

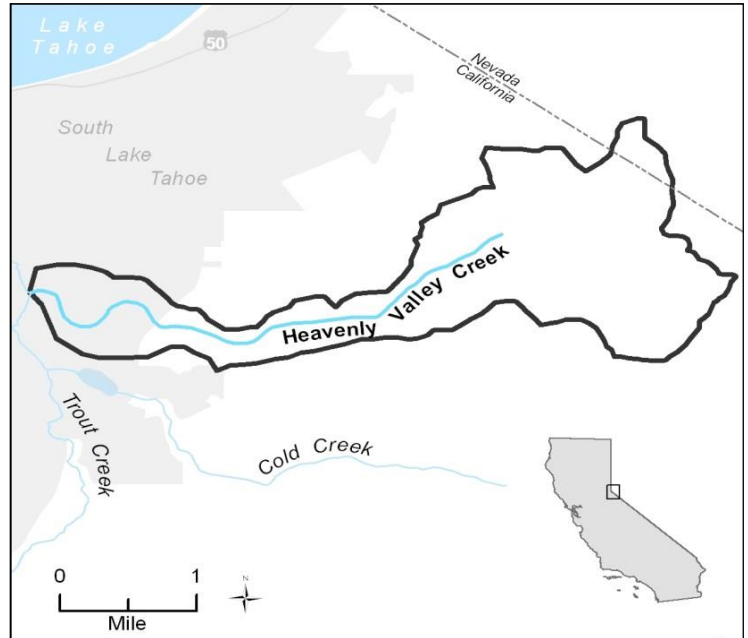
Total Maximum Daily Load Progress Report		Heavenly Valley Creek Sediment TMDL	
Regional Water Board	Lahontan, Region 6	STATUS	<input type="checkbox"/> Conditions Improving
Beneficial uses affected:	COLD, RARE, MIGR, SPWN		<input checked="" type="checkbox"/> Data Inconclusive
Pollutant(s) addressed:	Sediment		<input type="checkbox"/> Improvement Needed
Implemented through:	Waste Discharge Requirements		<input type="checkbox"/> TMDL Achieved/Waterbody Delisted
Approval date:	September 30, 2002		

TMDL Summary

Heavenly Valley Creek (from the headwaters to the Heavenly ski resort permit boundary) is listed for sediment due to the increased sediment delivery from the ski resort development, including ski runs, roads, and the steep hillslope erosive capabilities. Monitored suspended sediment concentrations have been higher than those at reference stations since the 1970s. Conditions have led to the decline of the creek’s ability to support aquatic life. The Lahontan Regional Board completed the [TMDL for sediment in Heavenly Valley Creek](#) which was approved by the U.S. EPA in September 2002.

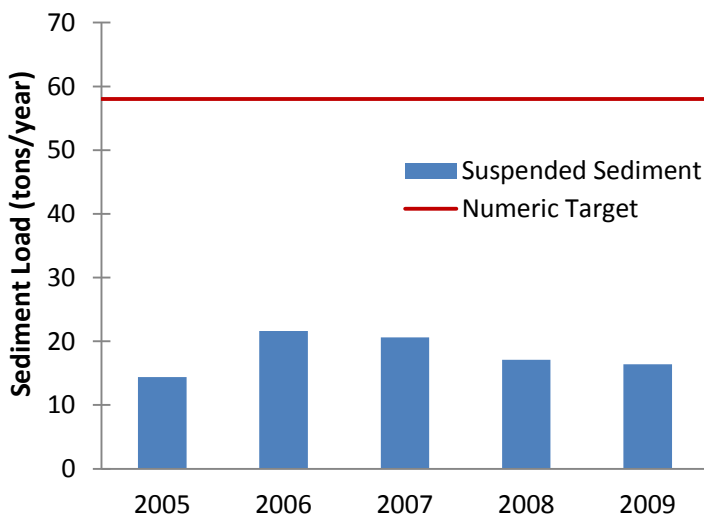
The responsible parties are the U.S. Forest Service, Lake Tahoe Basin Management Unit (LTBMU) and its permittee, Heavenly Ski Resort. The TMDL is implemented through Heavenly Ski Resort Waste Discharge Requirements and tracked by the Monitoring and Reporting Program. Instream standards of this TMDL are projected to be met by 2021.

Heavenly Valley Creek Watershed



Heavenly Valley Creek Water Quality

5-Year Rolling Average Suspended Sediment Loading at Heavenly Valley Creek



Water Quality Outcomes

- Water quality data from 2001-2010 show that the instream sediment load does not exceed the TMDL target of 58 tons/yr as a 5-year rolling average (to account for seasonal and annual variability).
- Since the adoption of the TMDL, Heavenly Ski Resort has abandoned and restored 7.59 acres of existing unpaved roads, stabilized 21.10 acres of existing roads which remain in use, restored 182 acres of existing ski runs, and maintains BMPs as necessary.
- Benthic Macroinvertebrate (insects living on the streambed) samples collected in 2006-2007 showed that biological conditions were impaired at an upper Heavenly Valley Creek site.
- Additional Monitoring by responsible parties include:
 - 1) bioassessment monitoring performed on three reaches of Heavenly Valley Creek and one reach of Hidden Valley Creek with a frequency of two years on and two years off; and
 - 2) stream condition inventory performed every 3 years.