

SEPA ENVIRONMENTAL CHECKLIST

UPDATED 2014

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants: [\[help\]](#)

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals: [\[help\]](#)

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. background

1. Name of Proposed Project:

Indian Creek Floodplain Restoration Project – Teanaway River Basin (Phase 1)

2. Name of applicant:

William Meyer, Washington State Department of Fish and Wildlife

3. Address and phone number of applicant and contact person:

Primary:

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4. Date checklist prepared:

July 22, 2014

5. Agency requesting checklist:

Washington State Department of Fish and Wildlife

6. Proposed timing or schedule (include phasing if applicable):

It is the intent of the Yakama Nation (YN), in collaboration with the Washington State Department of Fish and Wildlife (WDFW) and the Washington State Department of Natural Resources (WNDR) to restore groundwater storage capacity in the headwaters of the Teanaway River at Indian Creek (Figure 1) by improving floodplain functions. Restoration activities are anticipated to be completed in phases to align with funding opportunities and the completion of the WDFW – WNDR Teanaway Community Forest Plan. The YN is proposing to begin Phase 1 of this project as early as September, 2014 with Phase 2-4 to follow over the next five years; phases are broken down by reach (Figure 2).

Indian Creek Floodplain Restoration Project

Statewide Locator Map

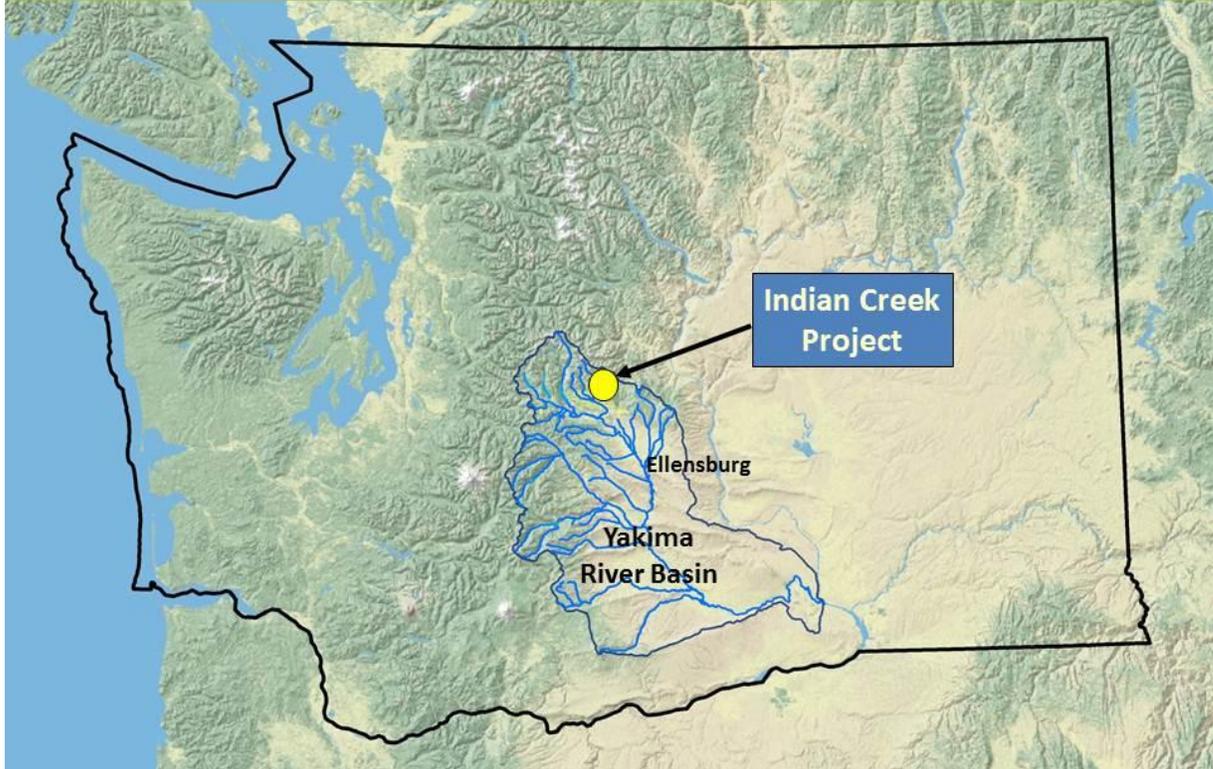


Figure 1. Location of the Indian Creek Project, Kittitas County, WA State.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal:

Yes. The same methodologies and adaptive management techniques will be utilized to construct Phases 2-4. Phases 2-4 would be undertaken consistent with provisions of the Yakima River Basin Integrated Water Resource Management Plan (YIP) (Programmatic Environmental Impact Statement, March 2012). The purpose of the YIP is to develop and implement a comprehensive approach to water resources and ecosystem restoration improvements in the Yakima River Basin. All phases of the Indian Creek Floodplain Restoration Project meet the goals and objectives outlined in the YIP and Phases 2-4 will be located within the Teanaway Community Forest; the Teanaway Community Forest was purchased to support the Habitat/Watershed Protection and Enhancement Element of the YIP. Phases 1-4 are described in detail in Appendix A.

The only future/further activity would be related to monitoring and adaptively managing restoration elements/response of Indian Creek to maximize project effectiveness and contribute to the success of subsequent phases.

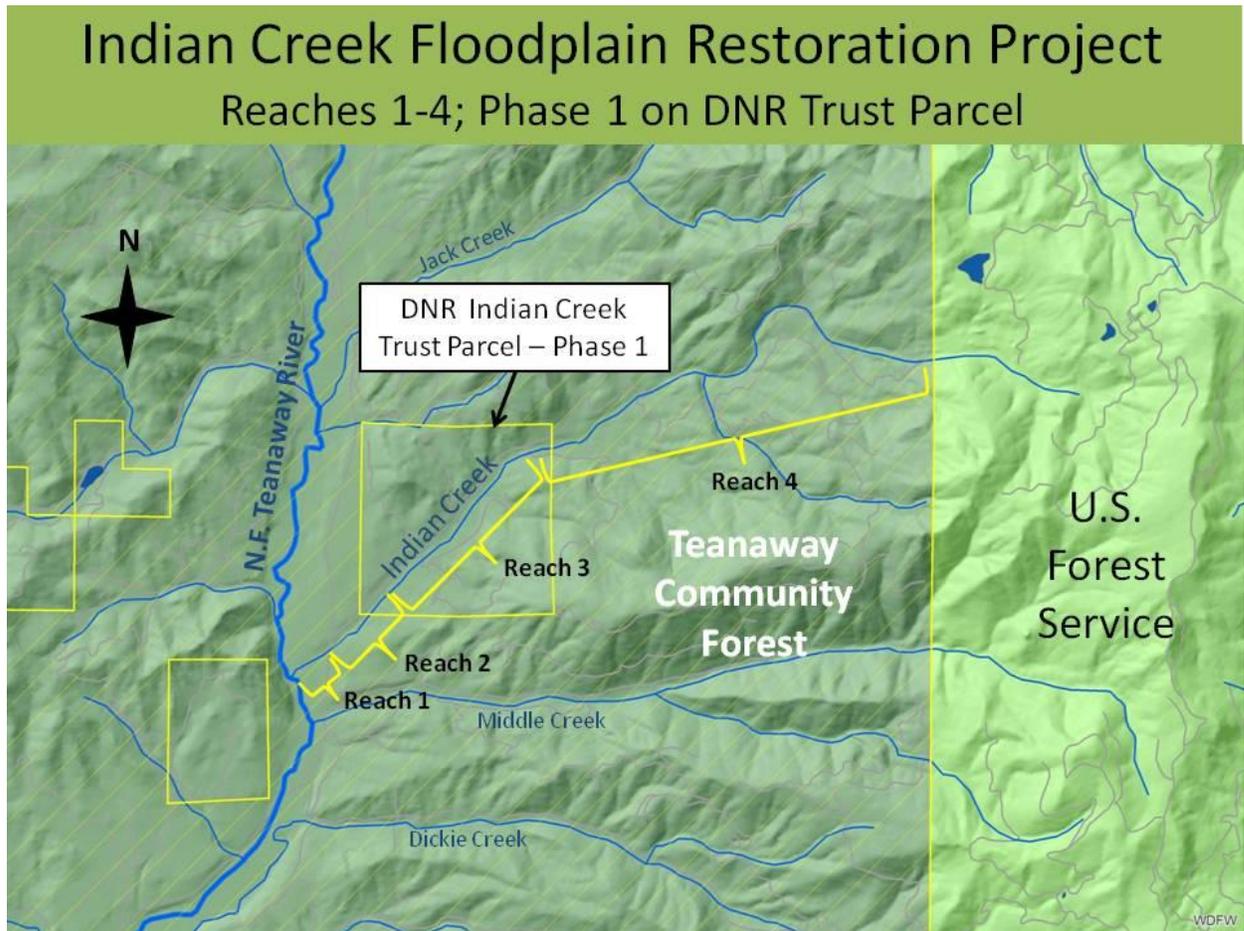


Figure 2. Location of Phase 1 – 4, Tenaway River Basin, Kittitas, WA.

8. List any environmental information that you know has been prepared, or will be prepared, directly related to this proposal:

The following is a list of documents that were used that are applicable to this document:

- Yakima River Basin Integrated Water Resource Management Plan. Programmatic Environmental Impact Statement. March 2012. U.S. Bureau of Reclamation & Washington State Department of Ecology.
- Habitat Limiting Factors: Yakima River Watershed Water Resource Inventory Areas pgs. 37-39, Final Report. 2001. Harling, D., Washington State Conservation Commission.
- Yakima Steelhead Recovery Plan. 2009. Extracted from the 2005 Yakima Subbasin Salmon Recovery Plan with Updates. Yakima Basin Fish & Wildlife Recovery Board.
- Yakima River Steelhead Radio Telemetry Study. 1995. Yakama Nation & Washington State Department of Fish and Wildlife, Yakima/Klickitat Fisheries Project.
- Forest Practices Application/Notification Alternate Plan Form. 2014. Washington State Department of Natural Resources & Yakama Nation.

- 303(d) Database List. 1996. Washington State Department of Ecology.
- Washington Department of Fish and Wildlife's Stream Habitat Restoration Guidelines (2012).
- Oregon Department of Forestry/Oregon Department of Fish & Wildlife, 2010, Guide to Placement of Wood, Boulders and Gravel for Habitat Restoration.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by the proposal:

A Land Use License between WDNR and WDFW is pending and will need to be approved prior before Phase 1 can be started. Phase 2-4 will not be implemented until the Teanaway Community Forest Plan has been approved by WDFW and WDNR; consistent with the provision of the YIP. Phase 2-4 will require approval from WDFW and WDNR prior to permitting for restoration activities to assure alignment with the management goals and objectives within the approved Community Forest Plan, as well as the objectives of the Habitat/Watershed Protection and Enhancement Element of the YIP. All activities must be consistent and with WDNR Forest Practice Rules and data collected will be used to help inform subsequent phases of this project to maximize effectiveness.

10. List any government approvals or permits that may be required for the proposal:

- Ecology Concurrence on SEPA Determination
- USCOE Nationwide Permit(s)
- WDNR Forest Practices - WDFW Hydraulic Project Approval (HPA)
- Kittitas County Shoreline Permit and/or Exemption
- U.S. Department of Energy, Bonneville Power Administration, National Marine Fisheries Service (NMFS), and U.S. Fish and Wildlife Service (USFWS) Programmatic Section 7 Consultation (Endangered Species Act) – Habitat Improvement Program (HIP) Biological Opinion (HIP BO III).

11. Give brief, description of the proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The Indian Creek watershed has been degraded from past land use including construction and management of a logging railroad in the 1920's, livestock grazing, farming, and tractor logging. The stream and associated meadows have lost the large trees and riparian shrubs that would provide roughness features during floods. As a result the stream channel has cut deeper into valley alluvium, and high flows are now trapped in the incised, flume-like channel. This project proposes to use local and transported conifers to restore channel interaction with the adjacent meadows. Approximately 1,000 trees up to 24" in diameter will be placed in complex jams in the stream and scattered randomly on the meadow to restore roughness. Ditches that route surface water to the stream will also be filled with woody material to promote groundwater recharge and to reduce flood peaks downstream of the project area. Placing complex log jams in the stream is expected to cause the channel to re-aggrade, flooding the meadows on a much more frequent basis. This technique is referred to as large wood replenishment, and is described in WDFW's "Stream Habitat Restoration Guidelines" Manual. The proponent has demonstrated the efficacy of this restoration approach in other portions of the Yakima watershed, where wood replenishment has spread floodwaters across publicly-owned meadows. Side channels, stream pool frequency, riparian plants and wetland features have flourished as a result of these projects.

12. **Location of the proposal.** Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist:

The project is in Kittitas County in central Washington State. Indian Creek is a left bank tributary to the North Fork (NF) of the Teanaway River, and is within Township 21N, Range 16E, Section 16 WM. The access road into Indian is 11.1 up the Teanaway Road after turning north from SR 970. From 29 Pines Campground, the access road is south 1.8 miles on the NF Teanaway Road (Figure 3).

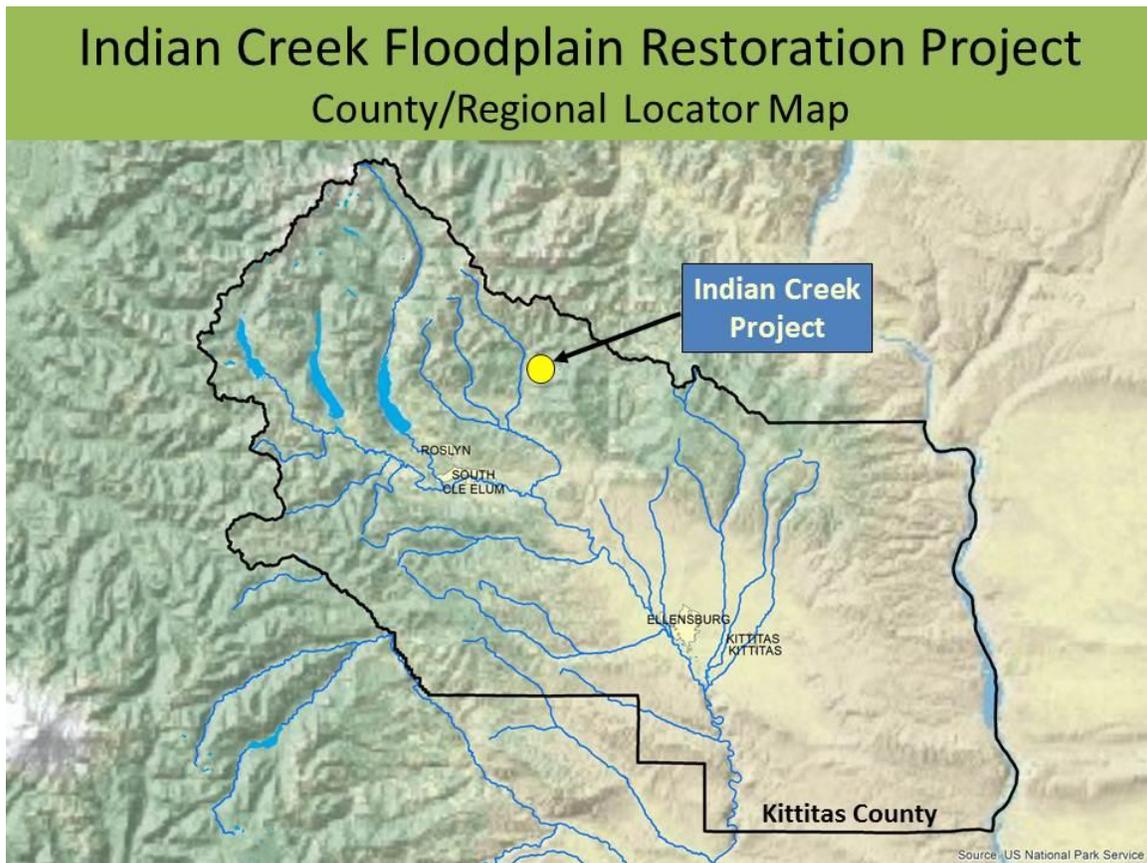


Figure 3. Central Washington, Kittitas County.

B. Environmental Elements

1. Earth

- a. **General description of the site (circle one):** Flat, rolling, hilly, steep slopes, mountainous, other,

The topography along Indian Creek is generally hilly with some steep slopes and adjacent, flat meadow areas.

b. What is the steepest slope on the site (approximate percent slope)?

Sloped topography is generally found within the Ordinary High Water Mark (OHWM) of Indian Creek which is incised (approximate slope = 90%); Trees used for wood structures will not be gathered from slopes greater than a 70% slope.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

A query of soil maps (NRCS, 2012) identified the following dominant soil types within the project area: 139-Nard ashy loam (0-3% slope); 144-Nard ashy loam (5-25% slope); 146-Nard ashy loam (45-65% slope); 160-Cumulic Haploxerolls (0-3% slope); and 164-Nard ashy loam (25-45% slope).

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

Soils in the wood gathering area appear relatively stable. Soils within Indian Creek and adjacent where channel incision is occurring has resulted in a vertical stream bank. There are areas of erosion where the creek has removed the toe of the bank.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

There is no filling or grading proposed for this project.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Yes but limited. Erosion from gathering and transporting wood may occur but it is unlikely. This project was designed to reduce existing erosion occurring being incised. Nonetheless, applicable Best Management Practices (BMPs) such as wetting soils, covering loose soil, and replanting disturbed areas with native vegetation will be deployed as necessary.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

There are no impervious surfaces associated with this project.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

As mentioned previously, BMPs will be deployed to reduce or control erosion in uplands and below the OHWM. YN will assure that staging areas are located in areas previously disturbed to avoid impacts to existing habitat. In addition, YN will work with Conservation labor crews to place slash, reseed, and build contours to minimize erosion. Ground disturbance is not expected to be significant because wood gathering will be minimal, hand winches (grip hoists), utility-tractor mounted skid winches will place logs, and heavy equipment will be restricted to dry areas. Heavy equipment will not operate in or immediately adjacent to the stream channel. Impacts from installing the wood structures should be minor, as wood will be selected from overstocked areas with stable soils.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

It is expected that machines used to bring in crews, equipment, plants, and bank stabilization supplies will release CO² emissions into the air; however the levels would be minimal. Dust will be controlled through BMPs to avoid wind latent sediment.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None are expected.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

The following is a brief list of expected BMPs that will be implemented by the contractor:

- Avoid clearing vegetation
- Use water to wet down dry, exposed soils
- Wash vehicles when necessary to avoid transferring soil materials to roads and/or other locations
- Vehicles/pumps/equipment, etc. will be turned off when not in use
- Replant disturbed areas with native vegetation in consultation with WDFW staff.

3. Water

a. Surface

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Yes. Wood gathered will be placed across Indian Creek, a tributary to the NF Teanaway River. In addition, there are several intermittent streams within the proposed project area.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes. The project proposed is intended to restore groundwater storage capacity within Indian Creek. Trees gathered will be placed directly in or across Indian Creek following recommendations (WDFW's Stream Habitat Restoration Guidelines, 2012 & and the Oregon Department of Forestry/Oregon Department of Fish & Wildlife, 2010 - Guide to Placement of Wood, Boulders and Gravel for Habitat Restoration). YN habitat biologists, in coordination with WDNR and WDFW will determine the exact location to place wood in the field, based on site conditions. The Channel Migration Zone (CMZ) Assessment completed by the YN indicated Indian Creek was an Avulsion Hazard Area and approximately 8000 linear feet of the creek has potential for channel migration across the valley floor. To protect the CMZ, trees will not be gathered from this zone unless necessary to access the site or to promote healthy, riparian growth. Trees will be placed in locations where 1) sufficient densities of standing trees exist such that removal of some will only minimally impact stream shading; 2) where crews have available access points; and 3) at points in the stream where pool habitat as well as stream braiding will benefit fish and wildlife habitat as well as riparian and wetland function.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

There isn't any fill or dredge material associated with this project.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Yes. This is a groundwater storage/floodplain restoration project and occurs in the 100-year floodplain; all wood structures will be placed in the geomorphic floodplain of Indian Creek.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

It is anticipated that restoring groundwater storage capacity and placing wood structures will reduce discharge of eroded materials into Indian Creek overtime; there will be no waste water generated from this project; a minimal amount increases in turbidity may result from placing wood and walking in streams.

Any discharge from cleaning equipment or reducing/controlling upland erosion will not be discharged to surface waters. Equipment will be staged in upland areas that do not slope toward surface waters.

b. Ground

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

N/A.

c. Water runoff (including stormwater)

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

It is not anticipated that waste material will enter ground or surface waters of the state; this project is designed to reduce runoff, including stormwater from runoff events. In addition, ground disturbance will be minimal and there will be no excavation or impervious surfaces that might impact runoff and/or stormwater management. Moreover, runoff in existing ditches will decrease by placing wood and small slash strategically to delay runoff. In addition, deployment of BMP's will further reduce the likelihood that waste materials from equipment, supplies, crew, and soil disturbance will enter the creek bed.

2) Could waste materials enter ground or surface waters? If so, generally describe.

It is unlikely that waste materials would enter Indian Creek. Equipment will be staged in upland areas that do not slope toward surface waters. There is a chance that petroleum products could leak

from chainsaws or vehicles, thus an Ecology approved spill kit will be on-site. Refueling of any/all equipment will occur at a minimum of 150 feet away from the OHWM of Indian Creek.

3) Proposed measures to reduce or control surface, ground, and runoff water impacts, if any.

The project is planned to enhance habitat, and best management practices will be applied to eliminate negative impacts to water quality. There may be some heavy machinery near the streambanks or in wetland areas and there will only be minor excavation to extract trees with rootwads in upland areas. Only minimal ground disturbance will occur from equipment operation. The project will promote channel aggradation, i.e. raising the stream channel to promote overland flow during high flow events. By increasing pool frequency and floodplain function, stream temperatures in Indian Creek will likely be cooler during summer months. In addition, logs will be placed individually to reduce unanticipated runoff from streambanks and/or use of equipment; equipment used to move and place logs will be operated during dry or frozen ground conditions to minimize runoff from soil disturbance.

4. Plants

a. Check or circle types of vegetation found on the site

- _____ deciduous tree: alder, maple, aspen, other
- _____ evergreen tree: fir, cedar, pine, other
- _____ shrubs
- _____ grass
- _____ pasture
- _____ crop or grain
- _____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- _____ water plants: water lily, eelgrass, milfoil, other
- _____ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

It is anticipated that minimal, if any, native vegetation will be removed or altered. Douglas fir and/or true fir trees will be cut and placed in the creek at various locations throughout the 1.3-mile stretch of Indian Creek, as approved by WDNR under a Forest Practices Application (per Forest Practice Rules) and Alternate Plan. Local acquisition of restoration materials reduces carbon footprint. In addition, there will be some disturbance to shrubs and ground vegetation as the 6” to 24” diameter trees are pulled through the forest and into the creek. See Appendix B for details. Equipment used to move and place logs will be operated during dry or frozen ground conditions to minimize runoff from soil disturbance.

c. List threatened or endangered species known to be on or near the site:

Ute ladies'-tresses are federally listed as threatened, but are not known to be present in the Indian Creek watershed. Wenatchee mountain checker mallow are federally and state listed as endangered, but are not known to be present in the Indian Creek watershed.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any :

The addition of large wood to the creek channel will create new braided channels, thereby enhancing the wetland/riparian buffer around Indian Creek. Disturbed and/or un-vegetated areas are expected to be recolonized by native woody vegetation due to a higher groundwater table as a result of this project. Nonetheless, applicable Best Management Practices (BMPs) such as wetting soils, covering loose soil, and replanting disturbed areas with native vegetation will be deployed as necessary. WDFW, in coordination with WDNR will restore any disturbed ground with native plants appropriate for the area, re-close the access road used for project purposes, and all restoration efforts will be monitored over time to assure success.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Birds: hawk, heron, eagle, songbirds, other: owls

Mammals: deer, bear, elk, cougar, beaver, other: small mammals

Fish: bass, salmon, trout, herring, shellfish, other: native minnows, suckers, sculpin.

b. List any threatened or endangered species known to be on or near the site.

Mardon skipper-butterfly-State listed as *Endangered*

Bull trout-fish-Federally listed as *Threatened*, State listed as *Candidate*

MCR Steelhead-fish- Federally listed as *Threatened*, State listed as *Candidate*

Northern leopard frog-amphibian-State listed as *Endangered*

Bald eagle-bird-State listed as *Threatened*

Northern Spotted Owl-bird-Federally listed as *Threatened*, State listed as *Endangered*

Western gray squirrel-mammal-State listed as *Threatened*

Fisher-mammal- State listed as *Endangered*

Gray Wolf-mammal-Federally listed as *Endangered*, State listed as *Endangered*

Grizzly Bear-mammal-Federally listed as *Threatened*, State listed as *Endangered*

Canada Lynx-mammal-Federally listed as *Threatened*, State listed as *Threatened*

All phases of the project have been designed to impacts to any threatened or endangered species known to be on or near the site. In addition, the YN will coordinate and consult with all resource agencies prior to implementation to avoid impacts; particularly when gathering trees in historical Northern spotted owl critical habitat

c. Is the site part of a migration route? If so, explain.

Yes. Indian Creek support migratory birds and mammals that utilize the watershed for seasonal habitat (stop-over habitat). The surrounding public land ownership provides adequate habitat for a variety of animals throughout the year.

d. Proposed measures to preserve or enhance wildlife, if any:

As proposed, the project will increase the amount of instream wood and will also increase the vigorous riparian thicket that is present along the streambanks, providing additional cover for many songbirds and other wildlife species. The increased pool frequency and channel complexity associated with wood placement will greatly enhance the instream habitat for threatened salmonids such as steelhead and bull trout. Beavers are expected to recolonize Indian as a result of this project. The project is designed as a habitat enhancement project and no long-term negative impacts to wildlife are anticipated.

Wood gathering techniques were developed enhance upland habitat per recommendations from local and state federal resource agencies, particularly Northern spotted owls, goshawk and the Gray wolf (Appendix B). Timing of the Project will be outside of the spotted owl and goshawk nesting seasons.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Upon completion, there will be no need for an energy source at the project site.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

N/A

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Upon completion, there will be no consumptive uses of energy or natural resources. Some of the trees will be placed using manual winches and hand-held pulleys. Diesel utility tractors are fueled with a combination of diesel and locally-produced biodiesel.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

There is potential that equipment could leak oil, gas, or other toxic fluids into the Indian Creek corridor or within upland staging areas. Crews will be required to clean equipment (gas powered augers, etc.) prior to use to reduce the likelihood that pollutants from entering the corridor.

There is a slight risk of fire caused by use of the chainsaws to fall the trees. The chainsaws also pose a potential risk of a petroleum spill during refueling or if the gas tank leaks. All equipment will be kept in good working condition to reduce the risks of a chemical spill or sparks causing a fire. WDNR and WDNR will coordinate to assure compliant fire suppression methodologies are utilized and all fire safety protocols are in place prior to beginning the project. This project requires very little use of materials that would cause any environmental health hazards; there is no hazardous waste production that will occur.

1) Describe special emergency services that might be required.

Due to the nature of the activity, there is a chance that emergency personnel such as EMT, fire fighters, and sheriff's deputies may need to respond to the project area during implementation.

2) Proposed measures to reduce or control environmental health hazards, if any:

Equipment will be cleaned and checked for leaks prior to use. All crews will be required to have a spill kit on site. All equipment will be kept in good working condition to reduce the risks of a chemical spill or sparks causing a fire.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

N/A.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

The short-term noise associated with this project will include chainsaws and tree falling, small diesel tractors, heavy equipment, as well as 2-5 additional vehicles bringing work crews to the project sites during implementation. Noise from placing wood into the channel once they've been cut will be minor, consisting of breaking branches and crewmembers communicating over a distance up to 200 meters. There will be no long-term increase in noise due to this project. Noise levels are expected to be minimal, short-term, and within the hours of 6am-7pm.

3) Proposed measures to reduce or control noise impacts, if any:

YN, in coordination with WDNR and WDFW will reduce noise impacts to wildlife by avoiding working near important breeding areas during breeding and nesting seasons and turning off equipment when not in use. Noise levels are expected to be minimal, short-term, and within the hours of 6am-7pm.

9. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

The 1st Phase of the project will occur on WDNR Public Trust Lands and subsequent phases will be located within WDNR-WDFW Community Forest. The current use of adjacent properties are irrigated agricultural lands and open space.

b. Has the site been used for agriculture? If so, describe.

A majority of the project area is forested, however the floodplain meadows in Reach 1 of Phase 1 is leased for seasonal livestock grazing.

c. Describe any structures on the site.

There are not structures on the site for any Reach/Phase location.

d. Will any structures be demolished? If so, what

No.

e. What is the current zoning classification of the site?

“*Forested Watershed*” is the current zoning classification.

f. What is the current comprehensive plan designation of the site?

The current comprehensive plan designation for the site(s) is Commercial Forest.

g. If applicable, what is the current shoreline master program designation of the site?

N/A.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No. However, the Indian Creek watershed supports a lot of wildlife and plant species; with floodplain restoration these attributes are expected to increase substantially.

i. Approximately how many people would reside or work in the completed project

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

N/A

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Phase 1 of the project is consistent with WDNR watershed/riparian strategies and forest management technique – WDNR is working collaboratively with the YN and WDFW to support the project . Phase 2-4 will not be implemented until the Teanaway Community Forest Plan has been approved by WDFW and WDNR and consistent with the provision of the YIP. Phase 2-4 will require approval from WDFW and WDNR prior to permitting for restoration activities to assure alignment with the management goals and objectives within the approved Community Forest Plan, as well as the objectives of the Habitat/Watershed Protection and Enhancement Element of the YIP. This checklist was developed to evaluate all Phases of this Project as to not segment the project.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any.

None deemed necessary.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

N/A.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

N/A.

c. Proposed measures to reduce or control housing impacts, if any:

N/A.

10. Aesthetics

- a. **What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?**

The tallest structure will be the wood structures and are expected to exceed six feet above the OHWM.

- b. **What views in the immediate vicinity would be altered or obstructed?**

No known views will be altered or obstructed.

- c. **Proposed measures to reduce or control aesthetic impacts, if any:**

This project is expected to increase aesthetics of the area, expedite the natural processes of wood recruitment, and restore groundwater storage capacity, therefore measures to reduce or control aesthetic impacts are not proposed.

11. Light and Glare

- a. **What type of light or glare will the proposal produce? What time of day would it mainly occur?**

There may be some glare from construction equipment during daylight hours.

- b. **Could light or glare from the finished project be a safety hazard or interfere with views?**

No.

- c. **What existing off-site sources of light or glare may affect your proposal?**

N/A.

- d. **Proposed measures to reduce or control light and glare impacts, if any:**

None.

12. Recreation

- a. **What designated and informal recreational opportunities are in the immediate vicinity?**

Phase 1 is located on WDNR public trust lands that are heavily used throughout most of the year. Hunters, anglers, hikers, birdwatchers, mountain bikers, and campers use the Indian Creek Wildlife Area and the Forest Service property upstream of the proposed project area throughout the year. Phase 2-4 will be located within the WDNR-WDFW Community Forest, the plan to manage this forest is still in draft form but recreational opportunities will likely be similar.

- b. **Would the proposed project displace any existing recreational uses? If so, describe.**

No. The project will have no long-term impact on the existing recreational users. Noise associated with project implementation may impact wildlife movement during the short-term. Project implementation will cease during modern firearm hunting seasons for deer and elk to ensure crewmember safety and fair hunting opportunities.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

The project is proposed for implementation during the time when there will be the least environmental impacts and the least impacts on recreational uses.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

There is no record of any recent cultural surveys, buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources

The APE has been identified as culturally sensitive location; however there are no recorded landmarks, features, or other evidence of Indian or historic use or occupation. There are no recorded reports of recent cultural surveys within Section 21; therefore there is insufficient evidence upon which to base a finding of project effects. To address this lack, the APE will be surveyed by a professional archaeologist from the Yakama Nation; the resulting report will be used to inform BPA's findings.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

The BPA, as the federal lead for this project, initiated Section 106 consultation with DAHP and the affected tribe(s). As a result of consultation and research conducted by a professional archaeologist, the BPA determined that insufficient evidence was available to reach a finding about the potential for the project to affect historic properties. The BPA contracted with a professional archaeologist to conduct research designed to address this lack of information.

d. Proposes measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources: Please include plans for the above and any permits that may be required:

The BPA contracted with a professional archaeologist from the Yakama Nation to conduct research designed to address this lack of information. The survey is currently on-going. The results of the survey will be used to identify appropriate measures to avoid, minimize, and compensate for loss, changes to, and disturbance to historic properties.

14. Transportation

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any

Indian Creek Road (USFS 1400) is adjacent to Indian Creek throughout Phase 1 and will be used to access all phases of this Project.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No. The nearest transit stop is approximately 21 miles away and located Cle Elum, WA.

c. How many parking spaces would the completed project have? How many would the project eliminate?

N/A.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

There may be several vehicular trips per year (not day) to the Phase 1 site for monitoring and educational outreach.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe

No.

h. Proposed measures to reduce or control transportation impacts, if any

None.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

N/A.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

N/A.

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.



Signature:

Date Submitted: Tuesday, August 05, 2014.....