



## **Prospectus of Proposed Project Opportunity**

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### **Opportunity Title**

Green Valley Ranch Fish Passage

### **Opportunity Lead**

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### **Technical Contact**

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### **Landowners**

Skyler Willis

Doug and Melinda Saturno

Contacted: Yes

Supportive: Yes

Contribution: Providing access to replace irrigation diversion. Water use will now be regulated.

### **River**

Name: Willowa River

Mile: 42.5

Tributary: Grande Ronde

## **Restoration Atlas**

BSR: WLL-4

Tier: Tier 1

Initial Score: 15

Proposed Score: 15

## **Restoration Activities**

- 2. Channel Reconstruction
- 4. Riffle Construction
- 9. Restoration of Floodplain Topography and Vegetation
- 18. Riparian Buffer Strip, Planting
- 23. Structural Passage (Diversions)
- 27. LWD Placement
- 32. Irrigation System Upgrades -Water Management

## **Species Affected**

Focal: Snake River Spring Chinook, Snake River Summer Steelhead, Bull Trout, Lamprey

Other: Coho, Sockeye

## **Description**

The Green Valley Ranch Fish Passage Project is located on the Wallowa River (approximate river mile 42.5), in between Enterprise and Joseph in Wallowa County, Oregon. This project aims to modify/improve an existing water diversion structure, irrigation pumping station, and associated fish screens to provide uninhibited year-around upstream and downstream passage to all life stages of native aquatic species, decrease potential for unintentional take of species of concern, and provide a method of measurement to control water withdrawal. Current operation of the diversion structure can limit fish passage, the operation of the irrigation pump has the potential for impingement, and withdrawals are a challenge to monitor for both the operators and regulators. This reach of the Wallowa River is identified as Tier 1 High Priority for restoration in the Wallowa County Atlas for addressing limiting factors, anthropogenic barriers, and water quantity. The operators/owners of this infrastructure recognize the need for improvement and sought assistance when realizing initial proposed actions would trigger fish passage requirements. This project proposes to remove the irrigation dam and replace it with a roughened riffle and new headgate. An irrigation pump and intake will be moved downstream of the existing ODFW fish screen coming into modern compliance. The area around the diversion site will be restored and provide habitat complexity in addition to passage. This project is located on two private properties currently and will consolidate the infrastructure to being located on the water users property.

## **Objectives**

Accessible fish habitat

## **Major Risks**

Maintenance.

## **Permits and Consultation**

ESA Section 7 USFWS: Applicable  
ESA Section 7 NMFS: Applicable  
COE or DSL Permit: Applicable  
Cultural Resources Section 106: Applicable  
DEQ 401 Water Quality Permit: Applicable

## **Project Schedule**

Year: 2022

Monitoring: SGS  
Regular inspection

## **Project Relations**

Multi-phase Effort: No

## **Preliminary Cost Estimate**

Total: 179388  
BPA Funding: 179388  
OWEB Funding:

## **Design Funding**

Design Funds Requested: Yes

Design Option: Option 2

Type of Work:

- Technical project management
- River and stream data acquisition (hydrology, sediment, surveying, assessment, fisheries)
- Hydrology, geomorphology, or river hydraulic modeling
- Stream and fisheries habitat design
- Stream and fisheries habitat restoration contract - construction plan and specification development
- Stream and fisheries habitat restoration construction quality assurance, management, and inspection

## Fish passage and fish screening design

### Specialties:

Stream restoration engineer

Fluvial geomorphologist

Fisheries biologist

Supervisor

Project manager