Serial Number: 9583
Firmware Version: 0C-06.05
Event Date: 07/30/2018 11:31:27 (UTC -07:00)
Event number: 9
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: j-GEO-01253
N37 59.481, W122 27.256

**Summary Data**

<table>
<thead>
<tr>
<th></th>
<th>L</th>
<th>T</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPV (in/s):</td>
<td>0.085</td>
<td>0.048</td>
<td>0.068</td>
</tr>
<tr>
<td>FREQ (HZ):</td>
<td>50</td>
<td>50</td>
<td>45.5</td>
</tr>
<tr>
<td>PD (.001&quot;)</td>
<td>0.42</td>
<td>0.28</td>
<td>0.34</td>
</tr>
<tr>
<td>PPA (g):</td>
<td>0.085</td>
<td>0.046</td>
<td>0.065</td>
</tr>
</tbody>
</table>

Peak Vector Sum: 0.09 in/s
Peak Air Pressure: 110 dB
Shaketable Calibrated:
On: 11/30/2017 (UTC -07:00)
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

**USBM Safe Blasting Levels**

<table>
<thead>
<tr>
<th></th>
<th>Longitudinal</th>
<th>Transverse</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSN: 9583 Event: 9</td>
<td>●</td>
<td>▲</td>
<td>■</td>
</tr>
</tbody>
</table>

**Waveform Graph Scale**

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

**Velocity Waveform**

SSN: 9583 Event: 9
Seismic Analysis
Velocity Waveform Analysis

Serial Number: 10635
Firmware Version: 0C-06.05
Event Date: 07/30/2018 11:31:28 (UTC -07:00)
Event number: 7
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:

<table>
<thead>
<tr>
<th>SSN: 10635 Event: 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
</tr>
<tr>
<td>T</td>
</tr>
<tr>
<td>V</td>
</tr>
</tbody>
</table>

PPV (in/s): 0.033 0.028 0.03
FREQ (HZ): 25 33.3 33.3
PD (.001°): 0.27 0.2 0.22
PPA (g): 0.026 0.02 0.026

Peak Vector Sum: 0.04 in/s
Peak Air Pressure: 108 dB
Peak Air Pressure: 0.0007 psi @ 1.6 HZ

Waveform Graph Scale

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

USBM Safe Blasting Levels

Zero Crossing Half-Wave Frequency Analysis

Velocity Waveform

SSN: 10635 Event: 7

Printed: July 30, 2018 File: 0000128533_201807.g3k (GeoSonic Inc. PDFGenerator v 1.0)