

Purpose

Zone 1 Pilot Project

☒ The general objective of this restoration project is to restore in part the natural processes that have been disrupted by the dam. The dam and reservoir currently trap 100% of gravel and wood that reaches the dam. Consequently, downstream reaches have become gravel and wood 'starved', resulting in an armoring of the streambed and decrease in habitat complexity that adversely affects fish spawning and rearing. For this reason there are three habitat projects located immediately downstream of the dam that include annual gravel nourishment, placement of loose wood that collects behind the dam each year and construction of two engineered log jams.



The general objectives of annual gravel nourishment include:

- Increasing available spawning opportunities in the middle Green River for Chinook salmon, coho salmon, and steelhead trout.
- Reconnect side channel and floodplane habitat.
- Reverse streambed armoring in the middle Green River.
- Restore the natural gravel transport process interrupted by HHD.

The gravel berms were built with spawning size gravel 0.5 to 4 inches in diameter below ordinary high water. The gravel berms were designed to erode over the winter during high flows. They will be reconstructed each August.

The project objectives for the construction of the log jams include:

- Provide cover for both adult and juvenile salmonids.
- Provide rearing habitat for juvenile salmonids.
- Create riverine pool habitat.
- Sort and store gravel to create salmonid spawning habitat.
- Increase flow to the left bank side channel immediately downstream of the log jams.

The engineered log jams contained 88 and 81 logs each and are designed to be stable at the 100 year flood stage.





The project objectives for the transport of loose wood debris include:

- Increase habitat complexity and LWD in the middle Green River.
- Increase the amount of riverine pool area in the middle Green River.
- Increase cover habitat for salmonids.
- Create conditions for local gravel storage.
- Restore the natural wood transport process interrupted by HHD.

Transport of wood debris around the dam and placement on the gravel berms was implemented in 2004. A total of 3 pieces of LWD approximately 24 inches in diameter and 25-30 ft long were placed on the upstream gravel berm. Annual decisions regarding transport of wood around the dam will be dependent on the amount of wood received at the reservoir over the previous year, mobilization and effectiveness of wood placed at RM 60, and the need for wood at other habitat projects.

Efforts were taken to ensure boaters and other recreational users of the river were aware of the project's purpose and proposed actions. Appropriate signage was placed to warn users of log jams.

For the Public Notice and Other Documents [please click here](#). For the EIS and documentation please see the [ERS Documents page](#).

Zone 1 Gravel Nourishment Monitoring Reports:

[Water Year 2004 Zone 1 Monitoring Report, Appendix A, Appendix B, Appendix C, Appendix D, Appendix E](#)

[Water Year 2005 Zone 1 Monitoring Report, Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F](#)

Woody Debris Monitoring Reports:

[Middle Green River Large Woody Debris Monitoring 2005](#)

[Middle Green River Large Woody Debris Monitoring 2006](#)

News

No new information has been posted by the content provider for this page.

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