

BULLETIN

News from *SubTerra, Inc.*[®]

Longview Boulder Blast Snohomish County, Washington

SubTerra, Inc. provided services to Cadman, Inc. and Wallace Technical Blasting to permit and monitor the demolition of a large "glacial erratic" perched on the highwall of a gravel mine in Snohomish County, Washington. Permit requirements were satisfied through air blast and ground vibration monitoring and videotaping the single boulder blast

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

1. Ensuring compliance with permit requirements.
2. Blast video and air overpressure and vibration monitoring during construction.



This photograph shows the "glacial erratic" perched high on the gravel mine high-wall. BIC Jerry Wallace is standing to the left of the boulder.

Permit conditions for the gravel mine required that incidental blasting be monitored at the site boundaries. Three Instantel Minimate Plus were installed and set up for single shot monitoring.

Jerry Wallace, designated Blaster in Charge and responsible party under WAC 296-52 supervised the drilling and loaded the shot.



The boulder was successfully split into pieces that could be handled by the on site equipment without any fly rock.



Blast vibrations and air overpressures at the site boundaries were significantly lower than the limits set in WAC 296-52 and barely audible at the site entrance.