

Location: 5276 SW 152 Ave

Date:	Time:	PPV:
9/2/2021	1:14 PM	0.053
9/3/2021	1:14 PM	0.063
9/10/2021	1:14 PM	0.053
9/13/2021	1:15 PM	0.055
9/24/2021	1:16 PM	0.098
10/4/2021	1:16 PM	0.075
10/13/2021	11:17 AM	0.06
10/14/2021	11:17 AM	0.063
10/20/2021	1:17 PM	0.115
10/22/2021	11:17 AM	0.105
10/26/2021	11:26 AM	0.05
10/28/2021	11:32 AM	0.128
11/2/2021	11:17 AM	0.098

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5148 v3.67
Date: 09/02/2021 13:13:59
Event No: 4
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

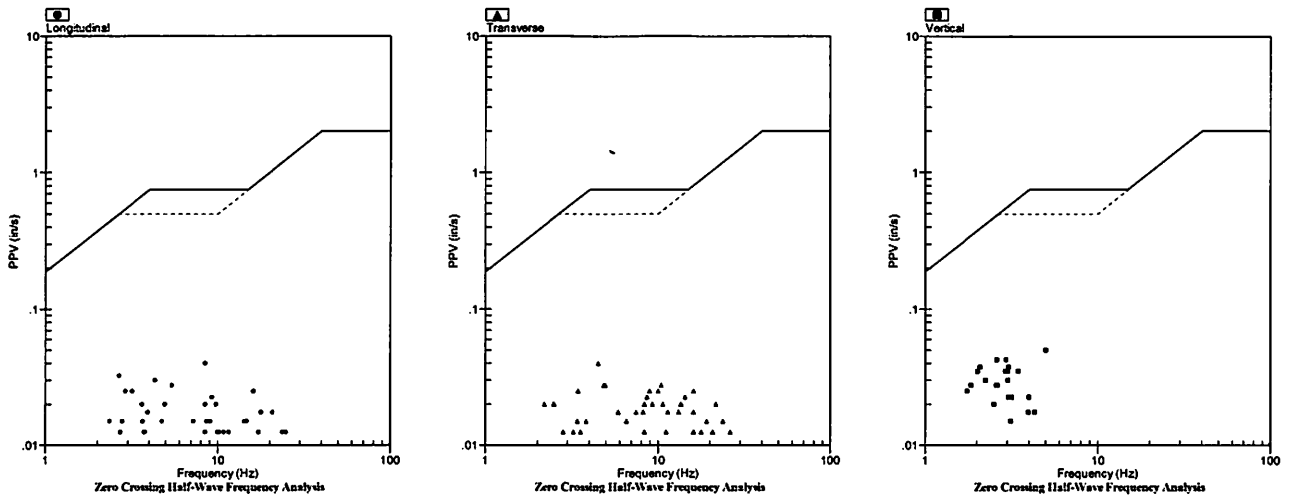
Summary Data

	L	T	V
PPV (in/s)	0.040	0.043	0.053
FREQ (Hz)	8.5	6.4	2.9
PD (.001")	1.14	1.11	3.11
PPA (g)	0.013	0.013	0.013
Peak Vector Sum:	0.058 in/s		
Peak Air Pressure:	104 db		
	0.00053 PSI @ 9.6 Hz		

Additional Info:

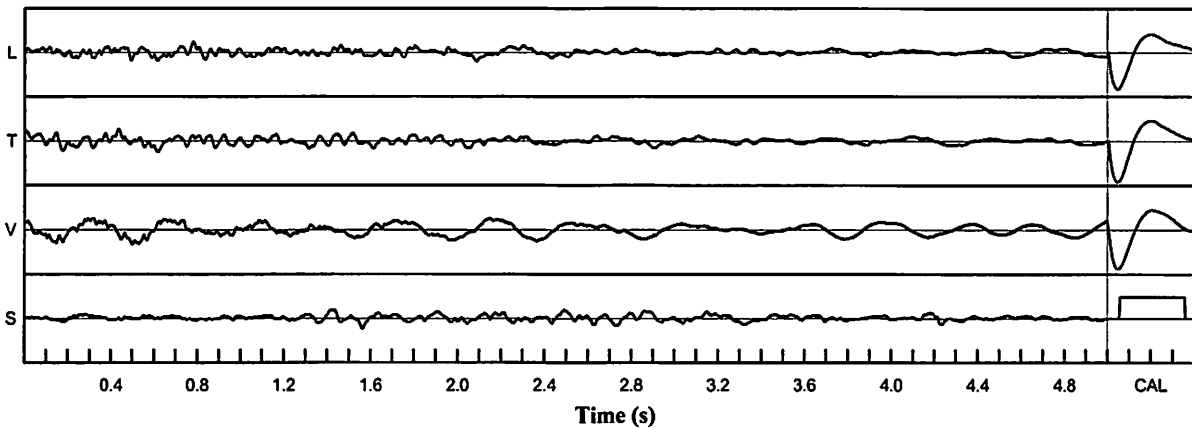
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 4



Velocity Waveform Graph Scale

Time Scale: 0.100 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: 09/03/2021 13:14:05
Event No: 5
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

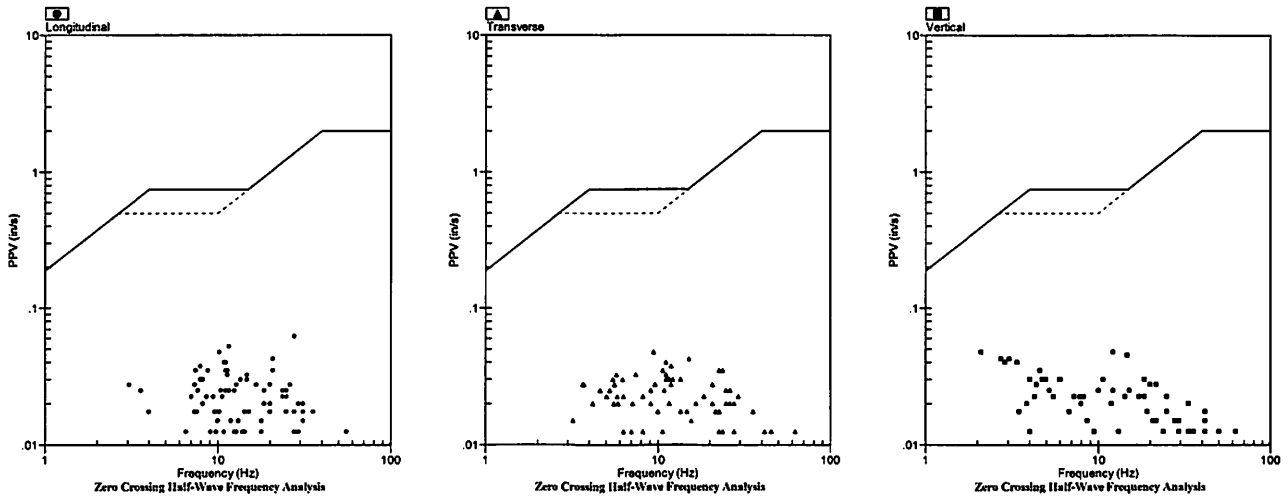
Summary Data

	L	T	V
PPV (in/s)	0.063	0.048	0.048
FREQ (Hz)	16.7	9.4	12.2
PD (.001")	1.10	1.31	2.32
PPA (g)	0.020	0.020	0.020
Peak Vector Sum:	0.073 in/s		
Peak Air Pressure:	101 db		
	0.00046 PSI @ 6.0 Hz		

Additional Info:

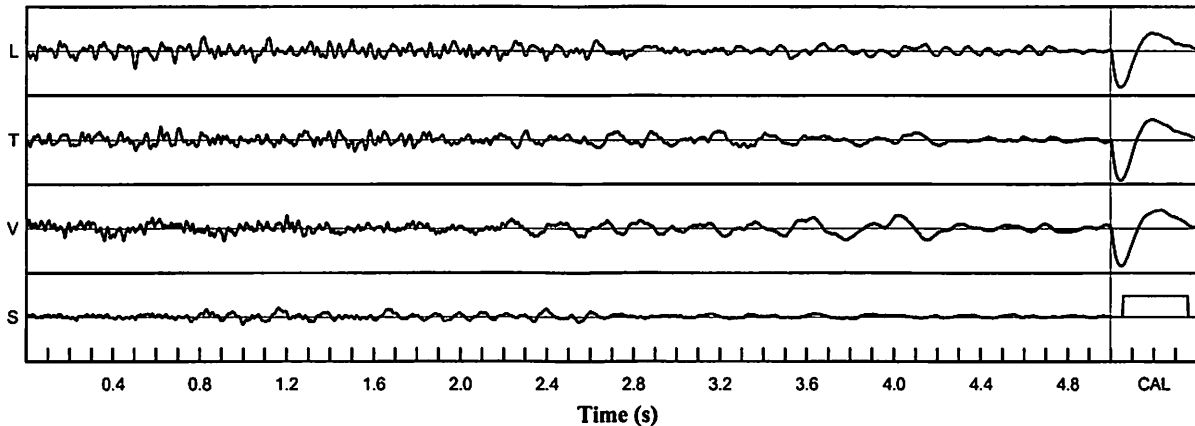
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 5



Velocity Waveform Graph Scale

Time Scale: 0.100 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: 09/10/2021 13:14:25
Event No: 6
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

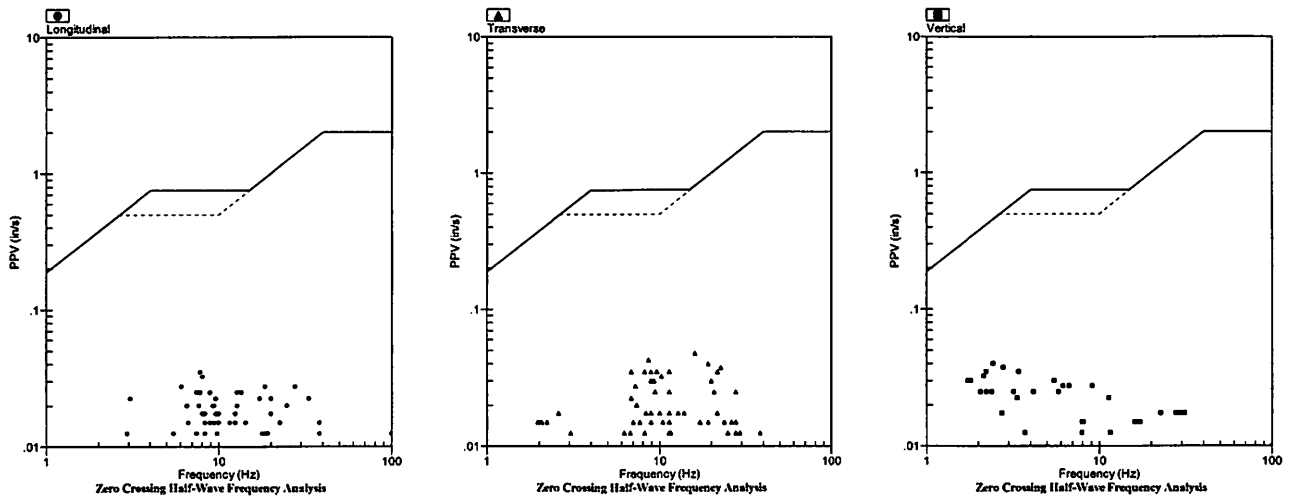
Summary Data

	L	T	V
PPV (in/s)	0.045	0.053	0.040
FREQ (Hz)	8.8	10.0	2.4
PD (.001")	1.06	1.00	2.28
PPA (g)	0.020	0.020	0.020
Peak Vector Sum:	0.058 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 6.4 Hz		

Additional Info:

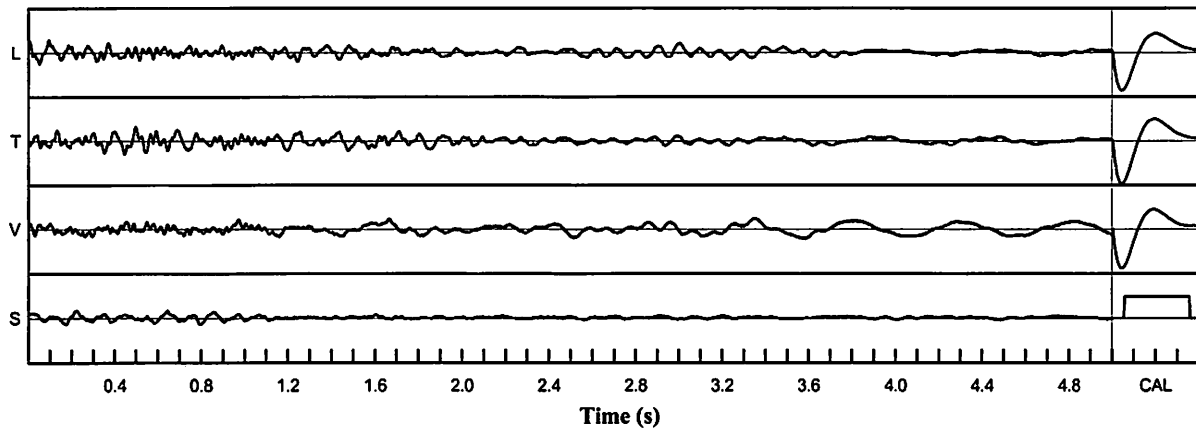
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 6



Velocity Waveform Graph Scale

Time Scale: 0.100 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: 09/13/2021 13:14:36
Event No: 7
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

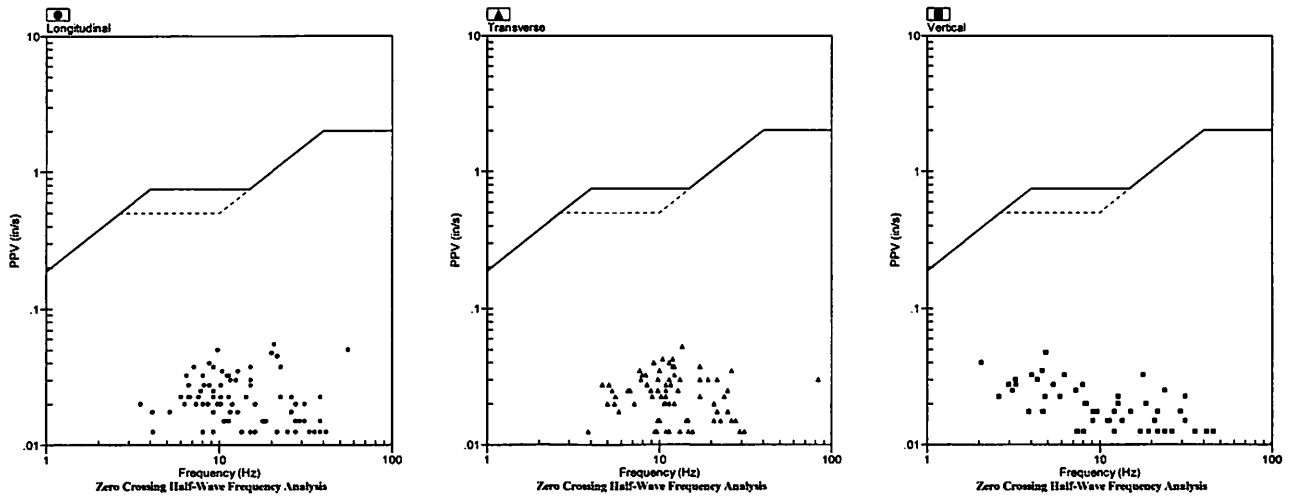
Summary Data

	L	T	V
PPV (in/s)	0.055	0.053	0.048
FREQ (Hz)	20.8	13.5	4.9
PD (.001")	1.22	1.05	1.92
PPA (g)	0.026	0.020	0.020
Peak Vector Sum:	0.073 in/s		
Peak Air Pressure:	90 db		
	0.00021 PSI @ 2.8 Hz		

Additional Info:

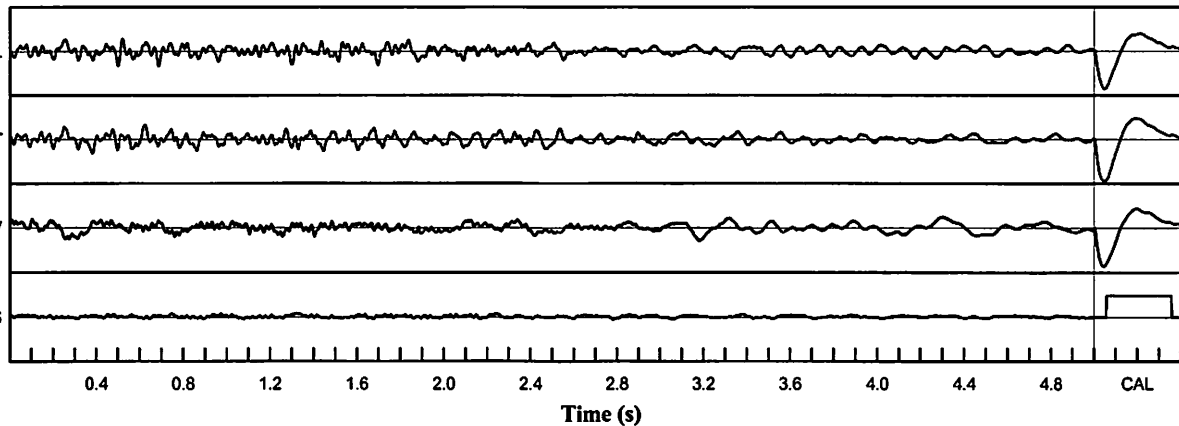
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5148 Event: 7



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

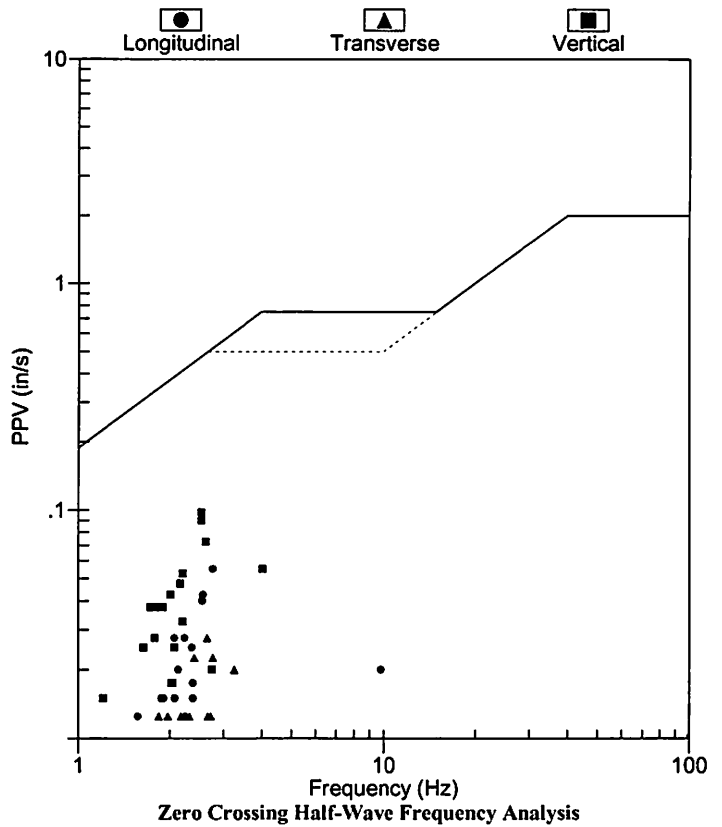
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 09/24/2021 13:16:01
Event No: 1
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5149 Event: 1



	Summary Data		
	L	T	V
PPV (in/s)	0.055	0.028	0.098
FREQ (Hz)	2.8	2.6	2.5
PD (.001")	3.09	1.48	5.80
PPA (g)	0.013	0.013	0.013
Peak Vector Sum :	0.100 in/s		
Peak Air Pressure:	102 db		
	0.00041 PSI @ 4.0 Hz		

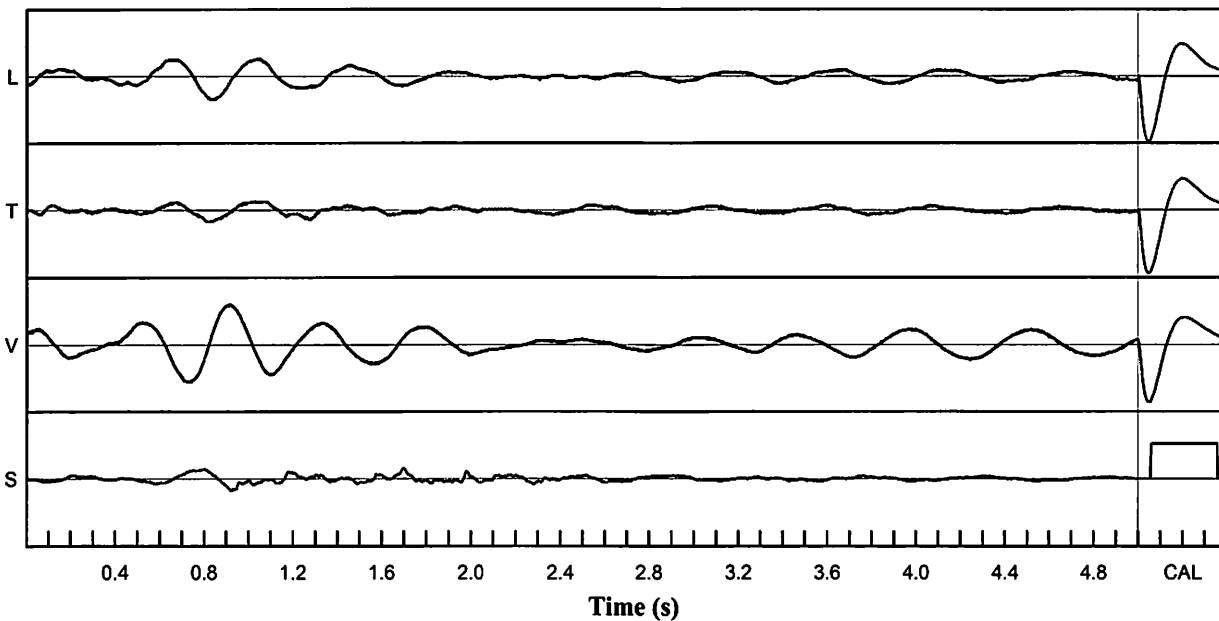
Additional Info:

Shaketable Calibrated: 03/12/2021
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: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5149 Event: 1



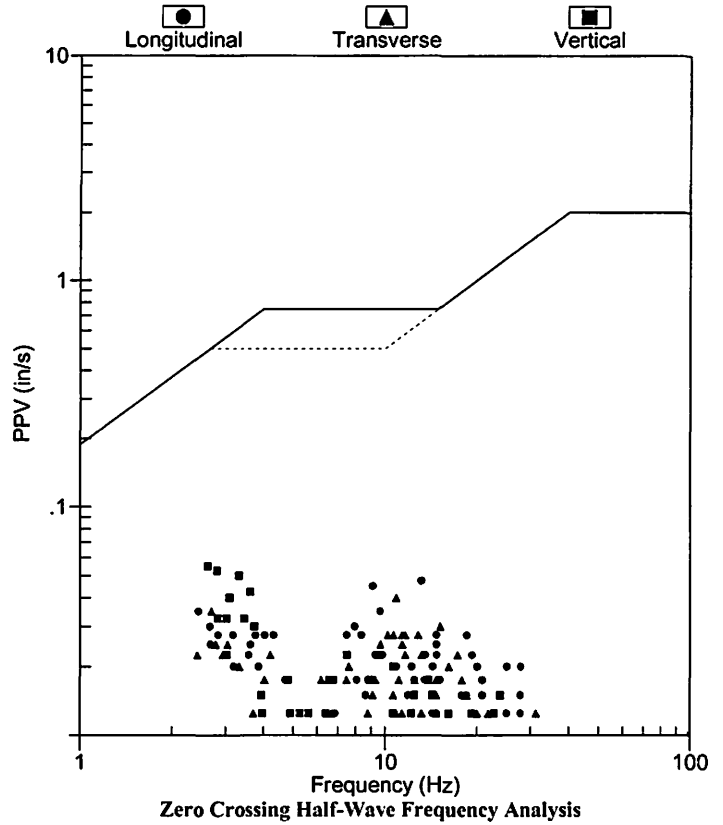
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 10/04/2021 13:16:23
Event No: 2
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5149 Event: 2



	Summary Data		
	L	T	V
PPV (in/s)	0.050	0.040	0.075
FREQ (Hz)	13.5	10.9	2.6
PD (.001")	2.15	1.69	5.16
PPA (g)	0.020	0.013	0.013
Peak Vector Sum :	0.078 in/s		
Peak Air Pressure:	95 db		
	0.00023 PSI @ 17.2 Hz		

Additional Info:

Shaketable Calibrated: 03/12/2021

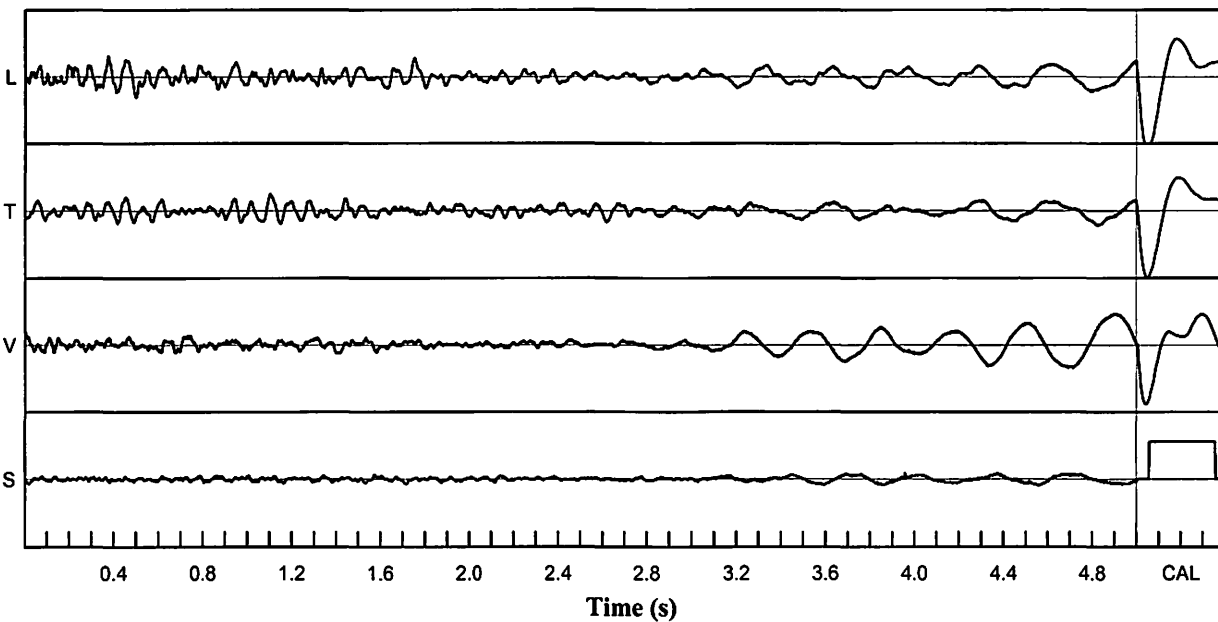
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5149 Event: 2



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 10/13/2021 11:17:11
Event No: 3
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5149 Event: 3

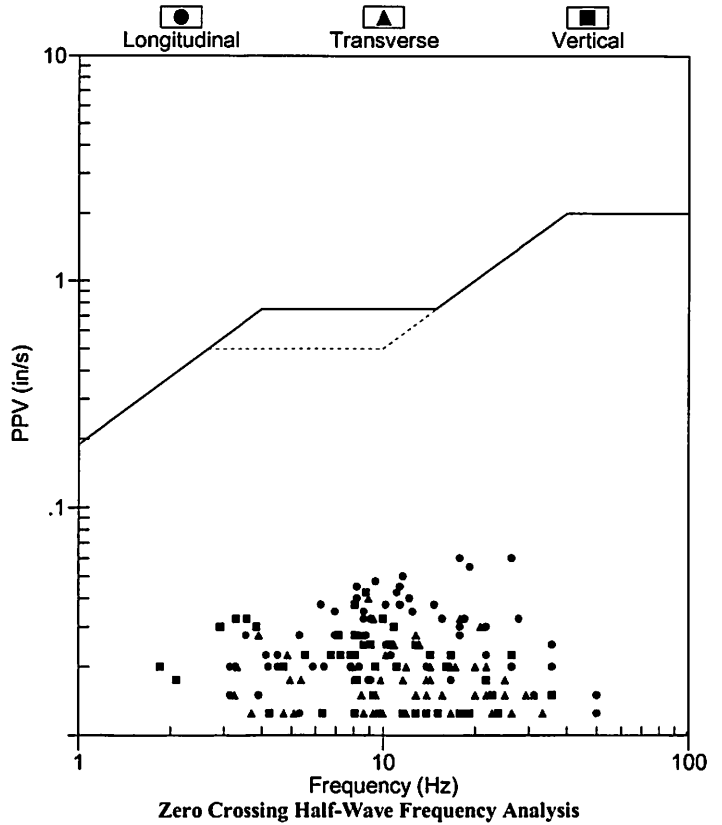
	Summary Data		
	L	T	V
PPV (in/s)	0.060	0.040	0.043
FREQ (Hz)	9.6	8.9	8.8
PD (.001")	1.23	0.95	2.13
PPA (g)	0.026	0.020	0.020
Peak Vector Sum :	0.065 in/s		
Peak Air Pressure:	89 db		
	0.00016 PSI @ 26.3 Hz		

Additional Info:

Shaketable Calibrated: 03/12/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

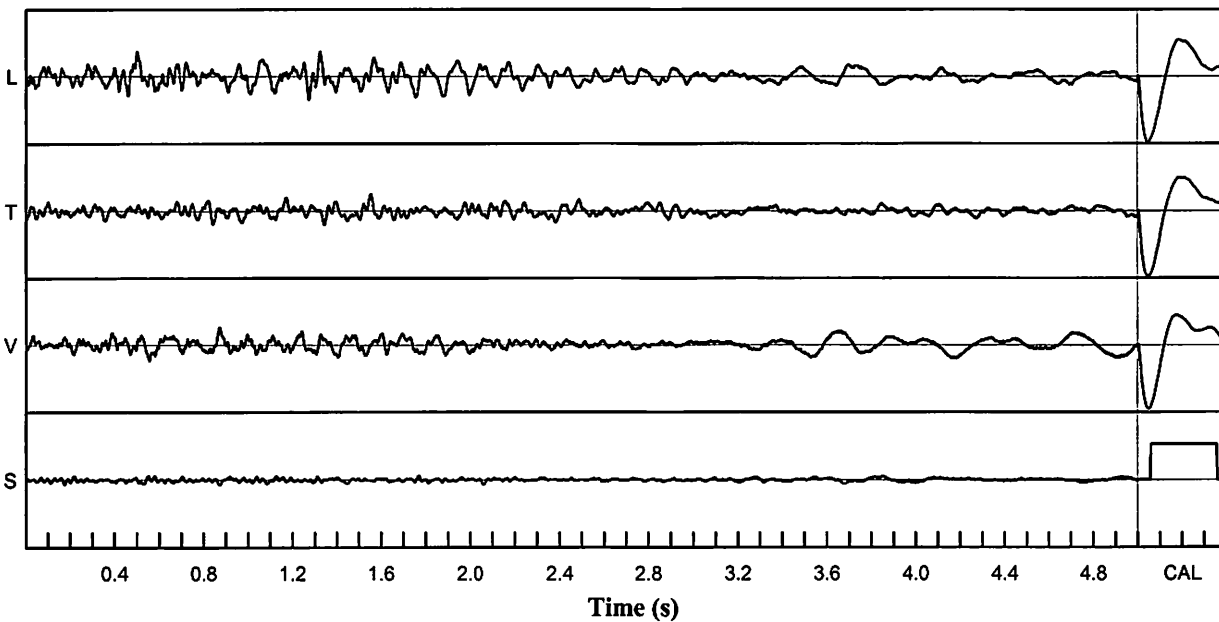
Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI



Velocity Waveform

SN: 5149 Event: 3



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 10/14/2021 11:16:49
Event No: 4
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5149 Event: 4

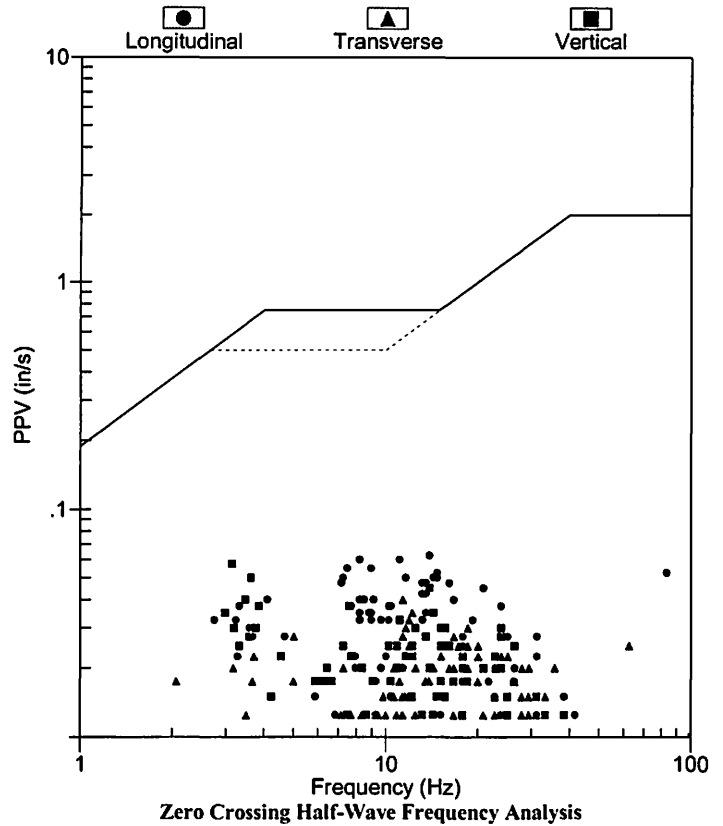
	Summary Data		
	L	T	V
PPV (in/s)	0.063	0.040	0.058
FREQ (Hz)	13.9	11.4	3.1
PD (.001")	1.60	1.20	2.60
PPA (g)	0.033	0.020	0.020
Peak Vector Sum :	0.075 in/s		
Peak Air Pressure:	94 db		
	0.00021 PSI @ 11.1 Hz		

Additional Info:

Shaketable Calibrated: 03/12/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

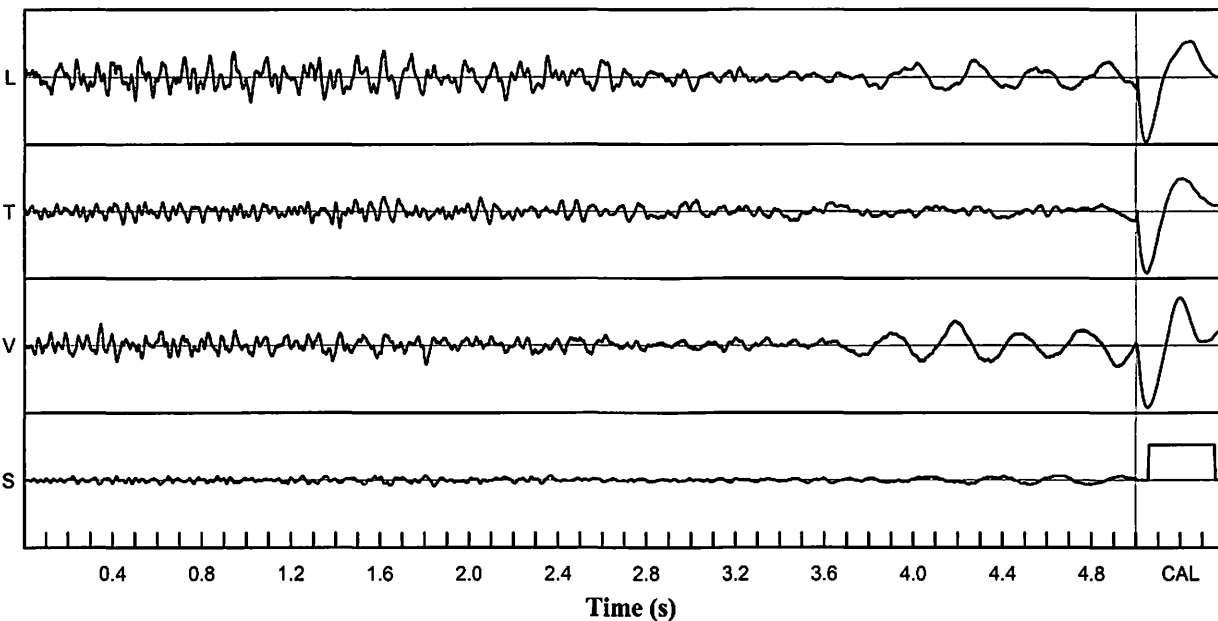
Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI



Velocity Waveform

SN: 5149 Event: 4



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 10/20/2021 13:17:09
Event No: 5
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5149 Event: 5

	Summary Data		
	L	T	V
PPV (in/s)	0.085	0.038	0.115
FREQ (Hz)	9.6	14.3	2.9
PD (.001")	3.97	1.46	6.14
PPA (g)	0.026	0.020	0.020
Peak Vector Sum :	0.120 in/s		
Peak Air Pressure:	101 db		
	0.00034 PSI @ 2.9 Hz		

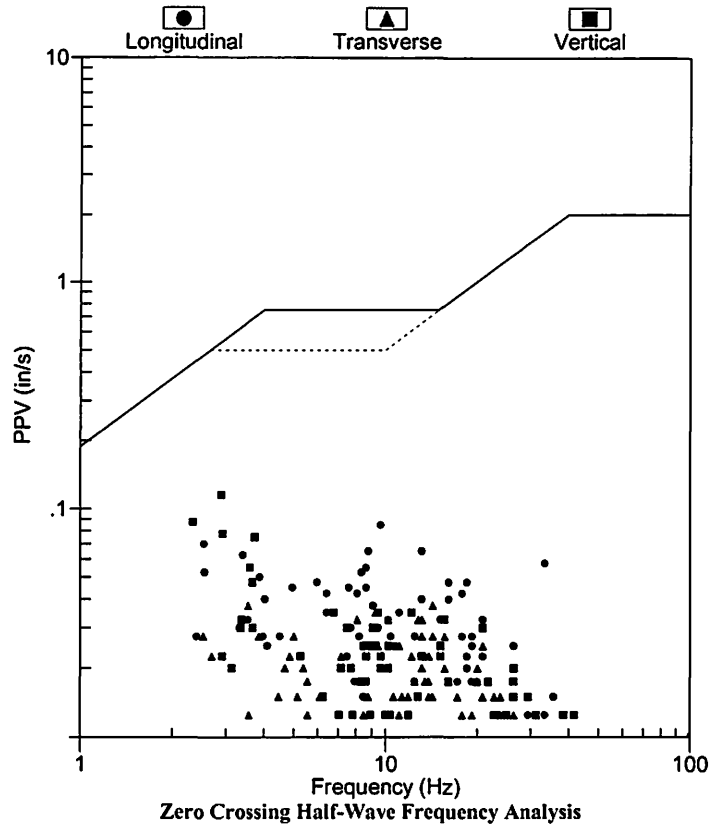
Additional Info:

Shaketable Calibrated: 03/12/2021

By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

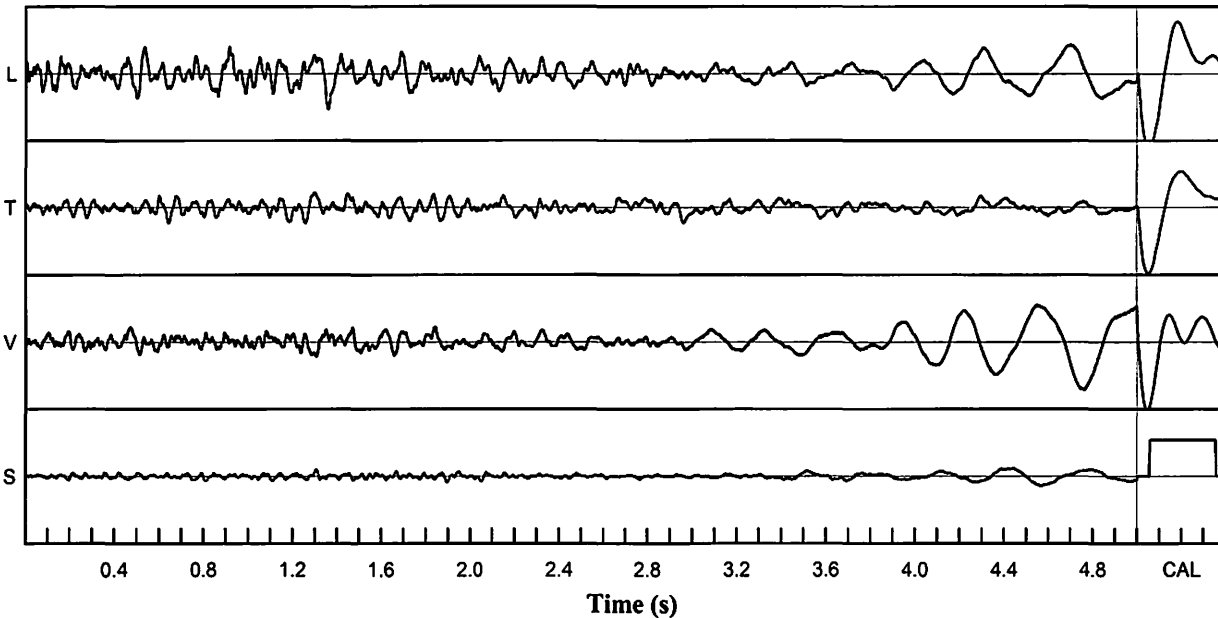
Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI



Velocity Waveform

SN: 5149 Event: 5



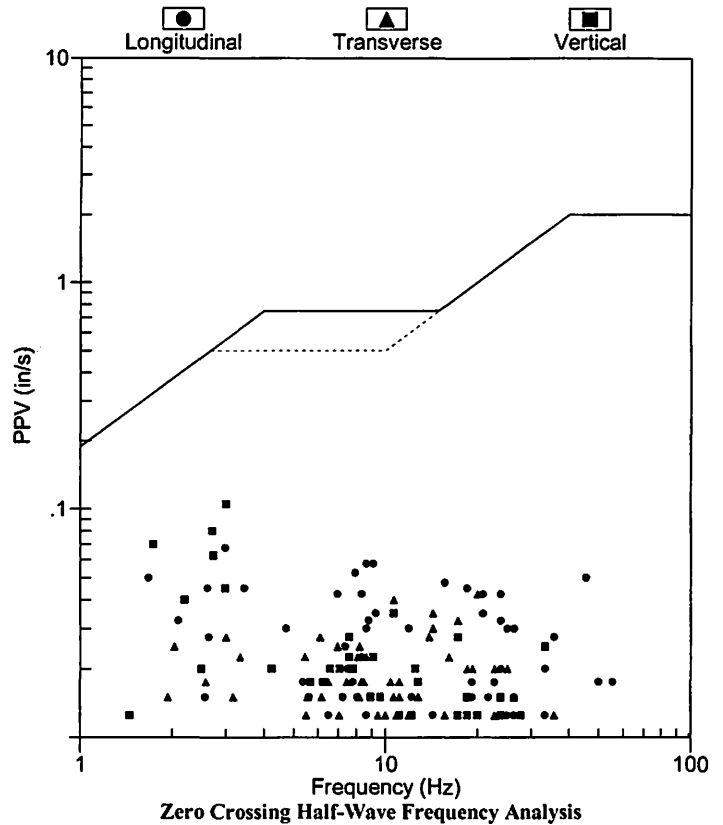
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 10/22/2021 11:17:23
Event No: 6
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5149 Event: 6



Additional Info:

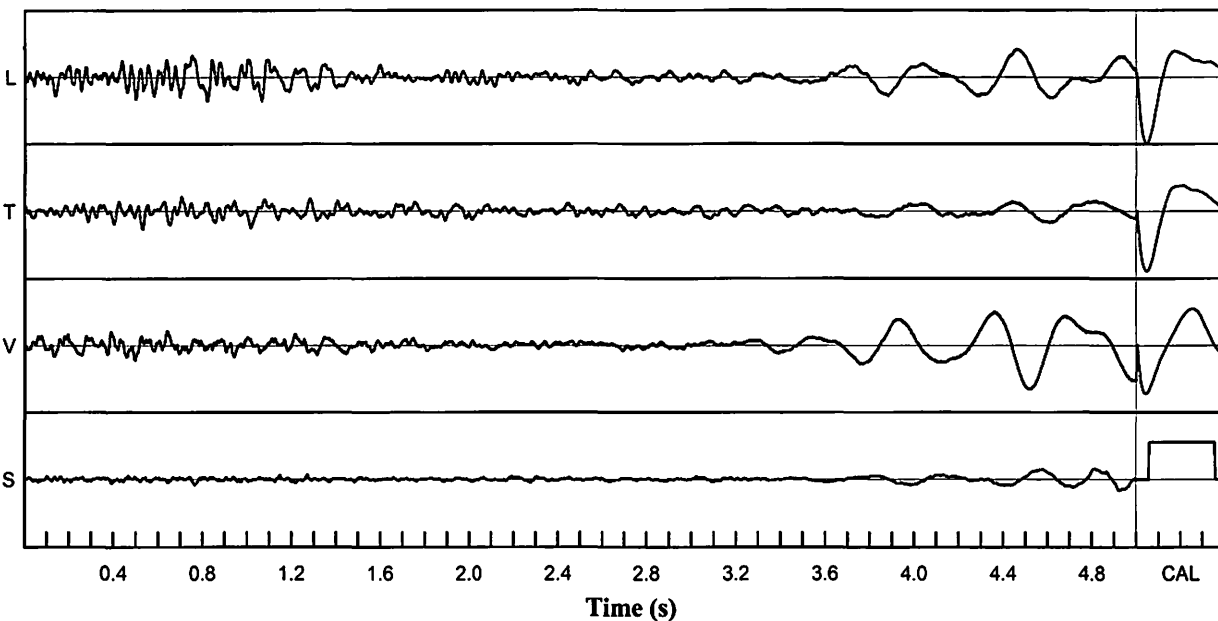
Shaketable Calibrated: 03/12/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5149 Event: 6



Seismic Analysis

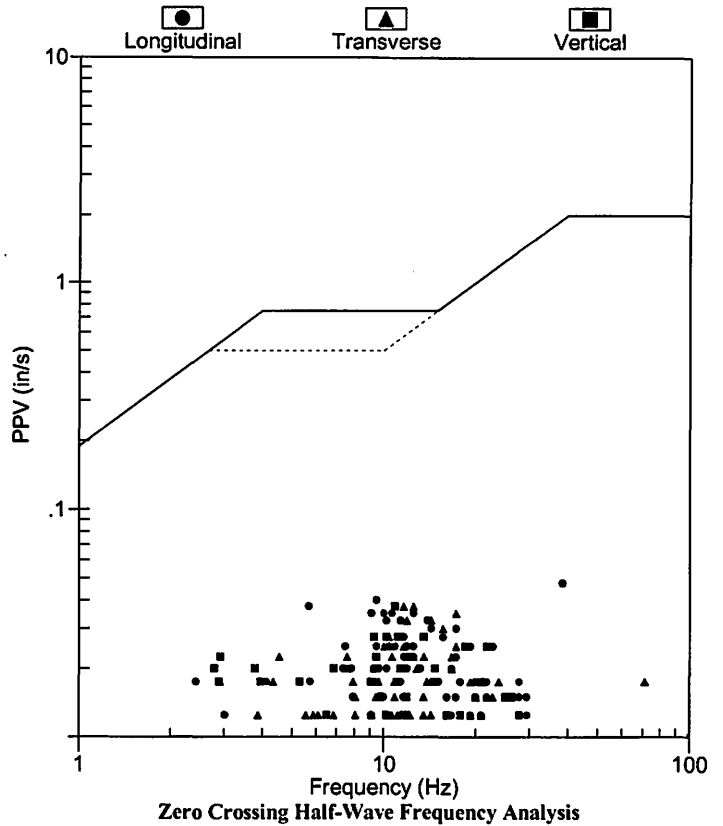
Velocity Waveform Analysis

Serial No: 5148 v3.67
Date: 10/26/2021 11:26:16
Event No: 1
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5148 Event: 1

	Summary Data		
	L	T	V
PPV (in/s)	0.050	0.043	0.038
FREQ (Hz)	17.9	11.6	10.9
PD (.001")	1.23	1.02	1.11
PPA (g)	0.020	0.020	0.020
Peak Vector Sum :	0.063 in/s		
Peak Air Pressure:	88 db		
	0.00018 PSI @ 1.0 Hz		



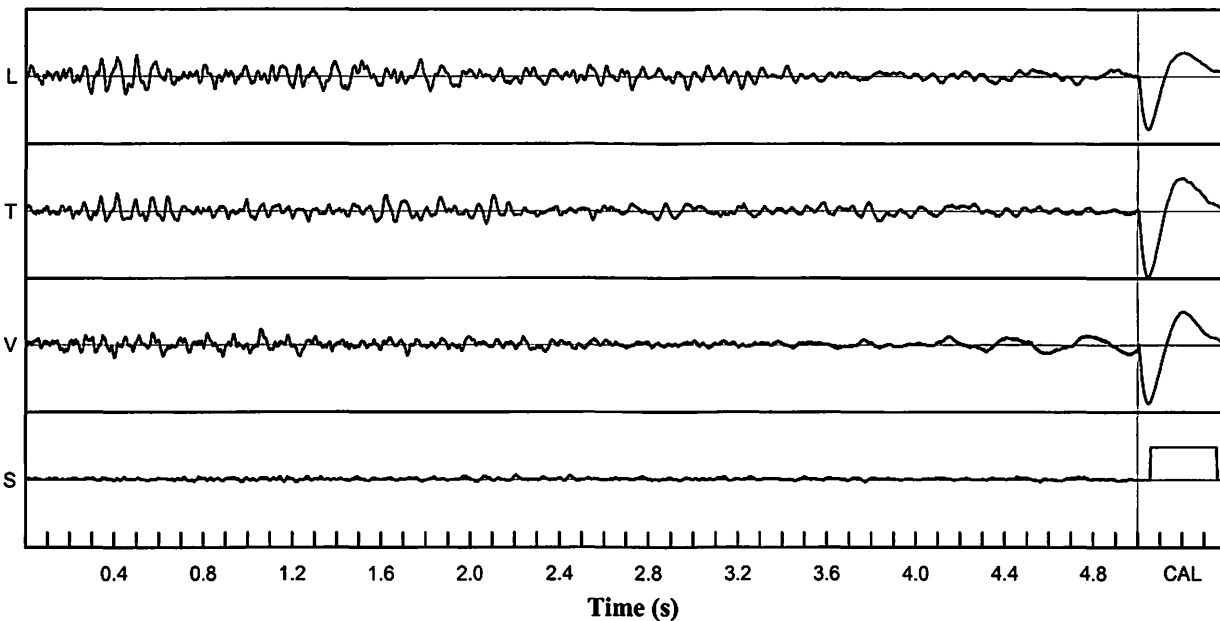
Additional Info:

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

Velocity Waveform Graph Scale
Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5148 Event: 1



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5148 v3.67
Date: 10/28/2021 11:32:07
Event No: 2
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5148 Event: 2

	Summary Data		
	L	T	V
PPV (in/s)	0.075	0.048	0.128
FREQ (Hz)	2.9	14.3	2.7
PD (.001")	3.73	2.01	7.49
PPA (g)	0.026	0.013	0.020
Peak Vector Sum :	0.130 in/s		
Peak Air Pressure:	113 db		
	0.00146 PSI @ 4.8 Hz		

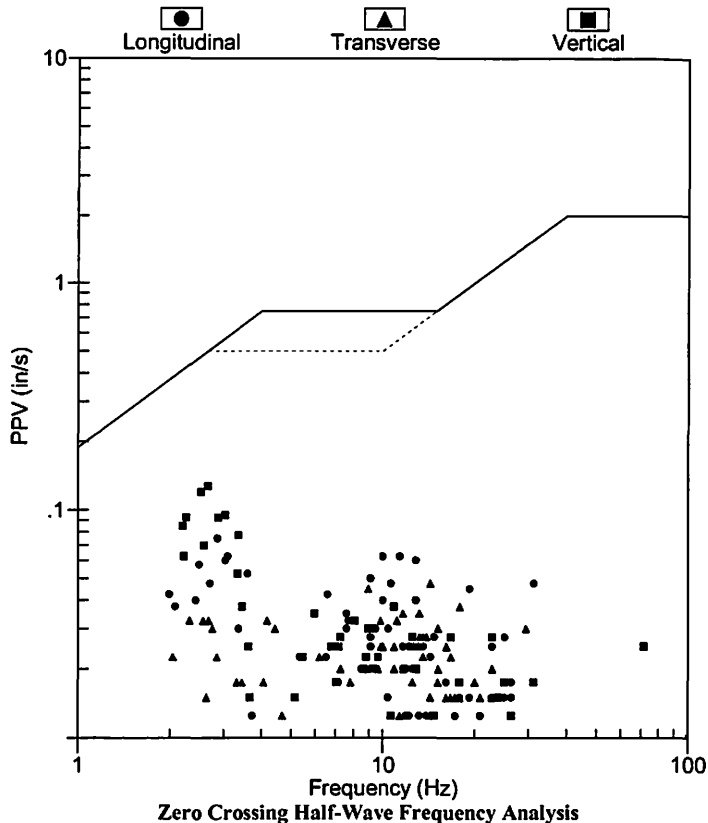
Additional Info:

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

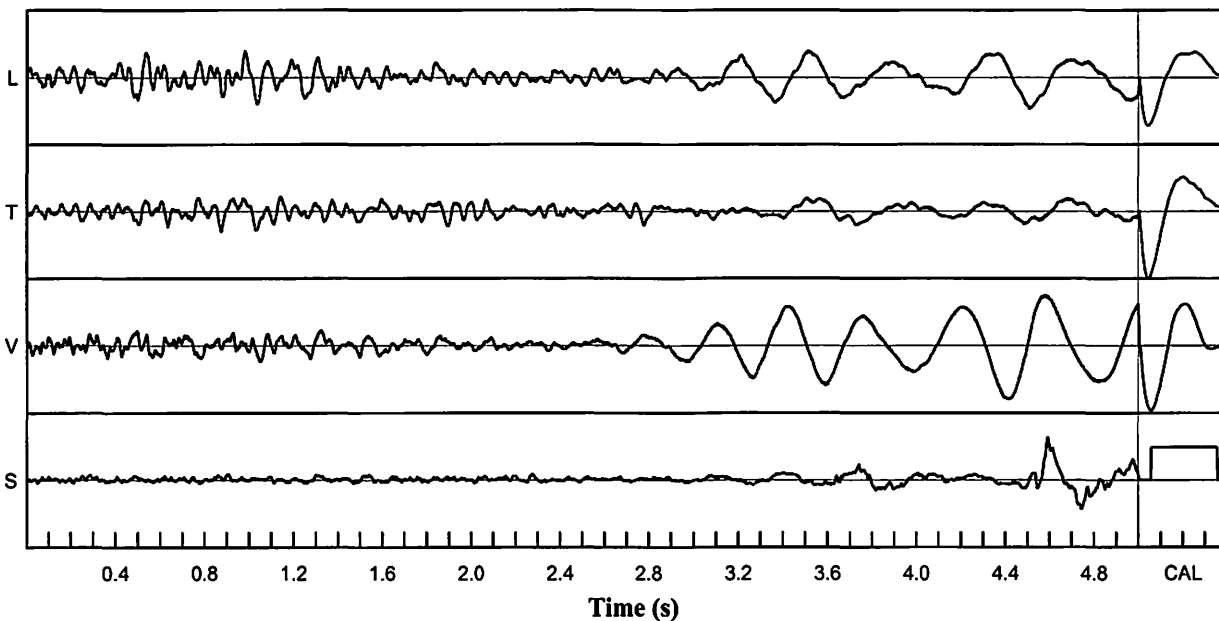
Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI



Velocity Waveform

SN: 5148 Event: 2



Seismic Analysis

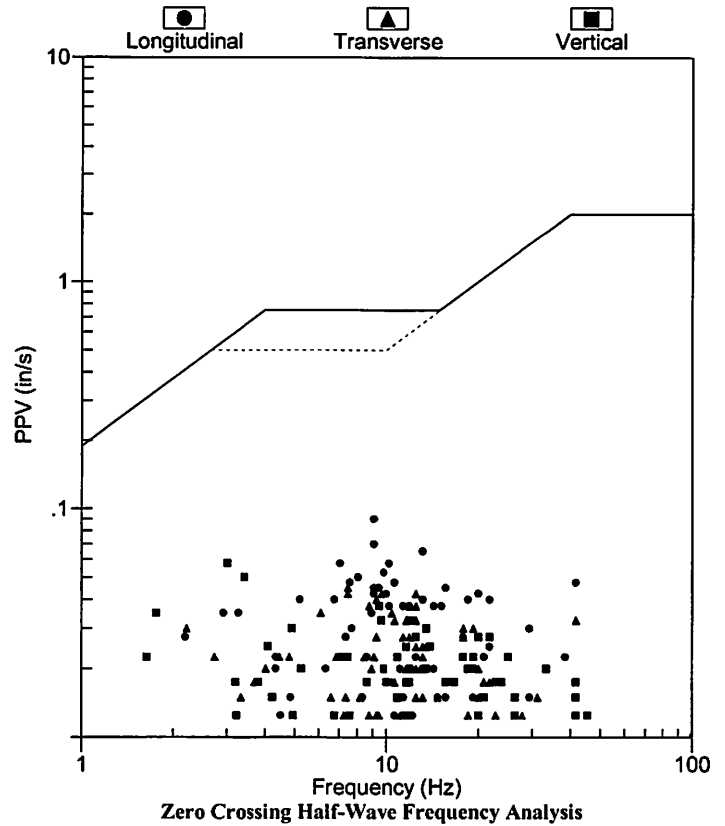
Velocity Waveform Analysis

Serial No: 5148 v3.67
Date: 11/02/2021 11:17:17
Event No: 3
Record Time: 5.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5148 Event: 3

	Summary Data		
	L	T	V
PPV (in/s)	0.090	0.045	0.098
FREQ (Hz)	9.1	7.5	3.0
PD (.001")	2.66	1.73	3.47
PPA (g)	0.039	0.020	0.026
Peak Vector Sum :	0.100 in/s		
Peak Air Pressure:	90 db		
	0.00021 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

Velocity Waveform Graph Scale
Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5148 Event: 3

