



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: 10/10/2023

TOTAL PAGES: 10 (Including Cover)

MESSAGE: Monthly explosives use report for Pompton Lakes Quarry

Month of September 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.

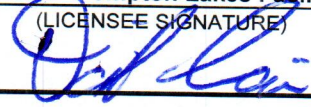
Name <u>Tilcon - Pompton Lakes Facility</u>	Phone No. <u>(973) 835-0028</u>
Street Address <u>Foot of Broad Street</u>	City <u>Pompton Lakes</u>
State <u>NJ</u>	Zip <u>07442</u>

MONTH AND YEAR OF REPORT September 2023	Explosives Lbs.	Detonator (Caps) No.	Gunpowder (Primer)	Other
Beginning Actual Count Inventory First of Month	-	-	-	
Purchases During the Month	86,461	1,021	-	
Total (Item 1 plus Item 2)	86,461	1,021	-	
Blasting Summary	86,461	1,021	-	
Miscellaneous Adjustments	-	-	-	
Month Ending Inventory on Hand by actual Count	-	-	-	
Name of Supplier :	DATE	INV. #		
Maine D&B	9/8/2023	153473	6,766	108
Maurer & Scott	9/12/2023	74284	43,420	141
Maine D&B	9/12/2023	153649	4,280	116
Maurer & Scott	9/15/2023	74351	17,040	206
Maine D&B	9/19/2023	153975	6,433	149
Maine D&B	9/21/2023	154143	4,806	141
Maine D&B	9/26/2023	154384	3,716	160
				-
				-
				-

TOTAL NUMBER OF BLASTS - 7

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

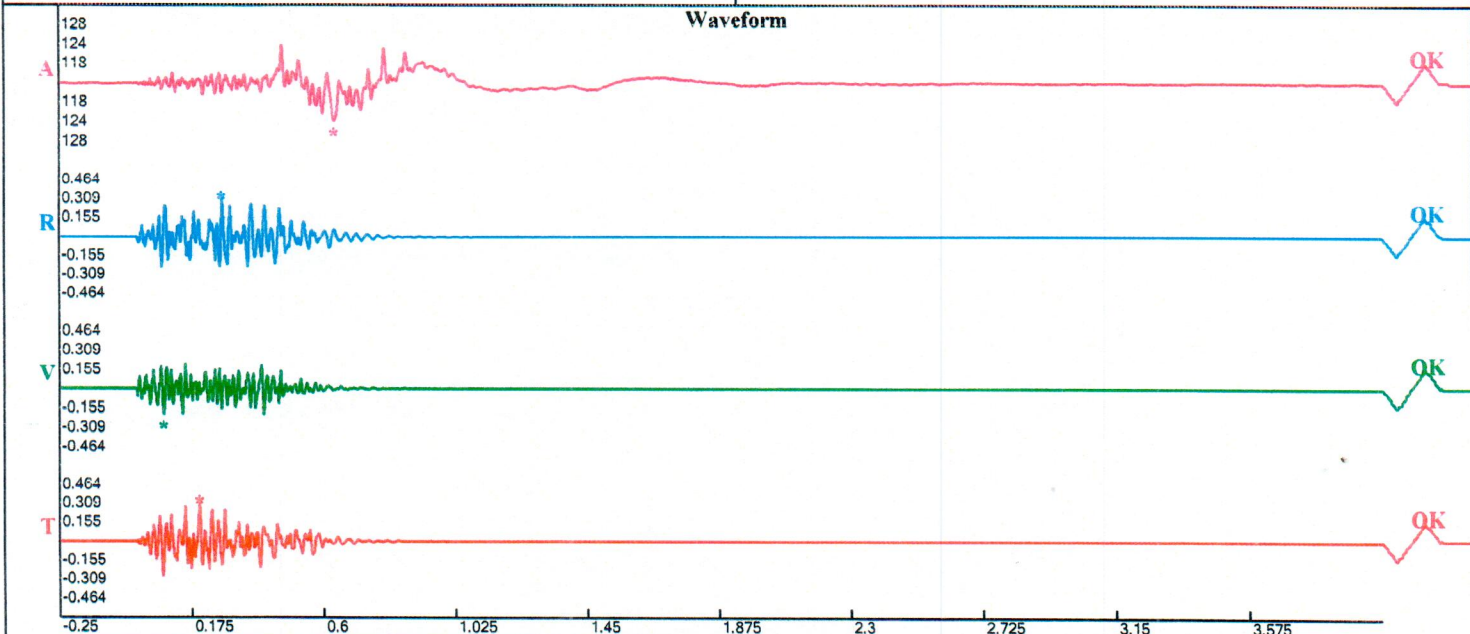
Shots	Date	Time	Site Location	Name of Blaster	Permit #	High Explo. Lbs.	Caps or Det.	Max. lbs. Per Delay	Nearest Structure (Feet)	Seismic PPV and Frequency		Seismic D B Level	Type of Shot (Bank, Trench, Etc.)
										Trans.	Vert.	Long.	
SHOT 90ER-23	9/8	1:00PM	Tilcon Pompton Lakes	John Currier	006140	6,766	108	431	390	PPV: .309	.203	.304	Mass
										HZ: 39.4	52.5	44.5	
SHOT 24-23	9/12	10:30AM	Tilcon Pompton Lakes	Kyle Boyer	6191	43,420	141	708	2,274	PPV: .085	.09	.118	Mass
										HZ: 45.5	20.8	29.4	
SHOT 91ER-23	9/12	1:30PM	Tilcon Pompton Lakes	John Currier	006140	4,280	116	172	270	PPV: .391	.48	.336	Mass
										HZ: 53.9	62.1	33.6	
SHOT 25-23	9/15	10:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	17,040	206	168	1,981	PPV: 0	0	0	Mass
										HZ: 0	0	0	
SHOT 92ER-23	9/19	2:00PM	Tilcon Pompton Lakes	John Currier	006140	6,433	149	298	315	PPV: .758	.805	.518	Mass
										HZ: 39.4	51.2	47.6	
SHOT 93ER-23	9/21	2:00PM	Tilcon Pompton Lakes	John Currier	006140	4,806	141	340	301	PPV: .928	.768	.549	Mass
										HZ: 50.0	53.9	62.1	
SHOT 94ER-23	9/26	1:30PM	Tilcon Pompton Lakes	John Currier	006140	3,716	160	277	293	PPV: .220	.152	.201	Mass
										HZ: 52.5	56.9	44.5	
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
SHOT										PPV:			
										HZ:			
TOTALS						86,461	1,021						

Construction Site
 Road St.
 Supton Lakes, NJ.
 Seismo At-
 Elks Moore
 Cantoli Hall

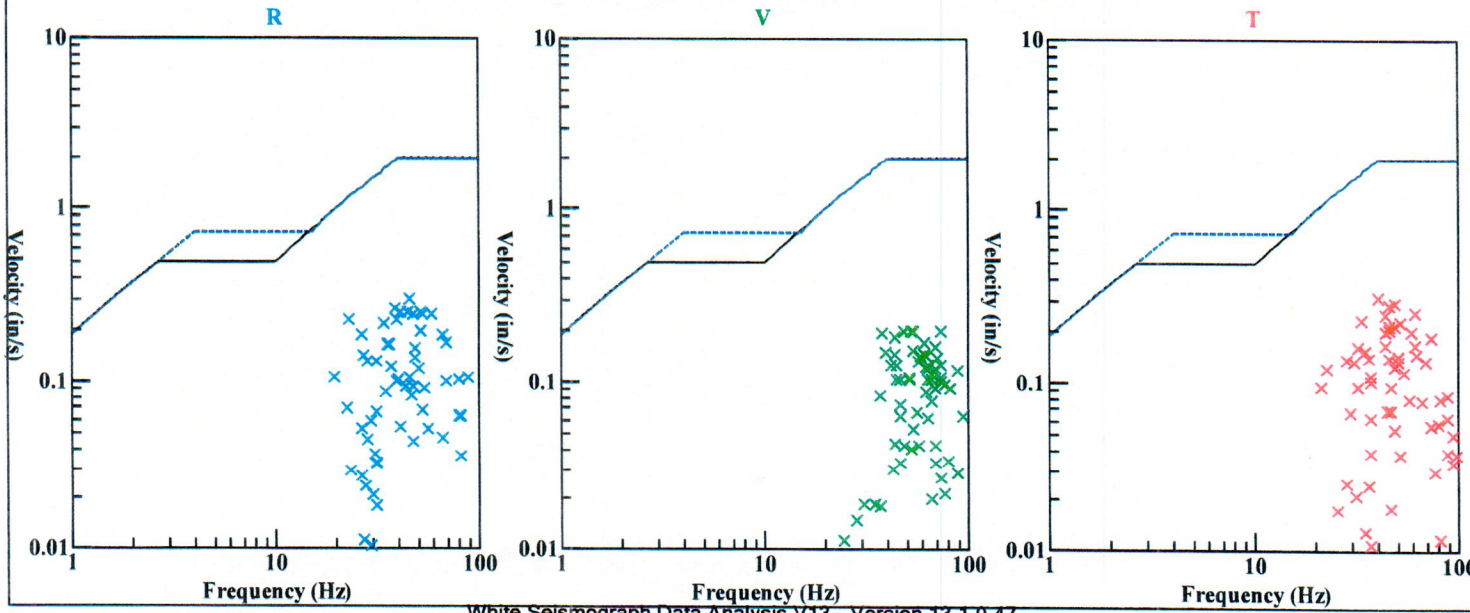
Record: 10064202309081300540005.proevt
 Number: 5
 Seismograph: Mini-Seis III Pro 10064
 Type of Record: Waveform
 Date: 9/8/2023 1:00:54 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 0.055 in/s
 Acoustic Trigger: 120.0 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.57

Peaks and Frequencies
 PPV Maximum (Geo #1): 0.309 in/s
 Acoustic #1: 123.9 dB @ 15.8 Hz (0.6347656 s)
 Radial #1: 0.304 in/s @ 44.5 Hz (0.2736816 s)
 Vertical #1: 0.203 in/s @ 52.5 Hz (0.08520508 s)
 Transverse #1: 0.309 in/s @ 39.4 Hz (0.1992188 s)
 Displacement (Geo #1): 0.00138 in
 Acceleration (Geo #1): 0.306 g's
 Last Calibration Date: 5/15/2023

Graph Information
 Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



GeoSonics Inc. Seismic Analysis

Velocity Waveform Analysis

Serial No: 5720 v3.85
Date: 09/12/2023 10:31:22
Event No: 45
Record Time: 5.0 s
Client: Tilcon
Operation: Pompton Lakes NJ
Location: 120 Federal Hill
Distance: 2274
Operator: G Mayberry
Comment: Maurer & Scott
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db

USBM Safe Blasting Levels

SN: 5720 Event: 45

	Summary Data		
	L	T	V
PPV (in/s)	0.118	0.085	0.090
FREQ (Hz)	29.4	45.5	20.8
PD (.001")	0.86	0.50	0.51
PPA (g)	0.078	0.085	0.065
Peak Vector Sum :	0.123 in/s		
Peak Air Pressure:	109 db		
	0.00100 PSI @ 2.3 Hz		

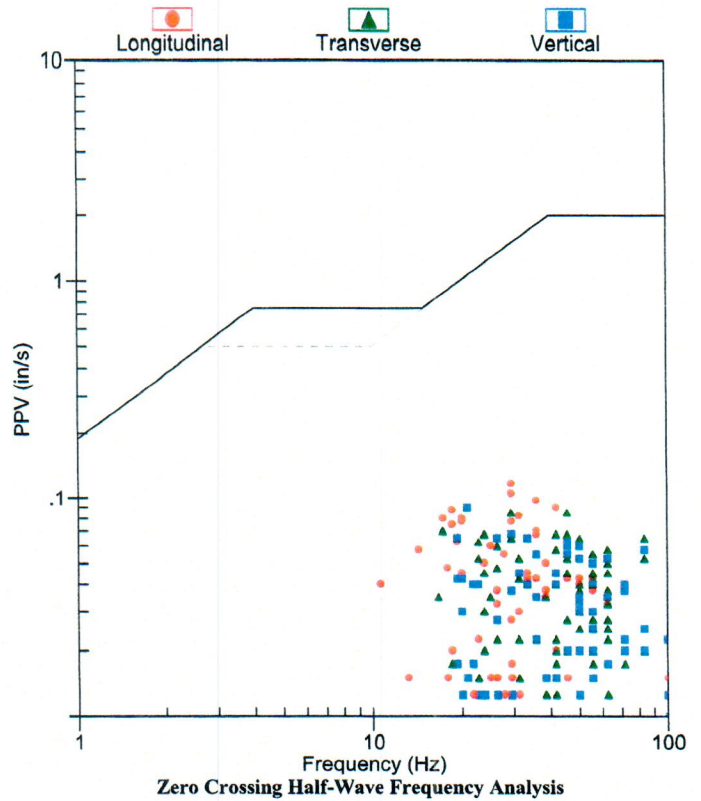
Additional Info:

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

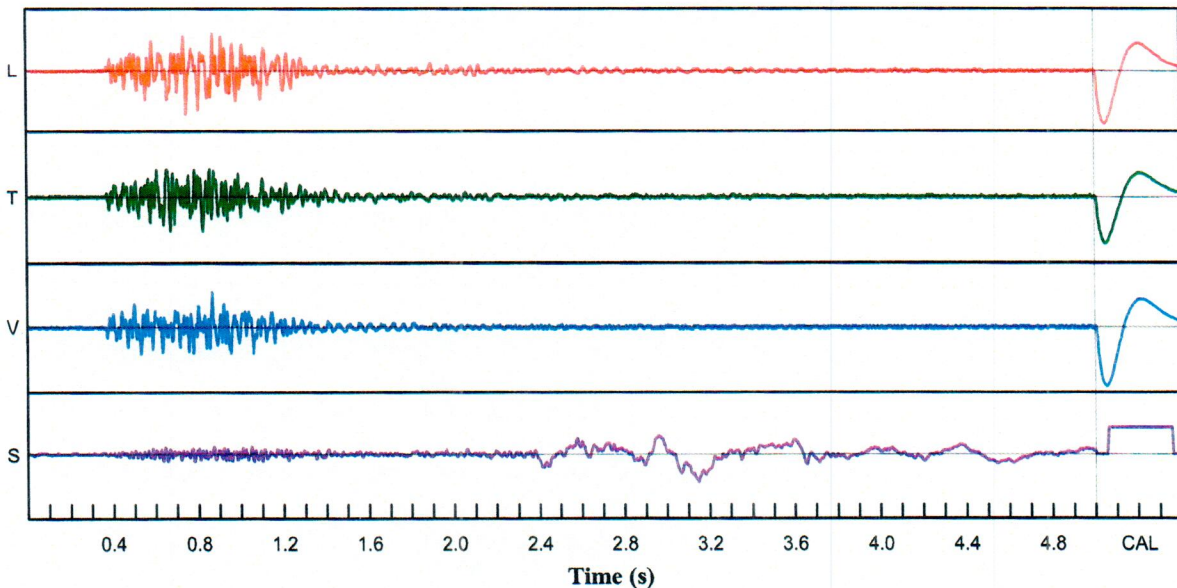
Velocity Waveform Graph Scale

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



Velocity Waveform

SN: 5720 Event: 45



Construction Site
 road St.
 mpton Lakes, NJ.
 smo At-
 ks Moore
 Cantoli Hall

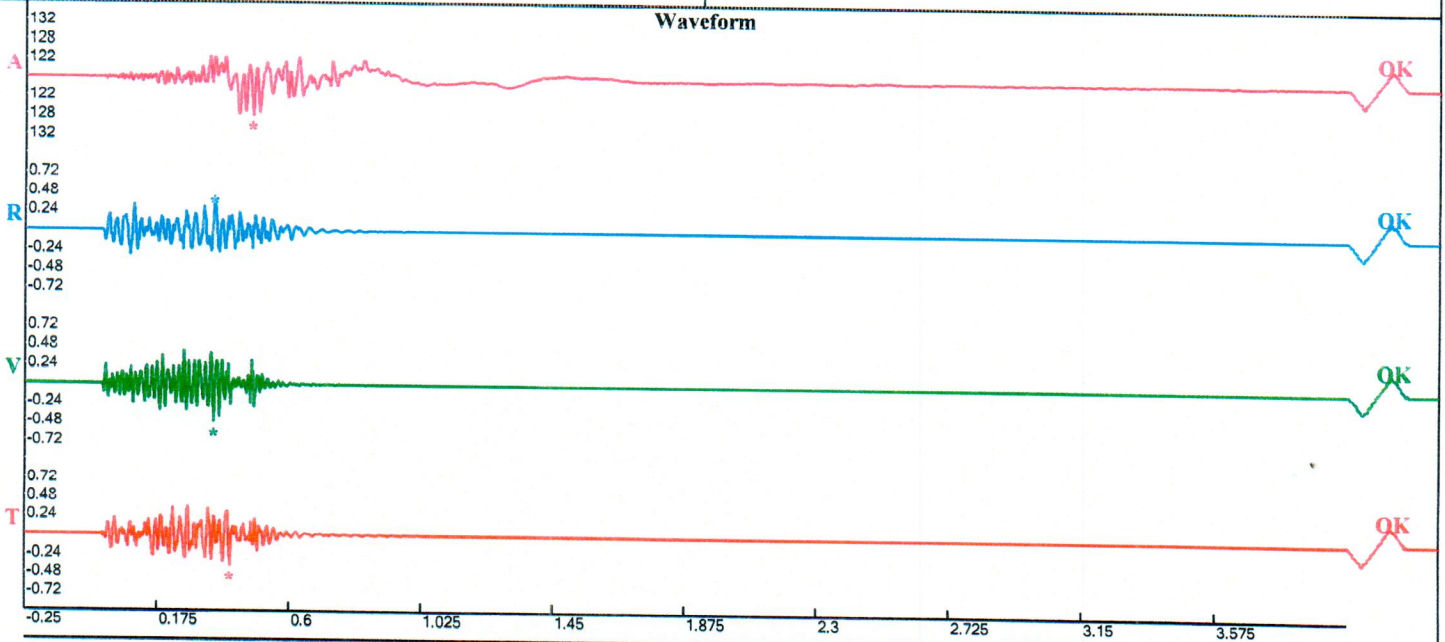
Record: 10064202309121330550006.proevt
 Number: 6
 Seismograph: Mini-Seis III Pro 10064
 Type of Record: Waveform
 Date: 9/12/2023 1:30:55 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 0.055 in/s
 Acoustic Trigger: 120.0 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.52

Peaks and Frequencies

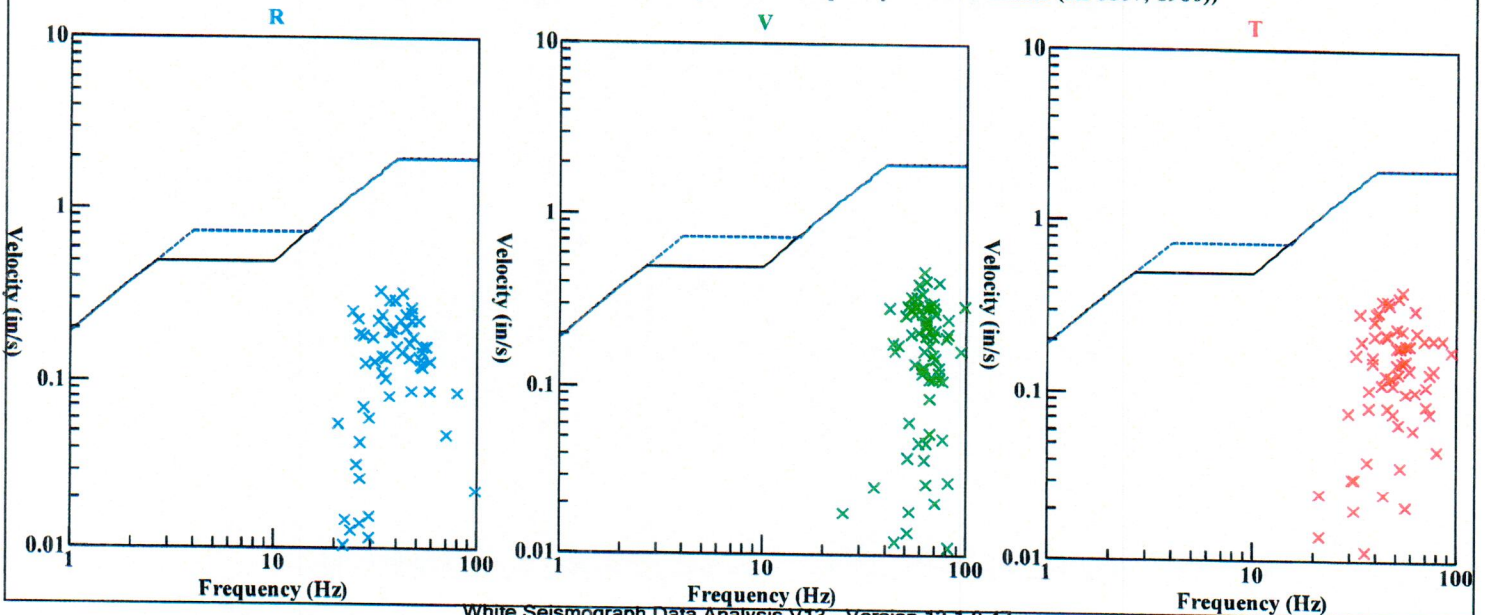
PPV Maximum (Geo #1): 0.48 in/s
 Acoustic #1: 128.7 dB @ 34.7 Hz (0.4799805 s)
 Radial #1: 0.336 in/s @ 33.6 Hz (0.3588867 s)
 Vertical #1: 0.48 in/s @ 62.1 Hz (0.3564453 s)
 Transverse #1: 0.391 in/s @ 53.9 Hz (0.411377 s)
 Displacement (Geo #1): 0.00153 in
 Acceleration (Geo #1): 0.595 g's
 Last Calibration Date: 5/15/2023

Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Summary Data Report

Serial No: 5720 v3.85
Client: Tilcon
Operation: Pompton Lakes NJ
Location: 120 Federal Hill
Distance: 1980
Operator: S Landes
Comment: Maurer & Scott

Begin Date: 09/15/2023 09:43:30
End Date: 09/15/2023 10:03:19
Events over Trigger: 0 (46-45)
Record Time: 5.0 s
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db
Battery Level: 12.8

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

Construction Site
 Road St.
 Supton Lakes, NJ.
 Seismo At-
 Elks Moore
 Cantoli Hall

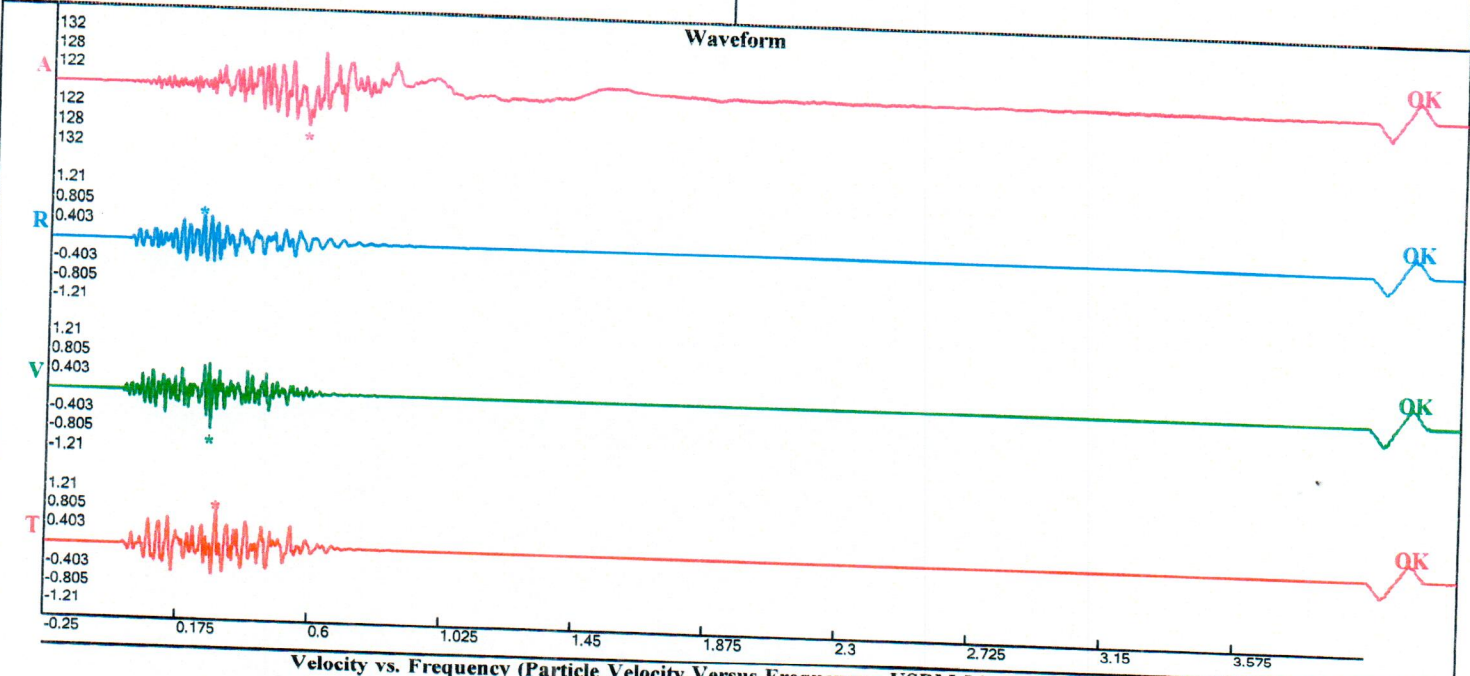
Record: 10064202309191401010010.proevt
 Number: 10
 Seismograph: Mini-Seis III Pro 10064
 Type of Record: Waveform
 Date: 9/19/2023 2:01:01 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 0.055 in/s
 Acoustic Trigger: 120.0 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.43

Peaks and Frequencies

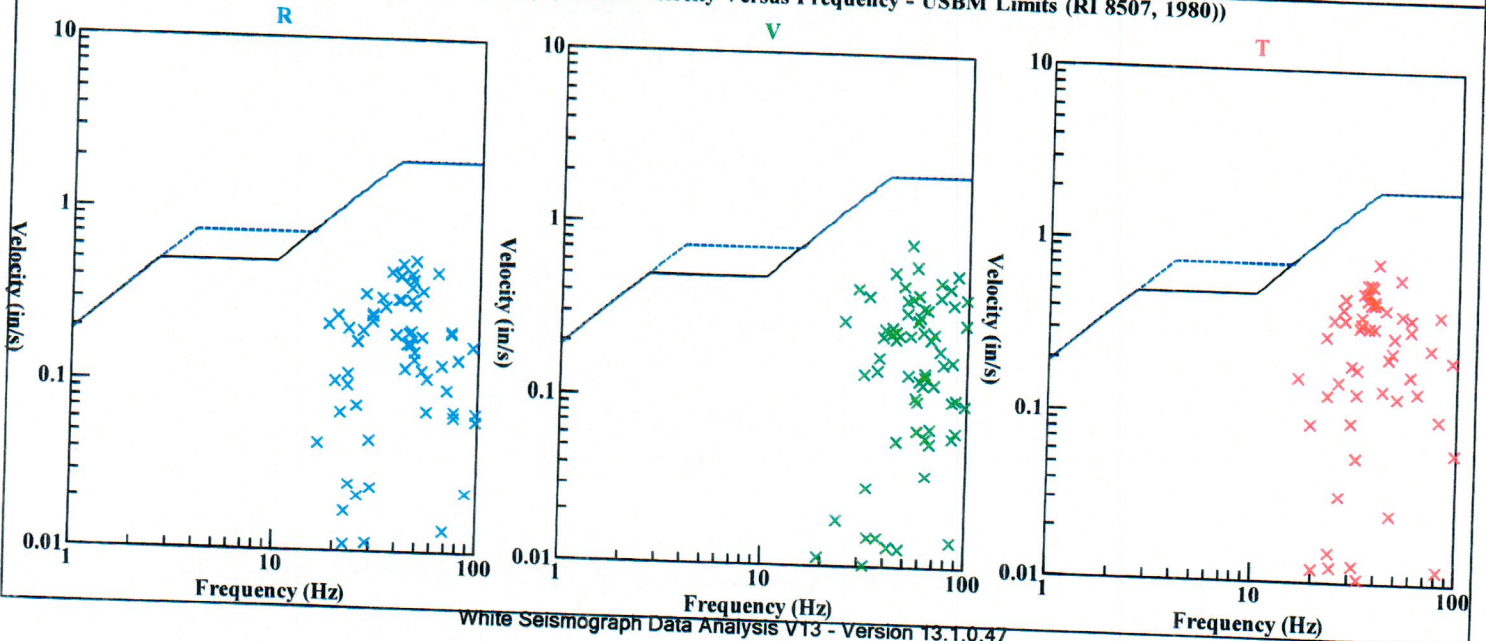
PPV Maximum (Geo #1): 0.805 in/s
 Acoustic #1: 128.4 dB @ 11.1 Hz (0.5710449 s)
 Radial #1: 0.518 in/s @ 47.6 Hz (0.2412109 s)
 Vertical #1: 0.805 in/s @ 51.2 Hz (0.2753906 s)
 Transverse #1: 0.758 in/s @ 39.4 Hz (0.3007813 s)
 Displacement (Geo #1): 0.00365 in
 Acceleration (Geo #1): 1.03 g's
 Last Calibration Date: 5/15/2023

Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Quarry Construction Site
 Road St
 Rutherford Lakes, New Jersey
 Seismo At:
 McPherson Hall

Record: p1301s1e.evt
 Number: 0050
 Seismograph: Mini-Seis III 7964
 Type of Record: Waveform
 Date: 9/21/2023 2:00:33 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 1.33 in/s
 Acoustic Trigger: 116.1 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.35

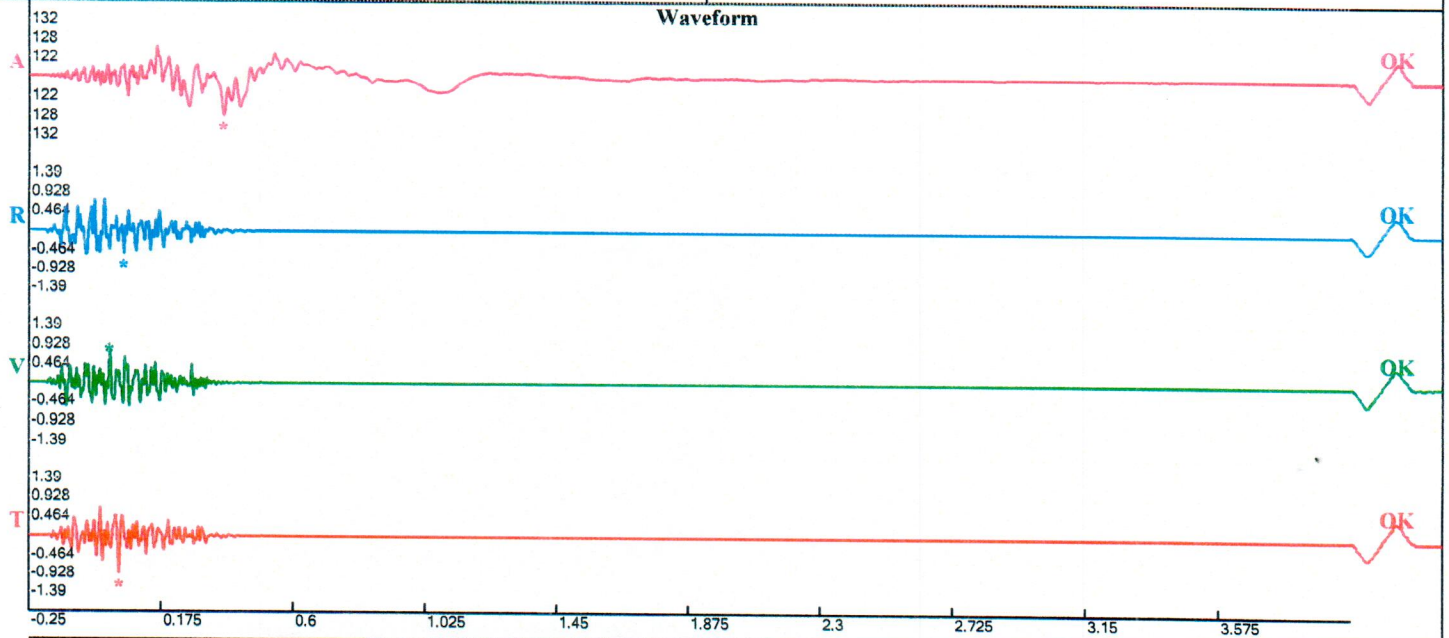
Peaks and Frequencies

PPV Maximum (Geo #1): 0.928 in/s
 Acoustic #1: 127.5 dB @ 4.7 Hz (0.3759766 s)
 Radial #1: 0.549 in/s @ 62.1 Hz (0.0546875 s)
 Vertical #1: 0.768 in/s @ 53.9 Hz (0.01000977 s)
 Transverse #1: 0.928 in/s @ 50.0 Hz (0.03955078 s)
 Displacement (Geo #1): 0.00351 in
 Acceleration (Geo #1): 0.858 g's
 Last Calibration Date: 4/7/2023

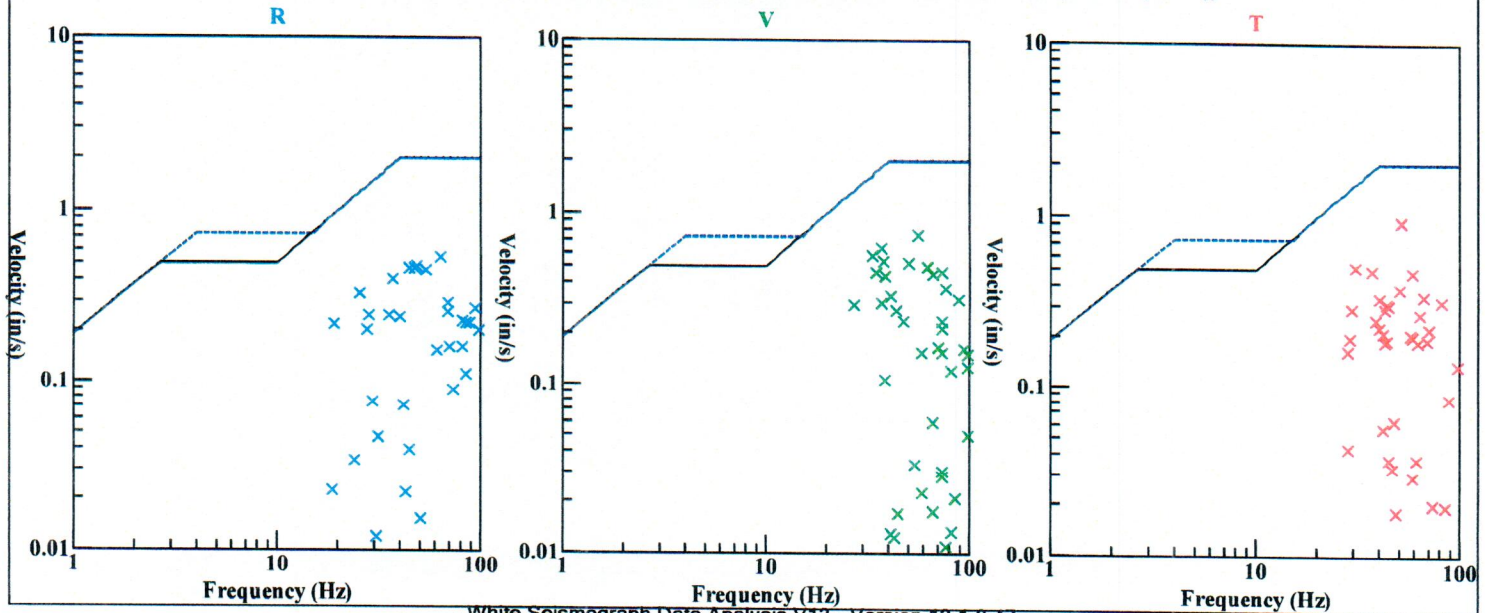
Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds

Waveform



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Quarry Construction Site
 Broad St
 Linton Lakes, New Jersey
 Seismo At:
 McPherson Hall

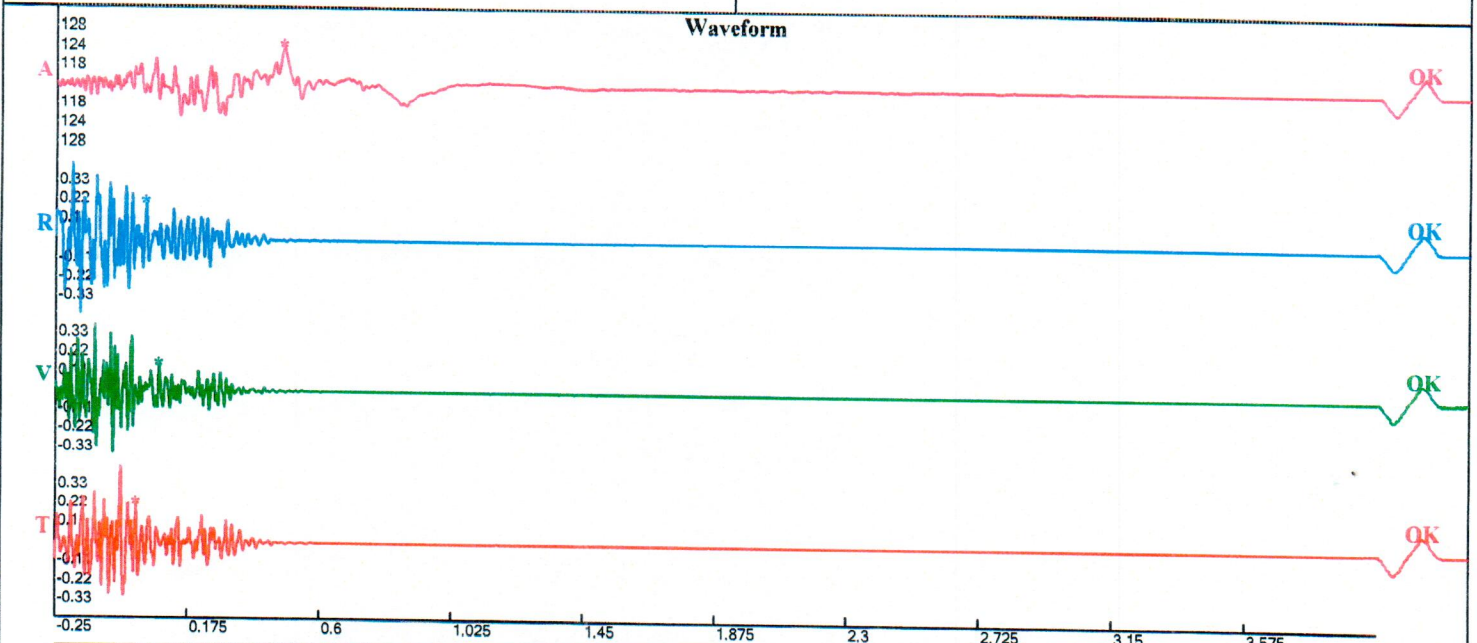
Record: pq2unq1h.evt
 Number: 0053
 Seismograph: Mini-Seis III 7964
 Type of Record: Waveform
 Date: 9/26/2023 1:30:47 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 1.32 in/s
 Acoustic Trigger: 116.1 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.34

Peaks and Frequencies

PPV Maximum (Geo #1): 0.22 in/s
 Acoustic #1: 124.8 dB @ 3.3 Hz (0.4821777 s)
 Radial #1: 0.201 in/s @ 44.5 Hz (0.03881836 s)
 Vertical #1: 0.152 in/s @ 56.9 Hz (0.08251953 s)
 Transverse #1: 0.22 in/s @ 52.5 Hz (0.01049805 s)
 Displacement (Geo #1): 0.00238 in
 Acceleration (Geo #1): 0.56 g's
 Last Calibration Date: 4/7/2023

Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))

