

### Final Report

In 2018, the rock culvert located in Mill Creek, Salt Lake County, Utah was replaced. This roadway services about 165,000 vehicles a year along with a large number of cyclists and pedestrians. The original culvert was installed in the 1930's by a Civilian Conservation Corp. The original structure was in a state of disrepair and had created a fish migration barrier. The structure required heritage mitigation because of its historic character.

Previous work in the drainage has included:

- replacement of the fish community to restore native fish, including the Bonneville cutthroat trout;
- removal of an abandoned bridge;
- replacement of seven undersized culverts;
- removal of an abandoned hydrological dam,
- providing passage over a diversion dam in Mill Creek
- removal of a weir in Porter Fork, and,
- replacement of a riparian walkway and installation of five handicap fishing/observation decks;

Funding for the rock culvert replacement and the weir removal work was raised by the National Forest Foundation in support of the Mill Creek Watershed Restoration Effort as part of their Treasured Landscapes Initiative. Contributions to complete the rock culvert replacement and weir removal were provided by:

\$ 15,000	Utah Division of Wildlife Resources, Habitat Council
\$ 10,000	Utah Department of Environmental Quality, Non-Point Source grant for
\$ 60,000	U.S. Fish and Wildlife Service, Fish Passage Funds and Western Native Trout Initiative
\$ 45,000	Boeing Corporation
\$ 3,900	New Belgium
\$ 75,885	Gordon Moore
\$ 51,000	Anonymous
\$ 2,125	Trout Unlimited/Utah CutSlam Program
\$ 35,000	Forest Service Funding
Total: \$ 297,910	

Forest Service – In-kind (design, permits, road closure, coordination, ~20,000)

Figure 1. Photo of upstream inlet of the rock culvert structure replaced, 25 July 2017.



Figure 2. Road view of structure on the upstream end of rock culvert, 25 July 2017.



Figure 3. Photo of downstream outlet of the rock culvert structure replaced, 25 July 2017



Figure 4. Road view of structure on the downstream end of rock culvert, 2 June 2015.



Figure 5. Photo of upstream inlet of the rock culvert structure replaced 25 July 2018.



Figure 6. Road view of structure on the upstream end of rock culvert, 25 July 2018.



Figure 7. Photo of downstream outlet of the rock culvert structure to be replaced, 25 July 2018



Figure 8. Road view of structure on the downstream end of rock culvert, 2 June 2018.



Figure 9. Photo of roadway prior to reconstruction of the rock culvert, 28 September 2016.



Figure 10. Photo of roadway after construction of the rock culvert, 15 August 2018



Figure 11. Photo of weir prior to removal in 2018 in Porter Fork, Mill Creek Drainage, Salt Lake County, Utah.



Figure 12. Photo of weir site after the removal of the weir in June 2018.

