# Prospectus of Proposed Project Opportunity

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## Opportunity Title

Middle Fly Restoration Project

## Opportunity Lead

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## Technical Contact

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## Landowners

Contacted: Yes
Supportive: Yes.
Contribution: Trees, NEPA, Engineer support, grass seed and vehicles.

## River

Name: Fly Creek
Mile: RM 4.0 - 7.0
Tributary: Tributary to the Grande Ronde River

## Restoration Atlas

BSR: UGR16
Tier: Tier 1

Initial Score: 25
Proposed Score: 61

**Restoration Activities**

3. Pool Development
9. Restoration of Floodplain Topography and Vegetation
11. Perennial Side Channel
12. Secondary (non-perennial) Channel
15. Hyporheic Off-Channel Habitat (Groundwater)
27. LWD Placement

**Species Affected**

Focal: Snake River Spring Chinook Salmon and Snake River Summer Steelhead.
Other: Redband Trout.

**Description**

The project would construct debris jams and habitat structures at 56 sites within the middle 3.0 miles of Fly Creek (RM 4.0 – RM 7.0). This would include approximately 1613 pieces of large wood (1613 trees). An additional 387 whole trees, 100 felled trees and 400 tops would be placed within the stream for habitat complexity. Approximately, 2400 trees and tops will be flown in and placed by helicopter. There will be 100 trees directionally felled by hand and 85% of the racking material will be incorporated into the structure and stream through hand placement.

• There will be 38 small debris jams that will involve 25 pieces of large wood, which includes 5 large trees with rootwads (> 20” dbh) & 50’ long), 8 medium trees with rootwads (14” – 20” dbh & 50’ long), 8 small trees/logs (10” – 14” dbh & 30’ – 50’ long), and 4 whole trees. These structures are designed for floodplain inundation, side channel activation and habitat complexity.

• There will be 12 large debris jams that will involve 50 pieces of large wood, which includes 10 large trees with rootwads (> 20” dbh & 50’ long), 16 medium trees with rootwads (14” – 20” dbh & 50’ long), 16 small trees/ logs (10” – 14” dbh & 30’ – 50’ long), and 8 whole trees. These structures are designed for floodplain inundation, channel activation and habitat complexity.

• There will be 6 whole tree structures, involving 63 whole trees. These structures are intended to provide habitat complexity and fish cover.

• There will be 387 additional whole trees and 400 tops placed upstream and downstream of the debris jams to promote habitat complexity and fish cover.

• There will be 100 trees directionally felled into the stream to promote habitat complexity and fish cover.

• A total of 2500 large wood pieces will be placed into the Middle Fly Restoration Project in 2021. An additional 400 whole trees and 600 logs will be flown into Lower Fly Creek to augment 2020 constructed structures (3400 TOTAL TREES AND LOGS FLOWN INTO MIDDLE AND LOWER FLY (6.5 STREAM MILES)).

There are a total of 2400 large trees needed for the project. Of these, 272 trees will be between 21” and 29” dbh, and 2128 trees between 10” and 20” dbh. All of the medium and large sized trees will be a minimum of 50’ long (whole trees could be longer). The small sized trees are a minimum of 30’ long. These trees will be obtained from within 20’ of the road prisms of the 5115, 5115205, 300, 169, 180, 460 & 450 roads. The trees would be staged on these road prisms for helicopter transport and placement into Fly Creek.

There will be 100 trees directionally felled into Middle Fly Creek from the riparian area adjacent to the stream. In addition, racking material (small trees and limbs) will be thinned in the riparian area and incorporated into the structures and stream by hand placement.
All of the disturbed areas will be seeded.

The project will occur from May 15 – November 30 of 2021. All of the helicopter instream wood placement will occur in July. The directionally felled trees and hand placement of racking material will occur from July – November 30, 2021. Tree removal and haul from roads will occur from May 15 – June 30, 2021. Rehabilitation and seeding will occur from May 15 – November 30.

**Objectives**

1: Activate Side Channel Scrolls
Encourage and create perennial side channels through channel spanning log jam construction.
2: Restore Hydrologic Function
Increase hydration of a laterally confined channel to improve groundwater retention through channel spanning log jam construction.
3: Improve Fish Habitat
Restore habitat complexity. Existing LWD structures will be modified and additional whole trees will be placed. These structures will encourage scour pool habitat, and fish cover.

**Major Risks**

Aquatic Engineer and Cultural Resources.

**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:

## Project Schedule

Year: 2021

Monitoring: (1) Drone: Drone imaging will be collected, yearly, for five years by GRMW.
(2) Structure construction: Monitoring of structures would involve photo points of before and after operations occur. Follow up photo points would occur at year 1 - 3 after project completion. This monitoring will be completed by the USFS.
(3) Stream Survey: Region 6 Level II Stream Habitat Inventory would be conducted prior to (completed) and @year
1 and year 5 after completion. This monitoring will be completed by the USFS.
(4) Plant/seed survival: Native plantings and seeded areas would be evaluated for survival on a yearly basis for three years after project completion through photo points and determining plant survival. If plant/seed survival is poor, then subsequent planting and/or seeding would occur (depending on funding). This monitoring will be completed by the USFS.
(5) Noxious weeds: Noxious weeds would be monitored, yearly, for three years after project operations. This monitoring will be completed by the USFS.

## Project Relations

Multi-phase Effort: No

## Preliminary Cost Estimate

Total: 1,670,000
BPA Funding: 1,270,000
OWEB Funding:

## Design Funding

Design Funds Requested: No