REQUEST FOR PROPOSAL (RFP)

Professional Engineering Services

Kuckucéepe téekin (Bull Run Creek RM 0.5) Fish Habitat Enhancement Project Planning and Design

CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION

Department of Natural Resource Fisheries Program North Fork John Day Watershed Restoration Project



RFP NO. 2023-02a-411

Date Re-Issued: December 5, 2023

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Table 1. Critical Proposal and Project Dates:

PROJECT SCHEDULE		
Field Site Tour (Voluntary)	December 19, 2023, at 12:00 PM PST	
Question Submission Deadline	January 8, 2024, at 4:00 PM PST	
Question Responses	January 9, 2024, at 4:00 PM PST	
Proposal Submission Deadline	January 23, 2024, 2:00 PM PST	
Tentative Award Selection (est.)	January 30, 2024	
Contract Award (est.)	February 13, 2024	
Project Initiation	May 15, 2024	
Project Completion	December 15, 2025	

1.1 Project Purpose and Location

The Confederated Tribes of the Umatilla Indian Reservation (CTUIR), Department of Natural Resources (DNR) Fisheries Program is requesting proposals from professional engineering firms to plan and design a fish habitat and floodplain restoration for 0.73 miles of federally managed stream miles and up to 1.02 miles of privately owned areas of Bull Run Creek. Implementation of the project will restore floodplain and geomorphic processes and functions that create high quality, resilient habitat for fish and wildlife resources. The project area is important habitat for Endangered Species Act (ESA) listed threatened summer steelhead and bull trout and unlisted spring Chinook salmon, Pacific lamprey, and resident naïve fish.

The project is located in the Granite Creek basin, a tributary of the North Fork John Day River, upstream of Granite, Oregon along Bull Run Creek between river miles 0.0 and 2.04. The project reach sits at an elevation of approximately 4,500 feet with contributing watershed area of 30mi² which is predominantly spring-fed and snowmelt driven.

Fish habitat, channel morphology, floodplain connectivity, and riparian wetland habitat have been degraded by historic beaver trapping and more recent and disruptive placer mining which left tailings as they currently are by the early 1940s. Bull Run Creek was left to flow within tailings with limited to no potential for erosion of tailings and access to remnant pieces of undisturbed floodplain. As a result of mining Bull Run Creek lacks sufficient floodplain connection and floodplain and stream channel complexity and poor spawning and rearing opportunities.

The Project area (Figures 1-3) encompasses ~28.75 acres of floodplain habitat on federally managed land and ~36 acres of floodplain on privately owned lands. This area presents a significant opportunity to increase natural production and biological fitness of fishery resources.

Project planning and engineering services are being solicited to provide expertise in fish habitat and floodplain restoration design. Tasks and services include interdisciplinary team participation, assessing existing condition, refinement of goals and objectives, existing and proposed condition hydraulic modeling, sediment analyses, field survey, design iterations (15% concept, 30%, 60%, 80%, and 100%) with accompanying design report that meets U.S. Forest Service's ARBO II requirements, construction specifications, and stakeout files for construction. Tasks also include establishing survey controls and wetland inventory.

Designs for federally managed stream channel and associated floodplain areas will be developed to the 100% level. Designs associated with private lands will be developed to the 30% level with 60% - 100% design steps dependent upon further landowner participation.

Proposals that present creativity, efficiency, and/or novel approaches are strongly encouraged and will be weighted more heavily. Contractors are encouraged to present first level descriptions/concepts of the site to portray creative approaches.



Figure 1. Kuckucéepe téekin (Bull Run Creek RM 0.5) Project Area



Figure 2. Aerial image of LiDAR data overlaying aerial imagery of the project area's downstream portion.



Figure 3. Aerial image of LiDAR data overlaying aerial imagery of the project area's upstream portion.

Project Goals and Objectives

The long-term vision (CTUIR's River Vision) for the Project is restored hydrologic and geomorphic processes and function. The planning and design process will be guided by process-based restoration approaches that address habitat limiting factors, resilience, and climatic changes. Potential strategies may include a range of treatments reflecting technical, permitting, fiscal, and landowner constraints to meet collaborator goals and objectives.

This effort also builds upon WWNF's Essential Projects identified in the 2012 Watershed Restoration Action Plan for the Bull Run Creek Watershed (USFS, 2012a) developed under the U.S. Forest Services Watershed Condition Framework (USFS, 2011), incorporate the CTUIR's First Foods policy and primary touchstones described in the 2008 Umatilla River Vision and Upland Vision to address limiting factors identified in the John Day River Restoration Strategy (CTWSRO, 2015), and be consistent with the Mid-Columbia Steelhead Recovery Plan (NMFS, 2008), Draft Columbia River Bull Trout Recovery Plan (USFWS, 2015) and the John Day Subbasin Plan (NPPC, 2005).

Project objectives include:

Objective 1 – **Floodplain Reconnection** - Restore connectivity to promote hydrologic and geomorphic processes that develop and maintain complex and resilient habitat, hydrate/store water, attenuate floods, and buffer water temperatures. Floodplain habitat includes peripheral and transitional habitat such as side channels, wetlands, and alcoves.

Objective 2 - Channel Morphology Restoration - Enhance in-stream structural diversity and complexity by reconnecting historic floodplain, side channel networks and restoring stream confluences, promoting natural channel function and form and developing diverse and complex riparian and wetland habitat.

Objective 3 – **Instream Habitat Structure and Complexity** - Increase instream habitat structure and complexity through large wood complex additions that promote roughness, scour, sorting, and storage of sediment commensurate with reference condition wood loading.

Objective 4 – Riparian/Wetland Restoration and Management – Connect the floodplain to increase hydration and restoration of hydrophytic plant communities which support long term development of diverse and resilient native plant communities and seral stages.

Objective 5 - Water Quality-Temperature – Promote floodplain and geomorphic processes that support riparian/wetland vegetation, groundwater and hyporheic storage/exchange, and hydrodynamics to decrease summer water temperatures, increase winter water temperatures, and moderate and buffer diurnal water temperature fluctuations during both summer and winter rearing periods.

Objective 6 – **Passage** – Improve channel form and complexity and stream crossings to more effectively address sediment, debris and aquatic organism passage within Bull Run Creek and tributaries within the project area.

1.2 Scope of the RFP

This RFP describes the specific services to be contracted and provides information for preparation and submittal of proposals. An explanation of the proposal evaluation process is provided with terms and conditions of the contract that may be awarded as a result of the RFP.

Project planning and design will include interdisciplinary team participation, scoping, refinement of goals and objectives, field survey and data collection, compilation of available data and information (e.g., 2021 LIDAR, stream gage data, etc.), hydraulic modeling and sediment analyses, development and analyses of alternatives, selection of preferred alternative, participation in the USFS's ARBO II review process at 15, 30, 60, 80% design intervals and preparation of final design, construction drawings and specifications, design report, and construction cost estimate. Work will include relevant wetland assessment/delineation, evaluation of hydrologic connectivity between wetlands and Bull Run Creek, and evaluation of tailing composition through tailing profile.

The Contractor shall provide a detailed construction cost estimate with itemized features and quantities necessary for CTUIR Oregon DSL/USACE Fill-Removal permitting. CTUIR will address project construction permitting requirements not covered by ARBO II.

The Contractor's bid will demonstrate diligence and focus on bid preparation with specific effort directed at the evaluation, identification and suggested resolution of any discrepancies, lack of clarity, or other questions arising from the evaluation of the design plans, specifications, permit or supplementary project materials that may affect the timing, schedule, execution, or unforeseen expenditures related to the project.

1.3 Project Timeline

Project planning and design is expected to begin <u>June 1, 2024 with completion by December 15,</u> 2025.

1.4 Closing Date for Proposal Submission

The closing date for submissions will be January 23, 2024, 2:00 pm, Pacific Standard Time (PST).

Proposals are to be submitted via e-mail to: julieburke@ctuir.org by the date and time noted above. Subject line of should read: "Kuckucéepe téekin (Bull Run Creek RM 0.5) Planning and Design."

Contractors must send proposals in PDF format.

1.5 In Writing

Proposals must be prepared by computer or typewriter. No oral, handwritten, telephone, e-mail, or facsimile proposals will be accepted.

1.6 Necessary Information

Proposals must contain all information requested in the RFP. The CTUIR will not consider additional information submitted after the Closing Date and may reject incomplete proposals.

1.7 Cost of Proposals

The CTUIR shall not be liable for any expenses incurred by Contractors in either preparing or submitting proposals, evaluation/selection, or contract negotiation process, if any.

1.8 Request for Clarification

Contractors may submit a written request for clarification via email by January 8, 2024 at 4:00 PM. Questions regarding the RFP or request for clarification shall be emailed to the RFP technical contact. The CTUIR will not consider any requests submitted after the time specified above.

1.9 Response to Requests for Clarification

Responses to questions will be provided no later than January 9, 2024 at 4:00 PM.

1.10 Proposals Constitute Firm Offers

Submission of a Proposal constitutes the Contractor's affirmation that all terms and conditions of the Proposal constitute a binding offer that shall remain firm for a period of ninety (90) days from the Closing Date.

1.11 Signature Required: Proposer Affirmations

An authorized representative of the Contractor must sign the original Proposal Manually (then scanned) or by electronic signature. Contractor's signature and submission of a signed Proposal

in response to the RFP constitute Contractor's affirmation that the Contractor agrees to be bound by the terms and conditions of the RFP and by all terms and conditions of the Contract awarded.

1.12 Type of Contract

The CTUIR shall execute a Subcontract for Technical Services.

1.13 Confidential Information

Proposals are confidential until the evaluation and selection process has been completed and the CTUIR has issued a notice of tentative award. Any information a Contractor submits in response to the RFP that the Contractor considers a trade secret or confidential proprietary information, and Contractor wishes to protect from public disclosure, must be clearly labeled with the following:

"This information constitutes a trade secret or confidential proprietary information and is not to be disclosed except in accordance with applicable public disclosure laws."

1.14 Requests for Further Clarification of Proposals

The CTUIR may request additional clarification from Contractors on any portion of the Proposal.

1.15 Cancellation of RFP

The CTUIR may cancel this RFP at any time upon finding that it is in the CTUIR's best interest to do so.

1.16 Rejection of Proposals

The CTUIR may reject a particular Proposal or all Proposals upon finding that it is in the CTUIR's best interest to do so.

1.17 Tentative Award and Contract Negotiations

The CTUIR will provide a written tentative award notice to the responsible Contractor whose proposal is deemed to be most advantageous and of best value toward meeting the project objectives. The CTUIR will enter into negotiations with the responsible Contractor on the following contract terms: (a) Contract tasks; (b) Staffing; (c) Performance Schedule; and (d) A maximum, not to exceed contract price, which is consistent with the Proposal and fair and reasonable to the CTUIR, taking into account the estimated value, scope, complexity, and nature of the services to be provided. The CTUIR may also negotiate the statement of work and, at its discretion, add to the scope of services based on a Contractor's recommendations (but still within the scope of this RFP) or reduce the scope of services.

The final award will be contingent upon successful negotiation of a contract within 14 days after the tentative award.

The CTUIR may terminate negotiations if they fail to result in a contract within a reasonable time. The CTUIR will then enter into negotiations with the next responsible Contractor, and if necessary, the third responsible Contractor. If the second or third round of negotiations fails to result in a contract, the CTUIR may formally terminate the solicitation.

1.18 Protest of Tentative Award Selection

A notification of tentative award to the responsible bidder will be sent to all Contractors that submitted a Proposal in response to this RFP. A Contractor who claims to have been adversely affected by the selection of a competing Contractor shall have seven (7) calendar days after receiving the notice of selection to submit a written protest of the selection to the RFP contact listed in Part 1.4. The CTUIR will not consider protests submitted after the date established in this Part. The protest must specify the grounds upon which the Protest is based.

1.19 Award

After expiration of the seven (7)-calendar day selection protest period and resolution of all protests, the CTUIR will proceed with final award.

1.20 Investigation of References

The CTUIR reserves the right to investigate the references and past performance of any Contractor with respect to its successful performance of similar services, compliance with RFP and contractual obligations, and its lawful payment of suppliers, subcontractors, and employees. The CTUIR may postpone the award or execution of the contract after the announcement of the apparent successful Contractor in order to complete its investigation. The CTUIR reserves the right to reject any proposal at any time prior to the execution of any resulting contract.

1.21 Amendments

The CTUIR reserves the right to amend the resulting Contract from this RFP. Amendments could include, but are not limited to, changes in the statement of work, extension of time and consideration changes for the Contractor. All amendments shall be in writing and signed by all approving parties before becoming effective. Only the CTUIR has the final authority to execute changes, notices or amendments to Contract.

1.22 Tour of Site

Site Tour scheduled for **December 19, 2023, at 12:00 PM PST.** Interested Contractors will meet Project technical contact at Granite, Oregon. Access is provided from Grant County Road 24 from the south as at this time of the year assuming access from the north along the and U.S. Forest Service Road 73 is typically not possible. GPS coordinates for Granite, Oregon: 44.808933, - 118.423486.

2.1 Scope of Work

This RFP is for floodplain and stream channel fish habitat restoration design and development including replacement of existing culverts on private and federal lands. Work includes processing existing LIDAR data, topographic surveys to augment LIDAR data as necessary, conducting hydrologic and hydraulic analyses, hydraulic modeling, refining objectives, developing and evaluating alternatives, investigations of tailing composition, and developing project design, construction drawings and design report. The design process will follow the USFS's ARBO II process with 15% concept, 30%, 80%, and 100% final design with accompanying hydraulic model analyses, basis of design report, and cost estimate.

The scope of work includes the following:

- Refine project objectives (Statement of Goals and Objectives) and initiate alternatives development and assessment.
- Establish survey control and conduct topographic and feature surveys of existing channel, side channels, constructed ponds, and floodplain to augment LIDAR data.
- Develop hydraulic model to evaluate existing condition and assess proposed condition and alternatives.
- Develop ARBO II design report to provide background data, basis of design, and ARBO II checklists.
- Design floodplain, channels, and rock/large wood features. The engineering team will work closely with collaborators to complete planning and design process.
- Develop final AutoCAD surface and design report that represents proposed conditions, including grading, break lines, alignments, profiles, sections, etc.
- Produce digital design feature files for GPS controlled construction.

Project design will focus on process-based restoration strategy that addresses habitat limiting factors and result in significant habitat uplift fishery resources. The restoration team will be using the USFS's ARBO ESA consultation process. USFS and BPA's restoration review team (RRT) will provide design review beginning at the 10-15% design level. The restoration team will incorporate ARBO II conservation measures for compliance during all construction phases.

2.2 Project Tasks and Milestones

The scope of work will require completing the milestones outlined in Section 2.21 and gathering available information and data for the site, including completing topographic survey and processing existing LiDAR data to provide an existing condition surface for hydraulic modeling which will support assessment of project planning. Project area features (constructed floodplain ponds, structures, channels, etc.), will also be surveyed. Design alternatives will be developed and evaluated by the 30% conceptual design step with selection of a preferred alternative that improves fish habitat opportunities, enhances floodplain connectivity, improves channel/floodplain processes and function, and is constructible at a reasonable cost. Existing project data compiled by the CTUIR will be provided to contractors to initiate the assessment and refine additional data collection needs. These reports include site assessment information, monitoring data, and 2021 LiDAR data.

The Contractor is solely responsible for providing all the equipment and personnel for the completion of surveys. The CTUIR maintains the ownership of all work products collected for the purpose of project design and implementation under this proposal. All horizontal and vertical positions should be based on data gathered from Global Positioning System (GPS) receivers using positions generated from real time kinematic corrections from established project survey reference control points. GIS data will follow the guidelines established in CTUIR GIS Standards & Requirements document (Attachment B).

Project planning includes scoping, communication with partners, development of alternatives and concepts, and selection of a preferred alternative. The preferred alternative will be further developed through an iterative process, as outlined in Table 2, with design intervals of 15, 30, 60, 80, and 100%. Requirements of the ESA will be completed through the USFS's ARBO II process with review by the USFS Restoration Review Team (RRT) and will begin with the 15% Conceptual Design and continue through Final Design. A draft Basis of Design Report (BDR) will be developed at the 30% design stage and submitted to the RRT as well as project partners. Review comments will be considered and incorporated into the 60% Preliminary Design.

2.21 TASKS

Anticipated tasks for the conceptual development and analysis include:

Task 1 – Topographic Survey Project Area

Establish a network of survey control points and topographic survey of the project area to augment existing LIDAR data. Survey may include data collection for floodplain, channels, constructed ponds, structures, etc., to refine existing condition surface. Contractor will be expected to collect and analyze geomorphic and hydrologic data as necessary for describing and predicting specific hydrologic conditions related to floodplain connectivity, channel morphology, aquatic habitat, and riparian and upland vegetation.

Task 2 – Hydraulic Modeling and Hydrologic Assessment

Conduct hydrologic analysis and create existing and proposed condition 1D hydraulic model. Proposals should detail proposed survey methodologies, data products, and modeling methods that will be used to develop and evaluate the proposed design. Analysis will include the development of the proposed hydrological model (HEC-RAS, or equivalent) and identification and modeling of historic and existing geomorphic and habitat features. This may include an evaluation of relative wetland and stream water level elevations and evaluations of tailing composition and size and distribution though tailing pile profiles.

Task 3 – Prepare Design Plan Set

Project drawings and specifications will be prepared to facilitate implementation and permitting requirements. A final AutoCAD surface and stakeout file for channel design and floodplain grading suitable for construction will be developed. Drawing content will also reflect all required regulatory conditions needed to facilitate permitting, contracting, and the bid process.

Task 3 – Develop Design Report

A Basis of Design Report will be prepared to summarize in narrative form the design objective(s), background data, design criteria, assumptions, procedures, and decisions used in design.

Task 4 – Conduct Wetland Assessment

Complete a wetland assessment to meet the requirements of permitting agencies (e.g. USACOE, ODSL).

Task 5 – Develop 80% to 100% Designs on Private Lands

Complete designs of private lands to the 100% level where landowners choose to cooperate. This may include development of floodplain and stream channel features and culverts as needed. Potential private properties proper include ~1,100' of creek with one culvert (Parcel 301), ~800' of stream with one culvert (Parcel 500), ~800' of stream (Parcel 600), ~1,600' of stream with two culverts on Bull Run Creek and one off of the creek (Parcel 700 & 800), and ~1,100' of stream with one culvert off of Bull Run Creek (Parcel 1300). Changes may occur to this list but for the purposes of contractor proposals include these properties as bid items.

Task 5 – Develop USFS 7366 Road Culvert Design

Complete designs for the USFS 7366 culvert located within the Bull Run Creek culvert that meet USFS and ODFW design specifications.

Task 6 – Hydrologic Connectivity and Tailing Composition

Conduct an investigation of hydrologic connectivity between wetlands and ponds to assess relative water levels and inundation and sample tailings to identify composition and stratification through the tailing profile.

Task 7 – Implementation Oversight/As-Built

Provide staff to contribute to implementation oversight. This will include developing an as-built design after implementation is complete.

2.3 Deliverables and Timeline

Table 1. Required Project Milestones.

Title	Brief Description and Completion Date	Responsible Party
Site Tour and Kick Off Planning Meeting	Conduct site visit with Planning Team. (June 1, 2024). Project scoping, refine goals and objectives, and initiate concept development	CTUIR, WWNF, Consulting firm
Compile Site Data	Exchange data and information with consulting firm that supports project planning and design (July 15, 2024).	CTUIR, WWNF, Consulting firm
Field survey, data collection, and hydraulic modeling	Collect survey data (features and topographic data to augment 2021 LIDAR data). Develop hydraulic model. Evaluate existing condition (August 15, 2024).	Consulting firm
Design Meetings	Refined objectives, develop and evaluate alternatives, select preferred alternative. (September 15, 2024).	CTUIR, WWNF, Consulting firm
15 Percent conceptual drawings and review and selection of alternatives	Prepare concept design, hydraulic modeling, initiate RRT review (October 15, 2024).	Consulting firm, private landowners, CTUIR, and WWNF. Complete review by USFS RRT.
30 Percent design drawings and draft Basis of Design Report	30 Percent Design and draft Basis of Design Report (May 1, 2025).	Consulting firm, private landowners, CTUIR, and WWNF. Complete review by USFS RRT.
80 Percent design drawings, and draft Basis of Design Report.	80 Percent Design Package and draft Construction Specifications (October 1, 2025).	Consulting firm, private landowners, CTUIR, and WWNF. Complete review by USFS RRT.
100 Percent final design drawings, and Basis of Design Report with Construction Cost Estimate.	100 Percent Design Package including final Basis of Design Report, bridge inspection, wetland delineation, drawings, draft Construction Specifications, estimated materials quantity and cost estimate (November 15, 2025).	Consulting firm, private landowners, CTUIR, and WWNF. Complete review by USFS RRT.

2.4 Team Competencies

The following are expected minimum consultant team competencies. One person might fill more than one role, and it is expected that proposals will include additional competencies as required.

- Project Manager (Coordination and Planning)
- Civil/Hydraulic Engineer (with current Oregon PE License)
- Geomorphologist/Hydrologist
- Fish Biologist/Botanist/Ecologist/Wetlands

2.5 Required Proposal Components

For the purpose of this RFP, prospective contractors will submit a proposal package (maximum 40 pages) to the Administrative Contact (see Section 1.4) that includes the following components:

A. Cover letter

- B. Executive summary
- C. Proposed method of task completion
 - a. Describe proposed methods, approach, and expected deliverables to assess conceptual alternatives that address project goals and objectives. Creative and innovative approaches and alternatives are encouraged.
 - b. Include the development of baseline and proposed conditions.
 - c. Explain how the requirements for USFS's ARBO II process will be completed and how design tasks will inform that process.
 - d. Describe the final design outputs and products.

D. Qualifications and experience

- a. Company background and available resources: Provide information regarding the areas of specific expertise and types of services offered by the company and technical staff that relate directly to this scope of work. Describe engineering experience and expertise within the region related to designing improved fish passage and habitat conditions for salmon and steelhead.
- b. Design team: Provide a description of the specific design team members and their qualifications relevant to improving fish passage and natural river design. Staff biographies for each member should be included and demonstrate experience in hydraulic modeling, channel design, and habitat restoration driven by habitat limiting factors and fishery life history requirements.
- c. Project examples: Identify and describe a minimum of three engineering design projects similar to the proposed project, which has been successfully completed within the past five years.

E. Project Schedule

- a. Provide a detailed project schedule consistent with meeting milestones and dates identified in Table 2.
- b. Modifications to the timeline within the stated initiation and completion dates for improved effectiveness and/or efficiency are encouraged.

F. Price Quote

- a. Provide a project planning and design budget that details hours and rates for each primary design team member to complete the proposal tasks.
- b. Include costs for all subcontractors.

G. References

- a. Provide at least three client references.
- b. Include contact information (names, physical and email addresses, phone numbers), project type, general project actions, and cost.

Proposal selection will be completed through a quality-based selection process (QBS) by a review team. The criteria to be evaluated and weighted are: 1) Adequacy of Technical Proposal, 2) Personnel and Company Qualifications, 3) Costs, and 4) Indian Preference.

- I. Adequacy of Technical Proposal: (180 points) 45%)
 - Proposal content and applicability of the approach and methodologies for addressing and completing tasks and milestones in Section III (100)
 - Creative, efficient, and/or novel approaches presented (30)
 - Development of conceptual plan and alternatives (25)
 - Adequacy of proposed modeling and data analysis methods (25)

II. **Personnel and Company Qualifications**: (120 points) 30%

- Technical experience of principal project staff related to the project performance (50)
- Experience in developing and engineering similar passage design projects (50)
- Educational qualifications related to the project performance (20)
- III. **Cost:** : (80 points) 20%

Design cost and value will be considered for addressing all questions and completion of all tasks described in Section 2

VI. Indian Preference: 20-points (5%)

Must meet these factors in order to secure Indian Preference status;

- Membership in a Federally recognized Tribe;
- Indian Ownership of 51% or more;
- Indian Control;
- Indian Management;
- Financing obtained by Indian person; and,
- Equipment obtained by Indian person.

The CTUIR will issue a contract agreement to the responsible Contractor whose proposal is deemed to be most advantageous and of best value towards meeting the project objectives.

Attachment A: Project Site Vicinity Map

