Seismic Analysis

Velocity Waveform Analysis

Serial Number: 7438
Firmware Version: 0C-06.01
Event Date: 10/07/2015 11:33:05 (UTC -07:00)
Event number: 14
Recording Time: 5 s
Client: COUNTY OF MARIN
Operation: SAN RAFAEL ROCK QUARRY
Location: 16 MARIN BAY PARK CT.
Distance:
Operator: VIBRA-TECH IP2
Comment: WILLIAM HOSKEN RES.
Seismic Trigger: 0.03 in/s
Sound Trigger: OFF
Additional Info:

Summary Data

<table>
<thead>
<tr>
<th></th>
<th>L</th>
<th>T</th>
<th>V</th>
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</thead>
<tbody>
<tr>
<td>PPV (in/s):</td>
<td>0.0525</td>
<td>0.0525</td>
<td>0.06</td>
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<tr>
<td>FREQ (HZ):</td>
<td>38.5</td>
<td>31.3</td>
<td>31.3</td>
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<tr>
<td>PD (.001&quot;):</td>
<td>0.3775</td>
<td>0.3825</td>
<td>0.5625</td>
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<tr>
<td>PPA (g):</td>
<td>0.03255</td>
<td>0.03255</td>
<td>0.05208</td>
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Peak Vector Sum: 0.0725 in/s
Peak Air Pressure: 110.4 dB
0.0009802 psi @ 1.6 HZ

Shakable Calibrated
On: 01/15/2015 (UTC -07:00)
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels

SSN: 7438 Event: 14

Waveform Graph Scale

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

Velocity Waveform

SSN: 7438 Event: 14
Serial Number: 7543
Firmware Version: 0C-06.01
Event Date: 10/07/2015 11:33:04 (UTC -07:00)
Event number: 18
Recording Time: 5 s
Client: COUNTY OF MARIN
Operation: SAN RAFAEL ROCK QUARRY
Location: ON QUARRY PROPERTY
Distance:
Operator: VIBRA-TECH IP2
Comment:
Seismic Trigger: 0.03 in/s
Sound Trigger: OFF
Additional Info:

Summary Data

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<td>PPV (in/s):</td>
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<td>0.075</td>
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<td>FREQ (HZ):</td>
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<td>PD (.001&quot;):</td>
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<td>PPA (g):</td>
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Peak Vector Sum: 0.1575 in/s
Peak Air Pressure: 111.6 dB
0.001176 psi @ 2.4 HZ

Shaketable Calibrated
On: 01/15/2015 (UTC -07:00)
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels

Zero Crossing Half-Wave Frequency Analysis

Velocity Waveform

Waveform Graph Scale
Time Scale: 0.1 s
Seismic Scale: +/- 0.225 in/s
Sound Scale: +/- 0.0023 psi