



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: 8 (Including Cover)

MESSAGE: Monthly explosives use report for Pompton Lakes Quarry

Month of July 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 July 2023	Explosives Lbs.	Detonator (Caps) No.	Gunpowder (Primer)	Other
Beginning Actual Count Inventory First of Month	-	-	-	
Purchases During the Month	115,197	680	-	
Total (Item 1 plus Item 2)	115,197	680	-	
Blasting Summary	115,197	680	-	
Miscellaneous Adjustments	-	-	-	
Month Ending Inventory on Hand by actual Count	-	-	-	
Name of Supplier :	DATE	INV. #		
Maurer & Scott	7/10/2023	73200	16,436	80
Maurer & Scott	7/12/2023	73153	51,501	358
Maurer & Scott	7/14/2023	73349	15,420	106
Maurer & Scott	7/21/2023	73476	6,240	66
Maurer & Scott	7/27/2023	73562	25,600	70
				-
				-
				-
				-
				-

TOTAL NUMBER OF BLASTS - 5

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 7/10 11:30AM	7/10	11:30AM	Tilcon Pompton Lakes	Kyle Boyer	6191	16,436	80	498	849	PPV: .15	.095	.185	118.0	Mass
17-23										HZ: 31.3	35.7	35.7		
SHOT 7/12 11:30AM	7/12	11:30AM	Tilcon Pompton Lakes	Kyle Boyer	6191	51,501	358	1,062	2,037	PPV: .07	.045	.063	119.0	Mass
15-23										HZ: 31.3	62.5	27.8		
SHOT 7/14 11:00AM	7/14	11:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	15,420	106	407	2,183	PPV: .045	.043	.035	113.0	Mass
19-23										HZ: 31.3	31.3	50.0		
SHOT 7/21 10:00AM	7/21	10:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	6,240	66	254	2,024	PPV: .04	.025	.032	106.0	Mass
16-23										HZ: 19.2	41.7	25.0		
SHOT 7/27 10:00AM	7/27	10:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	25,600	70	813	2,194	PPV: .193	.165	.208	101.0	Mass
20-23										HZ: 20.8	41.7	22.7		
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
TOTALS						115,197	680							

Seismic Analysis Velocity Waveform Analysis

Serial Number: 11250
Firmware Version: 0C-10.29
Event Date: 07/10/2023 11:30:05 (UTC -04:00)
Event number: 102
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

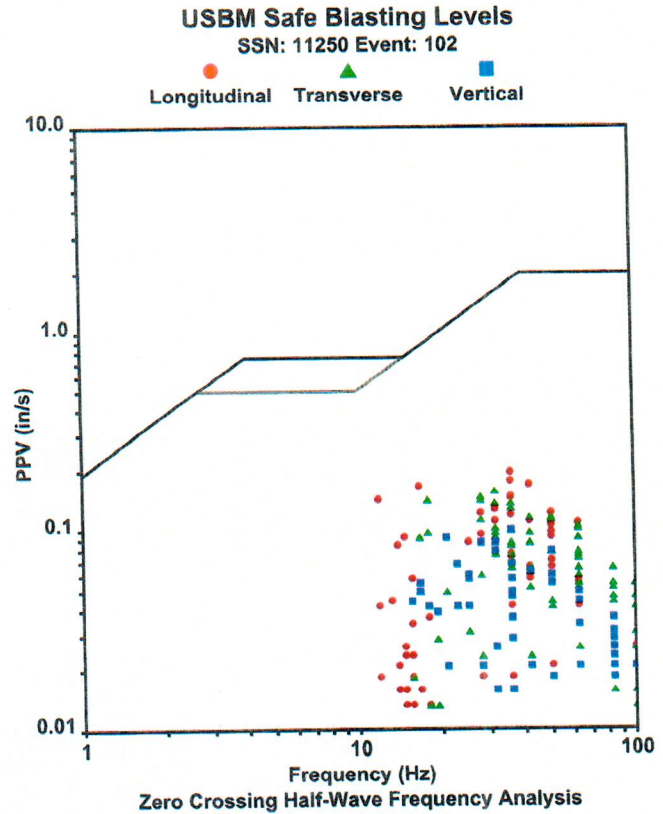
Additional Info:
 j-GEO-17440
 N41 00.667, W074 18.040

Summary Data			
	L	T	V
PPV (in/s):	0.185	0.15	0.095
FREQ (HZ):	35.7	31.3	35.7
PD (.001"):	1.317	1.025	0.605
PPA (g):	0.1367	0.1172	0.0651

Peak Vector Sum: 0.215 in/s
Peak Air Pressure: 118.2 dB
 0.0023 psi @ 10 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.

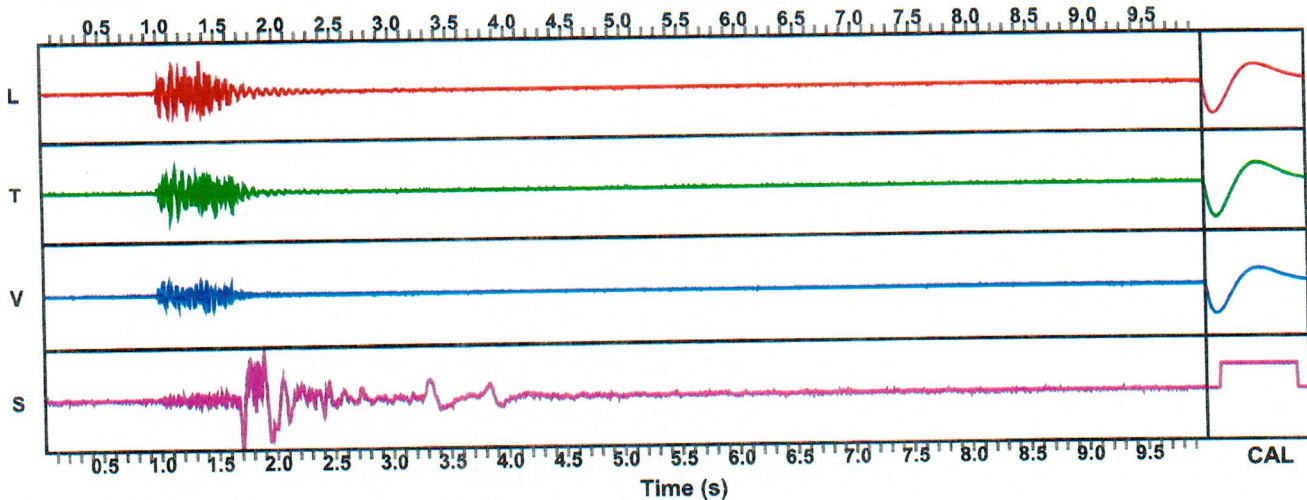


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.2775 in/s
Sound Scale: +/- 0.002598 psi

Velocity Waveform

SSN: 11250 Event: 102



GeoSonics Inc. Seismic Analysis

Velocity Waveform Analysis

Serial No: 5720 v3.85
Date: 07/12/2023 11:30:44
Event No: 35
Record Time: 5.0 s
Client: Tilcon
Operation: Pompton Lakes
Location: 120 Federal Hill Rd
Distance: 2036
Operator: K Boyer
Comment: Maurer & Scott
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db

	Summary Data		
	L	T	V
PPV (in/s)	0.063	0.070	0.045
FREQ (Hz)	27.8	31.3	62.5
PD (.001")	0.38	0.34	0.31
PPA (g)	0.052	0.046	0.059
Peak Vector Sum :	0.085 in/s		
Peak Air Pressure:	119 db		
	0.00288 PSI @ 10.4 Hz		

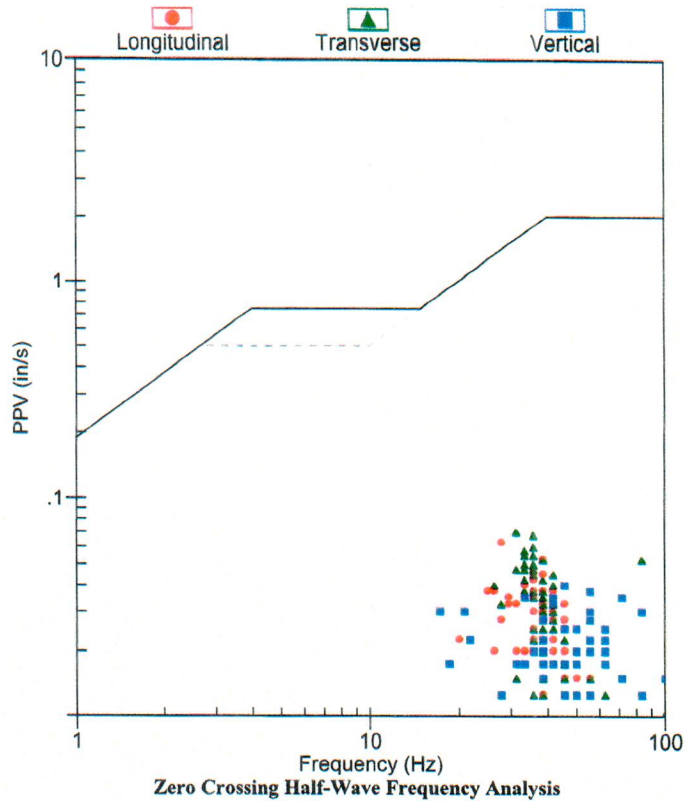
Additional Info:

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: +/- 0.0045 PSI

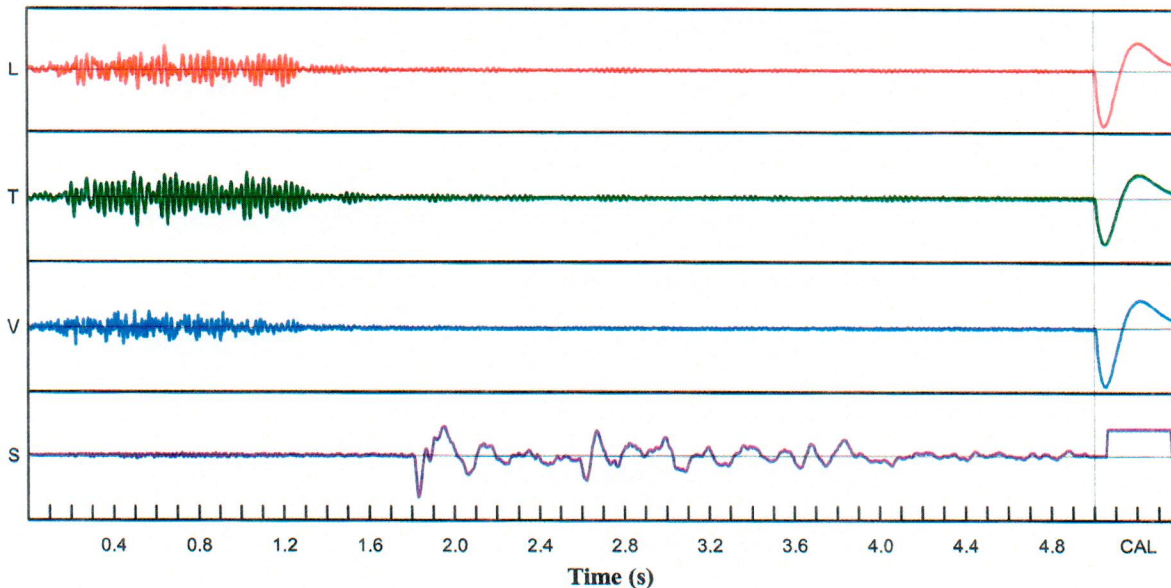
USBM Safe Blasting Levels

SN: 5720 Event: 35



Velocity Waveform

SN: 5720 Event: 35



Seismic Analysis

Velocity Waveform Analysis

Serial Number: 11254
Firmware Version: 0C-10.29
Event Date: 07/14/2023 11:00:01 (UTC -04:00)
Event number: 98
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):	0.045	0.0425	0.035
FREQ (HZ):	31.3	31.3	50
PD (.001"):	0.2725	0.2975	0.2375
PPA (g):	0.03255	0.03255	0.04557

Peak Vector Sum: 0.05 in/s
Peak Air Pressure: 113.4 dB
 0.0013 psi @ 8.9 HZ

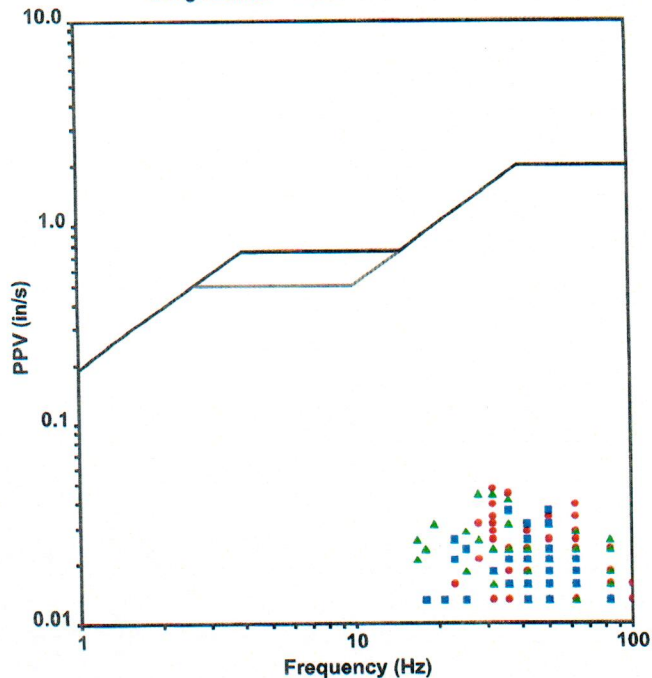
Shaketable Calibrated

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: 98

● Longitudinal ▲ Transverse ■ Vertical



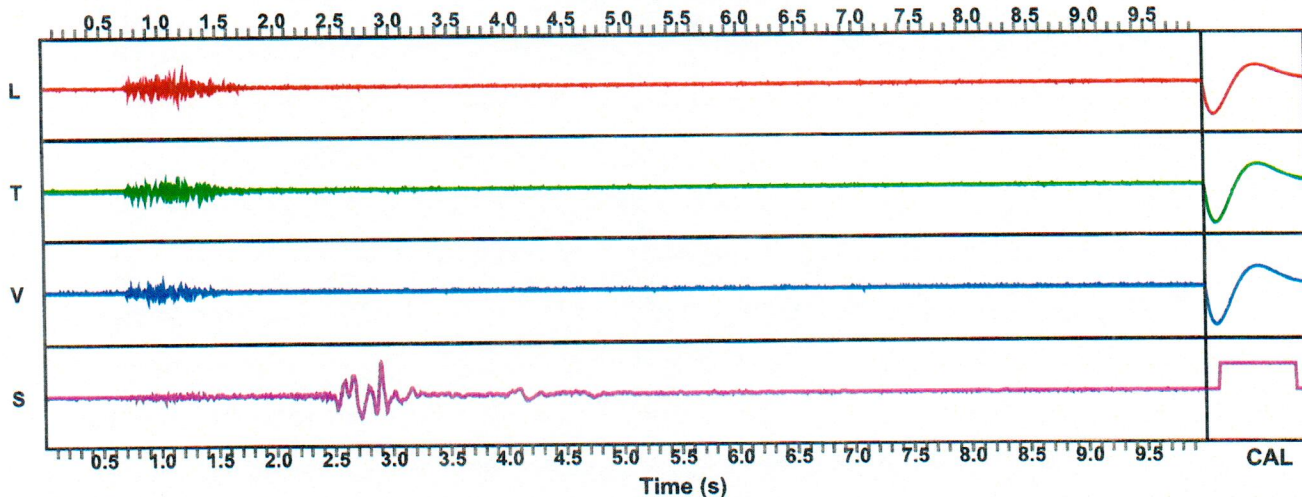
Zero Crossing Half-Wave Frequency Analysis

Waveform Graph Scale

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

Velocity Waveform

SSN: 11254 Event: 98



Seismic Analysis Velocity Waveform Analysis

Serial Number: 11248
Firmware Version: 0C-10.29
Event Date: 07/21/2023 10:00:02 (UTC -04:00)
Event number: 32
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):	0.0325	0.04	0.025
FREQ (HZ):	25	19.2	41.7
PD (.001"):	0.23	0.3625	0.2225
PPA (g):	0.01953	0.01953	0.01953

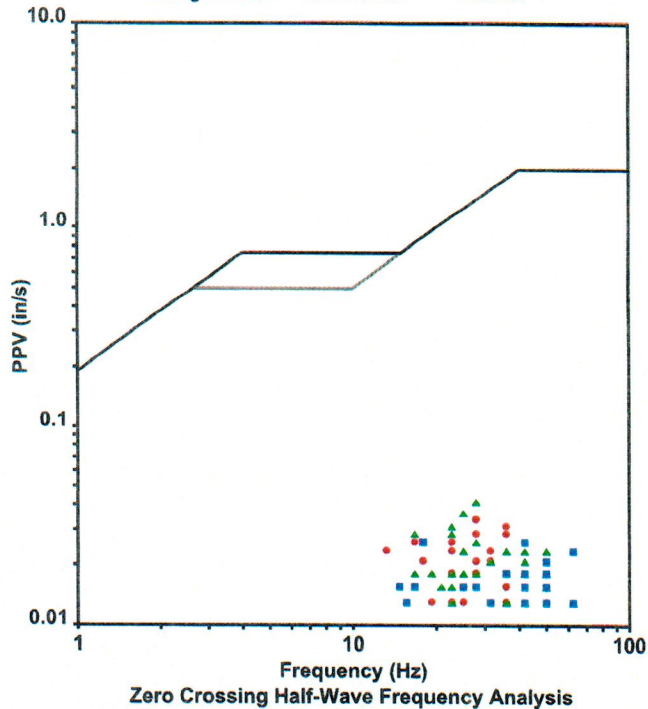
Peak Vector Sum: 0.0425 in/s
Peak Air Pressure: 106.4 dB
 0.0006 psi @ 10.9 HZ

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: 11248 Event: 32

● Longitudinal ▲ Transverse ■ Vertical

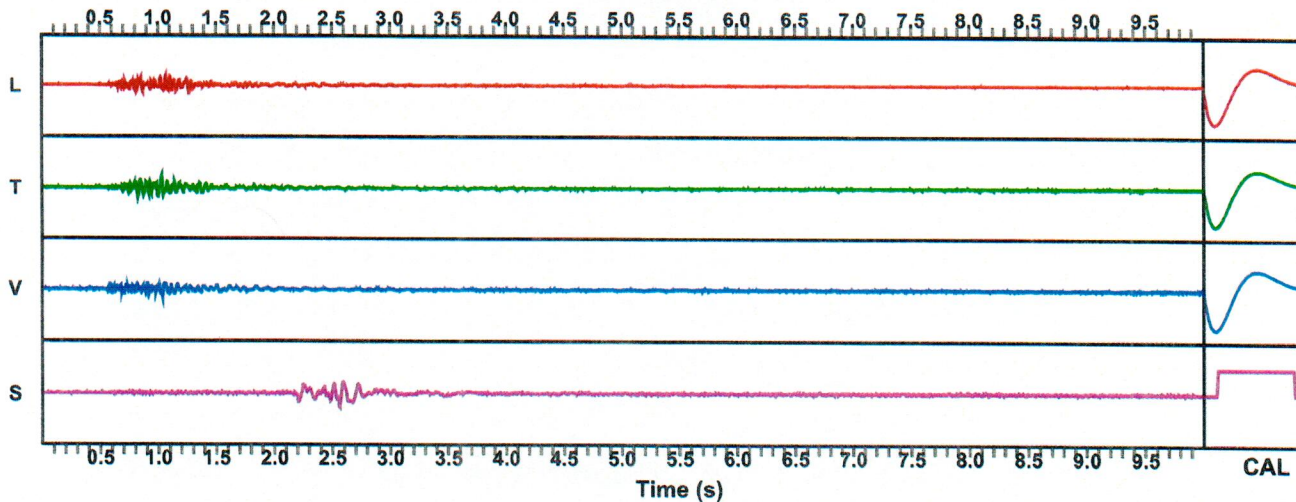


Waveform Graph Scale

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

Velocity Waveform

SSN: 11248 Event: 32



Seismic Analysis Velocity Waveform Analysis

Serial Number: 11248
Firmware Version: 0C-10.29
Event Date: 07/27/2023 10:00:05 (UTC -04:00)
Event number: 33
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: 124 dB

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

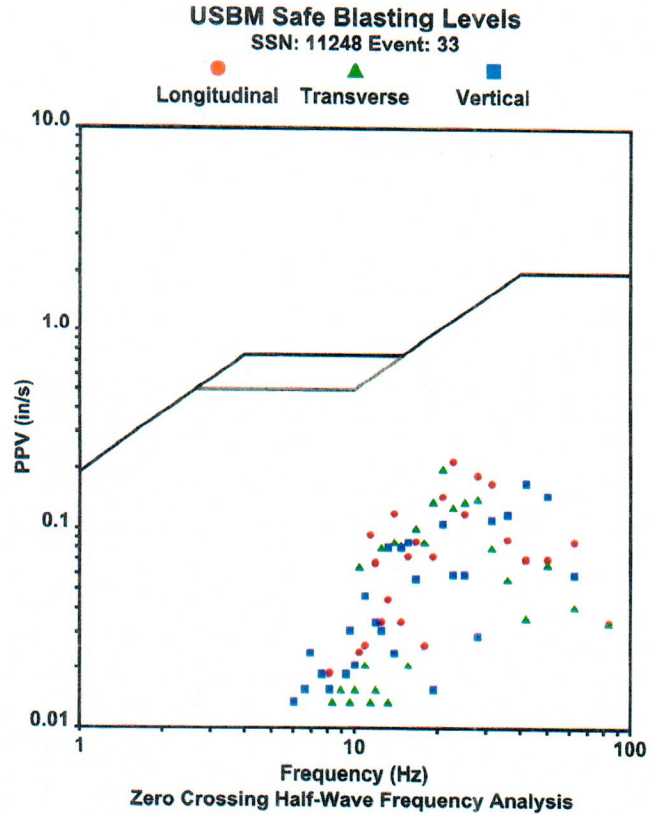
Summary Data

	L	T	V
PPV (in/s):	0.208	0.193	0.165
FREQ (HZ):	22.7	20.8	41.7
PD (.001"):	1.53	1.3	0.96
PPA (g):	0.085	0.078	0.111

Peak Vector Sum: 0.225 in/s
Peak Air Pressure: 101 dB
 0.0003 psi @ 2.9 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: +/- 0.312 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11248 Event: 33

