

# BULLETIN

News from *SubTerra, Inc.*<sup>®</sup>

## *Snoqualmie Falls Channel Widening Project Snoqualmie, Washington*

*SubTerra, Inc. provided services to Goodfellow Brothers as the Blasting and Blast Vibration Consultant for this in-water rock excavation project involving widening of the Snoqualmie River at Snoqualmie Falls, Snoqualmie, Washington. This project was constructed to reduce flood hazards in the Snoqualmie Valley immediately above the falls.*

As the project(s) Blasting Consultant *SubTerra, Inc.* was responsible for:

1. Preparing a Blasting Plan for controlled blasting of approximately 14,000 cubic yards of Basalt bedrock.
2. Conducting detailed pre-blast surveys of the surface and underground facilities.
3. Evaluating potential impacts to fish from blasting and underwater mechanical excavation.



This photograph shows the Snoqualmie Falls from the observation deck located to the west. The underground powerhouse is directly below the falls.

Rock was excavated on each side of the river. This photograph shows the Salish Lodge (background), transformer station, and Rope Bridge which was re-tethered after rock excavation. The Contractor eventually elected to use large impact hammers, a spud drop and a D10 ripper tooth mounted on a large excavator to break the rock.



Vibration monitors were installed above ground near historic structures and below ground in the 1894 Power House.



A very successful project ensued.