

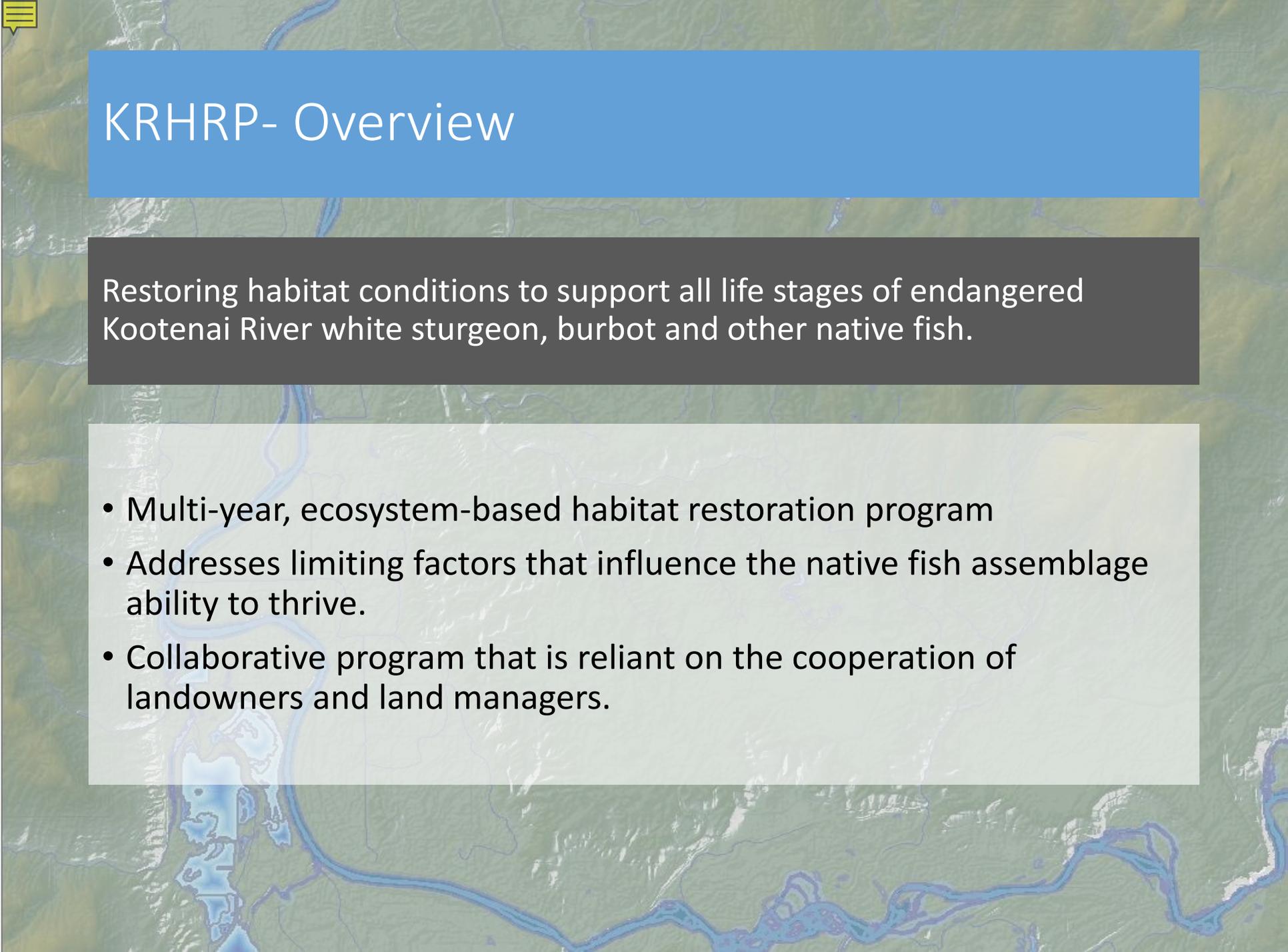


Kootenai River Habitat Restoration Program

Deep Creek Restoration Project -Idaho Department of Lands Parcel

Kootenai Valley Resource Initiative
June 13, 2022





KRHRP- Overview

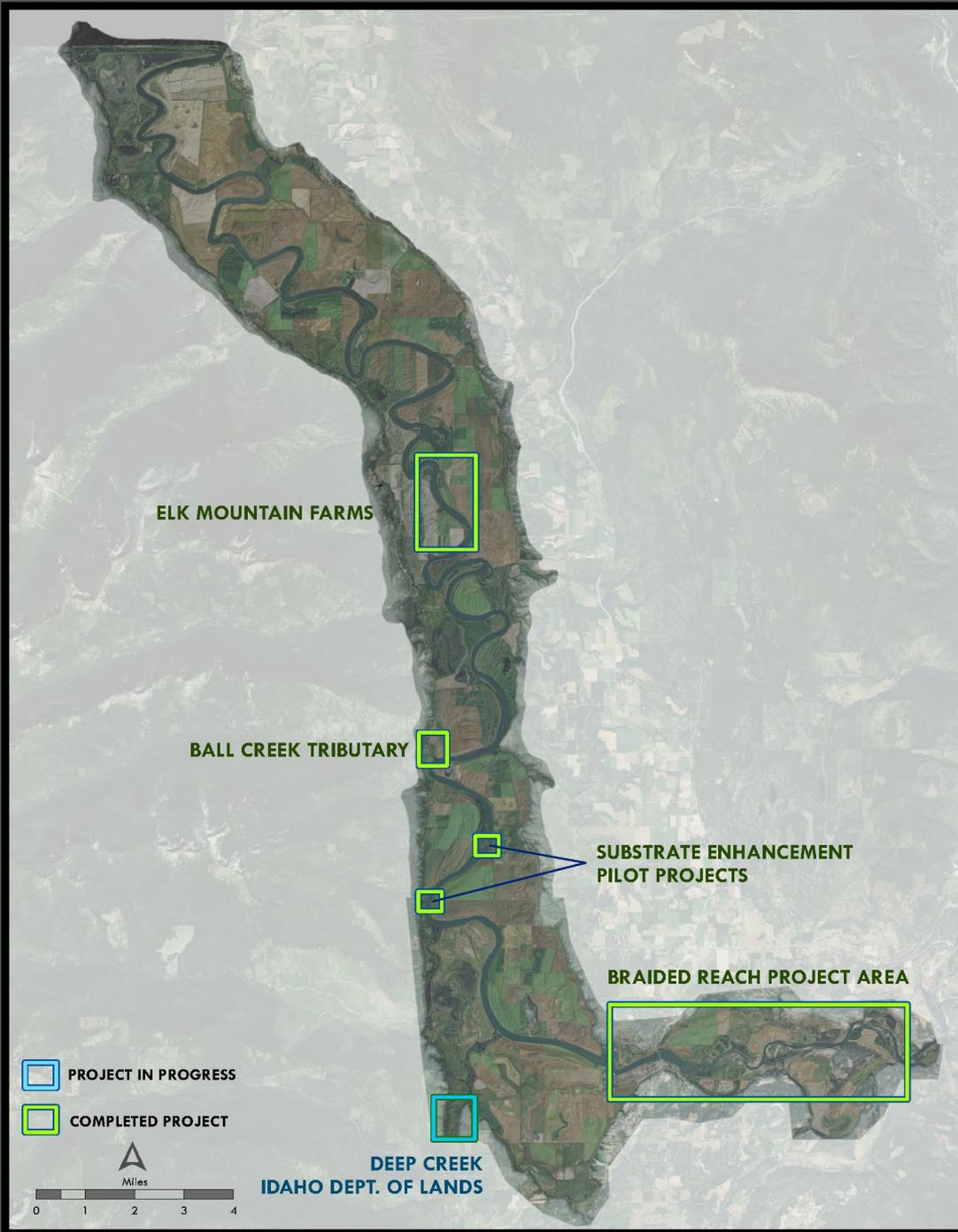
Restoring habitat conditions to support all life stages of endangered Kootenai River white sturgeon, burbot and other native fish.

- Multi-year, ecosystem-based habitat restoration program
- Addresses limiting factors that influence the native fish assemblage ability to thrive.
- Collaborative program that is reliant on the cooperation of landowners and land managers.

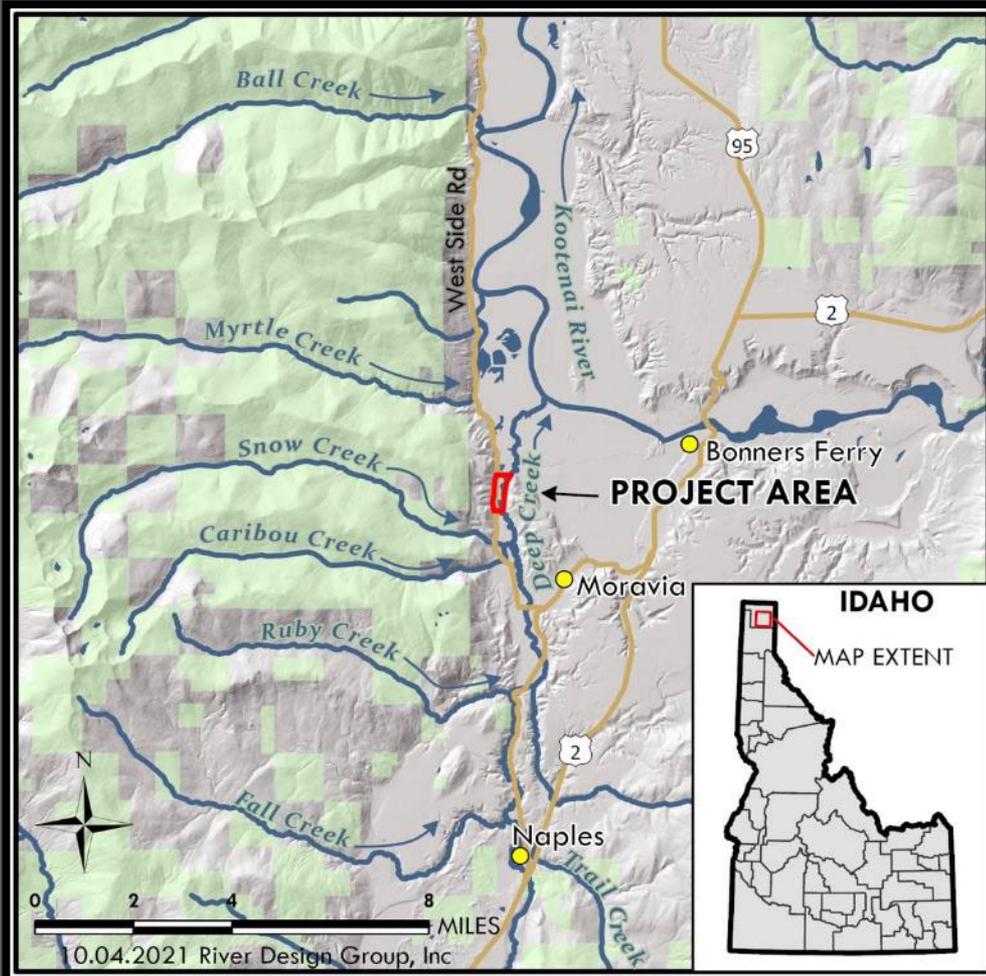
KRHRP-Work to date



Braided Reach Project Area



IDL Deep Creek Parcel





Deep Creek Existing Conditions



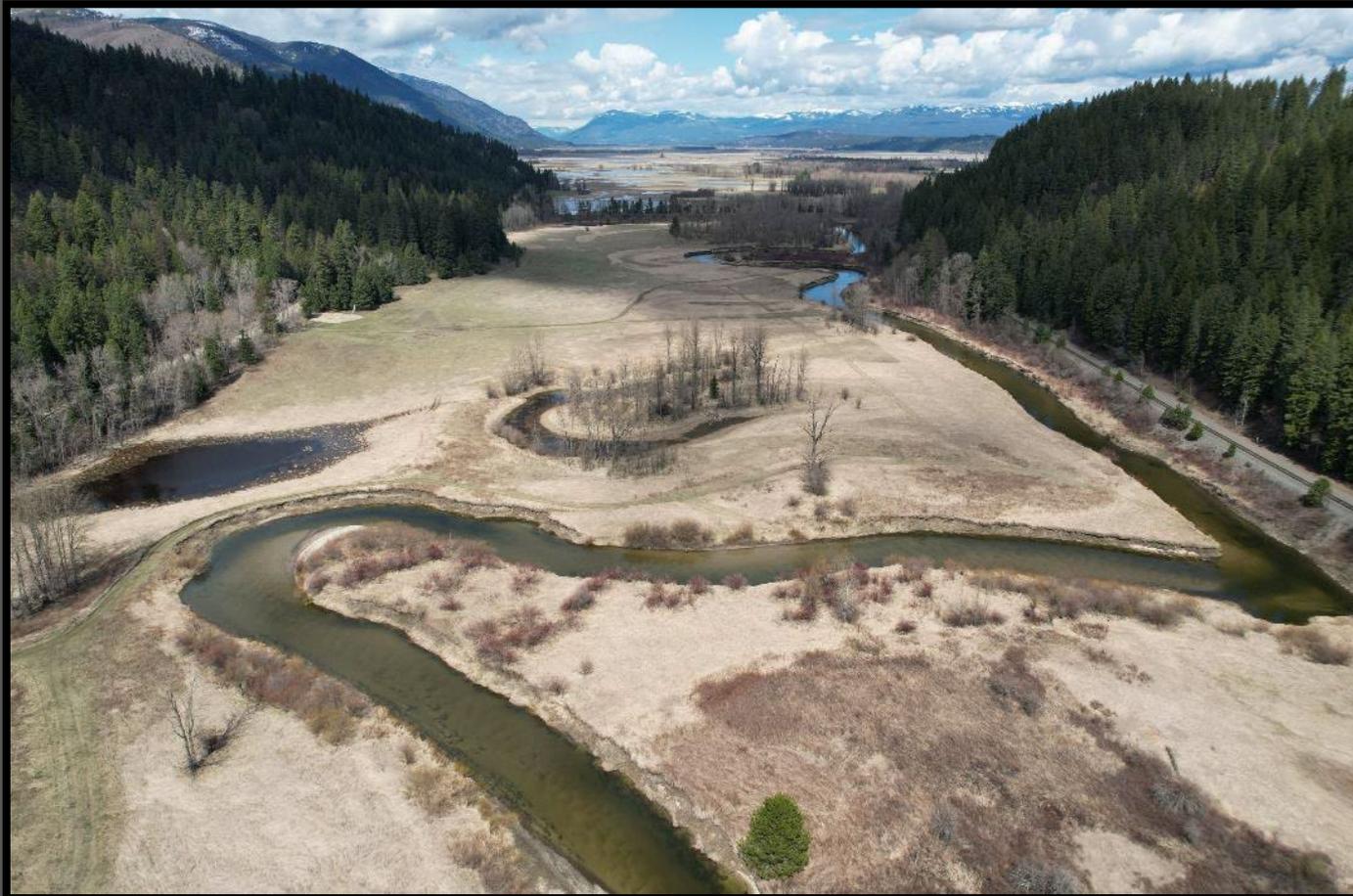
Idaho Department of Lands (IDL)

- 120-acre site
- Marginal timber resources
- Grazing leases terminated
- Public use for river access
- South of Kootenai National Wildlife Refuge
- West of Union Pacific Railroad
- No levees or dikes

Fish use

- Migration, rearing and spawning by burbot, rainbow trout, kokanee and bull trout
- Critical bull trout habitat
- Sturgeon use not documented
- Fresh water mussels found in 2021

Deep Creek Parcel





Deep Creek Restoration Opportunities that Support KRHRP Objectives



Food Web

Improve riparian function and nutrient exchange by increasing floodplain connection and expanding the availability of areas that will support riparian and wetland vegetation



Geomorphology

Promote geomorphic sustainability by introducing large wood and creating features that consider the governing sediment transport processes



Fish

Enhance aquatic habitat by establishing pool-riffle sequences and installing streambank structures that provide cover, maintain pools, create hydraulic complexity and retain appropriate spawning substrates



Habitat

Increase habitat diversity with off channel features including side channels, wetlands and alcoves



Stewardship

Maintain river access and promote conservation

Deep Creek Proposed Design

Off channel habitat creation

- Wetland enhancement
- Diversity and complexity

Channel realignment

- Inset floodplain excavation
- Buffer from railroad

Streambank structures

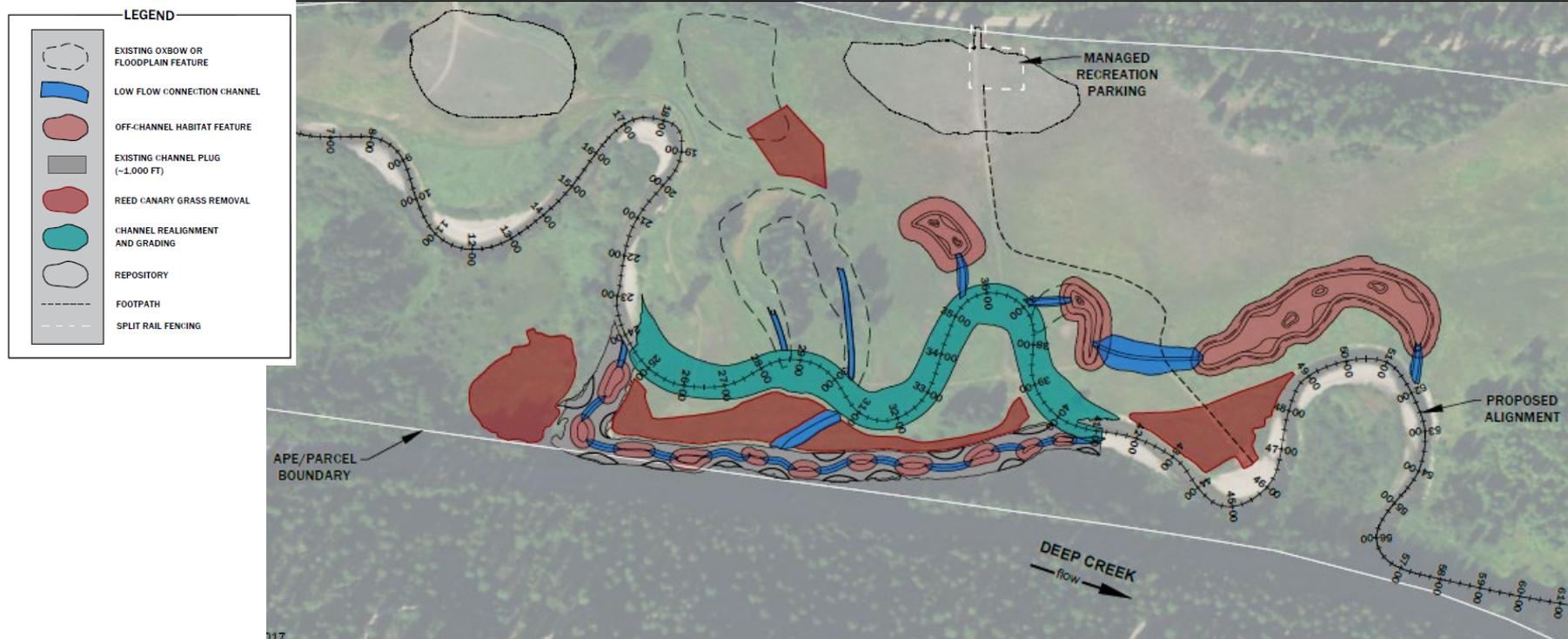
- Vegetated brush banks
- Large wood

Revegetation

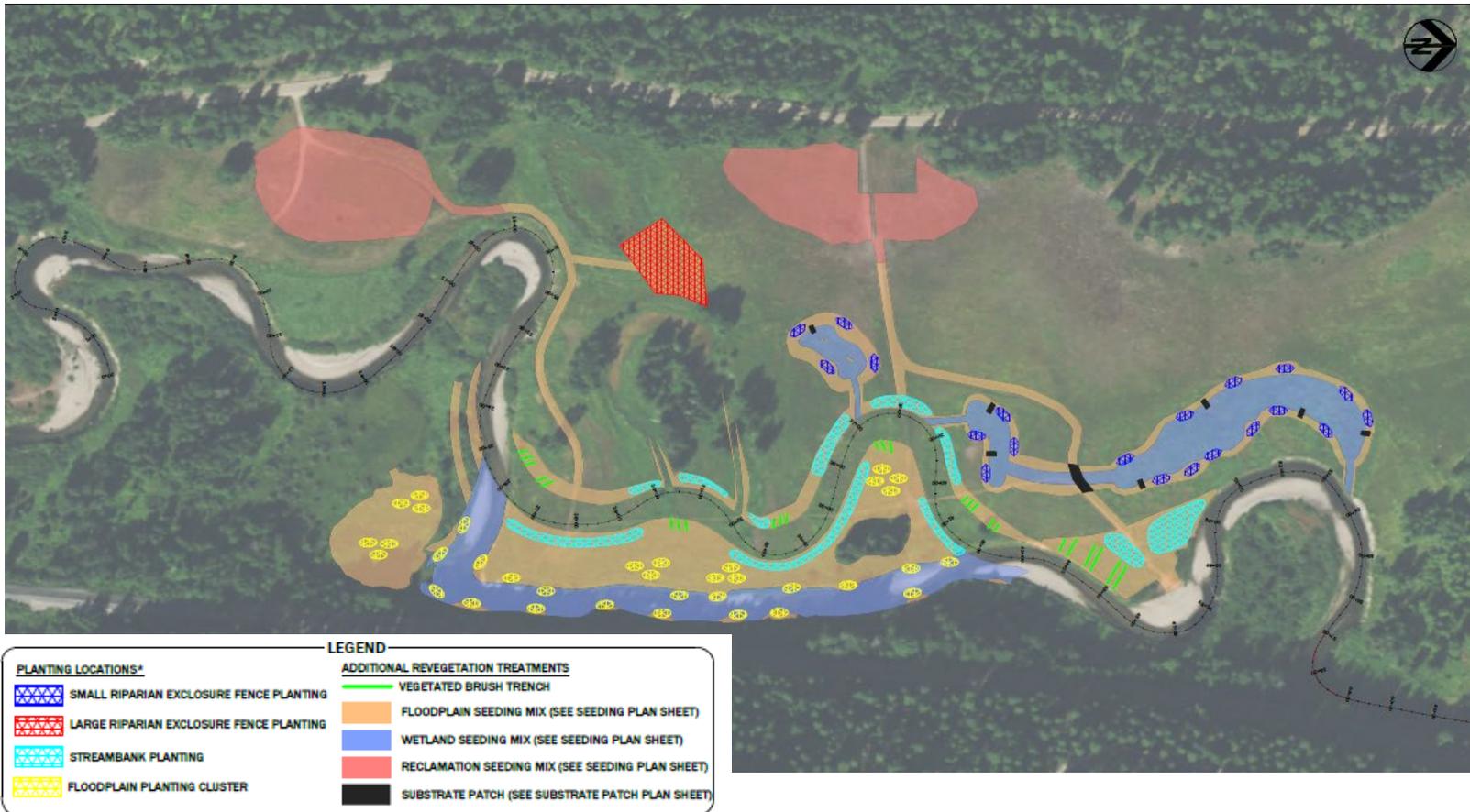
- Planting and seeding
- Reed canarygrass removal
- Fencing and browse protection

River access management

- Fenced parking areas
- Interpretive signage
- Footpaths to river access locations

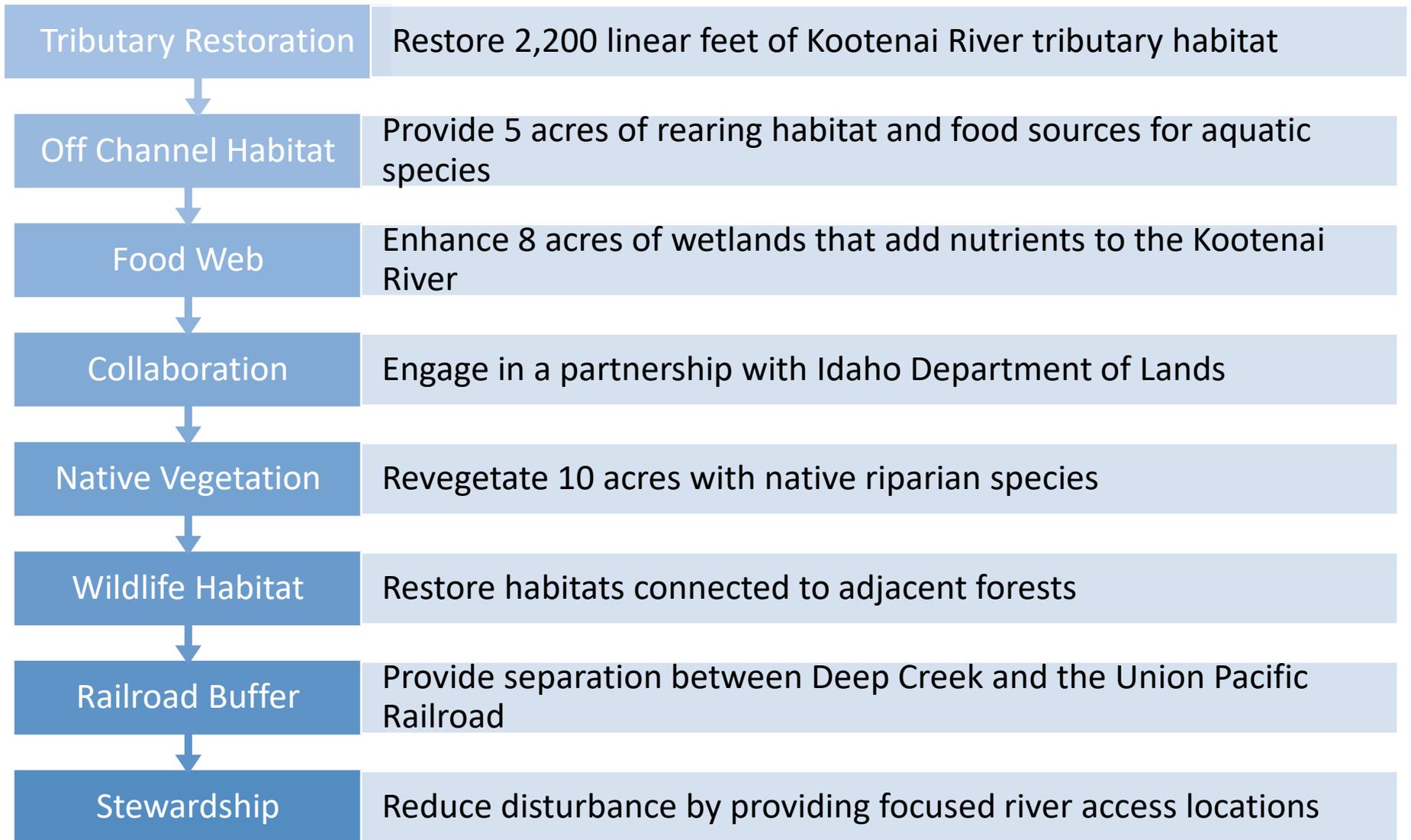


Deep Creek Proposed Revegetation Plan



*FINAL PLANTING LOCATIONS TO BE DETERMINED BY THE REVEGETATION CONSULTANT PRIOR TO INSTALLATION.

- Planting and seeding
- Floodplain roughness & brush placement
- Vegetated brush trenches on point bars
- Reed canarygrass removal
- Fencing and browse protection



Project Benefits Summary

Implementation Timeline





Questions?



Funding provided by:



Bonneville
POWER ADMINISTRATION

In cooperation with:

