Gray's Meadow Remediation and Restoration Project

May 18, 2022 BEIPC Meeting

Sophie and State

Gray's Meadow

Gray's Meadow Remediation and Restoration

- 695-acre wetland site owned by IDFG that was previously drained for agriculture and is contaminated with heavy metals.
- EPA, IDFG and RP are collaborating to remediate and restore the site toward a healthy and historic wetland condition.
- Reduce metals contamination.
- Return agricultural land to productive wetland habitat.
- Provide clean recreational, educational and cultural opportunities for public use.

Gray's Meadow Overview



Cave Lake Wetland Pump Improvement Project

Cave Lake Wetland

- Construction began in March 2021 and was completed May 13.
 - Moved pump discharge from Black Lake to the Coeur d'Alene River.
 - Installed 695 linear feet of 24-inch HDPE pipe.
 - Installed outlet structure along Coeur d'Alene River

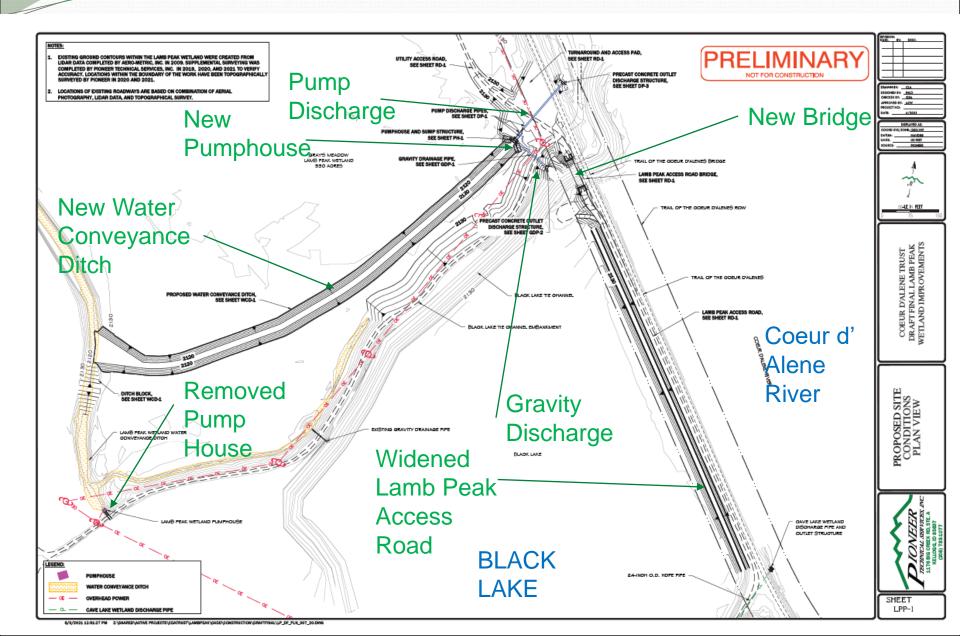


Lamb Peak Wetland Pump Improvement Project

Lamb Peak Wetland Pump Improvement Project

- Construction began October 12, 2021.
- Work includes:
 - Moving pump outlet to Coeur d'Alene River.
 - Installing gravity discharge to Black Lake tie-channel.
 - Moving pumphouse closer to outlet locations within the wetland.
 - Replacing bridge over top Black Lake tie-channel to handle construction equipment.
 - Widening Lamb Peak Access road for construction equipment.
- Construction anticipated to be completed by mid May of 2022.

Lamb Peak Wetland



Lamb Peak Wetland

New Bridge

Lamb Peak Access Road Widening



Lamb Peak Wetland



Sump Structure

Floor for Pumphouse and Conveyance – Channel

Pump Discharge Outlet

Gravity Discharge Outlet Installation



Remediation Design



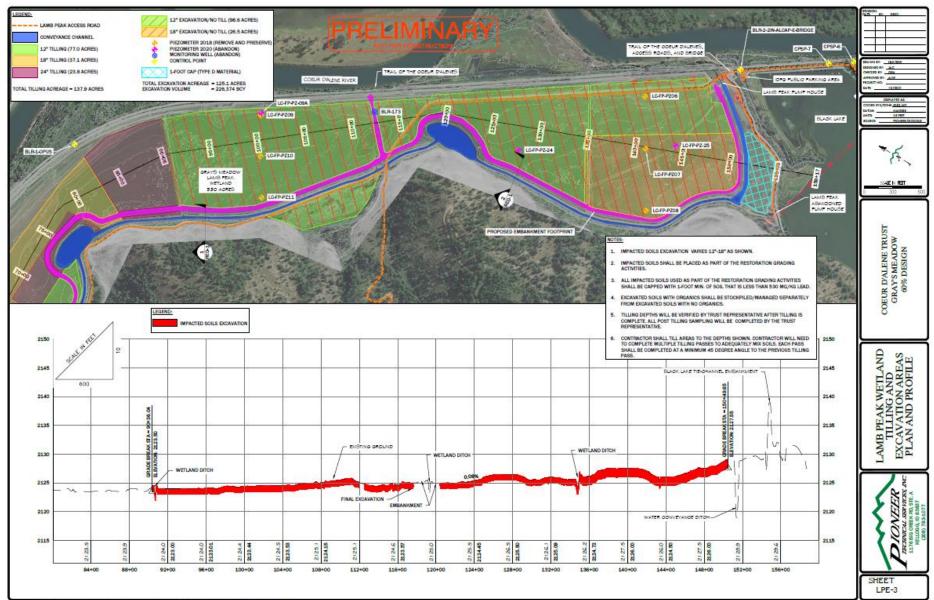
- Remediate soils above 530 mg/kg lead
- Till or remove and cap with 1-foot clean soil to isolate from foraging waterfowl, prevent erosion
- Cover with water to minimum depth of 6 feet year round

Cave Lake Wetland Remediation



10/12/2021 10:18:00 AM 2: SHARED ACTIVE PROJECTS (COATRUST GRAVINE ADOW) CADD (CONSTRUCTION) 60-504 00 PLN 010 21,0WG

Lamb Peak Remediation

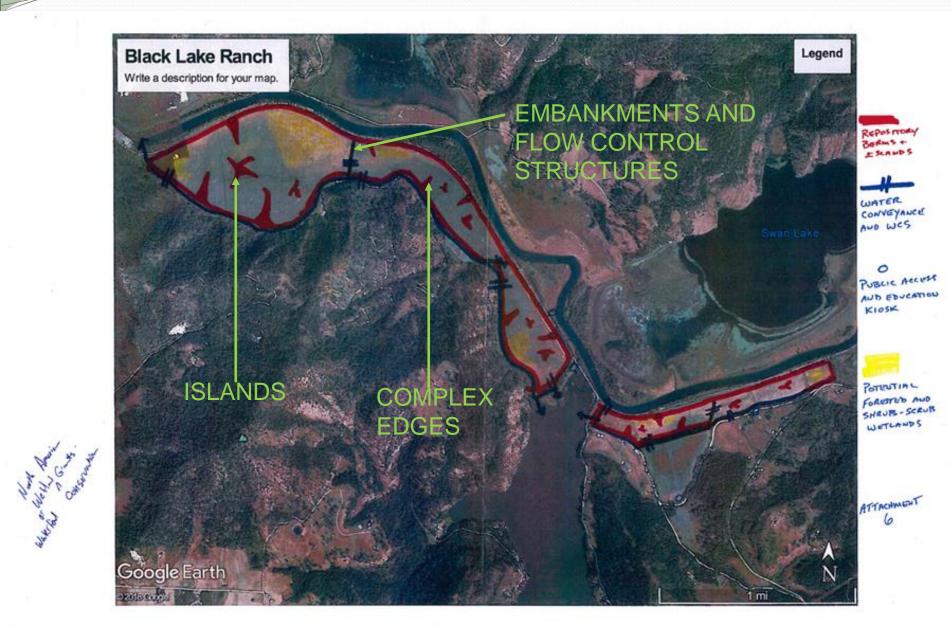


Restoration Design

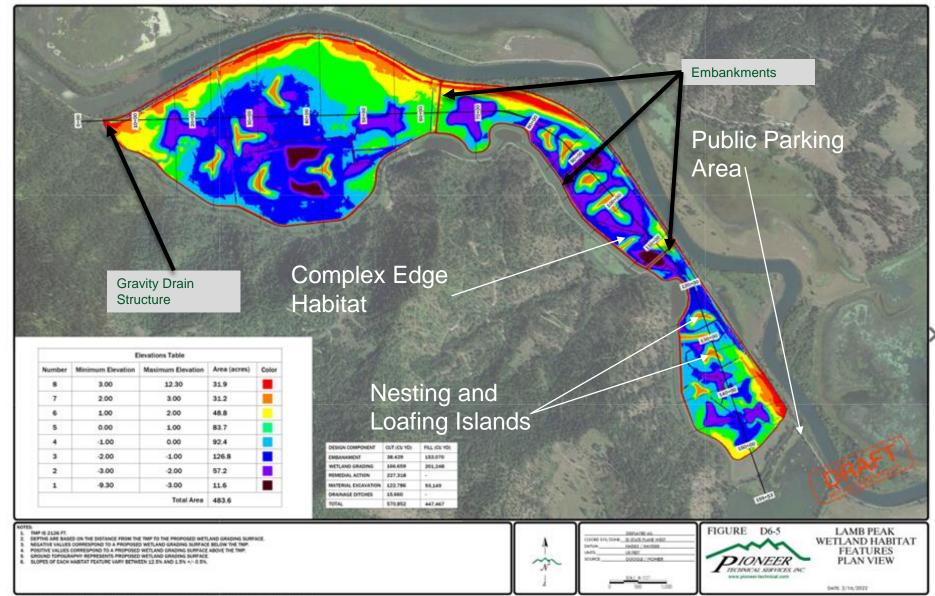
Restoration Design

- Six wetland cells throughout the Cave Lake and Lamb Peak Wetlands, 3 cells in each.
- Allow for water surface elevations to flux plus 3 feet and minus
 3 of the Typical Management Pool elevation.
- Provide infrastructure for water management and maintenance.
 - Inlet and Outlet Controls within each cell (3 cells in each wetland)
 - Inlet and Outlet Controls within each wetland (Lamb Peak and Cave Lake)
- Develop habitat grading to represent the IDFG wetland deptharea targets.
- Incorporate variable and diverse topography with varying edge habitat into the grading to provide hydrological variability in depth and duration.

Restoration Grading From the Beginning



Lamb Peak Wetland Grading



Schedule

- Lamb Peak Construction complete in May 2022.
- 100% Basis of Design Report/Remedial Action and Restoration Work Plan – May 2022.
- Contractor procurement June and July 2022
- Remediation and Restoration Construction August 2022 through 2024.





命

