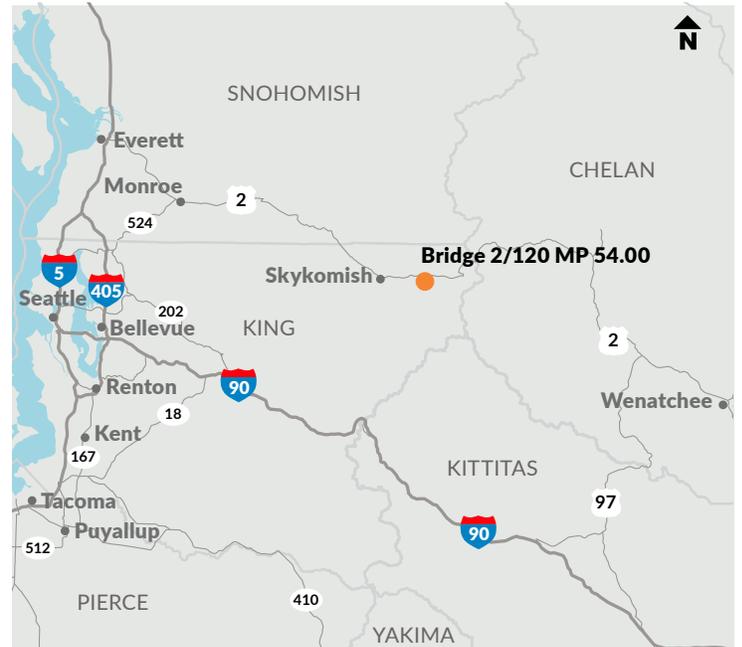


# Emergency Scour Repair

## US 2 CREEK BRIDGE NEAR SKYKOMISH

Following heavy rain in November 2015, a WSDOT Northwest Region employee discovered a debris dam against the upstream edge of Bridge 2/120, located near milepost 54 on US 2.



Crews clear the debris dam before making bridge repairs.

The debris dam consisted of large logs, boulders, and streambed cobbles/gravel, formed mostly on the west end of the bridge. Stream flows were deflected toward the east abutment, scouring out the soil that supported the south half (27 feet) of the abutment footing. Initially, the extent of the scour damage was unknown, as debris accumulation and high stream flow made it impossible to observe the affected

area. Not knowing the extent of damage, WSDOT closed the bridge to all traffic while maintenance crews worked on initial clearing and assessment. Their work clearing the channel and correcting the stream alignment revealed the extent of the damage to the east abutment footing. Emergency repairs were planned. Crews also were able to reopen a single lane of traffic along the north half of the bridge, which was still fully supported.

Granite Construction performed the emergency scour repair. Work included removing the debris from the streambed, filling the void under the east abutment footing with grout and placing heavy loose riprap around the abutments.

The debris dam was discovered Nov. 18, 2015. The void under the abutment footing was filled and full traffic was restored on the bridge by Nov. 23, 2015. Total repair cost: \$212,102.



Undermined east abutment footing.



Repaired abutment.

## MORE INFORMATION

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