

6 Stream Environment Zone Restoration Project Descriptions

Mitigation Measure 7.4-3 of the adopted 1996 Ski Area Master Plan required Heavenly to restore 29.1 acres of disturbed Stream Environment Zone (SEZ), within the resort and an additional 5.2 acres of developed SEZ within the Lake Tahoe Basin. Restoration of the additional 5.2 acres may also be completed within the resort. The restoration was planned to occur based on a ten-year schedule that is included in the 1996 Master Plan.

The following information describes the SEZ restoration projects that have been completed since 1996. All work was planned and implemented under the direct supervision of the Forest Service watershed staff. Following completion, Forest Service staff field-verified the projects.

Restoration of developed SEZ sites is shown first, followed by the disturbed site restoration projects.

DEVELOPED SEZ RESTORATION PROJECTS

1. **Project Name: Sky Meadows**
Area of Developed SEZ Restored: 1.9 acres
Date of Completion: 1997

Description: The project included the removal and subsoiling of an existing summer maintenance road from the California Dam to the base of Canyon lift. Existing channels that drained the surrounding slopes and connected the adjacent meadows to Heavenly Valley Creek were stabilized. The stream was rerouted to its historical channel and the stream banks were seeded and stabilized with erosion control blankets. The meadow area was seeded with wet meadow plant species.

2. **Project Name: Base of North Bowl Lift**
Area of Developed SEZ Restored: 0.5 acres
Date of Completion: 1998

Description: Revegetation with wet meadow species, and stream bank stabilization using willow wattles of the Edgewood Creek riparian corridor.

3. **Project Name: Lower California Trail/Ellie's Run**
Area of Developed SEZ Restored: 1.2 acres
Date of Completion: 1998

Description: The existing summer maintenance road was removed and the roadbed was subsoiled, seeded and mulched. The road prism side slopes were hydroseeded and mulched. Drainage control structures were added along the creek. See below for disturbed SEZ restoration component.

4. **Project Name: Maggie's Run**
Area of Developed SEZ Restored: 1.1 acres

Date of Completion: 1998

Description: Regrade the existing summer maintenance road to outslope at a uniform slope. Install drainage structures, culverts, low water flow road crossings and develop a new roadside drainage channel using Pyramat erosion control material. Hydroseed and mulch road prism side slopes. See below for disturbed SEZ restoration component.

5. **Project Name: Heavenly Valley Creek Water Quality Monitoring Site Road**
Area of Developed SEZ Restored: 0.25 acres
Date of Completion: 1999

Description: Rip and obliterate the existing summer maintenance road to the water quality monitoring site HV-C2 below the Creek Station. The roadbed was seeded, mulched and fertilized.

6. **Project Name: Blackwood Creek**
Area of Developed SEZ Restored: 1.0 acres
Date of Completion: 1996

Description: The project involved removing an existing house, driveway and compacted fire wood lot storage and cutting area. The site was seeded and planted with wet meadow species. Seasonal overflow channel segments were constructed in order to spread out high flows into the meadow. The project was completed in conjunction with the California Main Lodge storm water BMP system.

7. **Project Name: Boulder Lodger Base Area**
Area of Developed SEZ Restored: 0.2 acres
Date of Completion: 2004

Description: The project involved removing an existing surface lift from the SEZ and regrading and revegetating the previously disturbed area. In addition, the Boulder parking lot BMP retrofit project removed land coverage from a portion of the exiting parking area and reseeded and mulched the area.

DISTURBED SEZ RESTORATION PROJECTS

8. **Project Name: Patsy's Run**
Area of Disturbed SEZ Restored: 2.1 acres
Date of Completion: 1997 & 1998

Description: Install rock lined channels and revegetate area with wet meadow species.

9. **Project Name: Maggie's Run**
Area of Disturbed SEZ Restored: 1.1 acres

Date of Completion: 1998

Description: Regrade and revegetate ski run adjacent to stream channel in conjunction with developed SEZ restoration project described above.

10. **Project Name: Woods Trail**
Area of Disturbed SEZ Restored: 0.3 acres
Date of Completion: 1998

Description: Regrade and revegetate existing ski run segment.

11. **Project Name: Ridge Bowl Return Trail**
Area of Disturbed SEZ Restored: 0.3 acres
Date of Completion: 1999

Description: Regrade and revegetate existing ski run segment.

12. **Project Name: Lower Betty's Trail**
Area of Disturbed SEZ Restored: 0.1 acres
Date of Completion: 1997

Description: Repair exiting area of gullying and revegetate existing ski run segment.

13. **Project Name: Canyon Trail**
Area of Disturbed SEZ Restored: 0.3 acres
Date of Completion: 1997

Description: Regrade and revegetate existing ski run segment.

14. **Project Name: Rusutsu Trail**
Area of Disturbed SEZ Restored: 0.6 acres
Date of Completion: 1997

Description: Regrade and revegetate existing ski run segment.

15. **Project Name: Liz's Run**
Area of Disturbed SEZ Restored: 1.7 acres
Date of Completion: 1997

Description: Regrade and revegetate existing ski run segment.

16. **Project Name: Ellie's Run**
Area of Disturbed SEZ Restored: 0.4 acres
Date of Completion: 1997

Description: Regrade and revegetate existing ski run segment.

17. **Project Name: Lower California Trail/Ellie's Run**
Area of Disturbed SEZ Restored: 1.3 acres
Date of Completion: 1998

Description: Regrade and revegetate existing ski run segment in conjunction with the developed SEZ restoration project described above.

18. **Project Name: Creek Station**
Area of Disturbed SEZ Restored: 2.3 acres
Date of Completion: 1998

Description: Add rock-lined channel and other drainage improvements, and revegetate existing ski run segment.

19. **Project Name: Crossover Run**
Area of Disturbed SEZ Restored: 0.3 acres
Date of Completion: 1997

Description: Regrade and revegetate existing ski run segment below the existing summer maintenance road.