

SEPA ENVIRONMENTAL CHECKLIST

JUNE 2015

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:

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 [\[help\]](#)

1. Name of proposed project, if applicable: [\[help\]](#)

Kalama Falls Hatchery Renovation

2. Name of applicant: [\[help\]](#)

Washington State Fish and Wildlife

3. Address and phone number of applicant and contact person: [\[help\]](#)

Washington State Fish and Wildlife
600 Capitol Way North
Olympia, WA. 98501
Contact person: Cindy Knudsen
360 902 8422

Cindy.knudsen@dfw.wa.gov

4. Date checklist prepared: [\[help\]](#)

3 29 2013

Updated 4 21 2016 Phase II Kalama Falls Hatchery Renovation

5. Agency requesting checklist: [\[help\]](#)

Washington State Fish and Wildlife

6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)

This project is proposed for construction in 2013 and 2014.

Phase I was conducted partly in 2014 and 2015. Phase II will be conducted in 2016.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [\[help\]](#)

No.

Phase II

The phase II project footprint has been slightly extended beyond the fenceline at the property boundary. A new trench will be excavated and water supply pipelines will be installed. Invasive blackberries will be removed.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [\[help\]](#)

A Geologic Hazard Assessment Report, a Hydrogeological Assessment Report, and a Habitat Assessment Report (including Wetlands and Stream/Riparian Habitat assessment) has been prepared as required by Cowlitz County.

Phase II

In addition to the environmental information provided in Phase I, a Cowlitz County Critical Areas Report will be updated for Phase II activities.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. [\[help\]](#)

No.

10. List any government approvals or permits that will be needed for your proposal, if known.

[\[help\]](#)

Cowlitz County will require a Substantial Development Permit, a Floodplain Permit, and a Critical Areas Permit. An HPA permit and A Southwest Clean Air permit will also be required.

Phase II

Cowlitz County has requested a Substantial Development permit revision for Phase II activities.

11. Give brief, complete description of your 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.) [\[help\]](#)

This project will install:

- A new concrete fish ladder in the west portion of the site.
- A series of 12 rectangular concrete rearing ponds on the south portion of the site
- A new fish sorting facility
- Four circular fish holding ponds
- A concrete retaining wall generally west of the holding tanks.

Fish Ladder:

Previous Kalama Falls hatchery operations loaded fish from the fish ladder into a fish truck and then delivered the fish to the Kalama Falls Hatchery holding ponds. This operation was inefficient. The ageing fish ladder structure needs maintenance to continue current operations.

The new fish ladder will be constructed entirely inside the footprint of the current fish ladder structure. The old fish ladder will remain in place. Most of the water supplied to the Kalama Falls Hatchery fish ladder originates from the Kalama River Intake, located on the south end of the hatchery complex. During construction this water supply will be turned off and the fish ladder will be drained. In addition, stop logs will be slid into place in the current fish ladder to stop water originating from the Kalama River from entering the structure during construction. Seepage, if any into the fish ladder structure during construction will be pumped upland where it cannot re-enter the fish ladder or the Kalama River. During construction, supersacks will be installed and the fish ladder during construction will be essentially dry. The new fish ladder will also have an aboveground piping extension (approximately 240 feet long) that will be installed to direct water and fish to the new concrete rearing/holding ponds. Supersacks will be removed after construction.

Concrete Rearing/Holding Ponds:

Six rearing ponds will be replaced with 12 dual use rearing/holding ponds (16.5 feet wide x 8 feet tall wall x 69 feet long) in the same footprint as the old fish rearing ponds. Average water depth of the new ponds will be 4.82 feet. An average of 5,500 cubic feet water will be contained in each pond. These ponds will be supplied with 4 inch supply line.

An attached fish migration channel (originating from the new fish ladder) will be installed along the west end of the new rearing/holding ponds. A vertical fish crowder will be installed inside the fish migration channel to facilitate fish movement to the fish sorting area. Sprinklers will be attached along the sides of the pond walls.

Fish Sorting Facility:

The fish sorting facility (30 feet wide x 29 feet high) will be located at the southern end of the new rearing ponds. A feature of the fish sorting facility is an attached mechanized fish lift to ease fish hatchery operations. This sorting facility structure will also have an attached fish flume to return fish to the Kalama River, and an area for forklift operations under the fish sorting facility.

Four Circular Fish Holding Ponds:

These four ponds are along the southern end of the project area. Pond "A" will be 16 feet in diameter and ponds "B – D" will each be 30 feet in diameter.

Concrete Retaining Wall:

Along one side of the new circular fish holding ponds is a concrete block retaining wall, with attached 18 inch HDPE pipe that supplies the new circular ponds with re-use water from the new dual use ponds.

PHASE II – Updated Project Components

Phase I construction anticipated no change to riparian habitat areas, because construction activities were within previously disturbed upland areas.

Phase II of this project involves construction of a trench at the west side of the project, beyond an existing fence line in a previously undisturbed area. Part of this construction is located approximately ten feet away from a delineated palustrine scrub-shrub wetland with a minor forested component that is less than one acre in size and primarily vegetated with grasses. This revision is required to reposition the adult ponds in a way to maximize efficiency of the overall existing hatchery structures.

After the boundary fence is removed, a trench 250 feet long will be dug at the current fence line to accommodate a new water delivery system. Two pipes will be installed in the trench; one 18 inch and one 24 inch pipe. After the water supply pipes have been installed the trench will be backfilled and bird predation poles and the boundary fence will be replaced. A fish return pipe will be temporarily placed each year above the ground, across one end of the delineated wetland to return adult fish directly to a deep pool in the Kalama River.

A WDFW archaeological “inadvertent discovery plan” will be in place during construction activities. A trained observer may be present during construction excavation activities to watch for artifacts. If artifacts are discovered during construction of the trench, construction activities will stop and the proper authorities will be notified.

Mitigation for this project includes total removal of 21,800 square feet of blackberry vines on the hatchery property in two different areas as indicated on permit drawings.

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. [\[help\]](#)

The Kalama Falls Hatchery is located on a floodplain terrace associated with the Kalama River approximately 18.5 miles east of Interstate 5 along Kalama River Road, Kalama Washington in Cowlitz County. The site is bounded to the south west and north by the Kalama River and to the east by Kalama River road. From Interstate 5, take exit 32 for Kalama River Road. Turn Left onto Kalama River Road. Proceed 8.6 miles to 3900 Kalama River Road. The Kalama Falls Hatchery is on your left. T06N,R01E, S7, (46.01603,-122.73363).

B. ENVIRONMENTAL ELEMENTS [\[help\]](#)

1. Earth [\[help\]](#)

a. General description of the site: [\[help\]](#)

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

The project is located on a bend in the Kalama River. There are forested areas surrounding the hatchery with mountainous areas nearby. The Kalama Falls Hatchery site is on a small peninsula bounded by the Kalama River, which flows around three sides of the site in a single meander. There is a degraded slope wetland on the site perched above the bank of the river between the river and the hatchery facility.

Generally, the Kalama River basin is a 531 km² (205 mi²) watershed extending from the southwest slopes of Mount St. Helens to the Columbia River. The headwaters of the Kalama River begin in Skamania County, WA but the majority of the 72 km (45 mi) river flows within Cowlitz County. Approximately 96 percent of the Kalama River Watershed is forested and nearly the entire basin is owned and managed by private companies for commercial timber production. An extensive road network covers the forest lands within the watershed. No macroalgae or eelgrass is known to be present at the proposed project location on the riverbank of the Kalama River. There is varying cobble instream in varying sizes suitable to support fish habitat.

Overall habitat includes Pilchuck loam soil consisting of fine sandy soil and a tree stratus with western red cedar (*Thuja plicata*) and big leaf maple (*Acer macrophyllum*). Shrub stratum is Himalayan blackberry (*Rubus armeniacus*). Herb stratum is primarily reed canary grass (*Phalaris arundinacea*). There are also some areas of salmon berry (*Rubus spectabilis*) and red osier dogwood (*Cornus alba*).

b. What is the steepest slope on the site (approximate percent slope)? [\[help\]](#)

8% 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 agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils. [\[help\]](#)

Pilchuck fine loamy sand is at the project area. No farm land exists anywhere near the project location.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [\[help\]](#)

Pilchuck soil found at the Kalama Hatchery has a slight erosion hazard, but does not meet criteria for an erosion hazard area. Across from the hatchery on the opposite bank of the Kalama River where no construction activities will occur, there are some unstable slope areas identified.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill. [\[help\]](#)

Concrete will be used as fill material for construction activities involving:

Rearing Ponds: Fill 2,757.69 cubic yards

Fish Ladder: Fill 1,572.15 cubic yards

Sorting Facility Fill: including loading channel 235.74 cubic yards

Circular Ponds Fill: 235.74

The concrete will come from a local quarry.

PHASE II

Phase II excavation includes the previously undisturbed area from the hatchery perimeter fence towards the water edge for approximately 10 feet. Excavation in the new 250 foot trench equals 1,100 cubic yards. Some clean washed gravel material will be used at the bottom of the trench for water supply pipe installation. Materials excavated for Phase II will be used to backfill over the trench at project completion. Construction in the wetland buffer will affect approximately 2,000 square feet.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#)

Yes erosion could occur as a result of construction activities.

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

The existing pavement area within the areas of construction includes 28,872 square feet. Total impervious area is equal to 29,614 square feet for a net change in impervious areas -742 square feet or -2.5% percent change over the existing footprint.

Phase II will create no new impervious surfaces.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)

A Temporary Erosion and Sediment plan will be put in place before construction activities. Best Management Practices will ensure that excess sediments and other deleterious materials are not transported from the construction zone into habitat areas. Limits of construction will be identified on the site plans and on the ground using high visibility fencing. Spill containment countermeasures will be available on site during construction. Disturbance to vegetation within the riparian or wetland buffers will be restored following project completion.

Phase II:

Best Management Practices (BMPs) will be used if ground water is encountered during construction activities to protect water quality. If surface water is encountered during Phase II activities, it will be routed away from the project area into one of the hatchery ponds or into an uplands area for filtering before the water eventually returns to the Kalama River. Fabric filter fence, straw bales and straw wattles will be used to minimize effects from erosion in surface water from entering the Kalama River.

There are no anticipated impacts from the project that could change temperature, chemical or nutrient levels affecting fish or the environment from any of the Phase II activities. BMPs include; siltation fences, and hay bales. At project conclusion, these materials will be removed by hand and any disposed materials will be removed and taken to an approved disposal site out of the flood zone.

Mitigation for Phase II activities includes removal of blackberries by spraying and/or manual removal in the designated mitigation areas. Mitigation is propopsed at a ten to one ratio. Replanting will be in mitigation areas noted on project drawings with native grasses. Maintenance of the mitigation areas will be performed by hatchery staff by mowing as required.

2. Air [\[help\]](#)

- 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. [\[help\]](#)

Typical emissions from trucks and other machines will occur during construction activities.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [\[help\]](#)

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#)

No.

3. **Water** [\[help\]](#)

a. Surface Water:

- 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. [\[help\]](#)

Yes, the Kalama River is next to the proposed project. The Kalama River flows into the Columbia River.

- 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. [\[help\]](#)

Yes portions of or all project components are within 200 feet of the Kalama River.
Please see attached project plans.

- 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. [\[help\]](#)

No fill or dredge materials will be placed in or removed from surface water or wetlands.

Phase II:

No fill will be placed in surface water or inside a wetland. Construction activities will occur within a 120 foot boundary of a delineated wetland. Fill materials (1,100 cy) will be placed within the wetland boundary to cover the new water delivery pipes, in a 2,000 square foot area. Project activities occurring within the wetland boundary are indicated in the project drawings submitted with the revised Phase II checklist (pages 10 – 13).

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. [\[help\]](#)

Water used by the proposed project will be provided to the new structures by an existing intake on the Kalama River. No change in surface water withdrawals or diversions is proposed by the completion of project elements. Water diversion from the existing intake is conducted in accordance with WDFW Kalama Falls Hatchery water rights.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [\[help\]](#)

Yes, the hatchery site is located within a floodplain terrace associated with the Kalama River. All components are within the 100 year floodplain.

- 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. [\[help\]](#)

No, the proposed project does not involve any discharge of waste material to surface water.

b. Ground Water:

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. [\[help\]](#)

No ground water is expected to be withdrawn by the project components. No water will be discharged to ground water from project components before or after construction.

- 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. [\[help\]](#)

No waste materials will be discharged to ground.

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. [\[help\]](#)

Water runoff from the project construction activities could occur. This water will be contained by BMPs and is not expected to enter the Kalama River.

- 2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)

No waste materials are expected to enter ground or surface waters.

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. [\[help\]](#)

Phase II:

Groundwater could be encountered during excavation of the trench during construction activities. After construction, drainage patterns in the vicinity are not expected to be affected.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [\[help\]](#)

Phase II

Ground water could be encountered during excavation of the trench. If groundwater is encountered, it will be pumped to a proposed dewatering area where it will be filtered through haybales and filter fences before its eventual entry into the Kalama River. Best Management Practices will be used to prevent any sediment from entering any source of surface water. The proposed dewatering area is indicated in the project drawings.

4. Plants [\[help\]](#)

a. Check the types of vegetation found on the site: [\[help\]](#)

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- 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? [\[help\]](#)

Some landscaped areas will be displaced in an area including mowed grass lawn and small landscape trees. Two western red cedar trees (*Thuja plicata*) may be removed with estimated sizes of 22 to 24 inches diameter. A small cluster of young red alder trees (*Alnus rubra*) may be removed (6 – 8 inches in diameter). All trees impacted by the project are within the riparian and wetland buffers.

Other vegetation that could be affected is invasive (Himalayan blackberry, reed canary grass). The affected areas are small and should have little effect on stream and riparian habitat functions.

Phase II:

As mitigation for Phase II construction, 18,000 square feet of blackberries in one area, and 3,800 square feet in another area will be removed totaling 21,800 square feet. Removal of blackberries in these areas equates to mitigation at a 10 to 1 ratio, well over Phase II project impacts. Please refer to project drawings for areas where blackberries will be removed.

c. List threatened and endangered species known to be on or near the site. [\[help\]](#)

No endangered plants are known to be at the proposed project site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#)

Any disturbed areas will be restored with native species found on site.

Phase II

After blackberries are removed from the two areas specified in the project drawings, the area will be replanted with native grasses. They will be maintained by hatchery staff after construction by mowing.

e. List all noxious weeds and invasive species known to be on or near the site. [\[help\]](#)

Phase II

There are invasive blackberry plants at the edges of the Kalama Falls Hatchery. Phase II portion of the project will remove 21,800 square feet of blackberry vines as mitigation for project activities.

5. Animals [\[help\]](#)

- 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. [\[help\]](#)

Examples include:

birds: hawk, heron, eagle, songbirds, other:

mammals: deer, bear, elk, beaver, other:

fish: bass, salmon, trout, herring, shellfish, other _____

- b. List any threatened and endangered species known to be on or near the site. [\[help\]](#)

These species are in the Kalama River, adjacent to the project location:

- Eulachon, Southern DPS (*Thaleichthys pacificus*) – Threatened
- Chinook salmon, Lower Columbia River ESU (*Oncorhynchus (Salmo) tshawytscha*) – Threatened
- Chum salmon, Columbia River ESU (*Oncorhynchus (Salmo) keta*) – Threatened
- Coho salmon, Lower Columbia River ESU (*Oncorhynchus (Salmo) kisutch*) – Threatened
- Steelhead, Lower Columbia River DPS (*Oncorhynchus (Salmo) mykiss*) – Threatened

Phase II

There are no known threatened species that use the riparian corridor site where new Phase II construction activities will be conducted.

- c. Is the site part of a migration route? If so, explain. [\[help\]](#)

The above species may migrate through the Kalama River near, but not at the project site.

- d. Proposed measures to preserve or enhance wildlife, if any: [\[help\]](#)

Best Management Practices will be used to avoid introduction of erosion to the Kalama River.

Phase II

The project will be done at a time allowed by permits and seasonal restrictions to minimize effects from noise to terrestrial and instream habitat.

- e. List any invasive animal species known to be on or near the site. [\[help\]](#)

Phase II

None are known

6. Energy and Natural Resources [\[help\]](#)

- 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. [\[help\]](#)

Electric power will be required by the completed project elements.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [\[help\]](#)

No.

- 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: [\[help\]](#)

None.

7. Environmental Health [\[help\]](#)

- 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. [\[help\]](#)

No.

- 1) Describe any known or possible contamination at the site from present or past uses.
[\[help\]](#)

None are known.

- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. [\[help\]](#)

Phase II

Two water delivery utility pipes are installed in Phase II, that only deliver water for hatchery operations. No source of hazardous liquid or gas transmission is located within the project area or in the vicinity.

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. [\[help\]](#)

Phase II

Two water delivery utility pipes are installed in Phase II, that will only deliver water. Gasoline or diesel will be used during construction, however, machine fueling will be conducted off site. Herbicide may be used during blackberry removal for project mitigation, that will be applied by a licensed herbicide applicator. Best Management practices will be used to prevent any source of chemical contamination from entering any source of surface water. No sources of hazardous chemicals will be used or produced from this project after construction.

- 4) Describe special emergency services that might be required. [\[help\]](#)

None.

- 5) Proposed measures to reduce or control environmental health hazards, if any: [\[help\]](#)

All Best Management Practices will be conducted including equipment refueling off site to avoid chemical or fuel spills.

b. Noise [\[help\]](#)

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

None.

- 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. [\[help\]](#)

Noise generated from the proposed project will typically involve use of the fish lift during seasonal fish handling practices. Construction activities from the proposed project will be during typical working hours of 7 a.m. - 5 p.m.).

Phase II

Noise will be generated from construction activities to install the water supply trench. After construction, no noise is expected to emanate from the completed project. Construction activities from the proposed project will be during typical working hours of 7 a.m. - 5 p.m.).

- 3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#)

None.

8. Land and Shoreline Use [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. [\[help\]](#)

This site has been a fish hatchery since 1958. Adjacent properties are rural forested areas primarily used for timber harvesting and some recreational properties.

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use? [\[help\]](#)

Phase II

This site has not been used as working farmlands or working forest lands. No land conversion is proposed from Phase II activities.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how: [\[help\]](#)

Phase II

This project will not be affected by any working farmlands or working forest lands. No application of pesticides, tilling, or harvesting activities from working farmlands or forest land business operations will affect this project.

- c. Describe any structures on the site. [\[help\]](#)

Adjacent properties include supporting structures including a main hatchery building residences, a large outbuilding, paved parking. There are also fish ponds, a fish ladder and collection structure, pollution abatement pond, mowed lawn and other associated features. There is a narrow strip of vegetation with shrub and herbaceous vegetation with a few trees along the riparian corridor between the facility and the adjacent Kalama River.

d. Will any structures be demolished? If so, what? [\[help\]](#)

Excavation will occur for the adult rearing pond, the fish ladder, sorting facility and circular ponds.

Phase II

A fence at the edge of the paved area will be removed.

e. What is the current zoning classification of the site? [\[help\]](#)

Rural.

f. What is the current comprehensive plan designation of the site? [\[help\]](#)

Shoreline.

g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#)

Conservancy.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#)

This site is near erosion hazard areas and Critical Aquifer Recharge Areas (CARA).

i. Approximately how many people would reside or work in the completed project? [\[help\]](#)

Several staff members live in staff housing at the Kalama Falls Hatchery near but not at the project components.

j. Approximately how many people would the completed project displace? [\[help\]](#)

None.

k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#)

None.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#)

No change in facility use is proposed. This project maintains the site for continued safe operation.

- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: [\[help\]](#)

No change in facility use is proposed.

9. Housing [\[help\]](#)

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- c. Proposed measures to reduce or control housing impacts, if any: [\[help\]](#)

None.

10. Aesthetics [\[help\]](#)

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

The tallest structure will be peak of the sorting facility, measuring 29 feet tall.

- b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#)

No views will be obstructed.

- b. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#)

None.

11. Light and Glare [\[help\]](#)

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#)

None.

- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#)

No.

- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#)

None.

d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#)

None.

12. Recreation [\[help\]](#)

a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)

Wildlife viewing, hunting, fishing and recreational hiking is available in the general area.

b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)

None.

13. Historic and cultural preservation [\[help\]](#)

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. [\[help\]](#)

None are known.

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. [\[help\]](#)

None are known.

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. [\[help\]](#)

Phase II

During Phase I, WDFW assessed potential impacts to cultural and historic resources, and conducted tribal consultation for the Kalama Falls Hatchery Renovation project. During the initial consultation, no concerns were received from the tribes, or from the Department of Archaeology and Historic Preservation. Consultation has been reinitiated by the WDFW archaeologist for phase II project activities, including reinitiation of tribal consultation.

d. Proposed 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. [\[help\]](#)

If any archeological items of interest are discovered the area will be screened off, and construction activities will stop. The construction foreman will contact the Washington State Department of Archeology and Historic Preservation (DAHP) at (360 586-3080).

Phase II

A WDFW inadvertent discovery plan was in place for Phase I activities, that provides procedures to follow if items of archaeological interest are discovered. Phase II will use the samme WDFW inadvertent discovery plan and follow the plan if archaeological items of interest are discovered. A trained observer will also be on site during trench excavation to watch for any source of archaeological artifacts.

14. Transportation [\[help\]](#)

- 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. [\[help\]](#)

Interstate 5 and Kalama River Road serves this site. No changes to the existing street system are proposed.

- 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? [\[help\]](#)

The nearest public transportation stop is unknown.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)

None.

- 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). [\[help\]](#)

No.

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. [\[help\]](#)

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? [\[help\]](#)

No increased vehicle trips will occur as a result of this project.

- 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. [\[help\]](#)

No.

h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#)

None.

15. **Public Services** [\[help\]](#)

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

No.

b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#)

None.

16. **Utilities** [\[help\]](#)

a. Circle utilities currently available at the site: [\[help\]](#)
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other _____

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. [\[help\]](#)

The project will require electricity, and water. These services are available at the site. Contractors will connect to the site utilities according to construction plans.

C. Signature [\[help\]](#)

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: Cynthia Knudsen

Name of signee Cynthia Knudsen

Position and Agency/Organization Biologist, WLA Dept. Fish and Wildlife

Date Submitted: 4/21/2016