

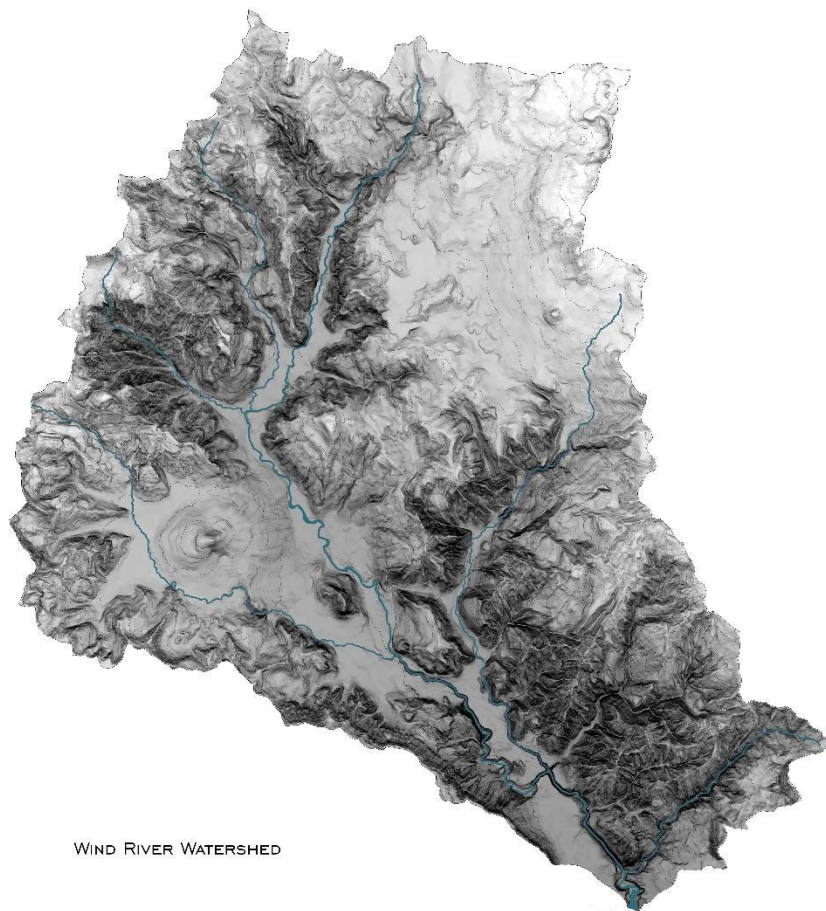
REQUEST FOR PROPOSALS

GEOMORPHIC ASSESSMENT SERVICES

Lower Dry Creek Geomorphic Assessment

Wind River, Carson, WA

Response Deadline: April 15th, 2024, 5:00 pm



WIND RIVER WATERSHED

Yakama Nation Fisheries - Klickitat Field Office
P.O. Box 215, Klickitat, WA 98628
Phone: 509-369-3567 | E-mail: phayden@ykfp.org

Anticipated Timeline

Proposal Submission Deadline:	April 15, 2024 – 5:00pm
Tentative Award Selection:	April 30, 2024
Project Initiation (estimate):	June 1, 2024
Survey	July/Aug 2024
Alternatives Analysis/Conceptual Design	October 2024
30% Progress	December 2024
60% Progress	March 2025
Final Products completed	June 1, 2025

Please send questions in writing so responses can be shared with other interested parties.

Revisions, updates and answered questions will be posted to:

<https://yakamafish-nsn.gov/contact-us/open-rfqrfps>

New webpage: <https://yakamafish-nsn.gov/lower-dry-creek-geomorphic-assessment>

Please check this site before submitting your proposal.

I - PROJECT OVERVIEW

The **YAKAMA NATION (YN)**, southern Territories Habitat Project (STHP), as project technical sponsor, is soliciting Request for Proposals for Geomorphic Assessment Services for analysis, contextualization of current stream conditions, and to develop an implementation plan to enhance existing conditions for ESA listed salmonids and restore watershed processes in Lower Dry Creek, in the Wind River Watershed, Carson, WA.

The Dry Creek subwatershed is characterized by an older, steeper, and more dissected landscape, drained by Dry Creek and Big Hollow. Steep slopes, incised channels and evidence of mass wasting are common, and a larger share of runoff occurs via surface channels. The intent of the geomorphic assessment is to inform the development of restoration designs by providing details on the geophysical template of the lower Dry Creek watershed to inform the approach and to frame expectations for stream response from interventions.

Summer steelhead are distributed throughout the basin, in both the mainstem and tributaries. The majority of Wind River juveniles spend one year in their natal stream before moving down the mainstem to the canyon reaches, where they rear for an additional year before emigrating. Alternatively, some juveniles spend several years in their natal streams with no stop in the canyon reach as they emigrate. Rearing habitat is thought to be the primary limiting factor in the middle Wind River due to: simplification of habitat, lack of large woody debris, floodplain disconnection, lack of sinuosity, little or no cover pool habitat, little or no off-channel habitat, such as side-channels, oxbows or wetlands (Wind River Habitat Strategy, 2017).

The STHP works to restore, enhance, and protect watershed function in Washington tributaries of the mid-Columbia region. Efforts emphasize restoration and protection of Endangered Species Act (ESA)-listed anadromous fish. Activities focus on improving stream processes by resolving watershed constraints and improving habitat conditions in support of species recovery. In 2023, STHP initiated collaboration with staff from the Gifford Pinchot National Forest (landowner) to enhance aquatic conditions to aid the recovery of listed salmonid stocks in the Upper Wind River Basin. The goal is to replenish instream wood in the mainstem Wind River and Dry Creek watershed.

RFP proposals shall include: a desktop assessment of existing LiDAR data and sUAS imagery, potential supplemental topographic survey and/or sUAS survey, review of geologic mapping and potential influence, characterization of hydraulics and watershed hydrology, 1-D modeling, an alternatives analysis, design presentation/s to stakeholders, implementation plan for selected alternative (sequencing, access routes, typical structure design types), identification of additional data needs or analysis, and rate schedule for construction oversight.

II - BACKGROUND

The project is located near Carson Fish Hatchery, river mile 19.2 in the Wind River basin in the NE ¼ of T5N R7E S31 at coordinates (45.8283, -121.97782). The 30-mile long Wind River originates in the Cascade Range, south of Mount Adams and Mount St. Helens. It flows generally south through the Gifford Pinchot National Forest, joining the Columbia River at river mile 154.5 near Carson, in the Columbia River Gorge. The Dry Creek subwatershed provides spawning and rearing habitat for mid-Columbia ESA –threatened steelhead (*O. mykiss*) and rainbow trout.

Status of focal salmonid and steelhead populations in the Wind River subbasin (reproduced from LCFRB 2010). (Table 1).

Species	Population	Recovery priority ¹	Viability		Improve-ment ⁴	Abundance		
			Status ²	Obj. ³		Historic ⁵	Current ⁶	Target ⁷
Fall Chinook ^(Tule)	Upper Gorge	Contributing	VL	M	>500%	n/a ⁸	<50	1,200
Chum	Upper Gorge	Contributing	VL	M	>500%	11,000	<50	900
Winter Steelhead	Upper Gorge	Stabilizing	L	L	0% ⁹	n/a ⁸	200	200
Summer Steelhead	Wind	Primary	H	VH	0% ⁹	n/a ⁸	1,000	1,000
Coho	Upper Gorge	Primary	VL	H	400%	n/a ⁸	<50	1,900

¹ Primary, Contributing, and Stabilizing designations reflect the relative contribution of a population to major population group recovery goals.

² Baseline viability is based on Technical Recovery Team viability rating approach.

³ Viability objective is based on the scenario contribution.

⁴ Improvement is the relative increase in population production required to reach the prescribed viability goal

⁵ Historical population size inferred from presumed habitat conditions using Ecosystem Diagnosis and Treatment Model and NMFS back-of-envelope calculations.

⁶ Approximate current annual range in number of naturally-produced fish returning to the watershed.

⁷ Abundance target were estimated by population viability simulations based on viability goals.

⁸ Historical abundance and recovery goal information is not available at this time due to a lack of information regarding population dynamics.

⁹ Improvement increments are based on abundance and productivity, however, this population will require improvements in spatial structure or diversity to meet recovery objectives.

Goal & Objectives:

The geomorphic assessment will utilize on-the-ground observations and analysis of geospatial data to identify the underlying influences of current stream conditions and to develop an implementation plan to enhance existing conditions for ESA listed salmonids. The assessment will provide context on landscape evolution and insights into sediment and wood budgets.

The goals of this project are:

- Full development and evaluation of alternative approaches to provide aquatic habitat improvements for ESA listed Steelhead
- Improve watershed functions to maintain and improve water temperature and late season flows.

- Increase frequency and size of large woody debris to improve hydrologic function, water storage capacity, pool frequency and depth, channel complexity, and floodplain and side channel connectivity.
- Improve channel shape and function in the subwatershed to improve hydrologic function, water quality, floodplain and side channel connectivity, and aquatic habitat.

The objective of this project is to develop an implementation plan to inform fit-in-the-field placement of large wood, within a 12-month timeframe. To accomplish this, we expect to complete the following tasks:

- Contextualize the lower 1.5 mile reach of Dry Creek within the lower ~4.5 miles of Dry Creek (Figure 2, Reach 1) based on the physiography.
- Evaluate the confluence of the Wind River and Dry Creek and potential for mainstem interventions to influence (backwater) the alluvial fan.
- Provide the following field measurements as they pertain to influencing observed stream morphology
 - Key habitat pieces, log jams, grade control, stream channel, floodplain, and peak flow
- Develop plan view design maps with “typical” structure types and location
- Conceptual design document to contextualize wood enrichment approach

Approach:

The design process will consist of Site Reconnaissance (watershed background: geology, hydrology, fisheries, historic anthropogenic impacts, etc.), Topographic Survey (LiDAR, Relative Elevation Model [REM], and a geomorphic assessment), Hydrology and Hydraulics, Draft Preliminary Designs (Alternatives, Access considerations, Design Report, and Drawings), and the implementation plan (Report and Drawings).

Project Sponsor:

Staff associated with the Yakama Nation Fisheries sponsored Southern Territories Habitat Project (STHP) located in Klickitat, WA will oversee this RFP and support the design effort. The broader design team reviewing incremental products, alternatives and draft documents will include personnel from the US Forest Service Gifford Pinchot. STHP works to restore, enhance and protect watershed function within the Klickitat, White Salmon, Wind River and Rock Creek basins. Work emphasizes restoration and protection of Endangered Species Act (ESA) listed anadromous fish. Restoration activities focus on improving stream processes by resolving watershed constraints and improving habitat conditions and water quality factors in support of species recovery.

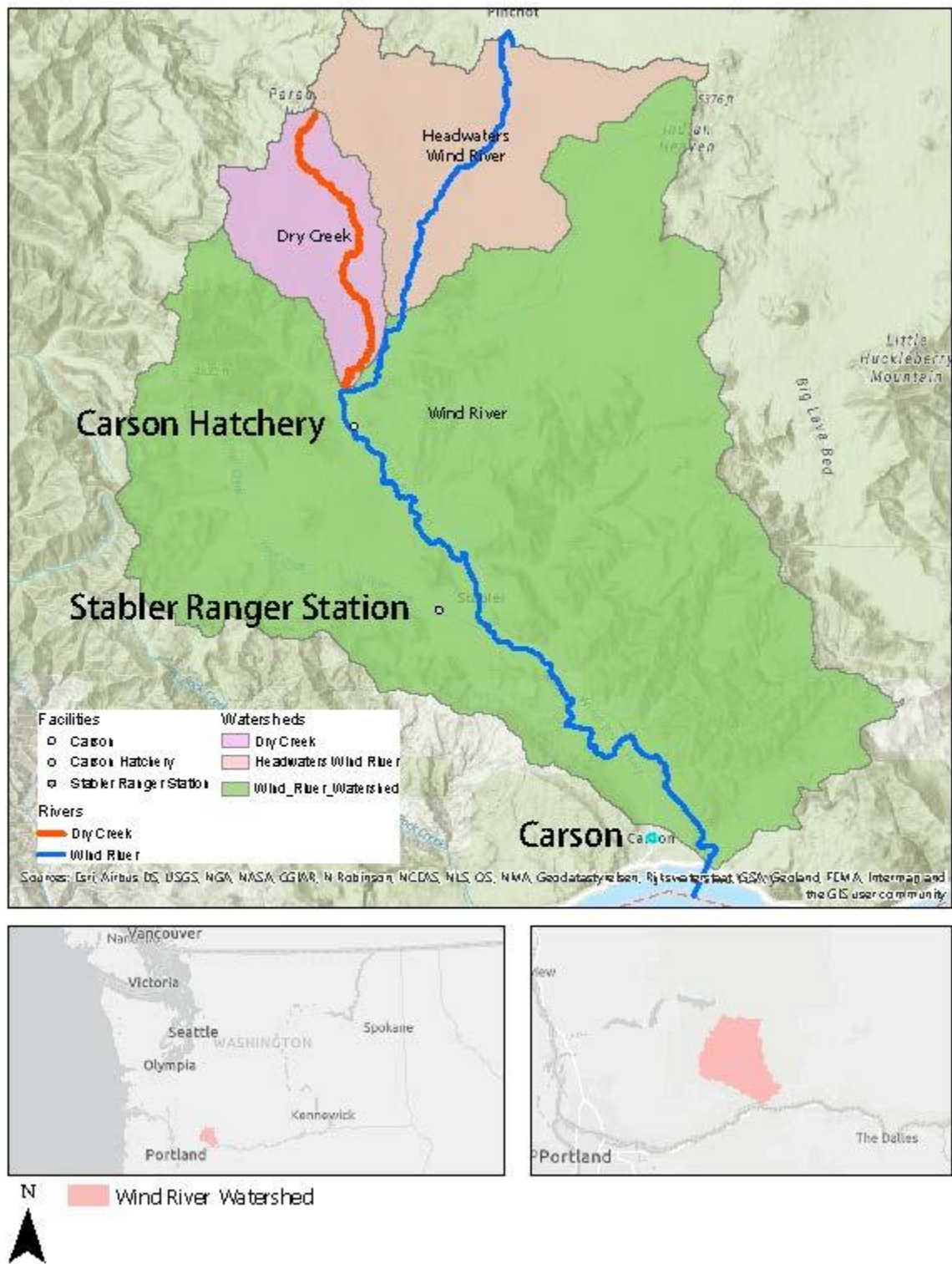
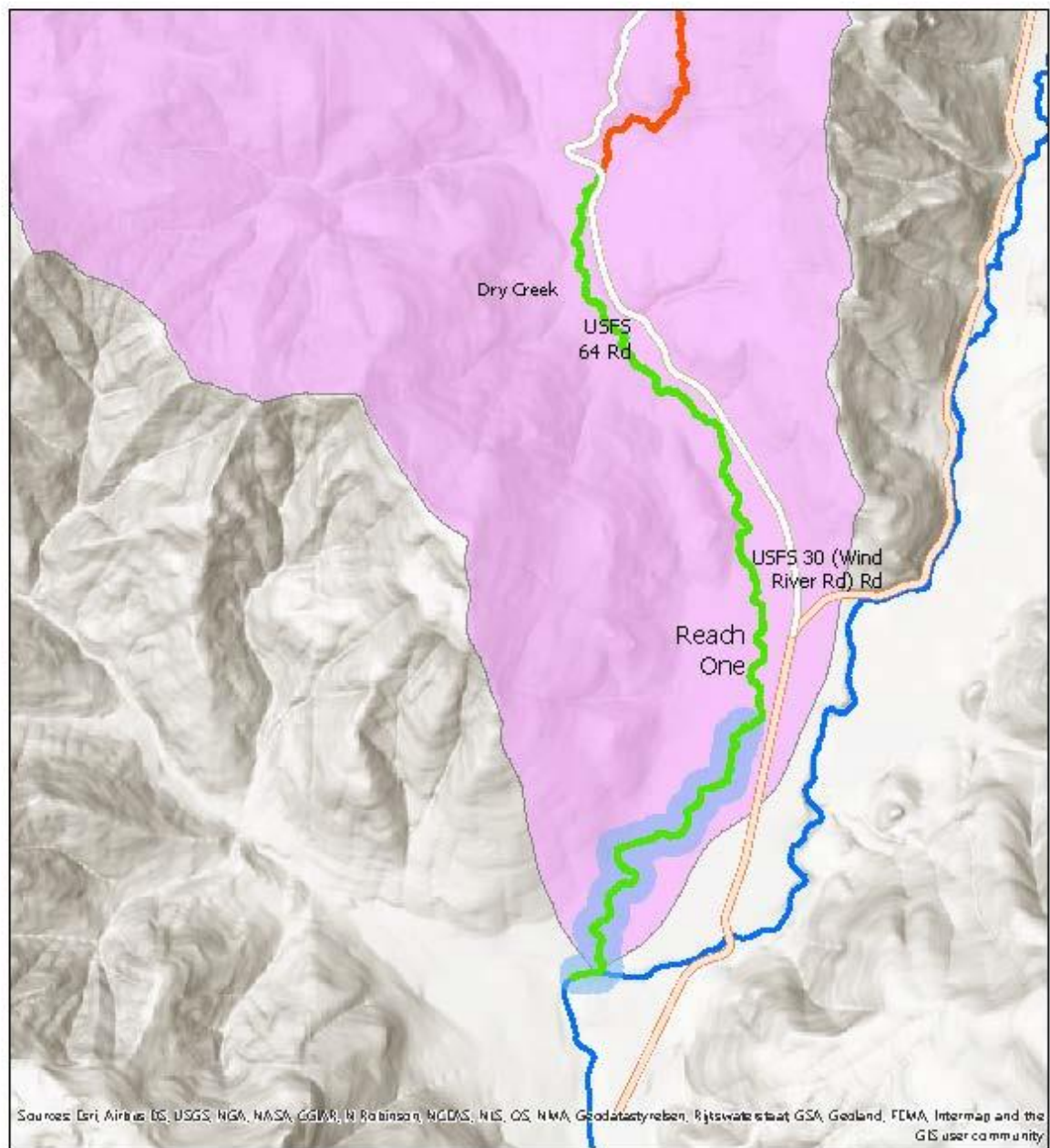


Figure 1: Vicinity map of the Dry Creek, Carson, WA.



- | | |
|------------------------------|-------------------|
| Dry Creek Road | Rivers |
| USFS 30 Rd | Dry Creek |
| USFS 64 Rd | Wind River |
| Reach One | Watersheds |
| Lower 1.5 Miles of Reach One | Dry Creek |

Figure 2: Dry Creek subwatershed, Reach 1, and lower 1.5 mile focal area

III – SCOPE OF WORK

The cost estimate should reflect the following design components:

- A. Site Reconnaissance
 - a. Topographic Survey (if needed to supplement LiDAR)
 - b. Geomorphic Assessment
- B. Hydrology & Hydraulics
 - a. Watershed Hydrology
 - b. Reach Delineation:
 - i. Channel Characterization
 - ii. Relative Elevation Model (REM)
 - iii. Field Measurements (Key pieces, Log Jams, Grade Control, Stream Channel, Flood plain, Peak Flows)
 - iv. 1D/2D model
 - v. Restoration Feasibility for lower Dry Creek and prioritized locations
- C. Presentations to Stakeholders (Existing Conditions, Preferred Alternative and Design Progress)
- D. Draft Preliminary Design & Concept Drawings
 - a. Alternatives Analysis and discussions with stakeholders; potential site visit/s to similar projects and/or Case Studies
 - b. Draft Preliminary Design Drawings
 - c. Draft Preliminary Design Report
 - d. Draft Cost Estimate
- E. Final Plan for Field Implementation
 - a. Revised Cost estimate
 - b. Final basis of design report
- F. Cost Schedule for Construction Oversight Support

Yakama Nation Fisheries Staff (STHP) will provide:

- Project Management and Coordination
- Communications with Landowners and Stakeholders and granting agency for project specifics and deliverables
- Personnel to support a topographic survey
- Aerial photography

IV – TIMING AND DURATION

We expect to award this contract in May 2024 and receive final deliverables by June 1, 2025. Qualified Contractor Proposals shall be received via email no later than 5:00 P.M. Pacific Daylight Time on April 15th, 2024. Bids may be emailed to: Patrick Hayden at phayden@ykfp.org.

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V – MINIMUM QUALIFICATIONS

PROPOSAL SUBMITTAL CONTENT

To be considered responsive to this RFP, the Proposal shall include all items identified in Section III by the deadline specified in Section IV.

PROPOSAL COVER AND COVER LETTER

Clearly label the Proposal cover and the subject line in the cover letter with “Proposal for Lower Dry Creek Geomorphic Assessment.” The cover letter shall be limited to one page and shall identify the consultant name and contact person, their title, mailing address, email address, phone number, and the name of the proposed project manager.

CONSULTANT TEAM STRUCTURE

Provide the team structure, identifying any sub-consultants, including names of lead persons with titles and general project responsibilities, and the physical location of each lead person.

TEAM/PERSONNEL QUALIFICATIONS AND EXPERIENCE

The Proposal will be evaluated for the team and individual team member’s qualifications, general background, and experience in relation to the stated Scope of Work.

PROJECT APPROACH

The Proposal will be evaluated based on the approach and proposed solutions for designing the culvert replacements.

PAST PERFORMANCES/REFERENCES

References may be used to verify the accuracy of information provided in the Proposal. Provide three recent references who can be contacted concerning your firm's/team's RFP. In listing the references, include the name of the client, telephone number, e-mail address, contact person, and the specific work your firm did for the client. Also provide three recent references who may be contacted concerning the performance of your firm's/team's proposed project manager(s). The Yakama Nation reserves the right to contact references other than those submitted by the respondent.

FEE SCHEDULE

The Proposal will be evaluated on the costs associated with the design work. Please include:

- A. Hourly rate by position classification and estimated hours per task
- B. Charges for equipment, printing, or other costs
- C. Direct expenses (if applicable)
- D. Total estimated project costs

VI - SELECTION PROCESS & EVALUATION CRITERIA

Each contractor shall provide references and/or other information related to their proposal that demonstrates their past performance. The owner (Yakama Nation) shall evaluate the qualifications of bidders. The owner shall have the sole discretion and responsibility for choosing the responsive and responsible contractor.

Bids will be evaluated based on the following ranking criteria:

- A. Fee Schedule (20 points)
- B. Relevant Firm Experience (30 points)
- C. Project Approach (20)
- D. Qualification of assigned staff (30)

VII – APPENDICES

Appendix A: Yakama Nation Consultation Services Subcontract will be required of the successful contractor. Please review prior to submitting your proposal.