



A CRH COMPANY

## FAX COVER SHEET

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

**TO:** Ms. Iris Heredia

**FROM:** Daniel Naiman – Pompton Lakes Assistant Plant Manager

**SUBJECT:** Monthly Explosives Use Report

**TELEPHONE:** (973) 294-9299

**DATE:** 8/9/2023

**TOTAL PAGES:** 9 (Including Cover)

**MESSAGE:** Monthly explosives use report for Pompton Lakes Quarry

Month of June 2023

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# 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>(973) 835-0028</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 <b>June 2023</b>	Explosives Lbs.	Detonator (Caps) No.	Gunpowder (Primer)	Other
Beginning Actual Count Inventory First of Month	-	-	-	
Purchases During the Month	177,370	631	-	
Total (Item 1 plus Item 2)	177,370	631	-	
Blasting Summary	177,370	631	-	
Miscellaneous Adjustments	-	-	-	
Month Ending Inventory on Hand by actual Count	-	-	-	
<b>Name of Supplier :</b>	<b>DATE</b>	<b>INV. #</b>		
Maurer & Scott	6/1/2023	72554	20,679	78
Maurer & Scott	6/1/2023	72565	4,052	56
Maurer & Scott	6/14/2023	72808	1,518	32
Maurer & Scott	6/19/2023	72897	17,661	106
Maurer & Scott	6/21/2023	72927	91,960	222
Maurer & Scott	6/28/2023	73046	41,500	137
				-
				-
				-
				-

**TOTAL NUMBER OF BLASTS - 6**

Comments:

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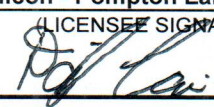


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MAIL TO OFFICE OF PUBLIC SAFETY COMPLIANCE, PO BOX 386, TRENTON, NEW JERSEY 08625-0386  
 PHONE: (609) 292-2096 FAX: (609) 777-4589

**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	6/1	11:15AM	Tilcon Pompton Lakes	Kyle Boyer	6191	20,679	78	557	820	PPV: .195 HZ: 31.3	.177 25.0	.267 15.6	122.0	Mass
11-23														
SHOT	6/1	11:20AM	Tilcon Pompton Lakes	Kyle Boyer	6191	4,052	56	102	1,205	PPV: .173 HZ: 16.7	.055 16.7	.06 15.2	118.0	Mass
10-23														
SHOT	6/14	10:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	1,518	32	108	1,908	PPV: 0.0 HZ: 0.0	0.0 0.0	0.0 0.0	-	Pre-split
12-23														
SHOT	6/19	10:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	17,661	106	437	2,184	PPV: .067 HZ: 25.0	.04 35.7	.065 35.7	108.0	Mass
13-23														
SHOT	6/21	11:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	91,960	222	1,680	2,029	PPV: .305 HZ: 31.5	.20 41.7	.20 31.3	106.0	Mass
8-23														
SHOT	6/28	11:00AM	Tilcon Pompton Lakes	Jeff Multitsch	3113	41,500	137	659	2,322	PPV: .218 HZ: 41.7	.173 50.0	.175 33.3	107.0	Mass
14-23														
SHOT										PPV:				
										HZ:				
SHOT										PPV:				
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SHOT										PPV:				
										HZ:				
SHOT										PPV:				
										HZ:				
TOTALS						177,370	631							

# Seismic Analysis Velocity Waveform Analysis

**Serial Number:** 11250  
**Firmware Version:** OC-10.29  
**Event Date:** 06/01/2023 11:15:05 (UTC -04:00)  
**Event number:** 97  
**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):	0.2675	0.195	0.1775
FREQ (HZ):	15.6	31.3	25
PD (.001"):	1.95	1.02	0.7525
PPA (g):	0.1628	0.1432	0.1237

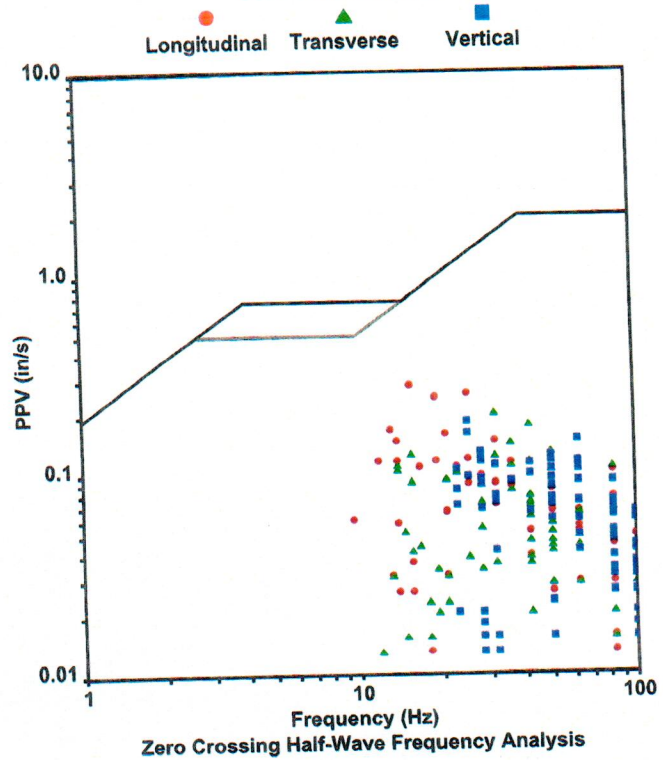
**Peak Vector Sum:** 0.2875 in/s  
**Peak Air Pressure:** 122.4 dB  
 0.0038 psi @ 8.6 HZ

### Shaketable Calibrated

**On:** 08/09/2022 (UTC -04:00)  
**By:** Vibra-Tech, Inc.  
 2700 Holloway Road - Suite 113  
 Louisville, KY 40203 U.S.A.

### USBM Safe Blasting Levels

SSN: 11250 Event: 97

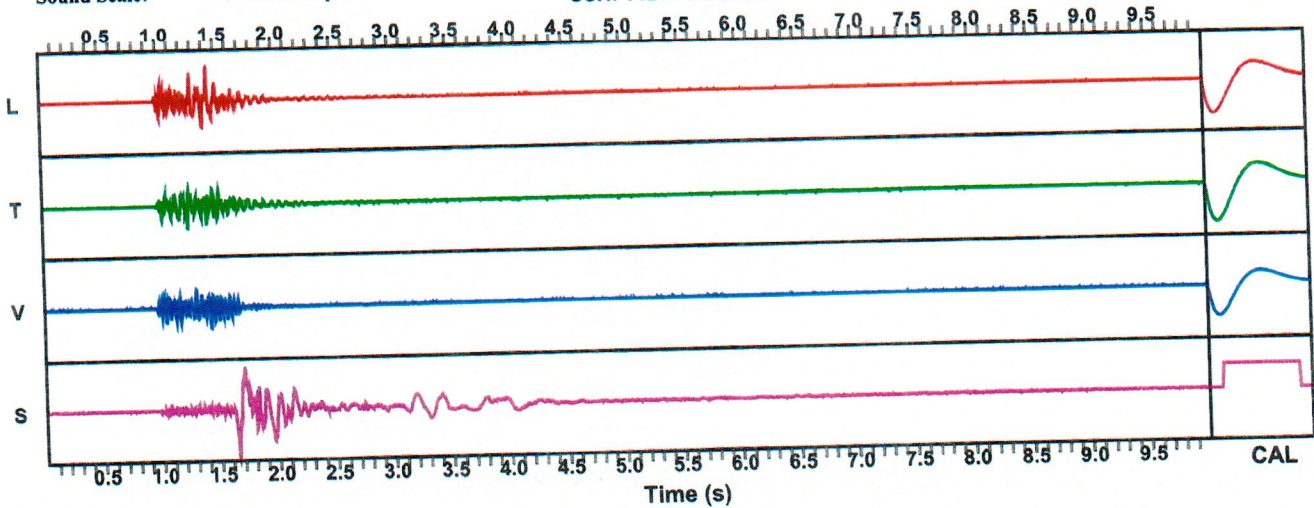


### Waveform Graph Scale

**Time Scale:** 0.1 s  
**Seismic Scale:** +/- 0.40125 in/s  
**Sound Scale:** +/- 0.003951 psi

### Velocity Waveform

SSN: 11250 Event: 97





# Seismic Analysis Velocity Waveform Analysis

**Serial Number:** 11250  
**Firmware Version:** 0C-10.29  
**Event Date:** 06/01/2023 11:20:04 (UTC -04:00)  
**Event number:** 98  
**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

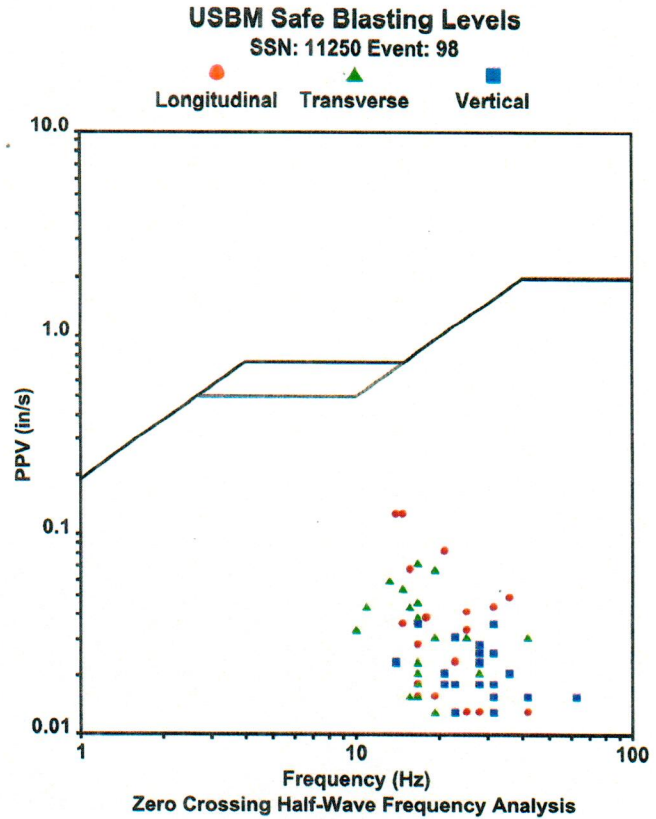
### Summary Data

	L	T	V
PPV (in/s):	0.1225	0.07	0.035
FREQ (HZ):	14.7	16.7	16.7
PD (.001"):	1.175	0.6275	0.315
PPA (g):	0.05859	0.03255	0.02604

**Peak Vector Sum:** 0.13 in/s  
**Peak Air Pressure:** 107.9 dB  
 0.0007 psi @ 16.7 HZ

### Shaketable Calibrated

**On:** 08/09/2022 (UTC -04:00)  
**By:** Vibra-Tech, Inc.  
 2700 Holloway Road - Suite 113  
 Louisville, KY 40203 U.S.A.

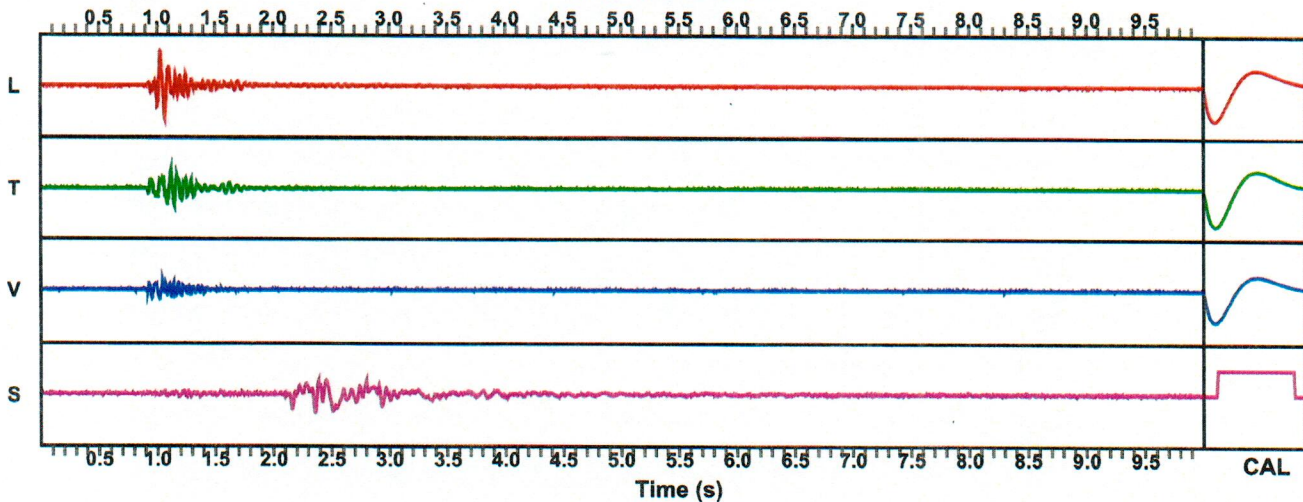


### Waveform Graph Scale

**Time Scale:** 0.1 s  
**Seismic Scale:** +/- 0.18375 in/s  
**Sound Scale:** +/- 0.0023 psi

### Velocity Waveform

SSN: 11250 Event: 98



# Seismic Analysis

## Velocity Waveform Analysis

**Serial Number:** 11254  
**Firmware Version:** 0C-10.29  
**Event Date:** 06/19/2023 10:00:01 (UTC -04:00)  
**Event number:** 93  
**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

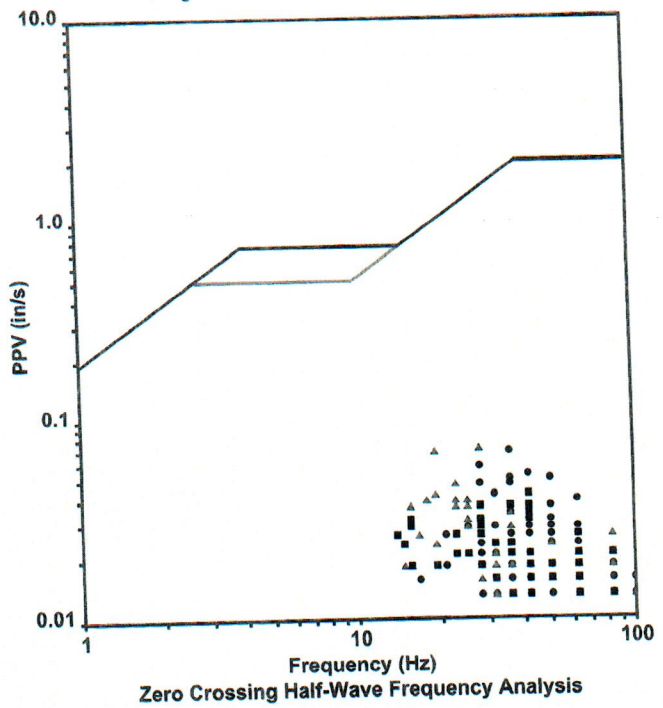
**Additional Info:**  
 j-GEO-17702  
 N41 00.755, W074 18.976

Summary Data			
	L	T	V
PPV (in/s):	0.065	0.0675	0.04
FREQ (HZ):	35.7	25	35.7
PD (.001"):	0.31	0.5325	0.36
PPA (g):	0.04557	0.03906	0.03255

**Peak Vector Sum:** 0.07 in/s  
**Peak Air Pressure:** 107.9 dB  
 0.0007 psi @ 5.8 HZ

**Shaketable Calibrated**  
**On:** 08/09/2022 (UTC -04:00)  
**By:** Vibra-Tech, Inc.  
 2700 Holloway Road - Suite 113  
 Louisville, KY 40203 U.S.A.

**USBM Safe Blasting Levels**  
 SSN: 11254 Event: 93  
 ● Longitudinal    ▲ Transverse    ■ Vertical

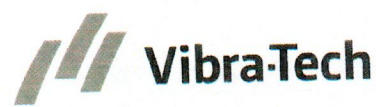
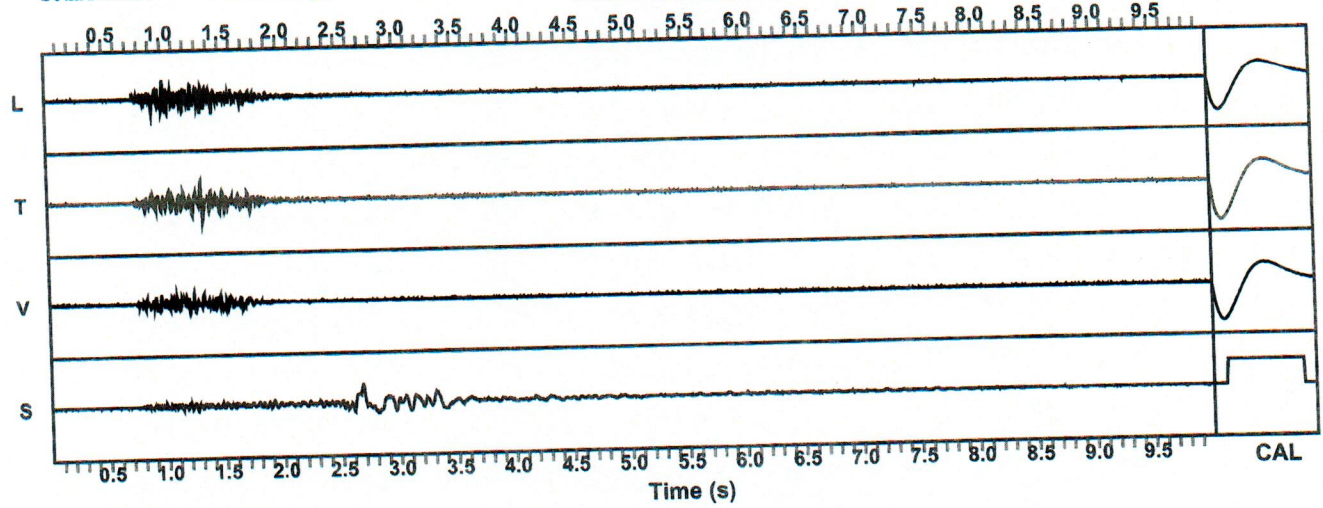


**Waveform Graph Scale**

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

### Velocity Waveform

SSN: 11254 Event: 93





# Seismic Analysis Velocity Waveform Analysis

**Serial Number:** 11248  
**Firmware Version:** 0C-10.29  
**Event Date:** 06/21/2023 11:00:04 (UTC -04:00)  
**Event number:** 27  
**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

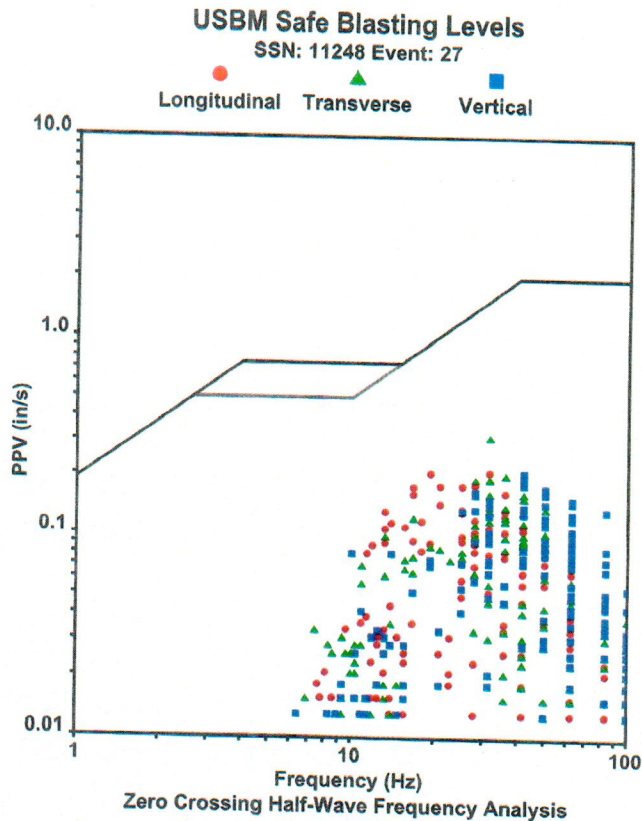
### Summary Data

	L	T	V
PPV (in/s):	0.2	0.305	0.2
FREQ (HZ):	31.3	31.3	41.7
PD (.001"):	1.5	1.623	1.06
PPA (g):	0.1107	0.1562	0.1497

**Peak Vector Sum:** 0.345 in/s  
**Peak Air Pressure:** 106.1 dB  
 0.0006 psi @ 5.2 HZ

### Shaketable Calibrated

**On:** 08/09/2022 (UTC -04:00)  
**By:** Vibra-Tech, Inc.  
 2700 Holloway Road - Suite 113  
 Louisville, KY 40203 U.S.A.

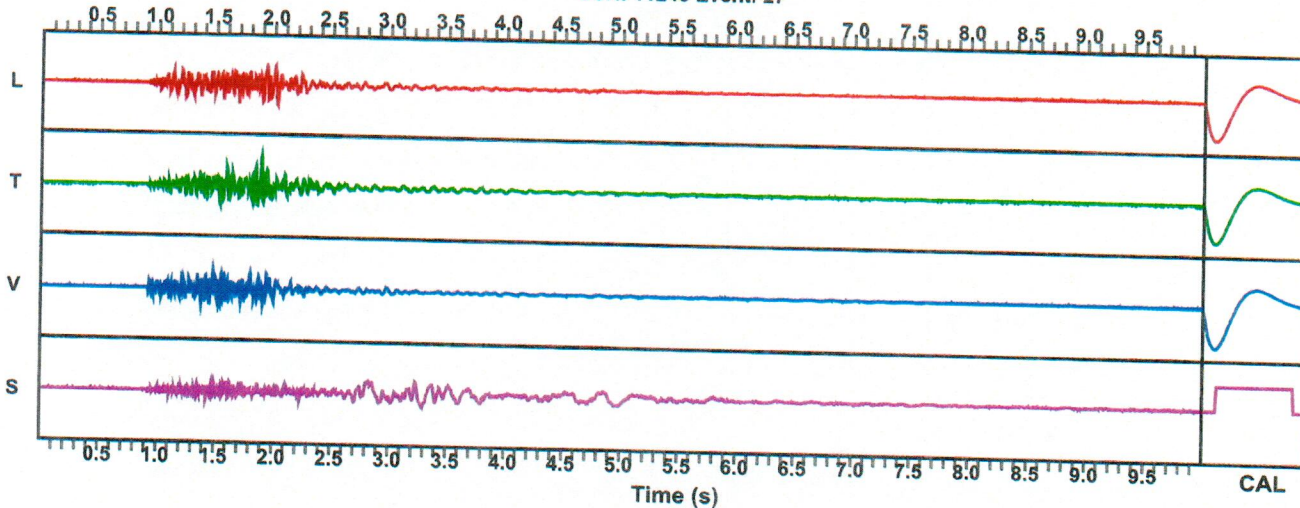


### Waveform Graph Scale

**Time Scale:** 0.1 s  
**Seismic Scale:** +/- 0.4575 in/s  
**Sound Scale:** +/- 0.0023 psi

### Velocity Waveform

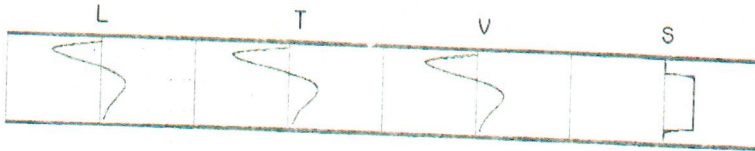
SSN: 11248 Event: 27



GEOSONICS INC

SAFEGUARD SEISMIC UNIT 5500  
SN:5586 (03.85)  
06/28/23 10:03:08

DYNAMIC CALIBRATION CHECK



SHAKETABLE CALIBRATED.. 02/04/23 00:00:00  
BY GeoSonics, Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
724.934.2900, 724.934.2999 (fax)

TRIGGERED SCAN STARTING 06/28/23 10:03:25  
TRIGGERS 120 db, 0.030 in/s ( 5.0 s)

Saved 37 to memory card  
GEOSONICS INC

SAFEGUARD SEISMIC UNIT 5500  
SN:5586 (03.85)  
WAVEFORM REPORT

Date & Time..... 06/28/23 11:00:03  
Event Number..... 37

Client..... tilcon  
Operation..... pompton lakes  
SSU Location..... 120 federal hill  
Distance to Source.. 2321 ft  
Operator..... jonathan esch  
Comments..... maurer & scott  
Additional Note.....

Recording Time..... 5.0 s

Triggers (seismic).. 0.030 in/s  
(sound)..... 120 db

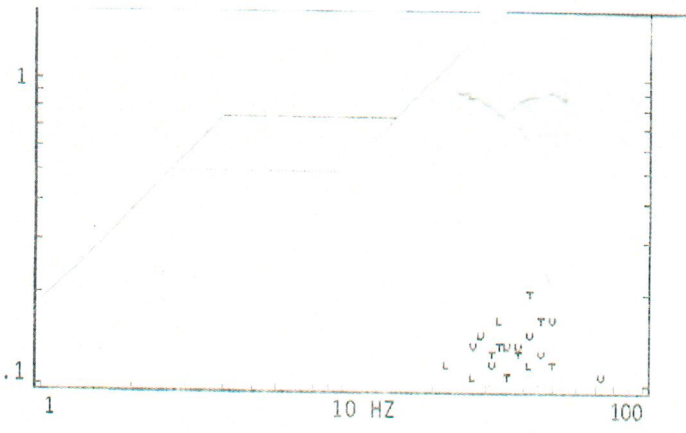
SUMMARY	--L--	--T--	--V--
PPV.....	0.175	0.218	0.173 in/s
PD.....	0.86	0.83	0.85 (.001")
PPA.....	0.130	0.137	0.124 g
FRQ.....	33.3	41.7	50.0 Hz

Resultant PPV..... 0.243 in/s  
Peak Sound..... 107 db  
.0007 psi

OSM/USEM CHART

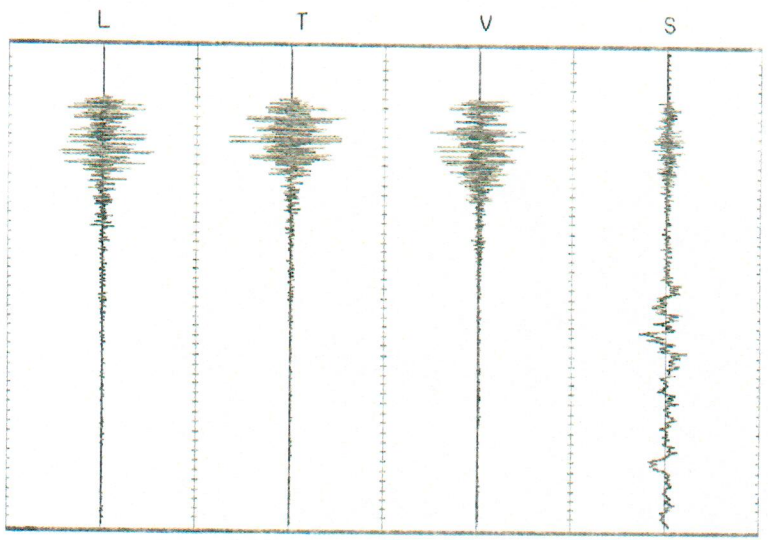




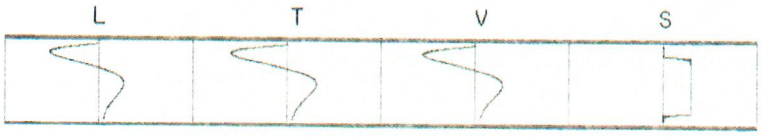


WAVEFORM GRAPH

Data Scale (seismic)... 0.320 in/s  
 Data Scale (air)..... 118 db (.0023 psi)  
 Graph Scale..... 2.5 in  
 Time Scale per mark.... 100 ms



DYNAMIC CALIBRATION CHECK



SHAKETABLE CALIBRATED.. 02/04/23 00:00:00  
 BY GeoSonics, Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 724.934.2900, 724.934.2999 (fax)

Saved 0 to memory card  
 PRN

END OF SCAN - 06/28/23 11:03:13

37 06/28/23 10:03:39  
 38 06/28/23 11:03:00  
 1 event(s) over trigger  
 0.030 in/s 120 db