

Water Quality Report Card

Sediment in Heavenly Valley Creek

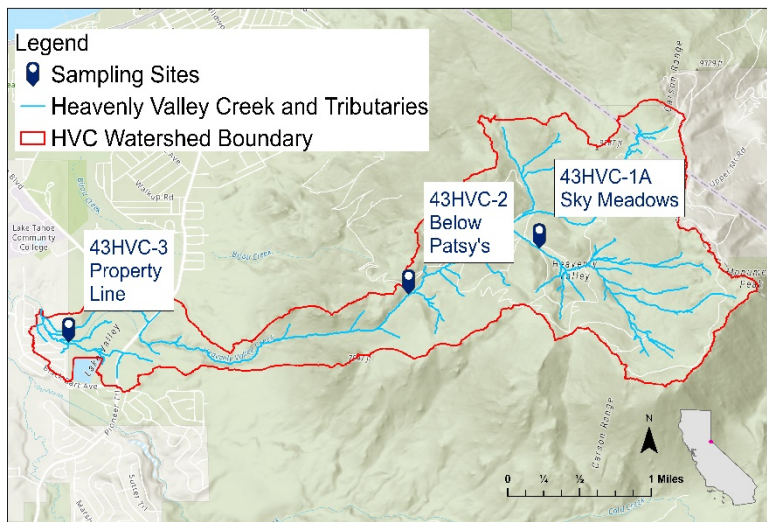
Regional Water Board:	Lahontan, Region 6
Beneficial Uses Affected:	COLD, RARE, MIGR, SPWN
Implemented Through:	Waste Discharge Requirements
Effective Date:	January 2001 (Lahontan Region) September 30, 2002 (USEPA)
Attainment Date:	2022

STATUS	Data Inconclusive
Pollutant Type:	- Nonpoint Source - Legacy
Pollutant Source:	Erosion/Siltation Nonpoint Source Runoff

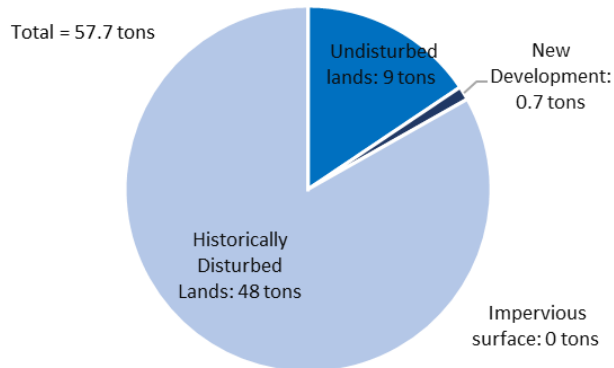
Water Quality Improvement Strategy

Located on the California-Nevada Stateline, Heavenly Valley Creek (HVC) flows through Heavenly Ski Resort (Heavenly). Heavenly partners with the U.S. Forest Service through a 40-year special-use permit that was renewed in 2002. In 1999, the HVC was listed on the Clean Water Act's 303(d) list as an impaired waterbody due to sediment loads resulting from development associated with the ski resort. Following the listing, the [Heavenly Valley Creek TMDL](#) was adopted in 2000 by the Regional Water Board to set targets to improve HVC Water Quality. The sediment TMDL target is a total sediment load 5-year rolling average not to exceed 58 tons per year as measured at the property line monitoring station (43HVC-3). Since implementation began, Heavenly has updated its monitoring plan to establish sampling sites at 5 California stream locations and 3 Parking StormFilter locations to achieve the sediment TMDL's targets. In addition to measuring sediment load, monitoring efforts collect data to assess the ski resort's impact on Stream Condition Indices, Benthic Macroinvertebrate Health (BMI), Best Management Practice (BMP) effectiveness, and the Watershed Maintenance and Restoration Program (WMRP).

Heavenly Valley Creek Watershed Map



TMDL Sediment Load Allocations (tons/yr)



Water Quality Outcomes

- Since 2005, the 5-year rolling average has been below the target load of 58 tons of sediment per year. Three year's annual totals, 2010, 2011, and 2017, have been above this value, all relating to high flows in Heavenly Valley Creek and elevated sediment loading in the Hidden Valley reference creek.
- Sampling efforts will continue to monitor chloride and total phosphorus concentrations in Heavenly and Hidden Valley Creeks after these constituents exceeded state standards for several sampling events in 2019.
- Bioassessment Scores ([California Stream Condition Index](#)) calculated from sampling events indicate that Heavenly Valley Creek may be altered at both 43HVC-3 and 43HVC-1A.

Water Quality

Heavenly Valley Creek Sediment Loading (2001 - 2019)

