



MONITORING REPORT
Contract # 211-2028
Tenmile Lakes Fish Passage

Produced by:
TLBP May 2012

INTRODUCTION

In spring of 2010, the Tenmile Lakes Basin Partnership (TLBP) passed a motion initiating the development of the Monson Bridges, a two bridge component of the Tenmile Lakes Fish Passage and Sediment Abatement Plan as well as part of implementing the Watershed Council's Action Plan and recommended activities that the Nutrient Budget Study identified.

With this direction, funding was obtained from the Oregon Watershed Enhancement Board and the Department of Environmental Quality. Planning and scheduling began for Project Partners who included the Brad Monson, property Lessee Jim Larsen, and ODFW.

Projects completed within this contract were two fish passage fixes. Fish passage projects were Monson Bridge #1 and #2. These projects removed barriers to approximately 5 miles of high priority Coho spawning and rearing habitat. In addition, approximately 650 cubic yards of perched sediment have been permanently removed and not impacting the important lake habitat.

This report is to fulfill the Partnership's monitoring requirements of this management project, grant 211-2028. All of these activities were specifically designed to address the apparent decline of water quality and native fish habitat within the basin.

PROJECT EVALUATION

Overall, the Tenmile Lakes' Watershed Monson Bridges successfully integrated on-the-ground enhancement projects on private agricultural lands. Most of the specific component implementation objectives were met. Continued monitoring of these projects for several years will reveal if our long-term goals will be achieved. Overall, the implementation of project followed successfully the Council's motto: Assess – Plan – Implement.

ACKNOWLEDGEMENTS

The Tenmile Lakes Basin Partnership would like to thank the many contributors that assisted in designing and conducting the monitoring plan of this project, without whose cooperation, getting a better understanding of the results of these fish passage and sediment abatement projects would not have been possible.

Funding

Oregon Watershed Enhancement Board

Oregon Department of Environmental Quality - 319 program

Technical Assistance

Pam Blake (ODEQ)

Harvey Wilcox

City of Lakeside Public Works

Division of State Lands

ODFW

Landowner

Jim Larsen (lessee)

Brad Monson

Project Site Map for 211-2028



MONITORING PROTOCOLS

Watershed Council staff with the assistance of the site Landowner(s) conducted our bi-annual surveys of the project components of these fish passage and sediment abatement projects. The “Monitoring Team” evaluated project sites and associated areas twice a year, during high and low flows. These surveys involved visiting a photo point to record current status of the project with a camera and completing Monitoring data form. Effectiveness Monitoring follows the guidelines established in the approved Tenmile Lakes Water Quality Assurance Plan 2004.

MONITORING SITES SUMMARY

PROJECT	PROJECT LOCATION UTM	PROJECT GOALS	2012 STATUS
Monson Bridge #1	10T0411708 4822135	Remove barrier to fish passage, Reduce erosion and sediment delivery.	Successful
Monson Bridge #2	10T0412044 4821826	Remove barrier to fish passage, Reduce erosion and sediment delivery.	Successful

(More specific observations are available in the monitoring summaries and monitoring photographs.)

MONITORING COSTS

Monitoring costs were higher than usual due to the fact that TLBP’s long standing Monitoring Coordinator training his replacement. This required two staff visiting sites. The Watershed Council’s Monitoring Coordinator, Monitoring assistant, and the Project Site landowners conducted two monitoring site visits, summer and winter, to each site. For each site is estimated that approximately 3 hours are necessary to complete data collection and recording.

Project Site	Monitoring Hrs @ \$32/hr	Landowner Hrs @ \$10/hr	Total Cost per site
Monson #1	3	1	\$106.00
Monson #2	3	1	\$106.00
Total	6	2	\$212.00

PUBLIC AWARENESS

Public awareness of these project activities is promoted through the media, project tours, public meetings, word of mouth, and Council members reporting to other groups such as City Council, Lions Club, and Chamber of Commerce. In addition, a Project Funded signs have been placed at each project site for easy identification of project partners.

LESSON LEARNED

1. Ensure open communication between WSC, Coordinator, and Monitoring staff. Open and honest communication will assist when staff changes are in the future. It is very helpful to new staff to have at least a month with experienced staff to learn the “ropes” of a new position.
2. Coordinator needs to make time to ensure landowner introductions with new staff go well.
3. In coastal flashing systems, review engineering of slabs to possibly be constructed 2ft- 3ft above bank height, instead of a foot and half to avoid log jams.
4. Review other Monitoring reports from other Watershed Councils or contractors. Everyone can learn methods and/or techniques and even report formats for others which can make life easier.

MONITORING RESULTS

MONSON BRIDGE #1

This fish passage and sediment abatement project, Fish Passage Plan site #286, removed a perched 36” x 20’ corrugated metal pipe and replaced it with a 16’w x 30’ concrete stringer bridge. Fish access to approximately 5 miles of stream habitat was improved. In addition approximately 350 cubic yards of perched filled was permanently removed to reduce chronic sediment inputs into this system. Project was completed September 2011.

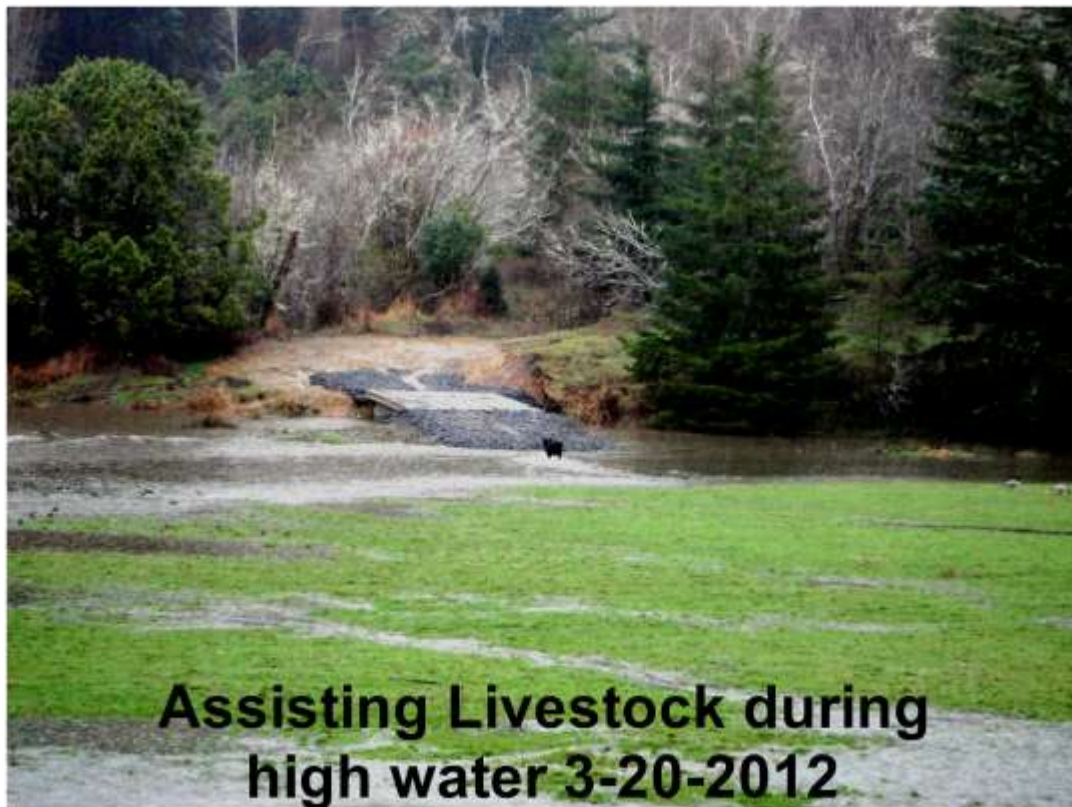
	2012
Current sediment delivery: High-Med-Low	Low
Current bridge condition.	Excellent
Current/approach condition.	Excellent
Armoring and fill condition.	Good-Missing some armoring on upstream, north side
Erosion/scouring above project site?	Small amount on South side
Maintenance records/ <u>dates</u> . Bridge observations. Goal Observations.	Bridge and approach held up well with the flood waters. This project is currently meeting our goals.





Monson #1 Construction 9-15-2011







MONSON BRIDGE #2

This fish passage and sediment abatement project, Fish Passage Plan site #287, removed a perched 36" x 20' corrugated metal pipe and replaced it with a 16' x 30' concrete stringer bridge. Fish access to approximately 4 mile of stream habitat was improved. In addition approximately 400 cubic yards of perched filled was permanently removed to reduce chronic sediment inputs into this system. Project was completed in September 2011.

	2012
Current sediment delivery: High-Med-Low	Low
Current bridge condition.	Excellent
Current/approach condition.	Excellent
Armoring and fill condition.	Good – Some armoring missing on upstream side
Erosion/scouring above project site?	Small amount on South side
Maintenance records/ <u>dates</u> . Bridge observations. Goal Observations.	Good spawning gravel below site. 2" fish fry observed (probably cutthroat) and a few possible Coho fry. Large numbers of Rough Skinned Newts, 3-Brook Lamprey, & 1 Crayfish.. Project is meeting our goals

See Photos Next Page

Failed Culvert







**Armoring missing
4-23-12**

