

Bloomington & Paris Creeks Irrigation Structures

Project # POC1100161

Sponsored by
Bear Lake Soil & Water Conservation
District

Bear Lake Soil & Water Conservation District

Is following the recommendation of the Bear Lake TMDL Implementation Plan by addressing the highest prioritized water quality concerns with the first phase of this project. This project is also in response to parameters set up in the Bear River Basin/ Malad River Subbasin TMDL.

Project Consists of:

- Replacing five irrigation structures
- Preventing erosion and sediment deposits upstream & downstream
- Doing streambank restoration work with willows and other vegetation
- Preventing migrating fish from entering irrigation canals with no way to get back to the stream
- Increase migration of Bonneville Cutthroat Trout (Sensitive Species of Concern)

Lower Structure on Paris Creek

- Original Structure built in 1990
- Eroding below the structure
- Ponding above the structure
- Streambank work
- Working with Trout Unlimited for fish screens.

Lower Structure on Paris Creek



Lower Structure on Paris Creek



Paris Upper Structure

- Wooden Structure
- Needs measuring device
- Excessive suspended sediment & turbidity in surface water
- Livestock has direct access to Paris Creek
- Inadequate cover & shelter
- Sensitive Species of Concern (Bonneville Cutthroat Trout)
- Inadequate Stock Water

Paris Upper Structure



Paris Upper Structure



Paris Upper Structure



Paris Upper Structure



Upper Structure on Bloomington Creek

- One large structure
- Classified as two separate structures
- Large ditch runs south
- Small ditch runs north
- Cement crumbling
- Eroding downstream
- Screening ditches
- Fish Passage

Upper Structure on Bloomington Creek



Sediment on Bloomington Upper Structure



Upper Structure on Bloomington Creek



Upper Structure on Bloomington Creek 7/6/2009



Lower Bloomington Structure

- Irrigation Company has already installed 3 measuring devices
- Diversion on the side
- Cement in good shape
- Needs streambank work
- Fish screen and passage

Lower Bloomington Structure



Lower Bloomington Structure



Lower Bloomington Structure



Project Outcome

- Help Bloomington and Paris Creek move toward meeting their beneficial uses by reducing the amount of sediment flowing into the Bear River from bank erosion in each of the above mentioned tributaries
- Planting willows and other permanent vegetation will provide shade and shelter for the fish in each of these streams.

Project Outcome

- Bloomington Irrigation Company, along with individual landowners will provide their portion of match through labor and cash. There is also the potential for a partnership with Environmental Coordination Committee (ECC) and Trout Unlimited which would qualify for private match.

Project Costs

- Estimated Matching Funds:
\$156,893.00
- Estimated 319 Grant Amount:
\$216,114.00
- Estimated Total cost of project:
\$373,007.00