



A CRH COMPANY

FAX COVER SHEET

TILCON NEW YORK INC.
9 Entin Road
Parsippany, NJ 07054

TO: Ms. Iris Heredia

FROM: Andrew Pylypyshyn – Pompton Lakes Plant Manager

SUBJECT: Monthly Explosives Use Report

TELEPHONE: (973) 294-9299

DATE: 11/16/23

TOTAL PAGES: 9 (Including Cover)

MESSAGE: Monthly explosives use report for Riverdale Quarry
Month of October 2023

Monthly Explosives Use Report

NOTE: COMPLETE ALL APPLICABLE ENTRIES ON FRONT AND REVERSE SIDES OF THIS FORM. THE COMPLETED FORM IS TO BE MAILED TO THE OFFICE OF SAFETY COMPLIANCE WITHIN 10 DAYS AFTER THE END OF THE MONTH FOR WHICH THE REPORT IS DUE.

Name <u>Tilcon - Pompton Lakes Facility</u>	Phone No. <u>1-800-789-7625</u>
Street Address <u>Foot of Broad Street</u>	City <u>Pompton Lakes</u>
State <u>NJ</u>	Zip <u>07442</u>

MONTH AND YEAR OF REPORT October 2023	Explosives Lbs.	Detonator (Caps) No.	Gunpowder	Other
Beginning Actual Count Inventory First of Month				
Purchases During the Month	178177	831		
Total (Item 1 plus Item 2)	178177	831		
Blasting Summary	178177	831		
Miscellaneous Adjustments				
Month Ending Inventory on Hand by actual Count				
Name of Supplier :	DATE	INV. #		
Maurer and Scott	10/5/2023	74706	77577	194
Maurer and Scott	10/12/2023	74841	42140	149
Maurer and Scott	10/19/2023	74940	26980	155
Maurer and Scott	10/23/2023	75012	3140	283
Maurer and Scott	10/25/2023	75040	10240	50
Maurer and Scott	10/30/2023	75134	18100	98

TOTAL NUMBER OF BLASTS - 6

Comments:

MAIL TO OFFICE OF PUBLIC SAFETY COMPLIANCE, PO BOX 386, TRENTON, NEW JERSEY 08625-0386
 PHONE: (609) 292-2096 FAX: (609) 777-4589

Tilcon - Pompton Lakes Facility
(LICENSEE SIGNATURE)

EXPLOSIVES USED IN BLASTING

Shots	Date	Time	Site Location	Name of Blaster	Permit #	High Explo. Lbs.	Caps or Det.	Max. lbs. Per Delay	Nearest Structure (Feet)	Seismic PPV and Frequency			Seismic D B Level	Type of Shot (Bank, Trench, Etc.)
										Trans.	Vert.	Long.		
SHOT	27-23	12:00	Tilcon Pompton Lakes	Kyle Boyer	6191	77577	194	1850	1893	PPV: .34 HZ: 20.8	.262 31.3	.282 19.2	106	Mass
SHOT	29-23	11:20	Tilcon Pompton Lakes	Kyle Boyer	6191	42140	149	633	2244	PPV: .098 HZ: 27.8	.085 38.5	.113 21.7	106	Mass
SHOT	28-23	12:00	Tilcon Pompton Lakes	Kyle Boyer	6191	26878	155	542	2084	PPV: .067 HZ: 31.3	.04 35.7	.055 35.7	110	Mass
SHOT	32-23	11:00	Tilcon Pompton Lakes	Kyle Boyer	6191	3140	283	16	1070	PPV: 0 HZ: 0	0 0	0 0	0	Trench
SHOT	26-23	10:00	Tilcon Pompton Lakes	Kyle Boyer	6191	10240	50	482	987	PPV: .21 HZ: 35.7	.127 35.7	.115 27.8	118	Mass
SHOT	30-23	11:00	Tilcon Pompton Lakes	Kyle Boyer	6191	18100	98	130	1924	PPV: .04 HZ: 17.9	.083 38.5	.048 12.2	106	Mass
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
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SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
TOTALS						178075	929							

Seismic Analysis

Velocity Waveform Analysis

Serial Number: 11590
Firmware Version: 0C-10.29
Event Date: 10/05/2023 12:00:04 (UTC -04:00)
Event number: 10
Recording Time: 10 s
Client: Tilcon NJ
Operation: Pompton Lakes Quarry
Location: 211 Hamburg Turnpike
Distance:
Operator: Vibra-Tech Engineers
Comment: 150
Seismic Trigger: 0.03 in/s
Sound Trigger: 123.5 dB

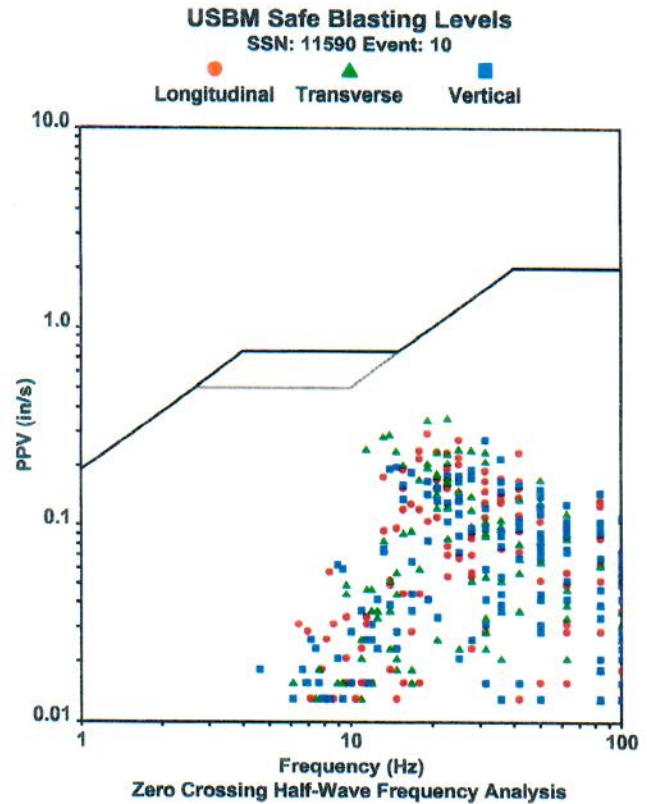
Additional Info: -of building
 j-GEO-19770
 N41 00.064, W074 18.899

Summary Data			
	L	T	V
PPV (in/s):	0.2825	0.34	0.2625
FREQ (HZ):	19.2	20.8	31.3
PD (.001"):	1.95	2.788	2.022
PPA (g):	0.2083	0.1953	0.2018

Peak Vector Sum: 0.36 in/s
Peak Air Pressure: 106.4 dB
 0.0006 psi @ 20.8 HZ

Shaketable Calibrated

On: 07/20/2023 (UTC -04:00)
By: Vibra-Tech, Inc.
 2700 Holloway Road - Suite 113
 Louisville, KY 40203 U.S.A.

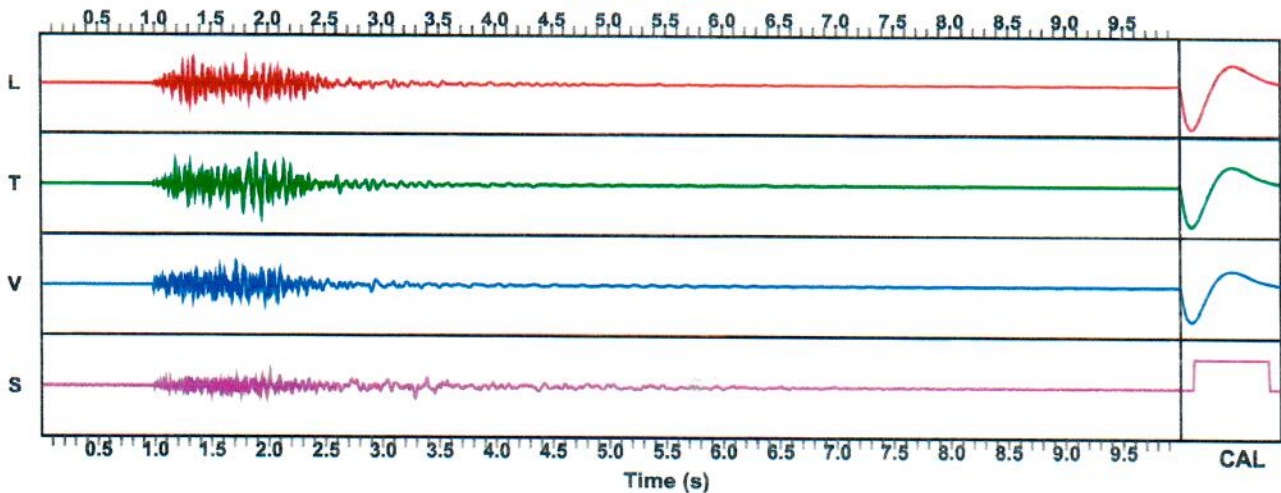


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.51 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11590 Event: 10



GeoSonics Inc. Seismic Analysis

Velocity Waveform Analysis

Serial No: 5720 v3.85
Date: 10/12/2023 11:20:06
Event No: 49
Record Time: 5.0 s
Client: Tilcon
Operation: Pompton Lakes
Location: 120 Federal Hill
Distance: 2244
Operator: C Landes
Comment: Maurer & Scott
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db

Summary Data

	L	T	V
PPV (in/s)	0.113	0.098	0.085
FREQ (Hz)	21.7	27.8	38.5
PD (.001")	1.06	0.91	0.50
PPA (g)	0.059	0.059	0.072
Peak Vector Sum :	0.148 in/s		
Peak Air Pressure:	106 db		
	0.00064 PSI @ 3.9 Hz		

Additional Info:

Shaketable Calibrated: 02/21/2023

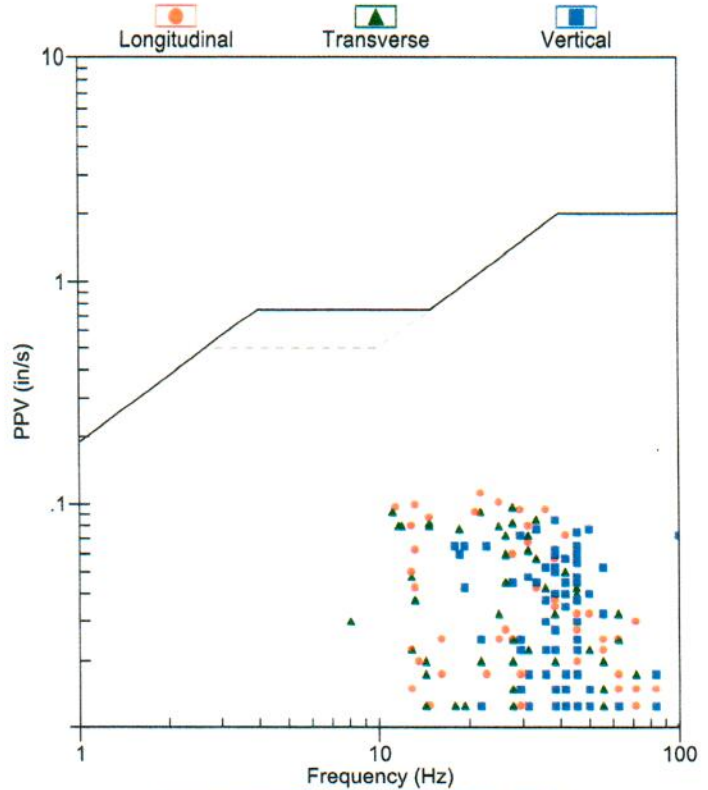
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale

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

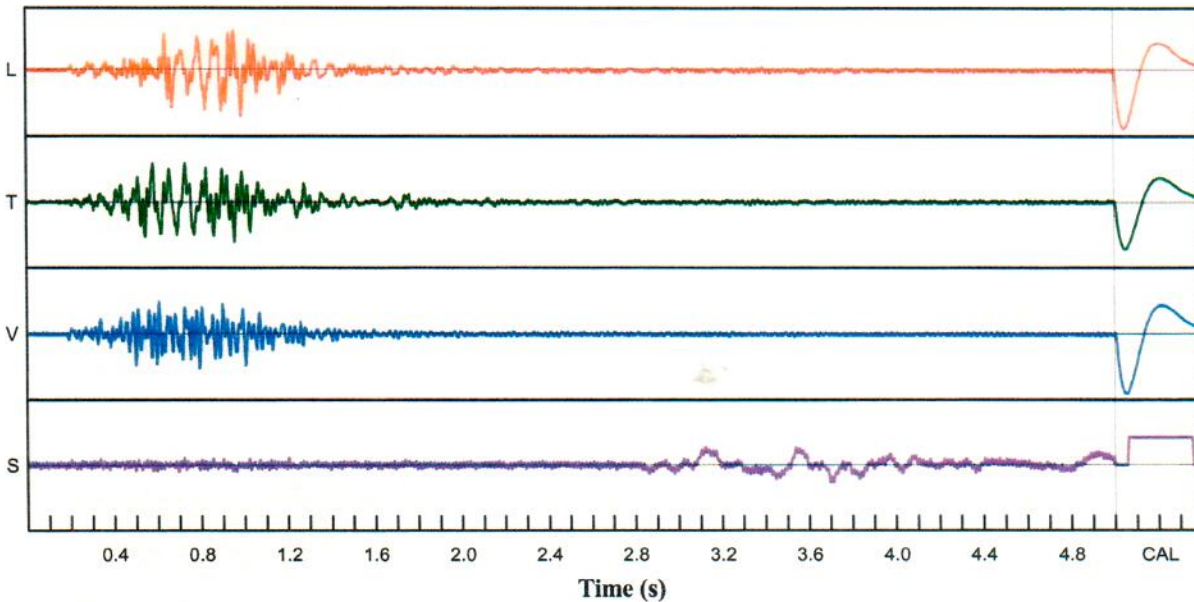
USBM Safe Blasting Levels

SN: 5720 Event: 49



Velocity Waveform

SN: 5720 Event: 49



Seismic Analysis

Velocity Waveform Analysis

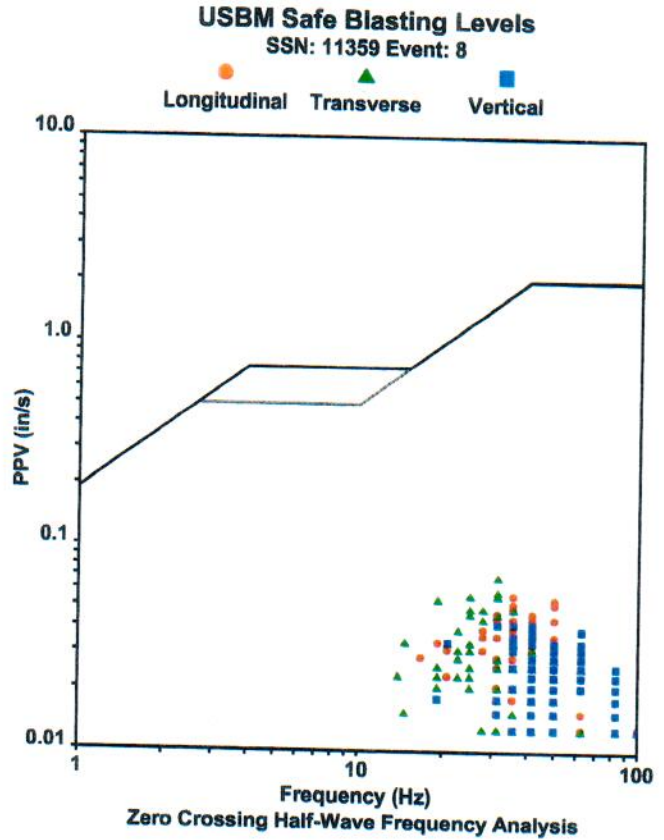
Serial Number: 11359
Firmware Version: 0C-10.29
Event Date: 10/19/2023 12:00:05 (UTC -04:00)
Event number: 8
Recording Time: 10 s
Client: Tilcon New Jersey
Operation: Pompton Lakes Quarry
Location: Bloomingdale DPW Yard
Distance:
Operator: Vibra-Tech Engineers
Comment: Front R corner of Bldg.
Seismic Trigger: 0.03 in/s
Sound Trigger: 123.5 dB

Additional Info:
 j-GEO-17702
 N41 00.755, W074 18.976

Summary Data			
	L	T	V
PPV (in/s):	0.055	0.0675	0.04
FREQ (HZ):	35.7	31.3	35.7
PD (.001"):	0.29	0.3625	0.37
PPA (g):	0.05208	0.03255	0.03255

Peak Vector Sum: 0.085 in/s
Peak Air Pressure: 110.5 dB
 0.001 psi @ 5.8 HZ

Shaketable Calibrated
On: 07/20/2023 (UTC -04:00)
By: Vibra-Tech, Inc.
 2700 Holloway Road - Suite 113
 Louisville, KY 40203 U.S.A.

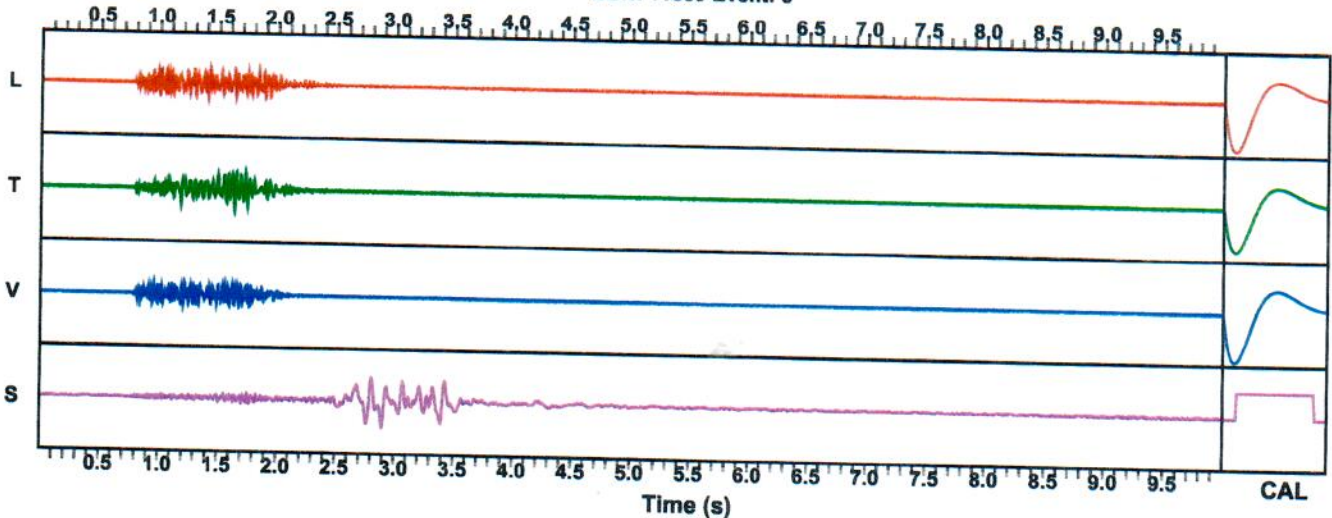


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.16 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11359 Event: 8



Summary Data Report

Serial No: 5720 v3.85
Client: Tilcon
Operation: Pompton Lakes
Location: 26 Federal Hill
Distance: 1070
Operator: J Esch
Comment: Maurer & Scott

Begin Date: 10/23/2023 10:42:59
End Date: 10/23/2023 11:04:18
Events over Trigger: 0 (52-51)
Record Time: 5.0 s
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db
Battery Level: 12.6

Additional Info:

Shaketable Calibrated: 02/21/2023
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

Seismic Analysis Velocity Waveform Analysis

Serial Number: 11591
Firmware Version: 0C-10.29
Event Date: 10/25/2023 10:00:05 (UTC -04:00)
Event number: 14
Recording Time: 10 s
Client: Tilcon New Jersey
Operation: Pompton Lakes Quarry
Location: Cablevision Tower*
Distance:
Operator: Vibra-Tech Engineers
Comment: *on Federal Hill Road
Seismic Trigger: 0.03 in/s
Sound Trigger: 123.5 dB

Additional Info:
 j-GEO-17440
 N41 00.667, W074 18.040

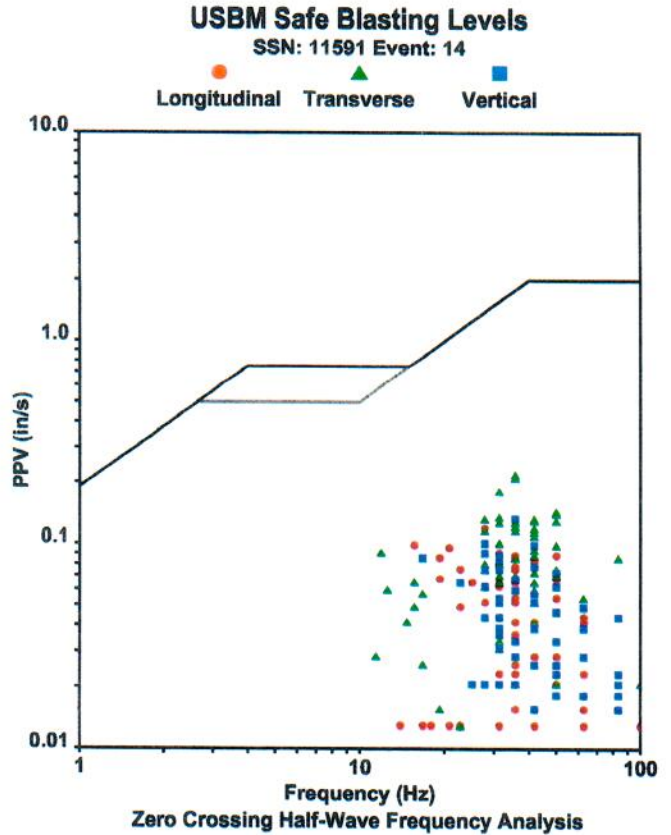
Summary Data

	L	T	V
PPV (in/s):	0.115	0.21	0.1275
FREQ (HZ):	27.8	35.7	35.7
PD (.001"):	0.7075	1.08	0.78
PPA (g):	0.07161	0.1497	0.07812

Peak Vector Sum: 0.2175 in/s
Peak Air Pressure: 118 dB
 0.0023 psi @ 4.5 HZ

Shaketable Calibrated

On: 07/20/2023 (UTC -04:00)
By: Vibra-Tech, Inc.
 2700 Holloway Road - Suite 113
 Louisville, KY 40203 U.S.A.

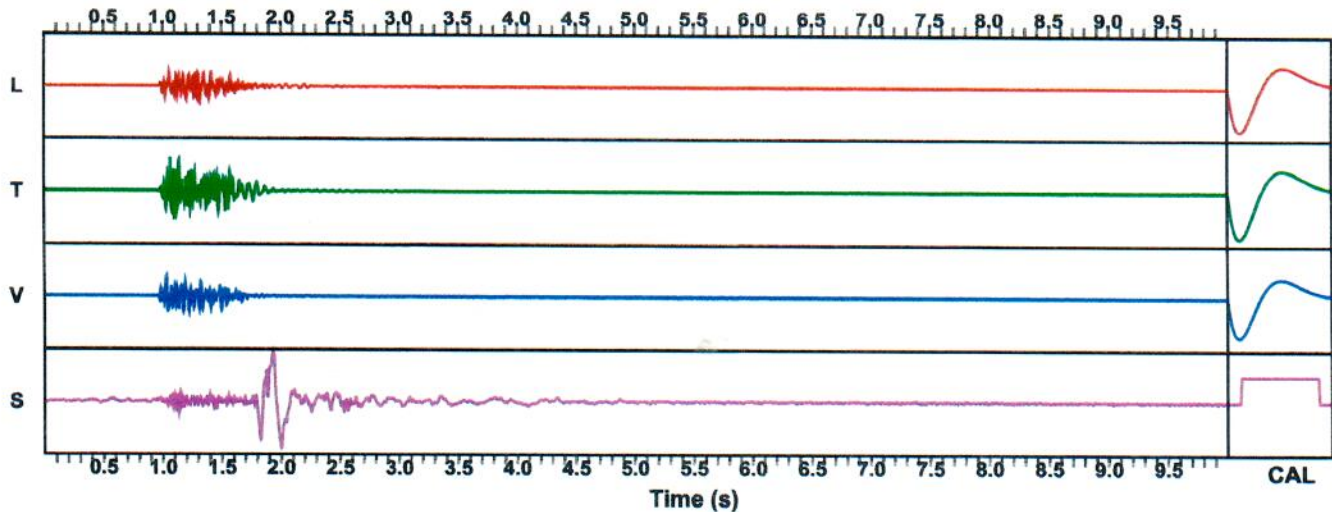


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.315 in/s
Sound Scale: +/- 0.002527 psi

Velocity Waveform

SSN: 11591 Event: 14



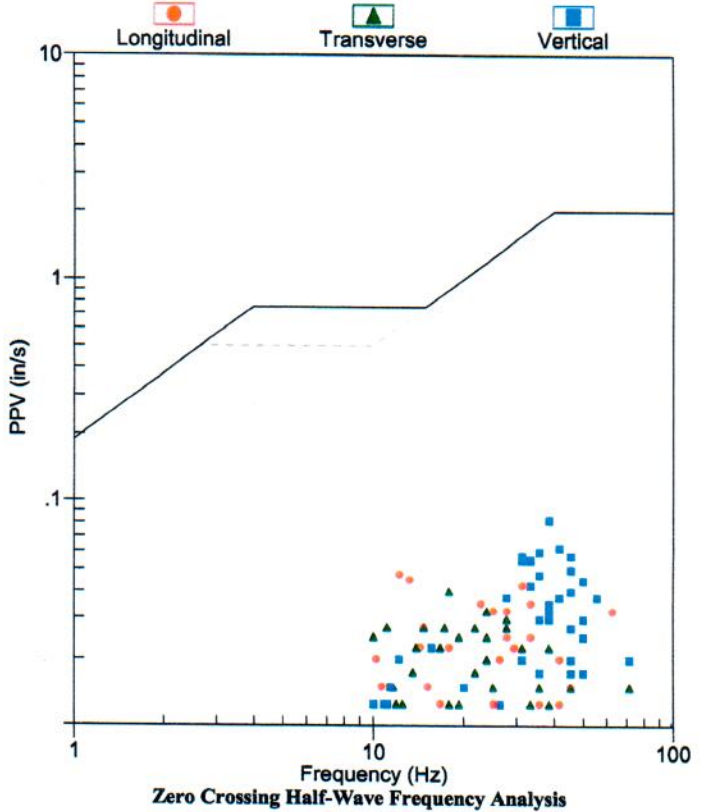
GeoSonics Inc. Seismic Analysis

Velocity Waveform Analysis

Serial No: 5720 v3.85
Date: 10/30/2023 11:00:14
Event No: 53
Record Time: 5.0 s
Client: Tilcon
Operation: Pompton NJ
Location: 120 Federal Hill
Distance: 1924
Operator: C Flynn
Comment: Maurer & Scott
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db

USBM Safe Blasting Levels

SN: 5720 Event: 53



	Summary Data		
	L	T	V
PPV (in/s)	0.048	0.040	0.083
FREQ (Hz)	12.2	17.9	38.5
PD (.001")	0.44	0.36	0.41
PPA (g)	0.033	0.026	0.052
Peak Vector Sum :	0.085 in/s		
Peak Air Pressure:	106 db		
	0.00061 PSI @ 2.7 Hz		

Additional Info:

Shaketable Calibrated: 02/21/2023

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: 5720 Event: 53

