



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: 9/1/2023

TOTAL PAGES: 7 (Including Cover)

MESSAGE: Monthly explosives use report for Pompton Lakes Quarry
Month of August 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.

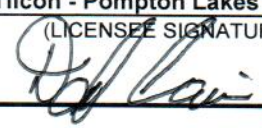
Name <u>Tilcon - Pompton Lakes Facility</u>	Phone No. <u>(973) 835-0028</u>
Street Address <u>Foot of Broad Street</u>	City <u>Pompton Lakes</u>
State <u>NJ</u>	Zip <u>07442</u>

MONTH AND YEAR OF REPORT August 2023	Explosives Lbs.	Detonator (Caps) No.	Gunpowder (Primer)	Other
Beginning Actual Count Inventory First of Month	-	-	-	
Purchases During the Month	148,181	585	-	
Total (Item 1 plus Item 2)	148,181	585	-	
Blasting Summary	148,181	585	-	
Miscellaneous Adjustments	-	-	-	
Month Ending Inventory on Hand by actual Count	-	-	-	
Name of Supplier :	DATE	INV. #		
Maurer & Scott	8/8/2023	73756	12,160	62
Maurer & Scott	8/14/2023	73846	15,920	239
Maurer & Scott	8/23/2023	74007	91,681	214
Maurer & Scott	8/30/2023	74115	28,420	70
				-
				-
				-
				-
				-
				-

TOTAL NUMBER OF BLASTS - 4

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	8/8	10:45AM	Tilcon Pompton Lakes	Jon Esch	003218	12,160	62	482	924	PPV: .135	Vert: .138	Long: .145	120.0	Mass
										HZ: 22.7	27.8	19.2		
SHOT	8/14	11:30AM	Tilcon Pompton Lakes	Jon Esch	003218	15,920	239	162	2,020	PPV: .03	.033	.038	103.0	Mass
										HZ: 27.8	26.3	23.8		
SHOT	8/23	11:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	91,681	214	1,740	1,937	PPV: .287	.217	.35	107.0	Mass
										HZ: 27.8	15.6	25.0		
SHOT	8/30	10:00AM	Tilcon Pompton Lakes	Kyle Boyer	6191	28,420	70	843	2,171	PPV: .28	.152	.182	101.0	Mass
										HZ: 19.2	16.7	13.9		
SHOT										PPV:				
										HZ:				
SHOT										PPV:				
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SHOT										PPV:				
										HZ:				
TOTALS						148,181	585							

Seismic Analysis Velocity Waveform Analysis

Serial Number: 11591
Firmware Version: 0C-10.29
Event Date: 08/08/2023 10:45:05 (UTC -04:00)
Event number: 2
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):	0.145	0.135	0.1375
FREQ (HZ):	19.2	22.7	27.8
PD (.001"):	1.01	1.025	0.6175
PPA (g):	0.0651	0.1172	0.07812

Peak Vector Sum: 0.1875 in/s
Peak Air Pressure: 120.3 dB
 0.003 psi @ 4.1 HZ

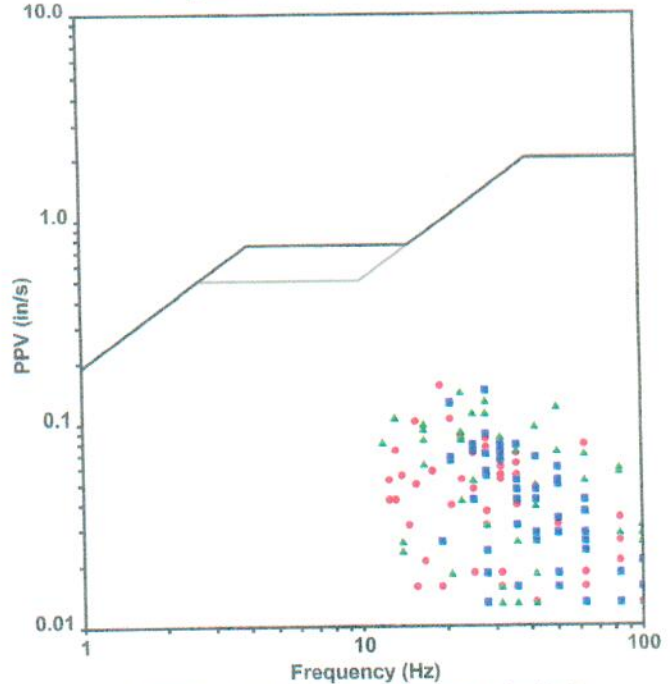
Shaketable Calibrated

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

USBM Safe Blasting Levels

SSN: 11591 Event: 2

● Longitudinal ▲ Transverse ■ Vertical



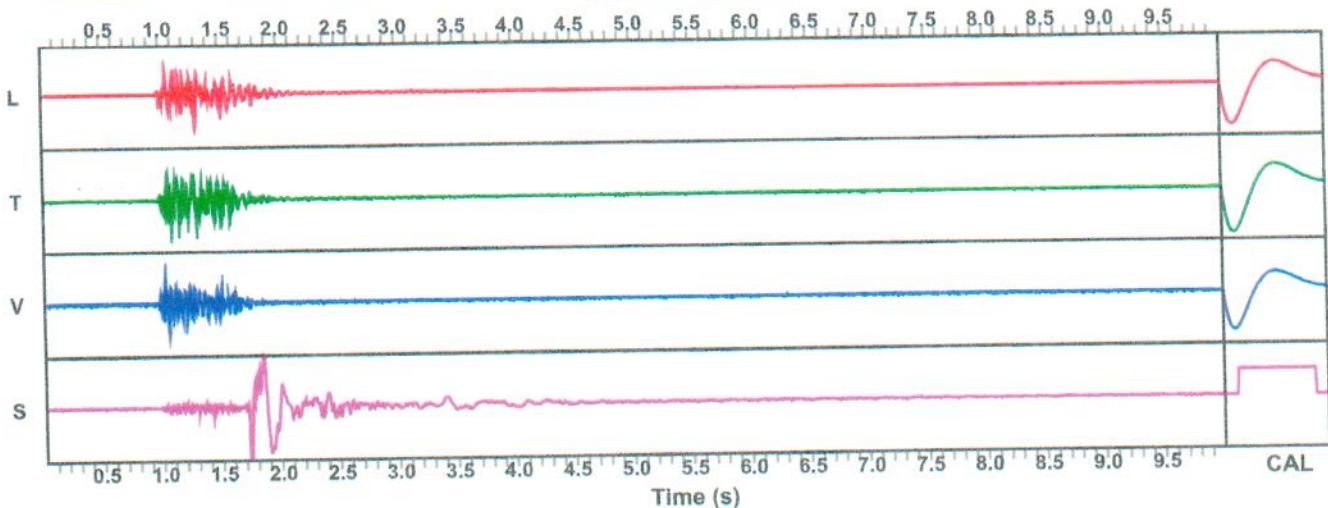
Zero Crossing Half-Wave Frequency Analysis

Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.2175 in/s
Sound Scale: +/- 0.003275 psi

Velocity Waveform

SSN: 11591 Event: 2



GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial Number	5586 v3.85	Tran	Vert		
Event Date	August 14, 2023 12:30:26	PPV (in/s)	0.038	0.030	0.033
Event Number	46	PD (.001")	0.37	0.22	0.17
Recording Time	5.0 s	PPA (g)	0.039	0.033	0.039
Seismic Trigger Level	0.030 in/s	FREQ (Hz)	23.8	27.8	26.3
Sound Trigger Level	120 db	Peak Vector Sum	0.043 in/s		
Sample Rate	1000 samples/second				

Notes
 Client: tilcon
 Location: pompton lakes
 User: charles giesler
 Seis Location: 120 federal hill
 Distance:
 Comment: maurer & scott

Microphone N/A
PSPL 103 db
 0.00048 psi

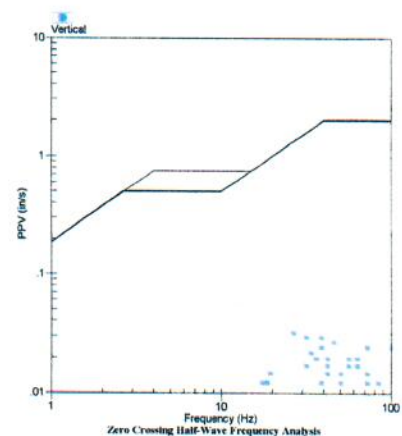
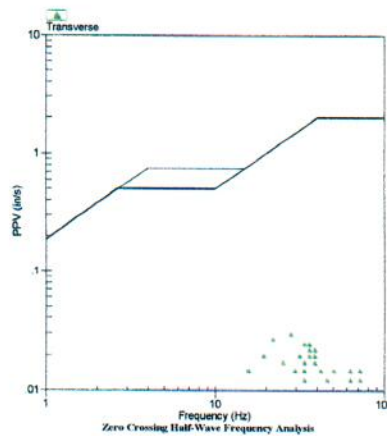
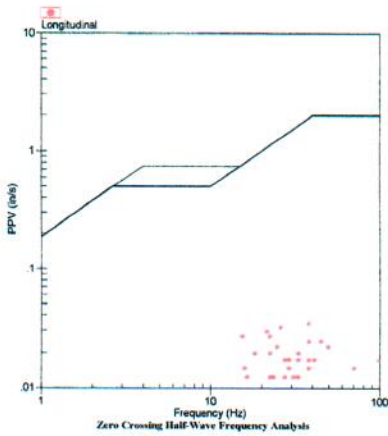
Additional Notes

Dynamic Geo Cal
Calibration
Battery Level



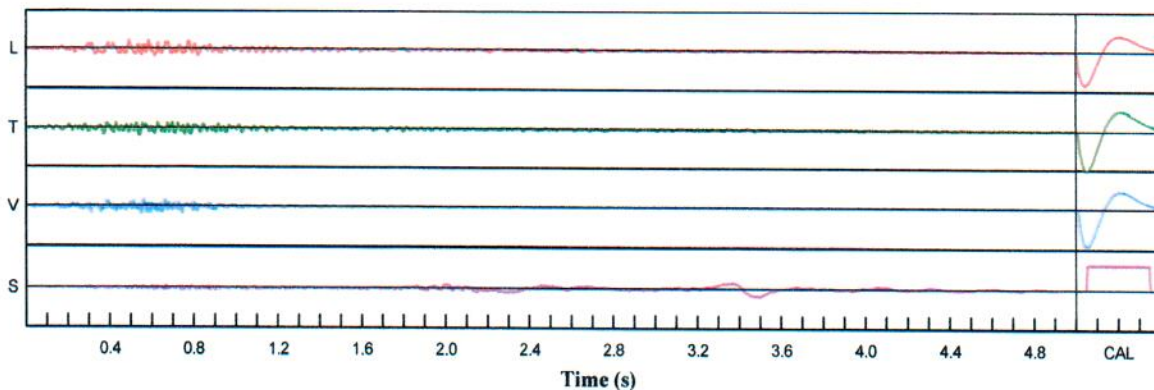
February 4, 2023 By GeoSonics Inc.
 13

USBM Safe Blasting Levels



Velocity Waveform

SN: 5586 Event: 46



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

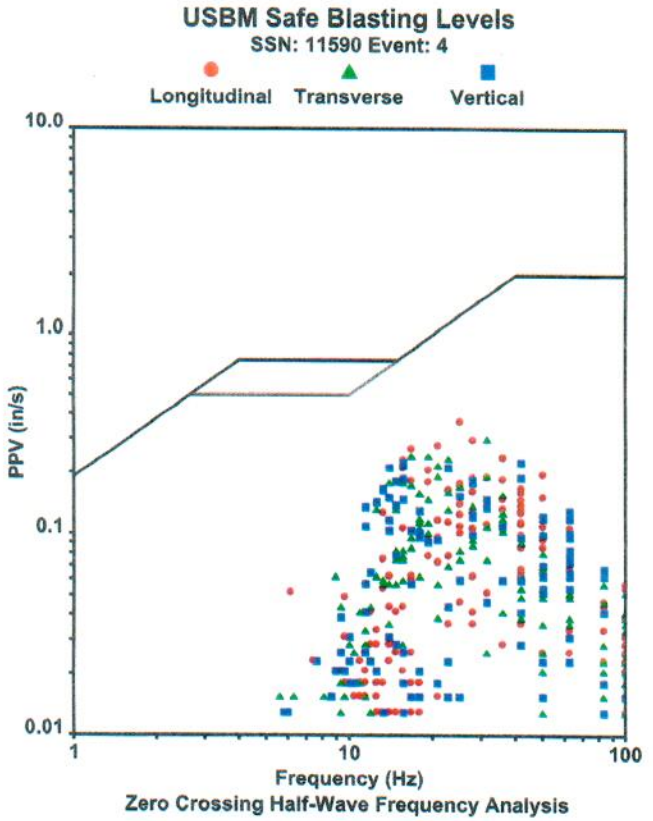
Serial Number: 11590
Firmware Version: 0C-10.29
Event Date: 08/23/2023 11:30:05 (UTC -04:00)
Event number: 4
Recording Time: 10 s
Client: Tilcon NJ
Operation: Pompton Lakes Quarry
Location: 211 Hamburg Turnpike
Distance:
Operator: Vibra-Tech Engineers
Comment: 150
Seismic Trigger: 0.03 in/s
Sound Trigger: 123.5 dB

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

Summary Data			
	L	T	V
PPV (in/s):	0.35	0.2875	0.2175
FREQ (HZ):	25	27.8	15.6
PD (.001"):	2.19	2.067	1.923
PPA (g):	0.2018	0.1432	0.1888

Peak Vector Sum: 0.365 in/s
Peak Air Pressure: 107.9 dB
 0.0007 psi @ 4 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.

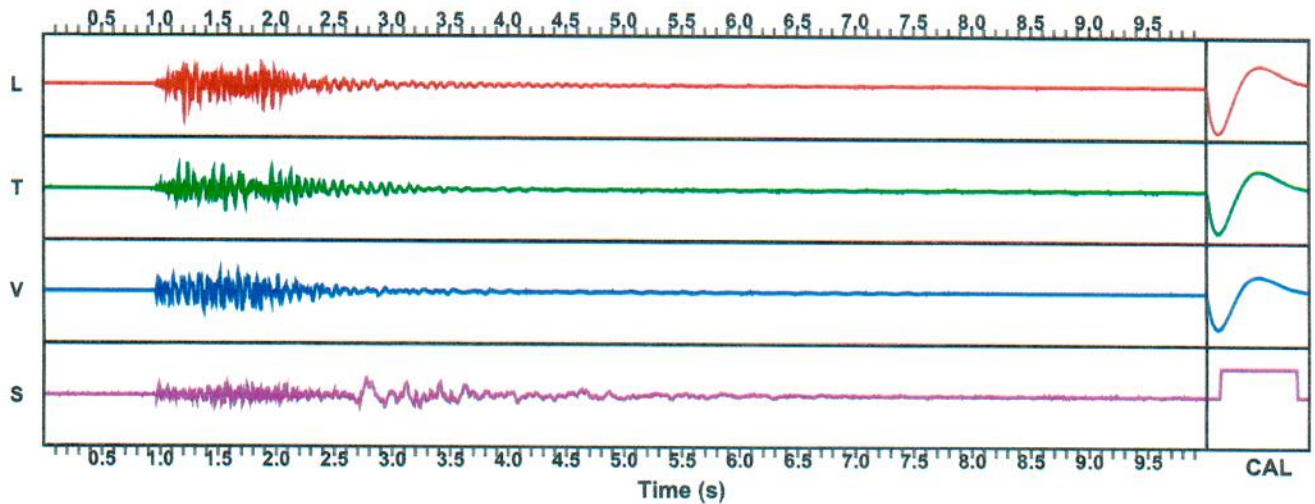


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.525 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11590 Event: 4



Seismic Analysis Velocity Waveform Analysis

Serial Number: 11590
Firmware Version: 0C-10.29
Event Date: 08/30/2023 10:33:07 (UTC -04:00)
Event number: 5
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

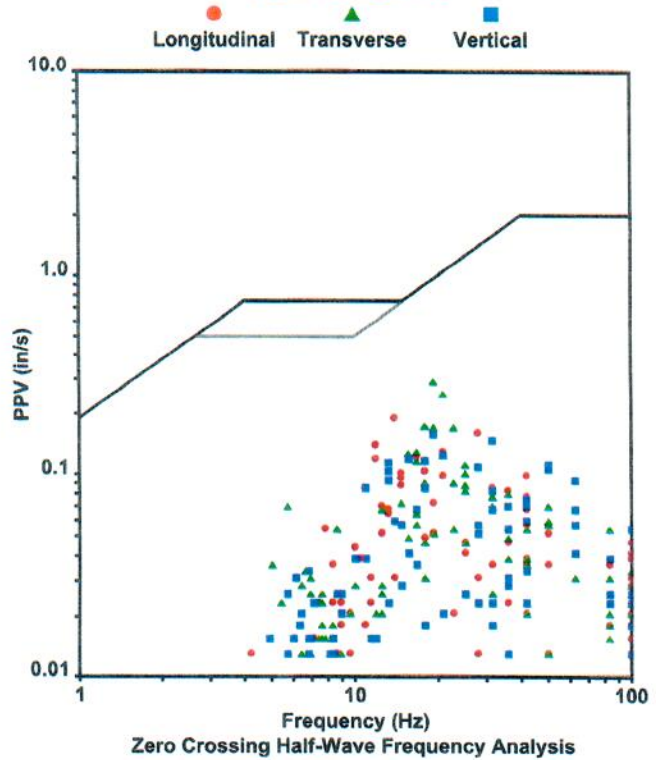
	L	T	V
PPV (in/s):	0.1825	0.28	0.1525
FREQ (HZ):	13.9	19.2	16.7
PD (.001"):	1.77	2.118	1.288
PPA (g):	0.09766	0.09115	0.1237

Peak Vector Sum: 0.285 in/s
Peak Air Pressure: 101 dB
 0.0003 psi @ 5.7 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.

USBM Safe Blasting Levels SSN: 11590 Event: 5



Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.42 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11590 Event: 5

