

BIG WOOD RIVER
SECTION 206 – AQUATIC ECOSYSTEM RESTORATION
SCOPE AND BUDGET BREAKDOWN

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Introduction

The U.S. Army Corps of Engineers (USACE), Walla Walla District, will partner with Blaine County, Idaho, to conduct a Feasibility Study under the Continuing Authorities Program Section 206 – Aquatic Ecosystem Restoration. The project location is on the Big Wood River in the vicinity of Hailey, Idaho, from the confluence of Croy Creek downstream through approximately 1.52 miles to the Colorado Gulch Bridge.

This study will focus on aquatic and riparian ecosystem restoration of the Big Wood River located at Hailey Idaho. Project restoration will focus on habitat for ESA and Tier 1-listed species to include the Yellow-billed Cuckoo, Morrison's Bumble Bee, Western Bumble Bee, and Suckley's Cuckoo Bumble Bee. This project will also benefit 8 tier-2 species and 13 Tier 3 species.

This project will investigate alternatives to develop aquatic and riparian habitat in accordance with the Continuing Authorities Program Section 206 of the Water Resource Development Act (WRDA) of 1996. The Feasibility Study will develop and evaluate alternatives to maximize the ecosystem restoration and habitat values throughout the study reach. A Tentatively Selected Plan (TSP) will be identified and developed and put forward in the Feasibility Report to recommend for construction.

The Feasibility Study will cost approximately \$535,000 at take approximately 2 years to complete. The product will be an integrated Feasibility Report/EA or EIS that will describe and support the recommended actions and confirm the level of support of non-Federal Sponsor to cost share construction.

The following sections are a breakdown of the Project Development Team (PDT) members and their contribution to the project. All budget estimates include time for PDT members to participate in all project meetings and public meetings, as appropriate. During the evaluation of this budget breakdown, if Blaine County determines that they are able to conduct or assist in any of the efforts, then Work-in-Kind credit may be applied that will reduce the overall cash requirements for this project (or potentially expand the scope of the project, if desired).

Project Delivery Team Breakdown

Project Management: The Project Manager (PM) will be actively involved in all phases of the project and will provide financial management, schedule management, and required internal upward progress reporting. The PM will also prepare and coordinate review of the Feasibility Cost Share Agreement (FCSA).

The PM cost also includes a Project Assistant to conduct research, document development, note-taking efforts for some meetings, financial assistance to PDT, editing, and miscellaneous efforts identified during the study.

\$1,500 of the Project Management cost will be used for District Quality Control (DQC) review, discussed below.

Project Management Cost = \$25,000

Plan Formulation: The Plan Formulator (PF) will be responsible for the overall product development and the project deliverables, namely the integrated Feasibility Report. The PF will also provide meeting coordination, as well as coordination and communication with the PDT, Sponsor, agencies and stakeholders. The PF will work with the PM in coordinating with the NFS to make sure USACE is meeting the needs of Blaine County and incorporating all of their concerns.

The PF will work with the PDT to make sure that they are staying policy-compliant. All documents developed by the PF will be policy-, authority-, and legally-compliant with all rules and regulations mandated by the Federal Government.

\$1,500 of the Plan Formulation cost will be used for DQC review.

Plan Formulation Cost = \$95,000

Environmental: The Environmental team, consisting of a general biologist and an environmental resources specialist, will be a significant driver in this project. Their primary responsibilities will be to document existing conditions, identify potential measures, formulate and analyze alternatives, develop the preliminary design of the TSP in collaboration with the H&H Team, and develop the Environmental Analysis (EA) as part of the integrated Feasibility Report. They will also have primary responsibility for NEPA compliance, agency consultations, and the administrative record for the project.

The environmental team will gather and review existing datasets related to biological resources, land use, cultural resources, soils, and water quality. They will conduct required field survey work including an abbreviated Cuckoo survey. A minimum of about \$15,000 will be needed to conduct the Cuckoo survey during the summer of 2020 over the course of four field visits in the summer.

\$1,500 of the Environmental cost will be used for DQC review.

Environmental Resources Cost = \$135,000

Hydrology and Hydraulics: The Hydrology and Hydraulics (H&H) team will also be a significant driver in this project. Their primary responsibilities will be to document existing conditions and data, identify potential measures, formulate and evaluate potential measures, develop the preliminary design of the TSP in collaboration with the Environmental team, and develop documentation for the integrated Feasibility Report.

The H&H team will conduct a data gap analysis on hydrologic and hydraulic information and resources and develop and calibrate the Hydraulics model for the reach for use in documenting baseline conditions, alternatives analysis, and final design. The H&H data and model are also important inputs into the modeling that will be required by the Environmental team.

\$1,500 of the HH cost will be used for DQC review.

Hydraulics and Hydrology Cost = \$160,000

Economics: A district Economist is a vital part of the PDT in developing the benefits portion of the analysis. While a Section 206 project is primarily judged on Habitat Units over a traditional cost/benefit analysis, that cost/benefit analysis is still important to all aspects of the project. The Economist will participate in the alternatives development and analysis and provide inputs into the final integrated Feasibility Report.

\$1,000 of the Economics cost will be used for DQC review.

Geotechnical Cost = \$30,000

Cost Engineering: A Cost Engineer will work with the PDT to develop the initial costs for the alternatives and a more detailed cost estimate for the TSP. The Cost Engineer will also provide an abbreviated cost-risk analysis and provide the Cost documentation for the final integrated Feasibility Report.

\$1,000 of the Cost Engineering cost will be used for DQC review.

Geotechnical Cost = \$20,000

Real Estate Support: A Real Estate Specialist works with the PDT during the project to provide research on ownership, project real estate needs, rights-of-entry, real estate appraisals as needed, and other support in developing the alternatives and especially the TSP.

\$1,000 of the Real Estate cost will be used for DQC review.

Real Estate Cost = \$25,000

GIS Support: A GIS Analyst will gather and organize available GIS datasets, develop maps and other geospatial data for use in modeling efforts and alternatives analysis, and will provide spatial data support to the PDT conducting any identified GIS analyses and in presenting project information spatially.

\$1,000 of the GIS cost will be used for DQC review.

GIS Analyst Cost = \$45,000

Review Requirements: Differing levels of review are a mandate that is part of any project conducted, in coordination with the U.S. Army Corps of Engineers. As the Feasibility Study progresses the levels of review become more independent and intense. These reviews are required to confirm that the study meets all Policy, Engineering, and Legal requirements as mandated by law.

District Quality Control (DQC): District Quality Control review is conducted by senior officials located within the District office. This review is oriented towards Feasibility of the project and to confirm that the study was conducted in accordance with District methodology.

Proposed Total Cost Breakdown

The following table shows the total proposed cost for the project and the Federal and Non-Federal shares of that cost for the Feasibility Study.

Activity	Total Cost	Federal Cost	Non-Federal Costs
Project Management	\$23,500	\$11,750	\$11,750
Plan Formulation	\$93,500	\$46,750	\$46,750
Environmental	\$133,500	\$66,750	\$66,750
Hydraulics and Hydrology	\$158,500	\$79,250	\$79,250
Economics	\$29,000	\$14,500	\$14,500
Cost Engineering	\$19,000	\$9,500	\$9,500
Real Estate	\$24,000	\$12,000	\$12,000
GIS	\$44,000	\$22,000	\$22,000
Review			
District Quality Control Review	\$10,000	\$5,000	\$5,000
Total Cost	\$535,000	\$267,500	\$267,500