BULLETIN

News from SubTerra, Inc.®

Blasting Analysis at Mats Mats Quarry Port Ludlow, Washington

Mats Mats Quarry, near Port Ludlow, Washington, is one of the largest rock quarries in Jefferson County. Operations began during the 1930's; since then, many residences have been built in close proximity to the quarry, prompting the current owner to contract **SubTerra, Inc.** for an independent review of the quarry's blasting operations.

SubTerra undertook an evaluation of current blasting practices at Mats Mats Quarry. This involved examining existing blast vibration records and reports, and conducting a blasting and vibration study that focused on:

- The potential for possible flyrock hazards and mitigation recommendations, as needed;
- Effects on local residents, their homes, and other structures;
- Possible effects on fish and wildlife:
- Blast related noise and ground vibration.

Based on the study, *SubTerra* offered a number of technical recommendations. Among these were the following:

 Continued monitoring by quarry personnel of all blasts at the site boundaries and at locations close to residences and other structures.



- Appropriate precautionary measures when lifters (sub-horizontal blastholes for trimming horizontal surfaces) are used.
- Precautions such as blast mats (to minimize fly-rock) for certain blast configurations.
- d. A safety threshold for peak particle velocities due to the proximity of residential homes.

In addition, *SubTerra* suggested that quarry representatives actively participate in open houses and community meetings.

Restructuring of current blasting practices as suggested by *SubTerra*, along with the recommended increased community involvement, has positively influenced the Mats Mats Quarry operation.