

BULLETIN

News from *SubTerra, Inc.*[®]

Tieton Dam-Tieton Hydroelectric Project Yakima, Washington

*As part of a plan to provide reliable and renewable hydroelectric energy to Benton REA members in the White Pass area in Central Washington, Tieton Hydropower, LLC contracted Mountain States Construction (MSC) to construct a power station at Tieton Dam. Before MSC could start work on the power station they had to remove bedrock from a portion of the area where part of the new foundation would beconstructed, so they contracted Wallace Technical Blasting (WTB) to drill and blast the bedrock and **SubTerra, Inc.** to provide blast planning and monitoring.*



Tieton Dam originally completed in 1925, creating Rimrock Reservoir, is an earth-filled storage dam with a concrete core wall located 40 miles west of Yakima off Hwy 12. This dam, on the Tieton River, was originally constructed to provide Central Washington's Yakima Valley with a reliable irrigation water source.

SubTerra's scope of work included the following:

- ◆ Create and provide an operational blasting plan for the project;

- ◆ Conduct pre-blast surveys to provide photographic and written documentation to accurately portray the condition of all dam structures in the vicinity of the blast;
- ◆ Deploy seismic monitors to record levels of blast induced ground vibration and air-blast during all blast events;



- ◆ Record and maintain all blast reports and drill logs;
- ◆ Conduct proof testing on all rock and tie back anchors installed at the site.

Operational blasting and blast monitoring plans, such as the ones provided by **SubTerra, Inc.** for this project, in conjunction with pre-blast inspections are very useful in preventing and or evaluating blast-related damage.