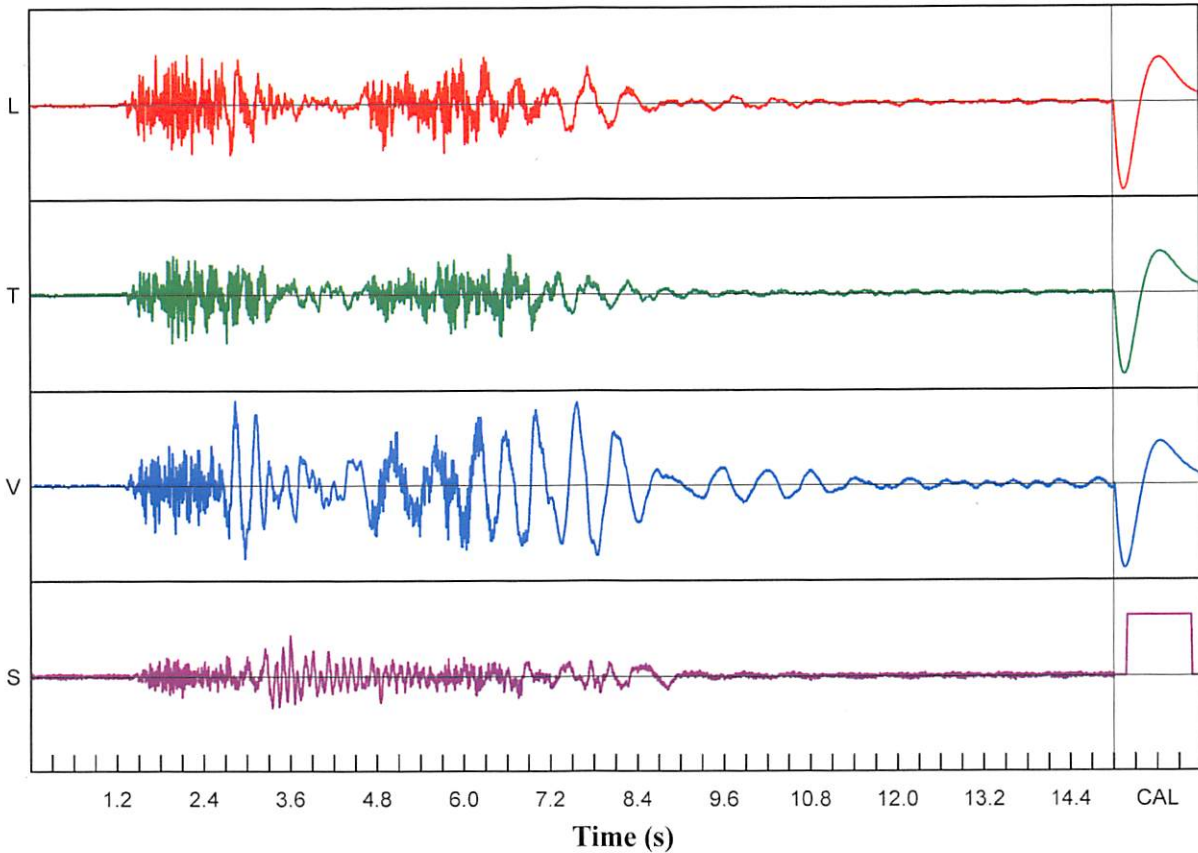
Microphone N/A
PSPL 110 db
 0.00098 psi

Additional Notes

Dynamic Geo Cal
Calibration April 13, 2020 By GeoSonics Inc.
Battery Level 8.6

Velocity Waveform

SN: 8913 Event: 1



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

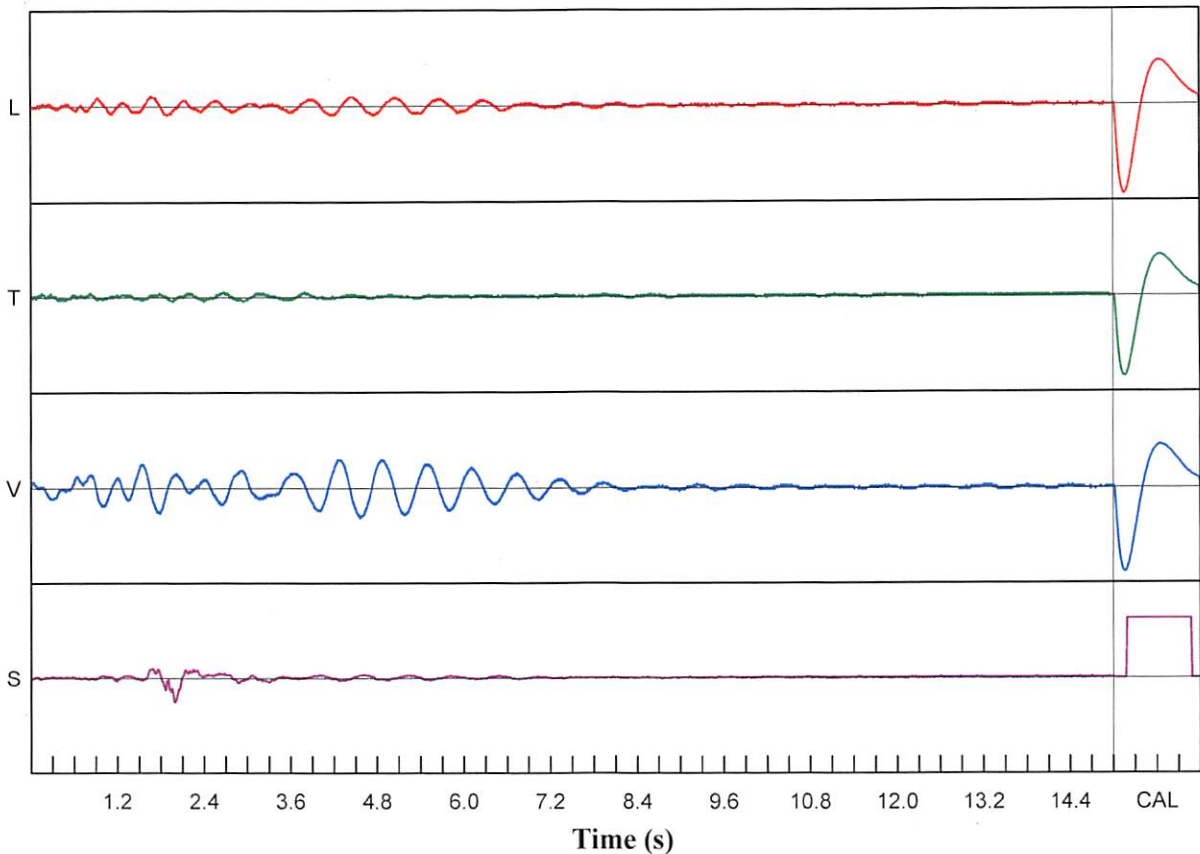
Serial Number	8913 v5.29	Tran	Vert
Event Date	June 16, 2020 15:00:33	PPV (in/s)	0.018 0.010 0.050
Event Number	2	PD (.001")	1.45 0.57 4.65
Recording Time	15.0 s	PPA (g)	0.007 0.007 0.007
Seismic Trigger Level	0.030 in/s	FREQ (Hz)	2.1 1.7 1.7
Sound Trigger Level	0 db	Peak Vector Sum	0.050 in/s
Sample Rate	1000 samples/second		

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	105 db
Location:	White Rock Quarries		0.00059 psi
User:	Roy A		
Seis Location:	17040 SW 53 Ct		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 13, 2020 By GeoSonics Inc.
	Battery Level	8.5

Velocity Waveform

SN: 8913 Event: 2



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

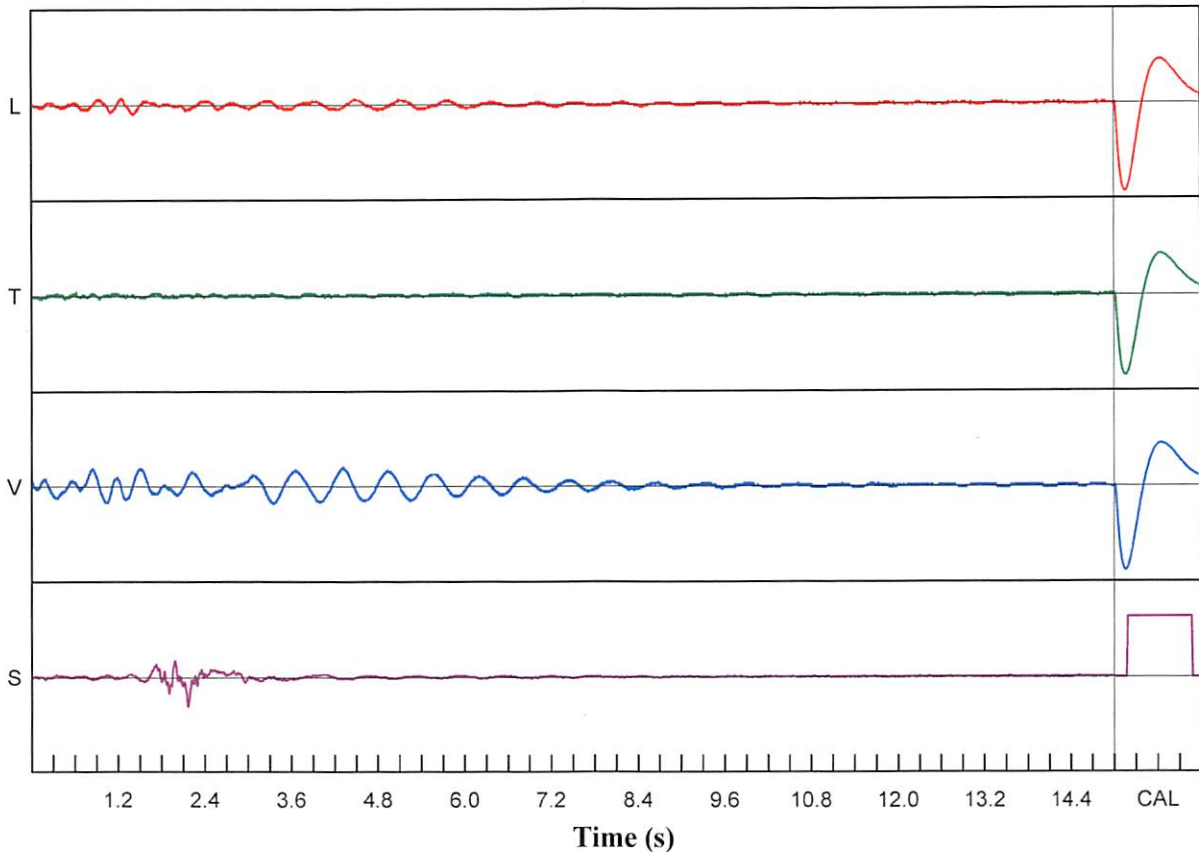
Serial Number	8913 v5.29	Tran	Vert
Event Date	June 17, 2020 13:15:20	PPV (in/s)	0.015 0.008 0.033
Event Number	3	PD (.001")	0.81 0.42 2.72
Recording Time	15.0 s	PPA (g)	0.007 0.007 0.007
Seismic Trigger Level	0.030 in/s	FREQ (Hz)	3.0 3.3 1.6
Sound Trigger Level	0 db	Peak Vector Sum	0.033 in/s
Sample Rate	1000 samples/second		

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	107 db
Location:	White Rock Quarries		0.00071 psi
User:	Roy A		
Seis Location:	17040 SW 53 Ct		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 13, 2020 By GeoSonics Inc.
	Battery Level	8.5

Velocity Waveform

SN: 8913 Event: 3



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

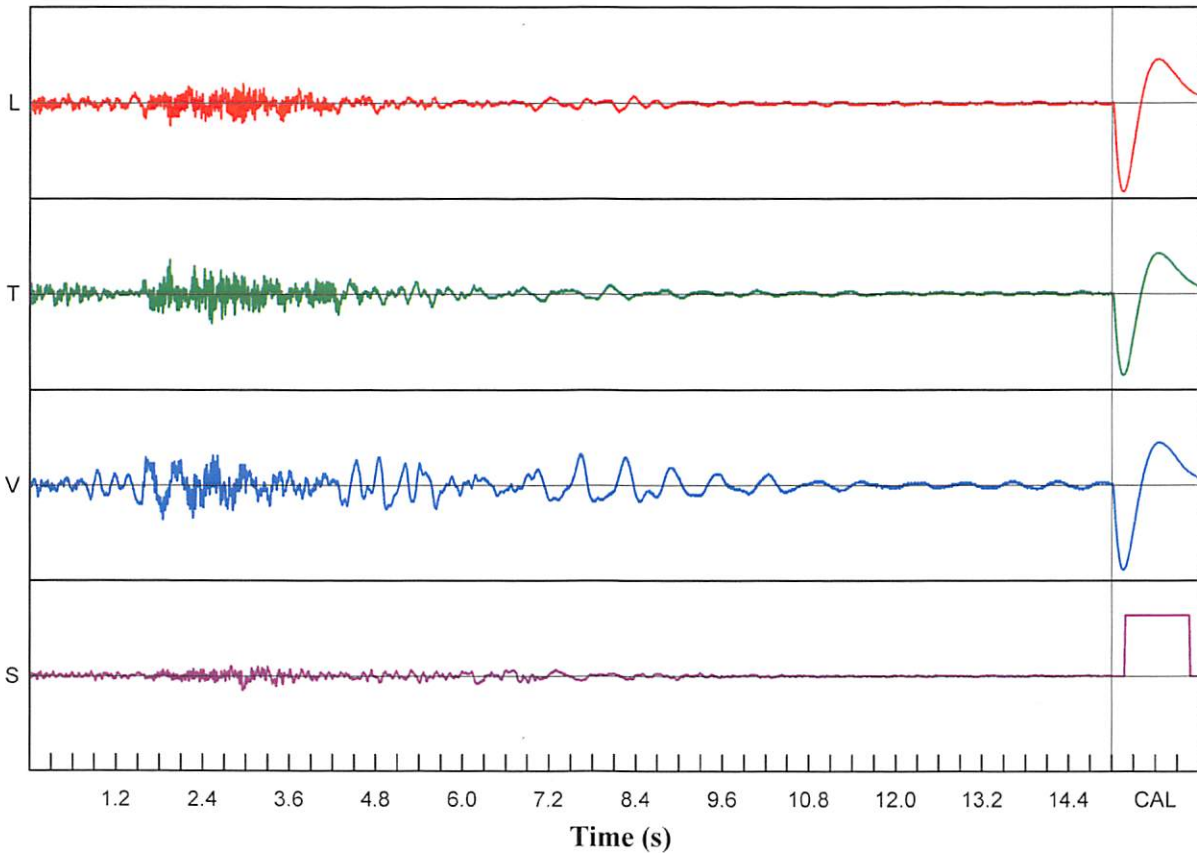
Serial Number	8913 v5.29	Tran	Vert
Event Date	June 18, 2020 11:47:16	PPV (in/s)	0.038 0.058 0.058
Event Number	4	PD (.001")	1.19 1.28 3.64
Recording Time	15.0 s	PPA (g)	0.020 0.026 0.020
Seismic Trigger Level	0.030 in/s	FREQ (Hz)	27.8 27.8 2.7
Sound Trigger Level	0 db	Peak Vector Sum	0.068 in/s
Sample Rate	1000 samples/second		

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	101 db
Location:	White Rock Quarries		0.00036 psi
User:	Roy A		
Seis Location:	17040 SW 53 Ct		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 13, 2020 By GeoSonics Inc.
	Battery Level	8.5

Velocity Waveform

SN: 8913 Event: 4



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

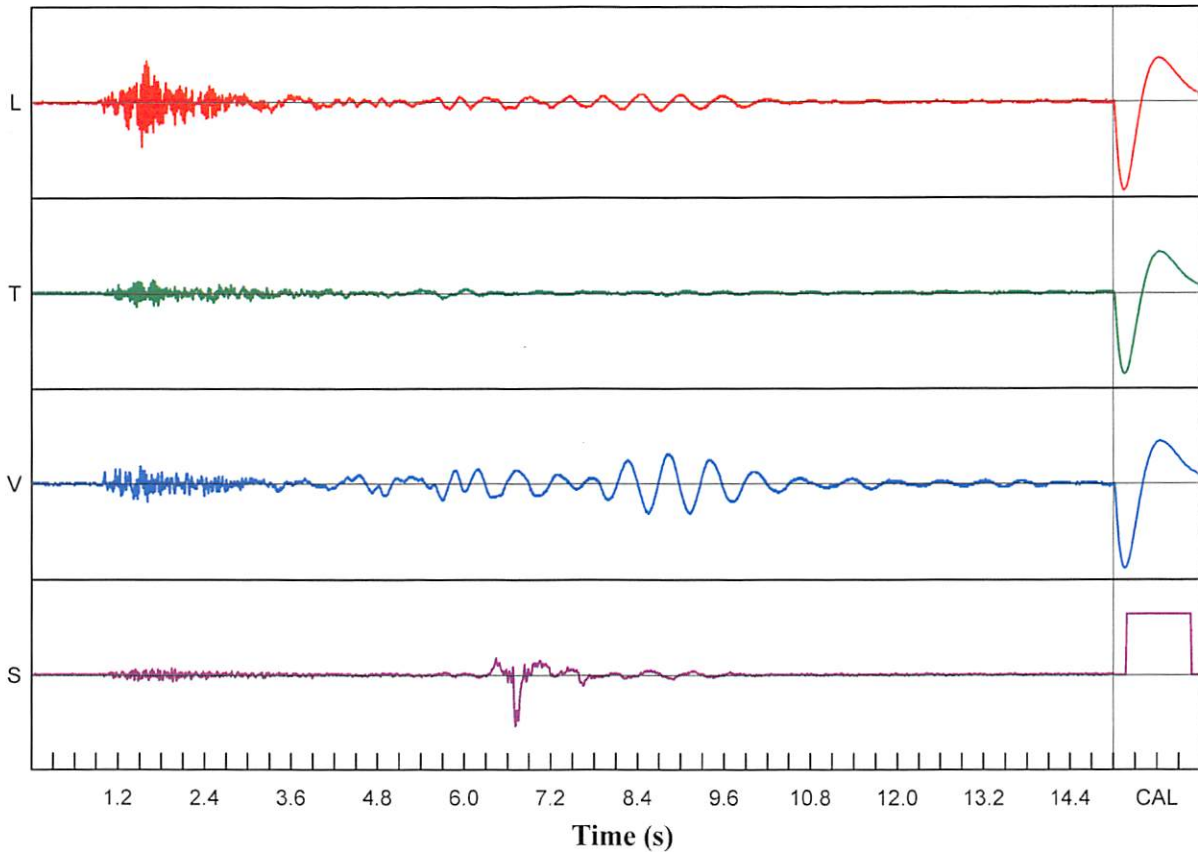
	Long	Tran	Vert		
Serial Number	8913 v5.29	PPV (in/s)	0.075	0.023	0.050
Event Date	June 19, 2020 11:30:19	PD (.001")	1.24	0.63	4.58
Event Number	5	PPA (g)	0.039	0.013	0.020
Recording Time	15.0 s	FREQ (Hz)	33.3	41.7	1.7
Seismic Trigger Level	0.030 in/s				
Sound Trigger Level	0 db	Peak Vector Sum	0.078 in/s		
Sample Rate	1000 samples/second				

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	112 db
Location:	White Rock Quarries		0.00125 psi
User:	Roy A		
Seis Location:	17040 SW 53 Ct		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 13, 2020 By GeoSonics Inc.
	Battery Level	8.5

Velocity Waveform

SN: 8913 Event: 5



Velocity Waveform Graph Scale
 Time Scale: 0.300 s
 Seismic Scale: +/- 0.160 in/s
 Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

	Long	Tran	Vert		
Serial Number	8913 v5.29	PPV (in/s)	0.058	0.023	0.070
Event Date	June 22, 2020 14:45:59	PD (.001")	1.99	1.02	6.59
Event Number	6	PPA (g)	0.033	0.020	0.026
Recording Time	15.0 s	FREQ (Hz)	41.7	33.3	1.7
Seismic Trigger Level	0.030 in/s				
Sound Trigger Level	0 db	Peak Vector Sum	0.070 in/s		
Sample Rate	1000 samples/second				

Notes

Client: City of Miramar
 Location: White Rock Quarries
 User: Roy A
 Seis Location: 17040 SW 53 Ct
 Distance:
 Comment: In Ground

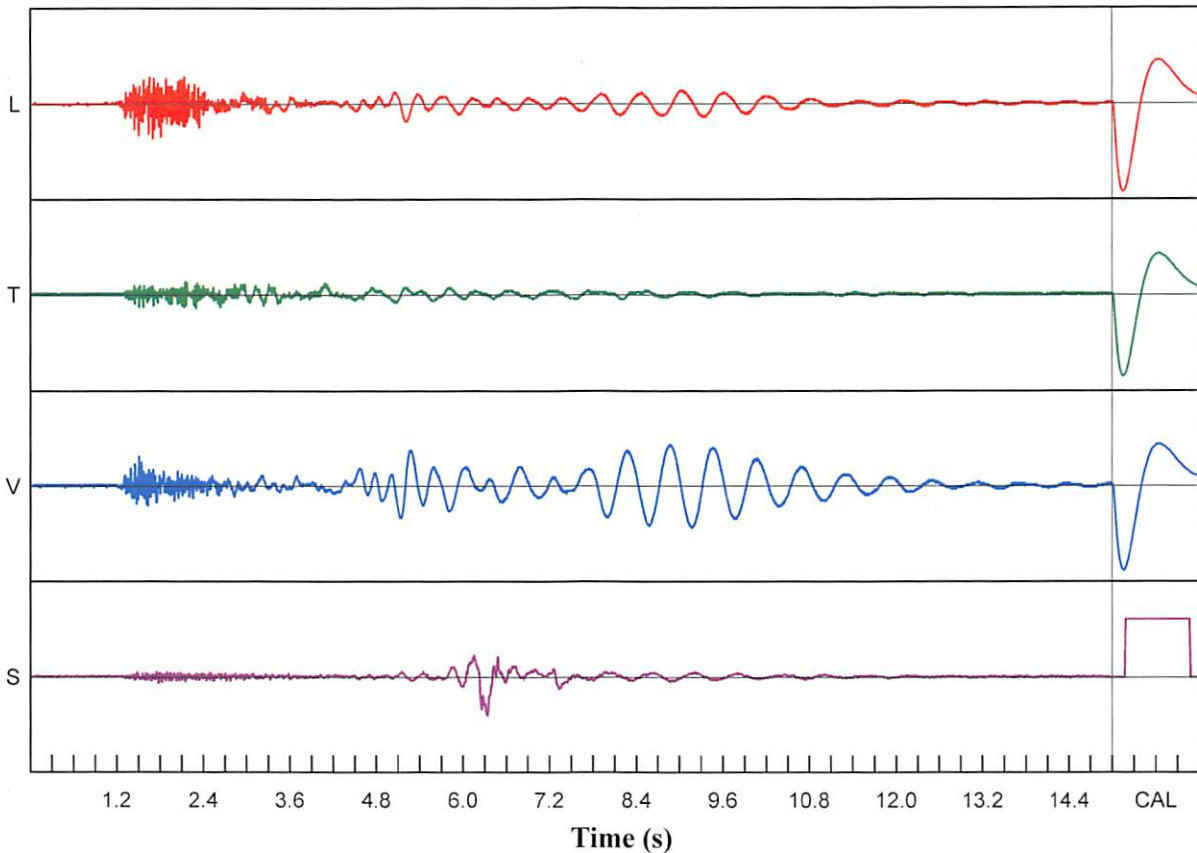
Microphone N/A
PSPL 110 db
 0.00093 psi

Additional Notes

Dynamic Geo Cal
Calibration April 13, 2020 By GeoSonics Inc.
Battery Level 8.3

Velocity Waveform

SN: 8913 Event: 6



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

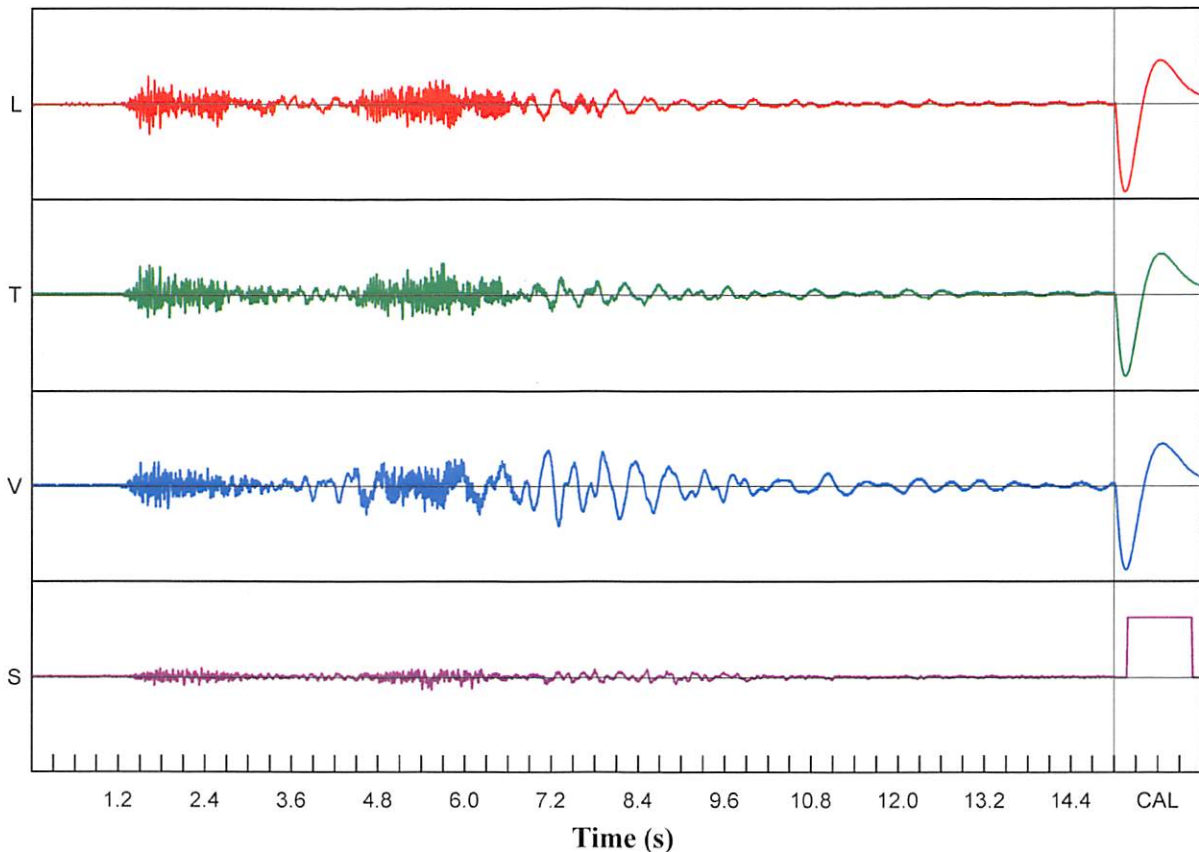
	Long	Tran	Vert		
Serial Number	8913 v5.29	PPV (in/s)	0.050	0.053	0.068
Event Date	June 23, 2020 11:46:04	PD (.001")	1.53	1.30	3.91
Event Number	7	PPA (g)	0.026	0.026	0.033
Recording Time	15.0 s	FREQ (Hz)	27.8	23.8	3.6
Seismic Trigger Level	0.030 in/s				
Sound Trigger Level	0 db	Peak Vector Sum	0.075 in/s		
Sample Rate	1000 samples/second				

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	100 db
Location:	White Rock Quarries		0.00030 psi
User:	Roy A		
Seis Location:	17040 SW 53 Ct		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 13, 2020 By GeoSonics Inc.
	Battery Level	8.5

Velocity Waveform

SN: 8913 Event: 7



Velocity Waveform Graph Scale
 Time Scale: 0.300 s
 Seismic Scale: +/- 0.160 in/s
 Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

Serial Number	8913 v5.29	Tran	0.045	0.020	0.063
Event Date	June 24, 2020 11:30:45	PPV (in/s)	1.84	0.88	4.98
Event Number	8	PPA (g)	0.026	0.013	0.020
Recording Time	15.0 s	FREQ (Hz)	33.3	23.8	2.1
Seismic Trigger Level	0.030 in/s				
Sound Trigger Level	0 db	Peak Vector Sum	0.065 in/s		
Sample Rate	1000 samples/second				

Notes
 Client: City of Miramar
 Location: White Rock Quarries
 User: Roy A
 Seis Location: 17040 SW 53 Ct
 Distance:
 Comment: In Ground

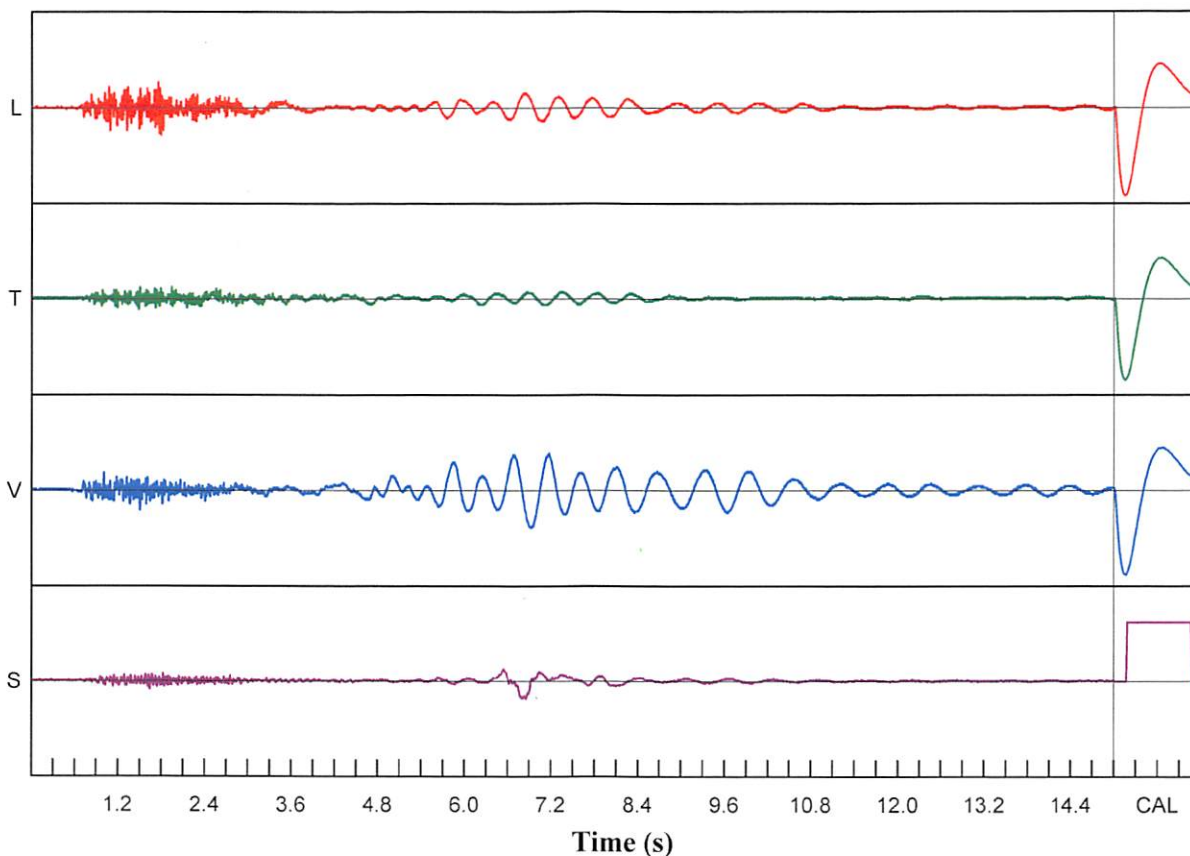
Microphone N/A
PSPL 102 db
 0.00043 psi

Additional Notes

Dynamic Geo Cal
Calibration April 13, 2020 By GeoSonics Inc.
Battery Level 8.4

Velocity Waveform

SN: 8913 Event: 8



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

Serial Number	Long	Tran	Vert		
8913 v5.29	8913 v5.29	PPV (in/s)	0.015	0.015	0.040
Event Date	June 25, 2020 11:16:14	PD (.001")	0.98	0.55	3.30
Event Number	9	PPA (g)	0.007	0.007	0.007
Recording Time	15.0 s	FREQ (Hz)	3.1	8.8	2.9
Seismic Trigger Level	0.030 in/s				
Sound Trigger Level	0 db	Peak Vector Sum	0.040 in/s		
Sample Rate	1000 samples/second				

Notes
 Client: City of Miramar
 Location: White Rock Quarries
 User: Roy A
 Seis Location: 17040 SW 53 Ct
 Distance:
 Comment: In Ground

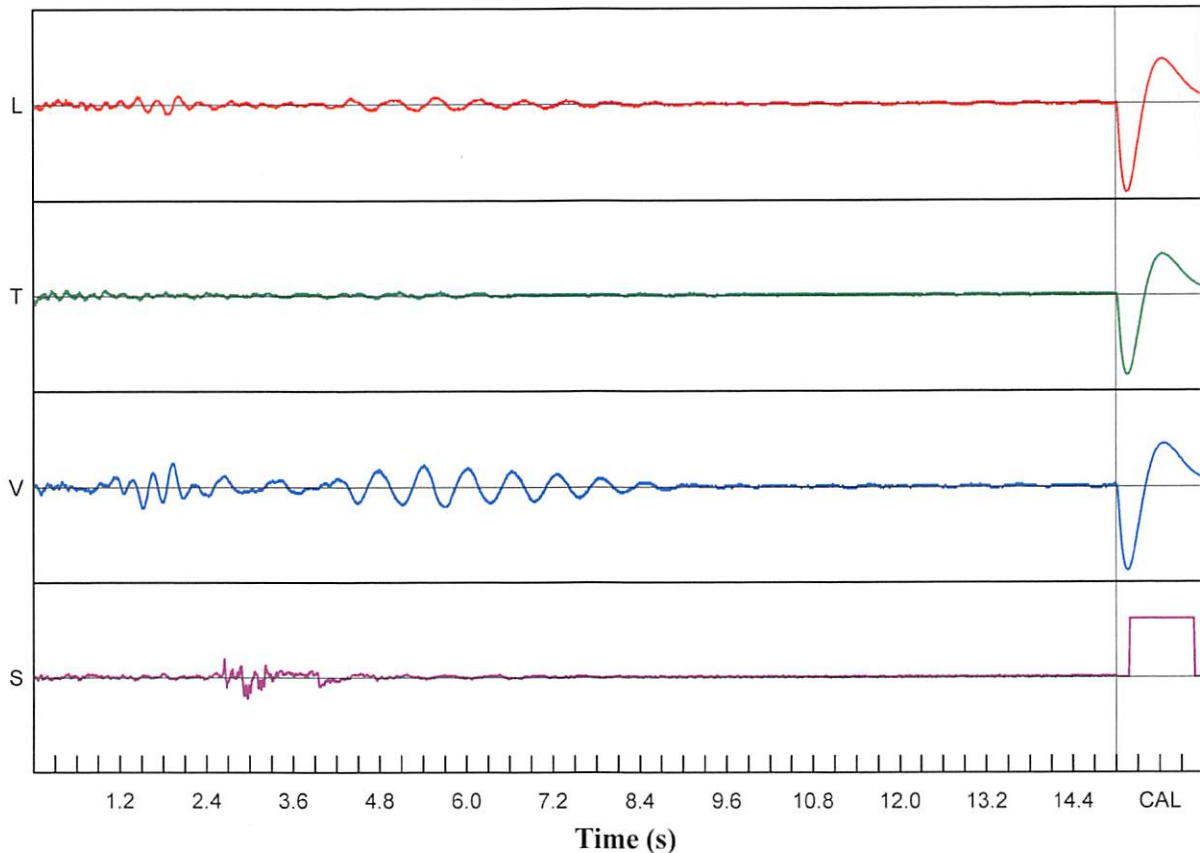
Microphone N/A
PSPL 104 db
 0.00052 psi

Additional Notes

Dynamic Geo Cal
 Calibration April 13, 2020 By GeoSonics Inc.
 Battery Level 8.4

Velocity Waveform

SN: 8913 Event: 9



Velocity Waveform Graph Scale

Time Scale: 0.300 s
 Seismic Scale: +/- 0.160 in/s
 Sound Scale: +/- 0.0023 PSI

Seismic Analysis

Velocity Waveform Report

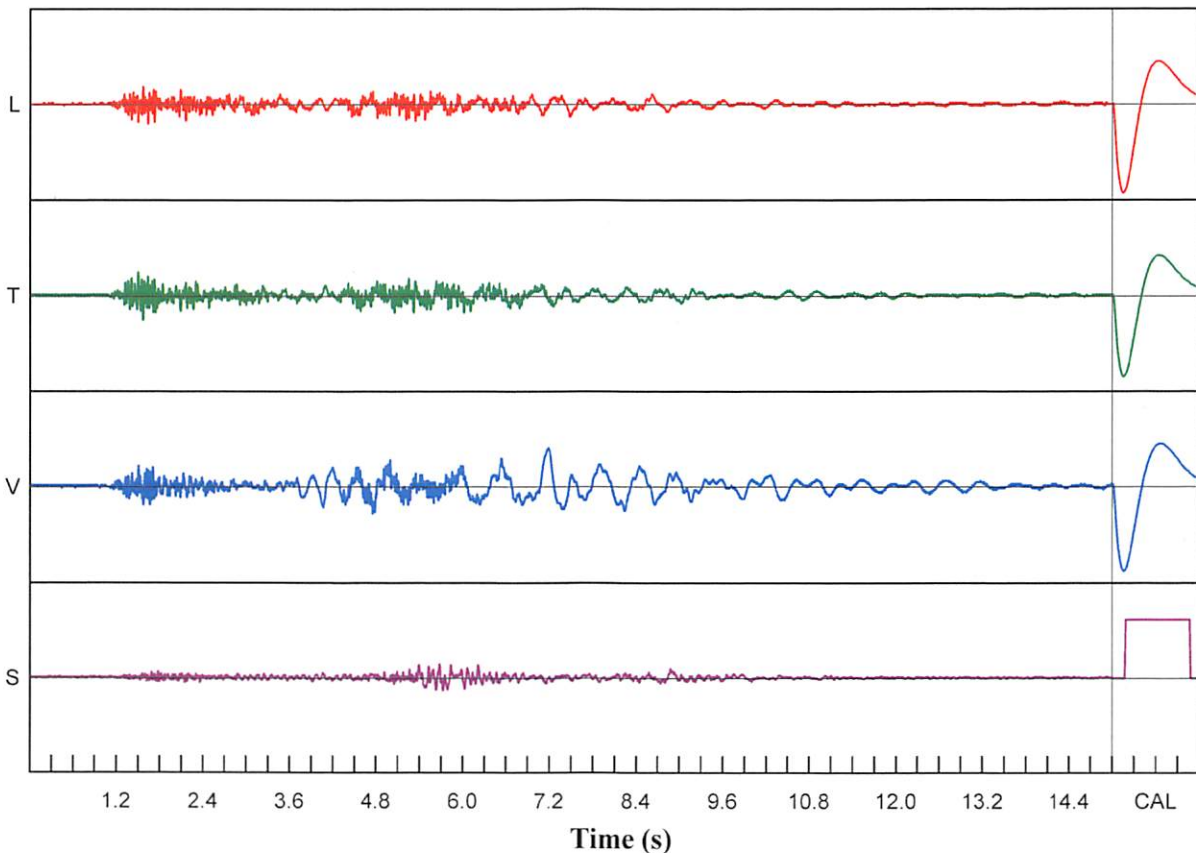
	Long	Tran	Vert		
Serial Number	8913 v5.29	PPV (in/s)	0.033	0.040	0.065
Event Date	June 29, 2020 13:30:49	PD (.001")	1.18	1.16	3.80
Event Number	10	PPA (g)	0.013	0.020	0.020
Recording Time	15.0 s	FREQ (Hz)	23.8	16.7	2.5
Seismic Trigger Level	0.030 in/s				
Sound Trigger Level	0 db	Peak Vector Sum	0.065 in/s		
Sample Rate	1000 samples/second				

Notes		Microphone	N/A
Client:	City of Miramar	PSPL	101 db
Location:	White Rock Quarries		0.00034 psi
User:	Roy A		
Seis Location:	17040 SW 53 Ct		
Distance:			
Comment:	In Ground		

Additional Notes	Dynamic Geo Cal	
	Calibration	April 13, 2020 By GeoSonic Inc.
	Battery Level	8.4

Velocity Waveform

SN: 8913 Event: 10



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

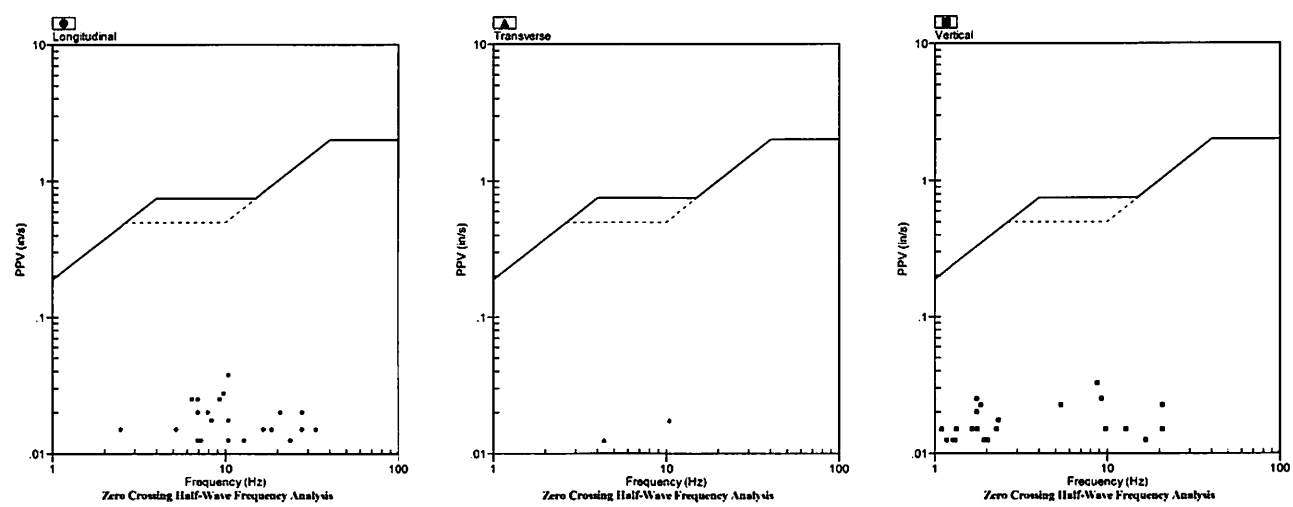
Serial No: 5148 v3.67
Date: 07/27/2020 11:16:39
Event No: 2
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.038	0.018	0.035
FREQ (Hz)	10.4	10.4	9.8
PD (.001")	0.89	0.96	2.13
PPA (g)	0.013	0.007	0.007
Peak Vector Sum:	0.045 in/s		
Peak Air Pressure:	90 db		
	0.00021 PSI @ 3.1 Hz		

Additional Info:

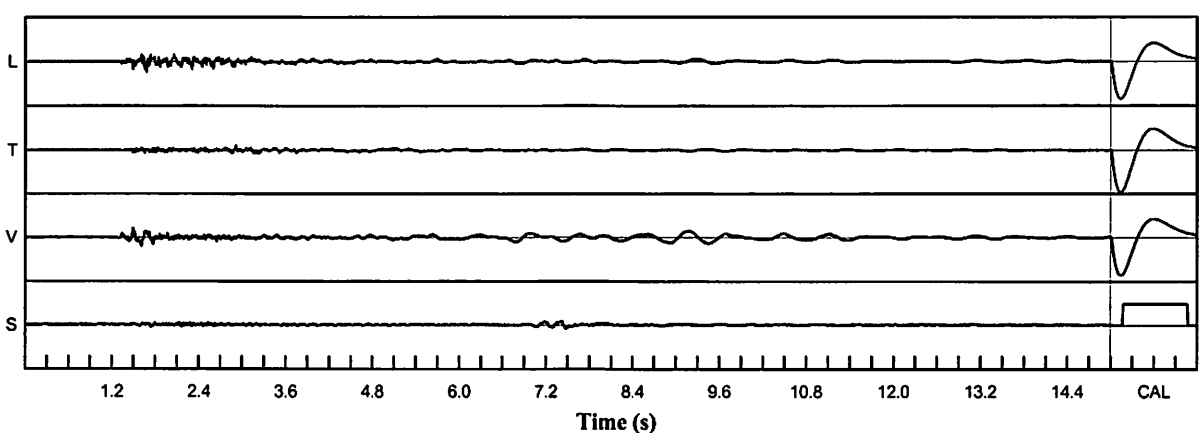
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 2



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 07/28/2020 11:46:31
Event No: 3
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

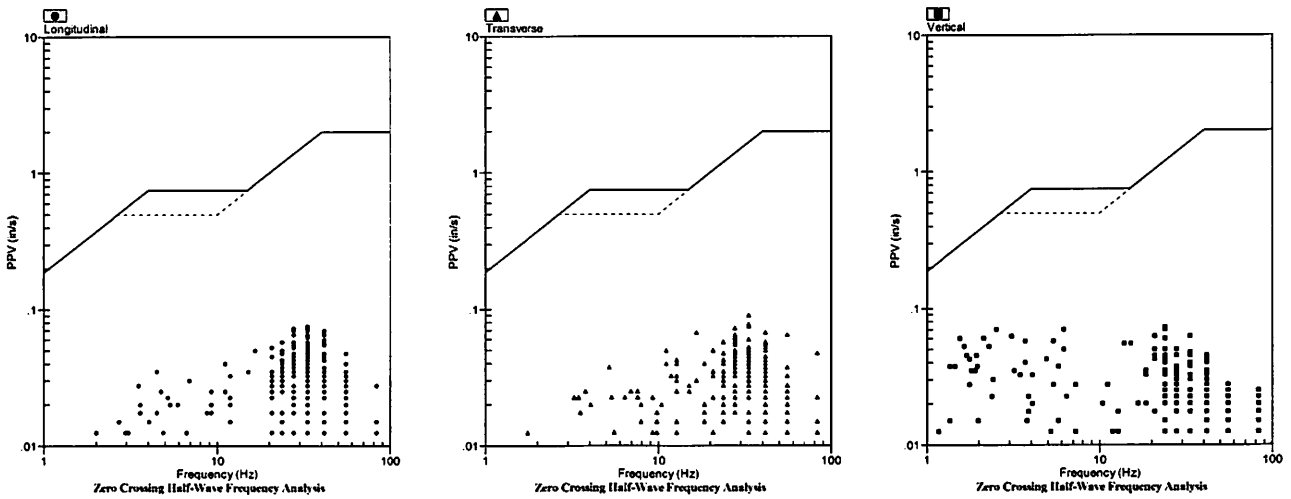
Summary Data

	L	T	V
PPV (in/s)	0.075	0.090	0.073
FREQ (Hz)	33.3	33.3	23.8
PD (.001")	1.29	1.38	4.33
PPA (g)	0.052	0.052	0.039
Peak Vector Sum:	0.105 in/s		
Peak Air Pressure:	104 db		
	0.00053 PSI @ 5.1 Hz		

Additional Info:

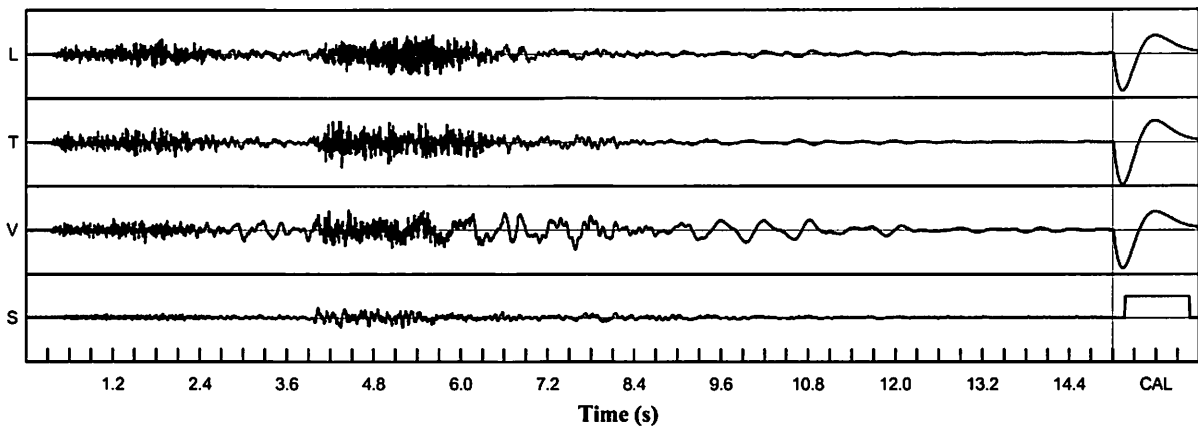
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 3



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 08/03/2020 11:46:33
Event No: 5
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

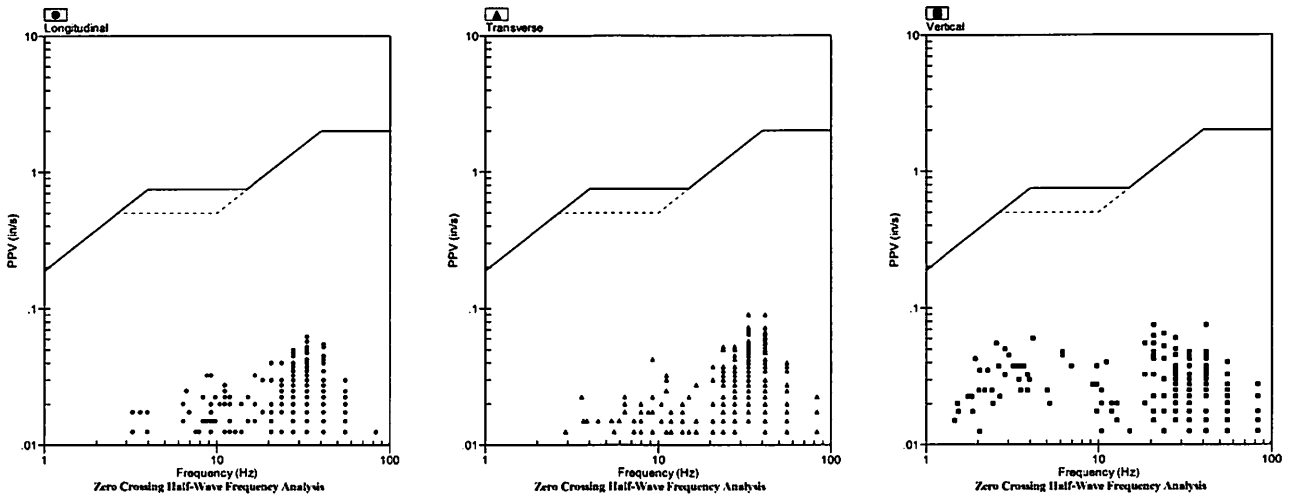
Summary Data

	L	T	V
PPV (in/s)	0.063	0.090	0.075
FREQ (Hz)	33.3	33.3	20.8
PD (.001")	0.92	1.06	2.71
PPA (g)	0.039	0.052	0.039
Peak Vector Sum:	0.113 in/s		
Peak Air Pressure:	106 db		
	0.00057 PSI @ 5.7 Hz		

Additional Info:

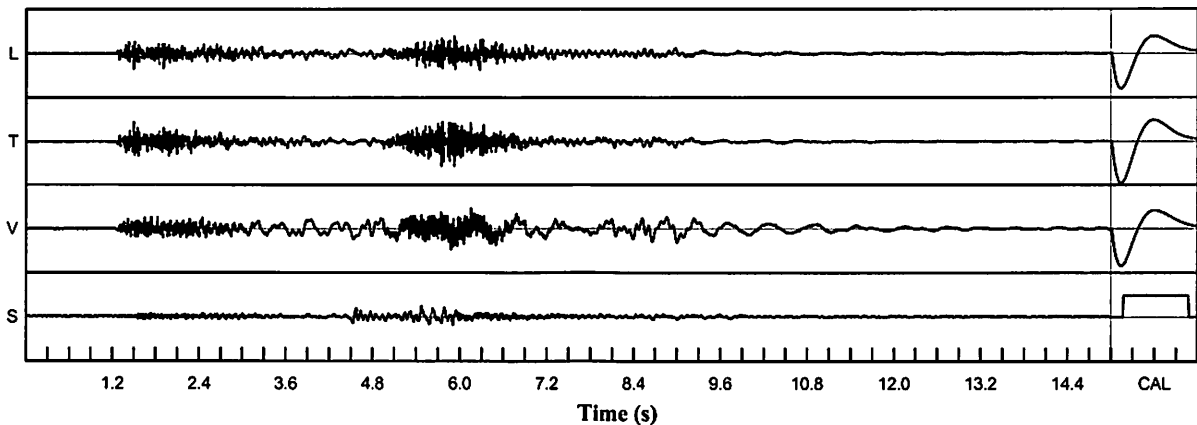
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 5



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

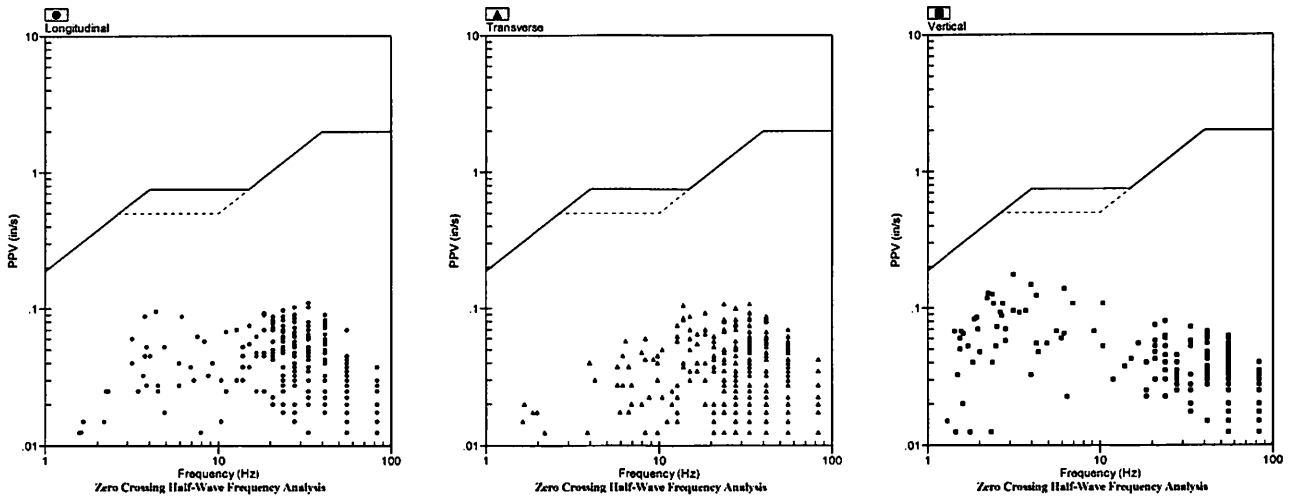
Serial No: 5148 v3.67
Date: 08/05/2020 11:31:48
Event No: 6
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.110	0.108	0.175
FREQ (Hz)	33.3	33.3	3.1
PD (.001")	2.73	2.18	8.14
PPA (g)	0.065	0.065	0.059
Peak Vector Sum:	0.193 in/s		
Peak Air Pressure:	106 db		
	0.00061 PSI @ 9.8 Hz		

Additional Info:

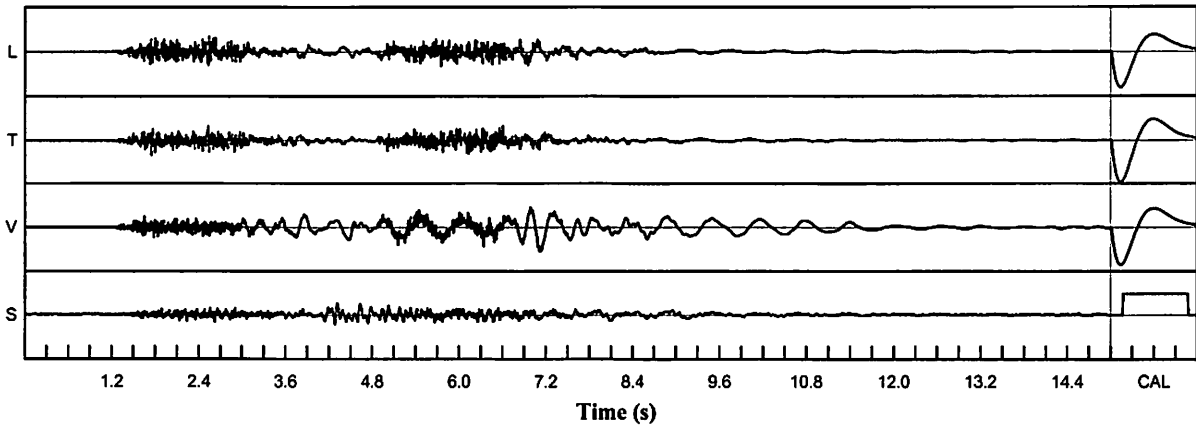
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 6



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.320 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 08/06/2020 13:17:26
Event No: 7
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

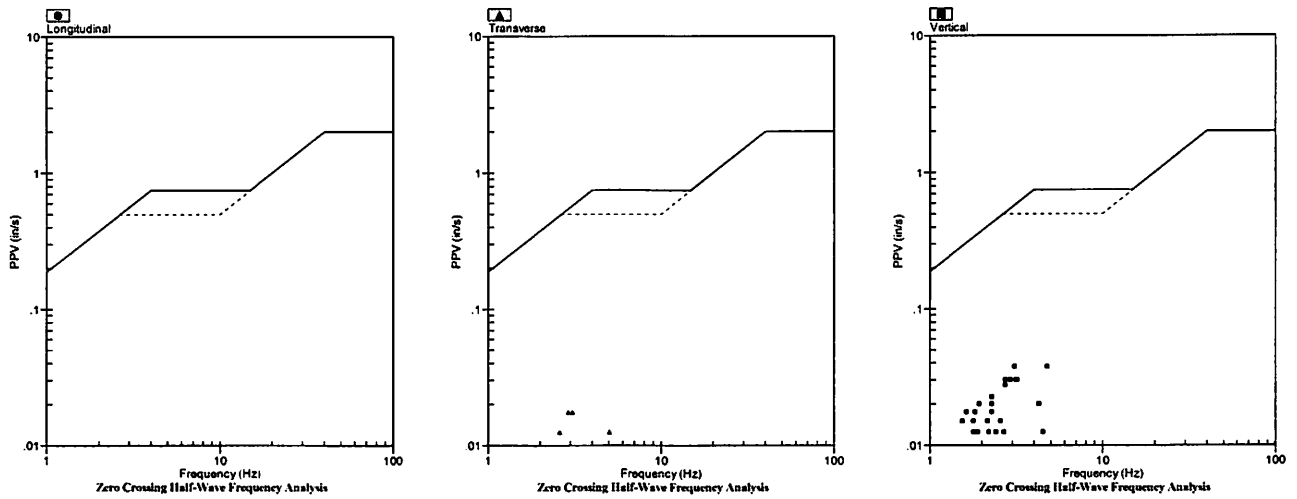
Summary Data

	L	T	V
PPV (in/s)	0.010	0.018	0.038
FREQ (Hz)	2.6	3.1	3.1
PD (.001")	1.12	1.20	1.95
PPA (g)	0.007	0.007	0.007
Peak Vector Sum:	0.040 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 4.8 Hz		

Additional Info:

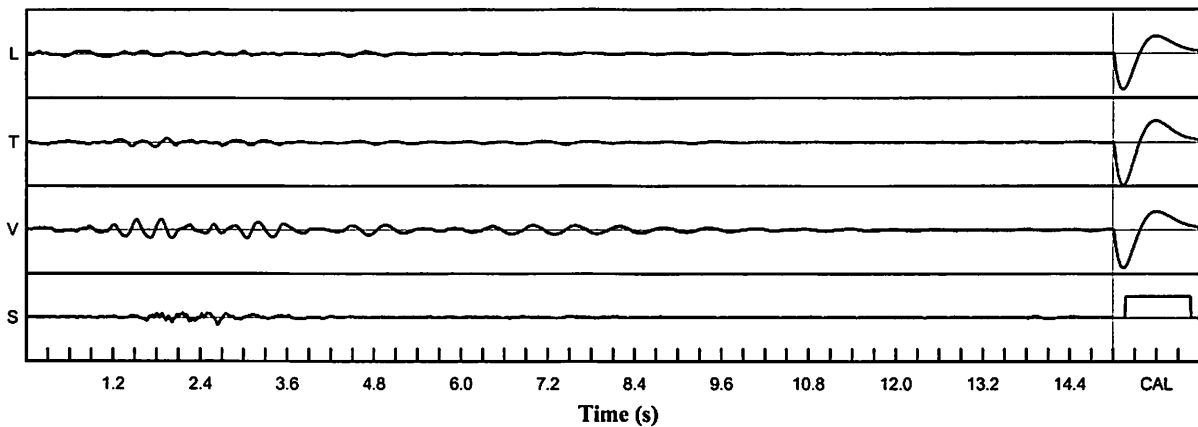
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 7



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 08/07/2020 11:31:52
Event No: 8
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

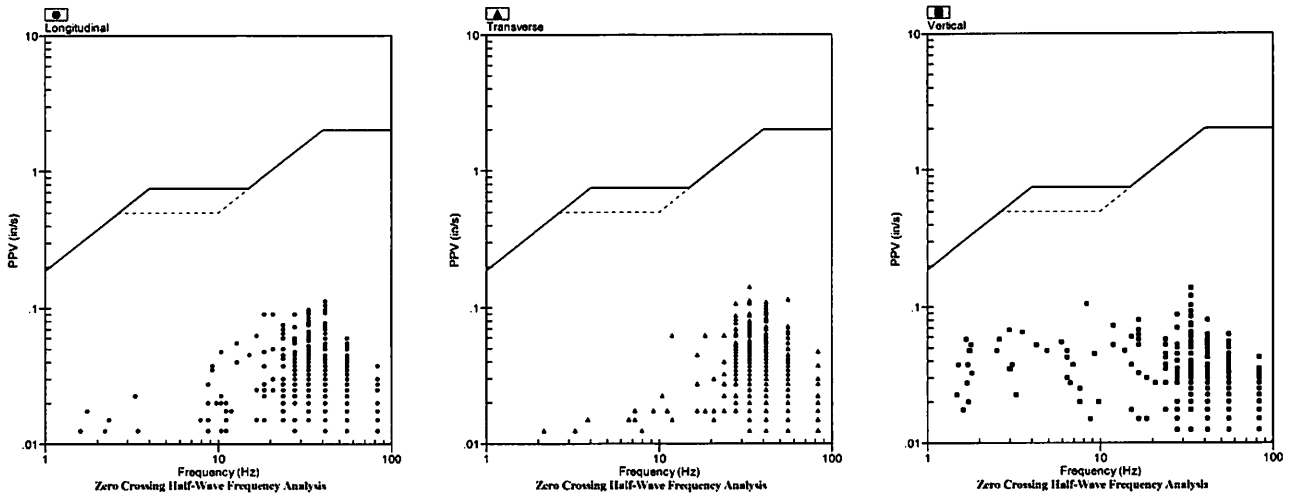
Summary Data

	L	T	V
PPV (in/s)	0.113	0.143	0.138
FREQ (Hz)	41.7	33.3	33.3
PD (.001")	1.30	1.19	4.73
PPA (g)	0.072	0.072	0.072
Peak Vector Sum:	0.193 in/s		
Peak Air Pressure:	106 db		
	0.00057 PSI @ 13.9 Hz		

Additional Info:

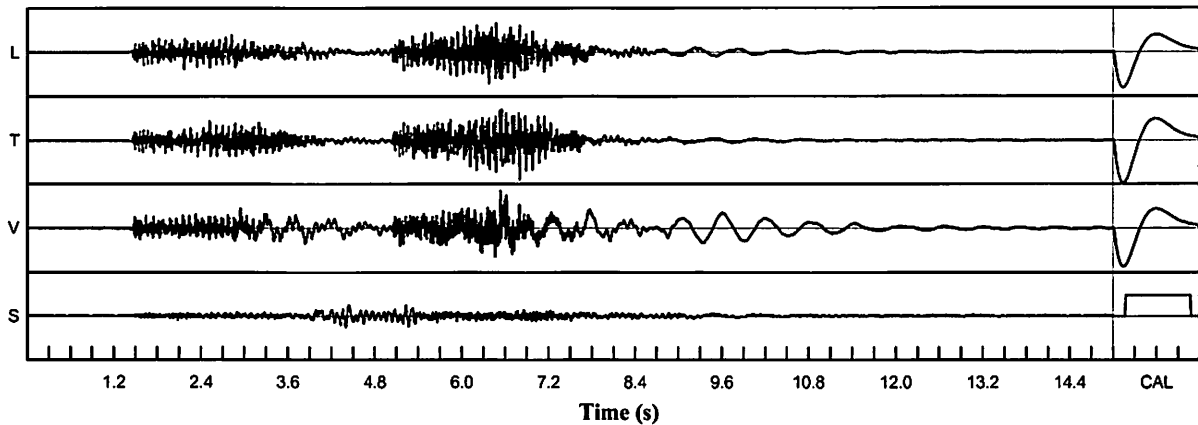
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 8



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

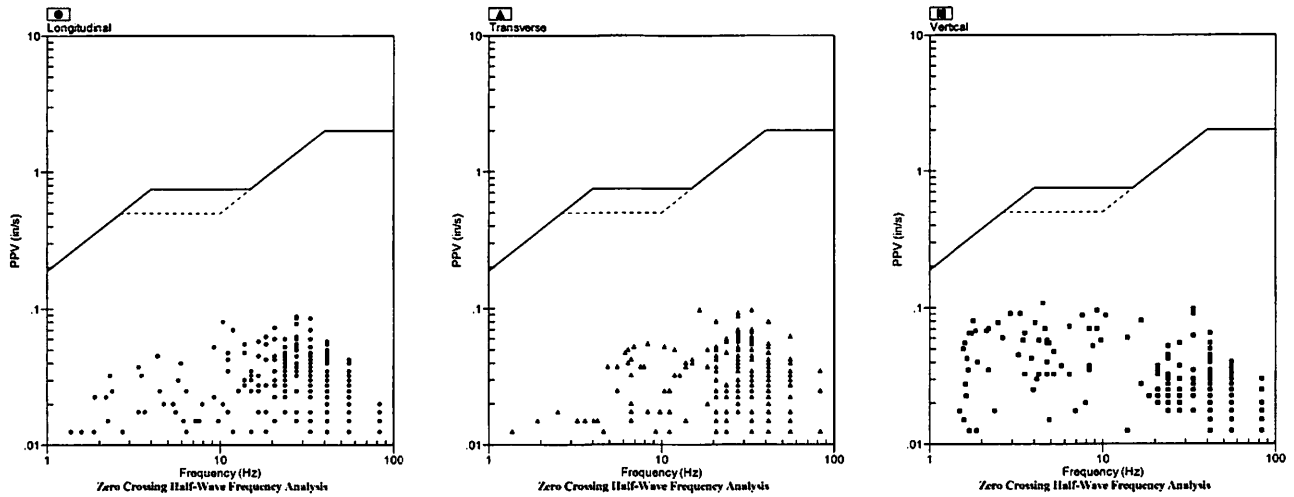
Serial No: 5148 v3.67
Date: 08/11/2020 13:17:05
Event No: 9
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.088	0.098	0.108
FREQ (Hz)	27.8	33.3	4.5
PD (.001")	1.83	1.69	6.36
PPA (g)	0.052	0.052	0.046
Peak Vector Sum:	0.130 in/s		
Peak Air Pressure:	107 db		
	0.00075 PSI @ 8.8 Hz		

Additional Info:

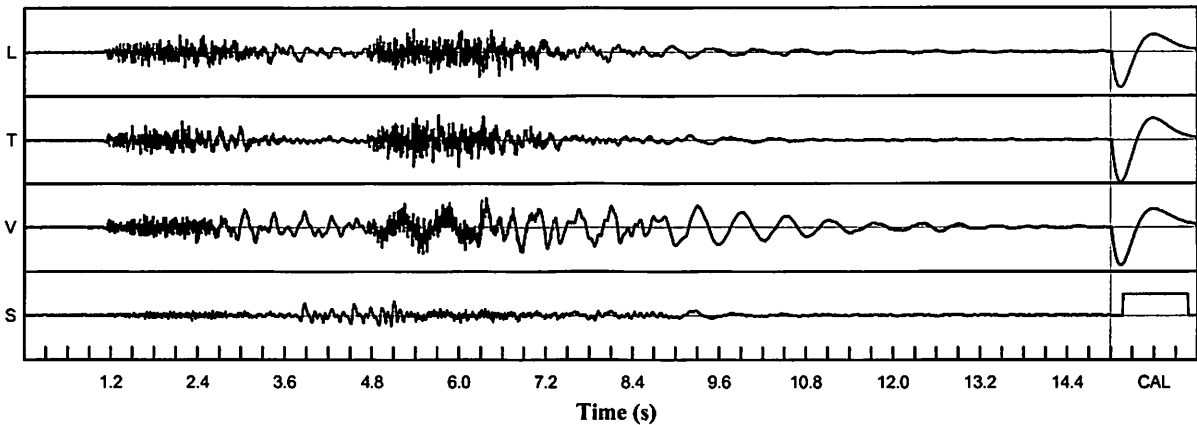
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 9



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

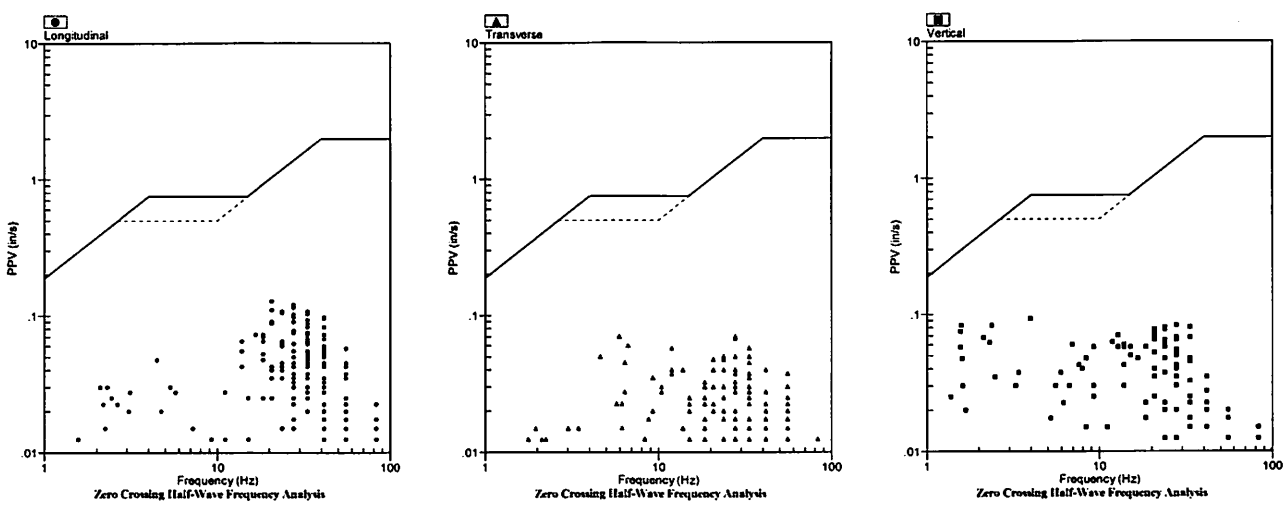
Serial No: 5148 v3.67
Date: 08/14/2020 11:32:20
Event No: 10
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.128	0.070	0.093
FREQ (Hz)	20.8	27.8	4.0
PD (.001")	1.89	1.60	5.88
PPA (g)	0.065	0.033	0.039
Peak Vector Sum:	0.133 in/s		
Peak Air Pressure:	108 db		
	0.00082 PSI @ 7.9 Hz		

Additional Info:

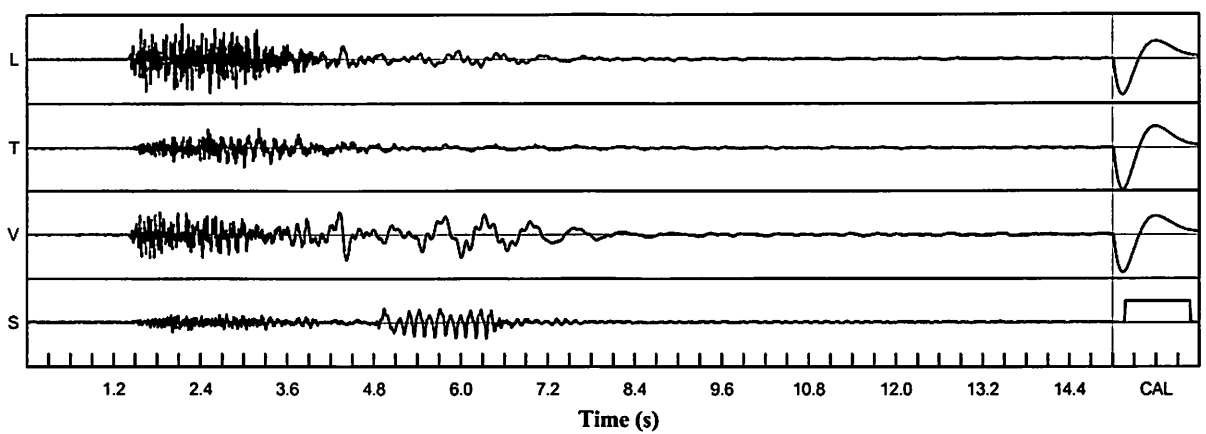
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 10



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

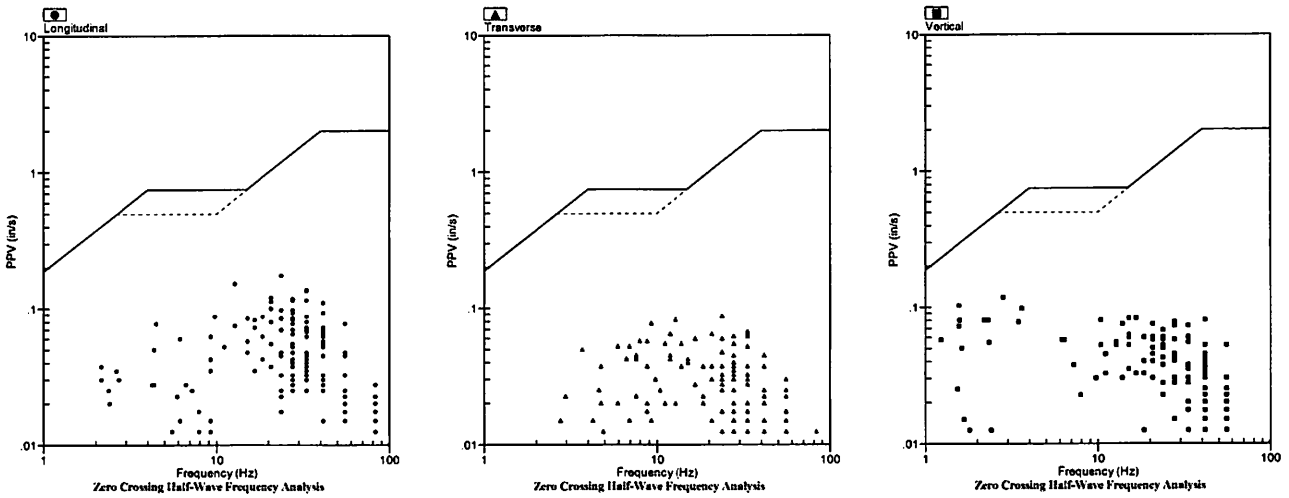
Serial No: 5148 v3.67
Date: 08/18/2020 11:47:17
Event No: 11
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.175	0.088	0.118
FREQ (Hz)	23.8	23.8	2.8
PD (.001")	2.37	2.32	6.57
PPA (g)	0.078	0.039	0.052
Peak Vector Sum:	0.185 in/s		
Peak Air Pressure:	109 db		
	0.00100 PSI @ 7.9 Hz		

Additional Info:

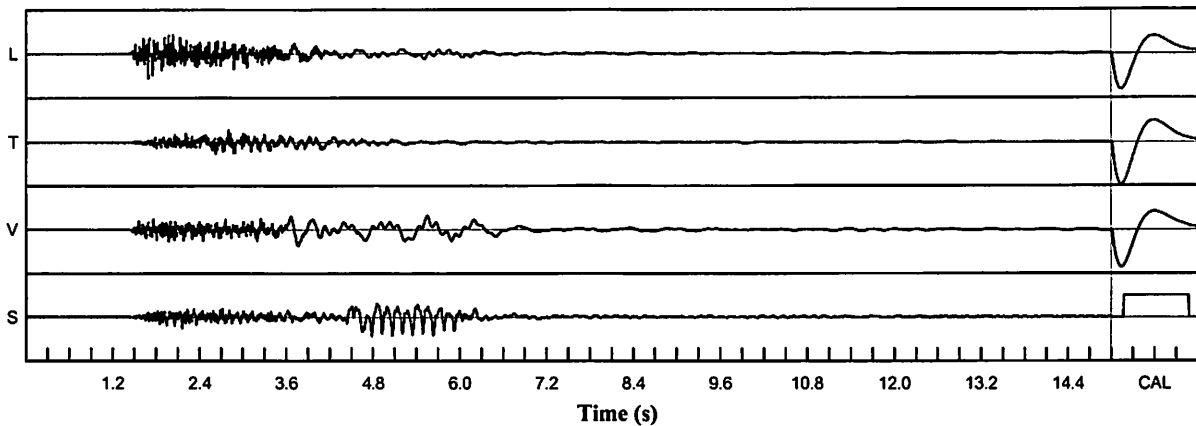
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 11



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.320 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

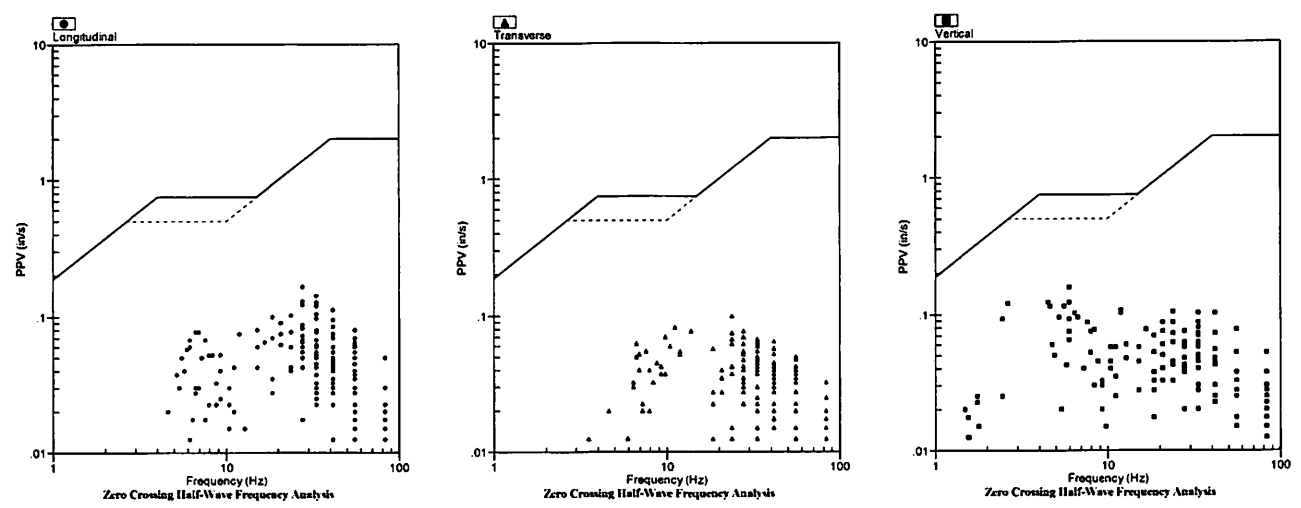
Serial No: 5148 v3.67
Date: 08/20/2020 11:49:51
Event No: 12
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

	L	T	V
PPV (in/s)	0.165	0.100	0.158
FREQ (Hz)	27.8	23.8	6.0
PD (.001")	2.29	1.74	6.15
PPA (g)	0.098	0.052	0.065
Peak Vector Sum:	0.173 in/s		
Peak Air Pressure:	111 db		
	0.00114 PSI @ 7.9 Hz		

Additional Info:

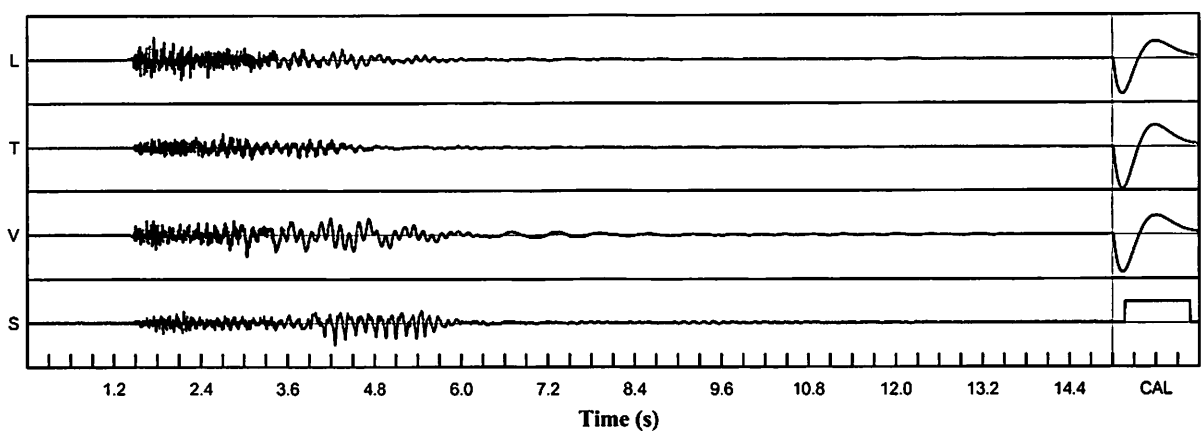
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 12



Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.320 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 08/26/2020 11:32:51
Event No: 13
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

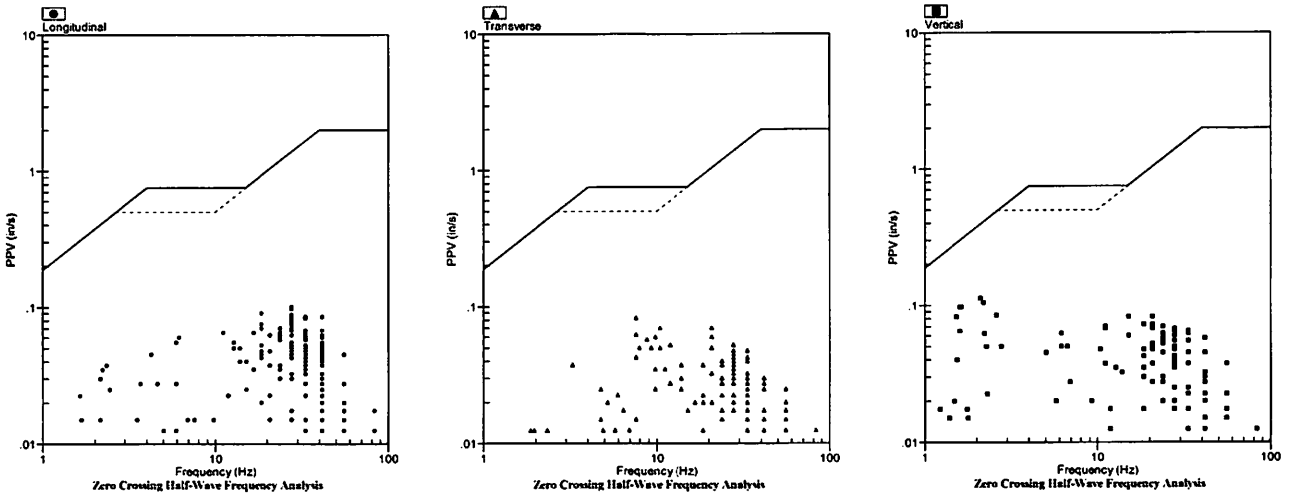
Summary Data

	L	T	V
PPV (in/s)	0.100	0.083	0.113
FREQ (Hz)	27.8	7.6	2.1
PD (.001")	2.51	1.82	8.01
PPA (g)	0.052	0.039	0.039
Peak Vector Sum:	0.120 in/s		
Peak Air Pressure:	109 db		
	0.00089 PSI @ 6.0 Hz		

Additional Info:

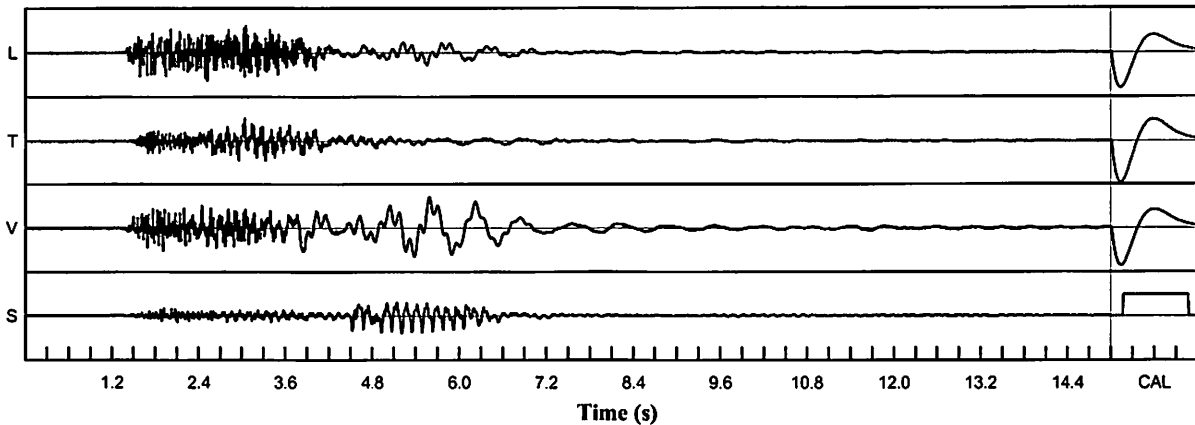
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 13



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 08/27/2020 11:33:42
Event No: 14
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 17040 SW 53 Ct
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

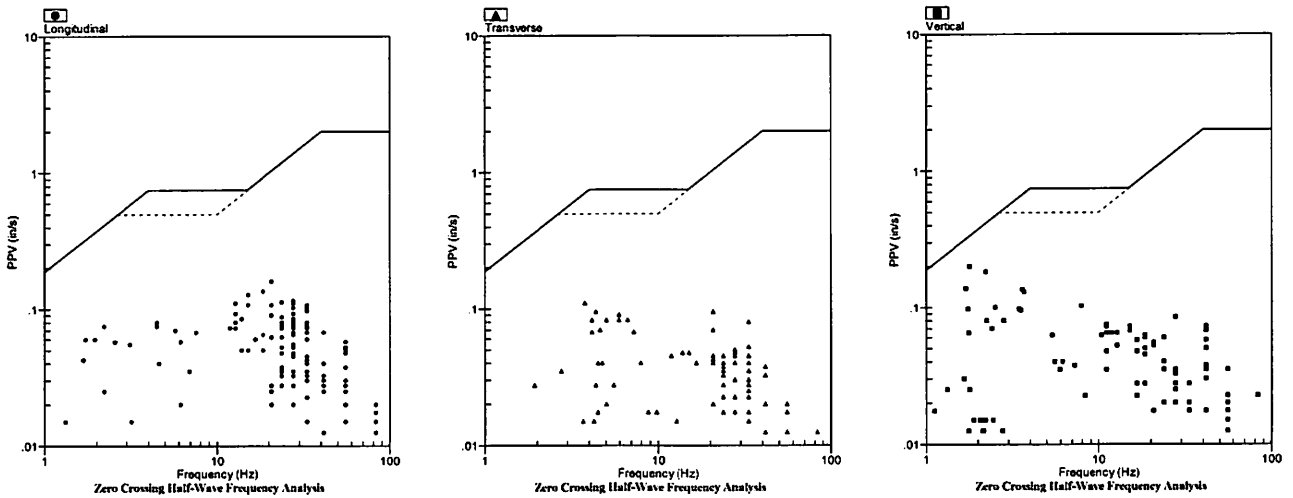
Summary Data

	L	T	V
PPV (in/s)	0.160	0.110	0.200
FREQ (Hz)	20.8	3.8	1.8
PD (.001")	4.44	4.15	13.32
PPA (g)	0.065	0.039	0.046
Peak Vector Sum:	0.203 in/s		
Peak Air Pressure:	113 db		
	0.00139 PSI @ 5.2 Hz		

Additional Info:

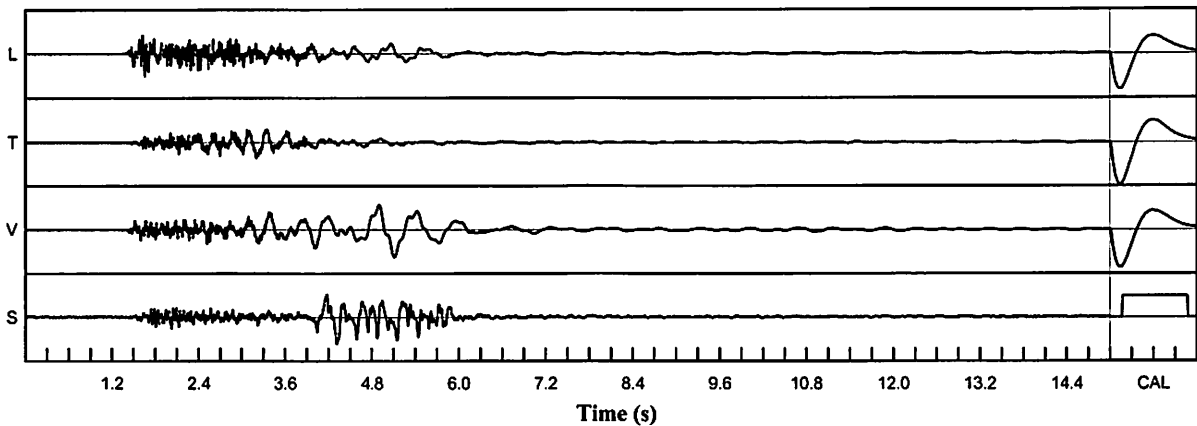
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 14



Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.320 in/s
Sound Scale: +/- 0.0023 PSI